Clinical Manual for the Psychiatric Interview of Children and Adolescents

Claudio Cepeda, M.D.
Clinical Manual for the Psychiatric Interview of Children and Adolescents

Claudio Cepeda, M.D.
Senior Child and Adolescent Psychiatrist
Southwest Mental Health Center, San Antonio, Texas
Associate Clinical Professor, Department of Psychiatry
University of Texas Health Science Center at San Antonio
To my oldest brother, Hernando, for his love and perennial support; to my children, Rene and Mary, Adrian, Joe and Carole; to my grandchildren, Madeline and Juan Diego; and most of all, to Rosalba, my loving and devoted wife.
This page intentionally left blank
# Contents

List of Tables ........................................... xiii

Cases ..................................................... xvii

Preface ................................................... xxiii

*Claudio Cepeda, M.D.*

Acknowledgments ........................................ xxv

## 1 Diagnostic and Therapeutic Engagement .............. 1

Key Points ............................................. 1

Factors That Facilitate Engagement of Family .... 10

Other Factors That Facilitate Engagement With Child and Family .... 12

Obstacles to Development of Engagement .... 12

Reverse Engagement .................................... 13

References ............................................ 14

Recommended Readings .............................. 15

## 2 General Principles of Interviewing ................. 17

Key Points ............................................. 17

Interview Setting ...................................... 17

Preparation for the Psychiatric Examination .... 18

Interview Process ..................................... 19

Maintaining Dependency Ties During the Interview .... 20

Conducting the Individual Interview .............. 22

Creating Engagement .................................. 22

Basic Aspects of the Psychiatric Examination .... 23

Phases of the Psychiatric Examination .......... 24

Modalities of the Psychiatric Examination .... 33

Strategies for Evaluation of Preadolescents .... 35
Family Assessment ........................................ 111
Key Points .................................................. 111
Presenting Problem........................................ 112
Marital Conflict............................................ 113
Intergenerational Conflict............................... 114
Deaths in the Family..................................... 114
Illnesses in the Family................................. 115
Financial Stressors........................................ 117
Family Conflicts With Other Systems................ 117
Observations of Family Behavior
During the Family Interview............................ 118
Areas of Family Assessment
That Need Specific Inquiry............................ 128
References.................................................. 129

Providing Postevaluation
Feedback to Families..................................... 131
Key Points .................................................. 131
Notes ....................................................... 139
References ................................................ 140
Recommended Readings................................. 141

Evaluation of Special Populations .................... 143
Key Points .................................................. 143
Children With Serious Acute or Chronic Medical Illness........................................ 143
Children With Burn Trauma............................ 144
Children With Sensory Deficits........................ 146
Children With Neurodevelopmental Disorders.................................................. 149
Children Living in Poverty.............................. 155
Minorities .................................................. 156
Children in Out-of-Home Placement................ 157
Migrants ..................................................... 159
Displaced and Refugee Children....................... 160
Issues of Posttraumatic Stress Disorder
Related to Terrorism ................................. 161
Illegal Immigrants .................................. 162
References .......................................... 163
Recommended Readings .......................... 164

7 Documenting the Examination
Using the AMSIT ................................. 167
Key Points ........................................ 167
Appearance, Behavior, and Speech .......... 168
Mood and Affect ................................ 179
Sensorium ........................................ 180
Intellectual Function .............................. 182
Thought .......................................... 183
Notes ........................................... 193
References ...................................... 194
Recommended Readings ........................ 195

8 Evaluation of Internalizing Symptoms ...... 197
Key Points ........................................ 197
Evaluation of Suicidal Behaviors .............. 198
Evaluation of Depressive Symptoms .......... 206
Evaluation of Anxious Symptoms .......... 215
Evaluation of Obsessive-Compulsive
Behaviors ....................................... 220
Evaluation of Eating Disorders ............... 226
Evaluation of Psychotic Symptoms .......... 227
Evaluation of Schizoid Symptoms .......... 239
Notes ........................................... 241
References ...................................... 244
Recommended Readings ........................ 247

9 Evaluation of Externalizing Symptoms ...... 251
Key Points ........................................ 251
Evaluation of Hyperactive
and Impulsive Behaviors ....................... 251
Evaluation of Aggressive and Homicidal Behaviors .................. 257
Evaluation of Bipolar Symptoms .................. 268
Evaluation of Oppositional Behaviors .................. 277
Evaluation of Substance Abuse .................. 282
Notes .................. 283
References .................. 284
Recommended Readings .................. 288

Evaluation of Symptoms of Abuse ............... 291
Key Points .................. 291
Evaluation of Symptoms of Abuse .................. 291
Assessment of Truthfulness in Abused Children .................. 301
References .................. 305
Recommended Readings .................. 306

Neuropsychiatric Interview and Examination .................. 309
Key Points .................. 309
Elements of the Neuropsychiatric History ........... 312
Neuropsychiatry and Psychosocial Factors ........... 312
Mental Status Examination of Child With Neuropsychiatric Disorder ........... 315
Elements of Neurodevelopmental Evaluation ........... 316
Indications for Consultation and Testing ........... 324
Indications for Neuropsychological Testing ........... 327
Interviewing Children With Learning Disabilities and Other Neuropsychiatric Deficits ........... 328
Specific Neuropsychiatric Symptoms ........... 337
Notes .................. 370
References .................. 374
Recommended Readings .................. 379

Comprehensive Psychiatric Formulation ........... 383
Key Points .................. 383
List of Tables

Table 1–1  Ingredients of engagement ......................... 4
Table 1–2  Factors that facilitate engagement of the child ... 5
Table 1–3  Techniques not considered helpful for engagement .......................... 5
Table 2–1  Phases of the psychiatric examination ............. 25
Table 2–2  Focus of phase 2: elaborating the presenting problem .......... 27
Table 2–3  Advantages and limitations of behavioral rating scales ............... 36
Table 2–4  Toys required for a diagnostic examination ..... 37
Table 2–5  Developmentally appropriate terms for communicating with young children ........... 41
Table 2–6  Strategies used in the psychiatric examination of adolescents ............................. 44
Table 2–7  Principles of physical contact ...................... 46
Table 2–8  Benefits and risks for the evaluating psychiatrist to perform the physical examination .......... 49
Table 2–9  Qualities of the diagnostic interview .............. 53
Table 3–1  Sequence of requested diagnostic drawings ...... 81
Table 3–2  Elements of the child’s subjective world ...... 100
Table 7–1  Elements of the appearance, behavior, and speech section of the AMSIT for children and adolescents .......................... 169
Table 7–2  Elements of the thought section of the AMSIT for children and adolescents .......................... 184
Table 8–1  Pertinent areas of inquiry in examining suicidal children .............................. 201
Table 8–2  Factors that affect bereavement risk after parental death .............................. 203
Table 8–3  Factors to be explored regarding suicide attempts .......... 205
Table 8–4  Negative prognostic features of depressive disorders .......... 216
Table 8–5  Obsessive-compulsive disorder spectrum .... 223
Table 8–6  Common compulsive behaviors in children and adolescents. .......... 224
Table 8–7  Developmental events and precursors of very early onset and early onset schizophrenia ......................... 229
Table 8–8  Differential diagnosis between pediatric mania and very early onset schizophrenia ......................... 230
Table 8–9  Instruments used in diagnosis of schizophrenic disorders of childhood and adolescence ......................... 235
Table 9–1  Developmental factors in the evolution of bipolar disorder ......................... 269
Table 9–2  History, signs, and symptoms associated with bipolar disorder ......................... 276
Table 9–3  Productive and counterproductive approaches in dealing with children with oppositional behaviors ......................... 278
Table 10–1  Benefits of using anatomically correct dolls ... 296
Table 10–2  Issues that need to be resolved in the validation of sexual abuse ............... 297
Table 10–3  Developmental disruptions fostered by physical and sexual abuse experiences ...... 298
Table 10–4  Psychiatric disturbances commonly observed in sexually abused individuals .... 299
Table 11–1  Comprehensive neuropsychiatric history .... 313
Table 11–2  Conditions indicating need for neuropsychiatric investigation ............. 314
Table 11–3  Elements of the neurodevelopmental evaluation ......................... 317
Table 11–4  Indications for neuropsychological testing .... 328
Table 11–5 Advantages and disadvantages of commonly used neuropsychological batteries and individualized approaches ................................................................. 329

Table 11–6 Misconceptions about neuropsychological testing ......................................................... 331

Table 11–7 Sequelae of traumatic brain injury ................................................................. 345

Table 11–8 Structural brain abnormalities in very early onset and early onset schizophrenia ................................................................. 364

Table 12–1 Objectives of the comprehensive diagnostic formulation ................................................................. 390

Table 15–1 Diagnostic circumstances in which countertransference may be problematic ................................................................. 446
This page intentionally left blank
Cases

Chapter 1

Benny Engaging defiant and confrontational adolescent .................................................. 7
Rudy Engaging adolescent with paranoia ................................................................. 9

Chapter 2

Nick Respecting dependency ties during assessment ..................................................... 20
George Admiring child’s manipulations and gaining trust ............................................ 22
Matthew Examining suicidal intentionality ............................................................... 29
Donna Process interviewing adolescent with lack of emotional reactivity ..................... 42

Chapter 3

Rudd Physical holding of preschooler with severe developmental delays, impulsivity, and hyperactivity ................................................................. 64
Casper Using confrontation as engagement technique with adolescent with extreme suicidal behavior and marked denial ........................................ 65
Roland Interviewing in displacement with child with neurological sequelae ................. 68
Saul Interviewing in displacement with child abandoned by father ............................... 69
Damian Role reversal with adolescent with severe dyscontrol and strong denials ............ 71
Richie Role enactment with heart patient who stopped taking antirejecting medication 72
Chen  Double chair technique with adolescent with suicidal behavior whose parents were ill and unaware of child’s concerns  

Natalie  Double chair technique with adolescent longing for a connection with mother. 

Pedro  Nonverbal engagement with young child with aggressive behavior 

Tom  Drawing used to break mother’s denial about seriousness of son’s problems. 

Tina  Drawing used to evaluate child with elective mutism 

Luz  Drawing used to evaluate child with attachment difficulties 

Joel  Play used to assess mother-child conflicts 

Chad  Play used to enact conflicts regarding body elimination 

Suzy  Play used to assess child’s manipulative and oppositional behaviors 

Harold  Prospective interviewing with adolescent 

Chapter 4

Shon  Impact of mother’s severe illness on child 

Mark  Observations of family with suicidal adolescent 

Wanda  Observations of family with chronically dysfunctional adolescent. 

Daphne  Impact of developmental interferences by anxious mother on preschool daughter. 

Chapter 7

Tim  Metaphorical language use by a male adolescent 

Sharon  Metaphorical language use by a female adolescent with bulimia.
Jennifer  Female adolescent with thought disorder involving goal directedness .......... 185
Fabio    Preschooler with reality testing disturbance  ... 186
Dionne   Child who differentiates hearing thoughts from hearing voices ..................... 187
Dwayne   Preadolescent with marked problems with reality testing  ......................... 187
Ralph    Adolescent with psychotic features associated with complex partial seizures ..... 189
Ted      Preadolescent with bizarre delusions .......... 191
Mat      Preadolescent with unusual delusions .......... 191
Donna    Adolescent with somatic delusions ................ 191
Ming     Adolescent with depression and delusions of having cancer .................. 192

Chapter 8

Salim    Child with psychotic guilt  ......................... 207
Fred     Expression of guilt in a child who burned his brother ................. 208
Lillian  Adolescent with depression who displayed no depressive features during interview ...... 214
Glenn    Preadolescent with depression and anxiety ....... 215
Aurora   Preadolescent with extensive evidence of anxiety disorders in the family ........ 220
Ann      Adolescent with obsessive-compulsive disorder  ......................... 224
Ramona   Adolescent with bipolar disorder and obsessive-compulsive disorder .......... 225
Rick     Child with very early onset schizophrenia ...... 231
Troy     Adolescent with early onset schizophrenia ...... 235
Myra     Adolescent with complex partial seizures that mimicked schizophrenia .......... 238
Kurt     Adolescent with schizoid disorder ................. 240
Chapter 9

Todd  Aggressive adolescent who abused his mother .......................... 263
Sally  Aggressive and self-abusive adolescent ...... 264
Tony   Child with mania .......................... 270
Kathy  Child with mixed bipolar symptoms ....... 273
Joe    Adolescent with mixed bipolar symptoms .... 273
Habib  Child with mixed bipolar symptoms ....... 274
Raul   Child with severe oppositional defiant disorder .......................... 280

Chapter 10

Mary   Respecting language of adolescent disclosing possible rape. ................. 301
Víctor Confabulation by adolescent. ................. 304

Chapter 11

Frances Preadolescent with aphasia and neuropsychological deficits ............... 333
Ricardo Child with psychotic features and disruptive behavior secondary to seizures. ............... 342
Roger  Child with regression associated with adrenoleukodystrophy ............... 343
Abe    Adolescent with traumatic brain injury ............... 344
Ruben  Child with severe memory problems ............... 350
Donald Adolescent with obsessive-compulsive disorder. ....................... 367

Chapter 12

Steve  Adolescent demonstrating disharmony of developmental lines. ............... 391
John  Formulation of a preadolescent ................... 400
Andrew  Formulation of an early adolescent. ................. 400
Maria   Formulation of an adolescent ....................... 400
Cory     Formulation of an adolescent with neuropsychiatric features. ......................... 404
Rudolf   Formulation of an adolescent using self psychology theory ......................... 405

Chapter 13

Kirk     Conflicted adolescent raised by parents with psychopathology ..................... 417

Chapter 14

Carlos   Management of moderate diagnostic resistance in an adolescent .................. 430
Jackie   Management of moderate to severe resistance in a preadolescent with cerebral palsy ......................... 431
Billy    Management of resistance in adolescent with encopresis ......................... 434
Johnny   Severe resistance in adolescent with conflictive relationship with parents ...... 435
Robert   Diagnostic resistance in an adolescent amputee ......................... 437
Marta    Diagnostic resistance in family of suicidal adolescent ......................... 439

Chapter 15

Martin   Drowsiness as countertransference response to adolescent ..................... 450
Amy      Constructive use of countertransference with an adolescent ..................... 452
Britt    Angry countertransference ......................... 453
This page intentionally left blank
The format, content, and modality of the psychiatric interview of the child and family are not static. Advances in elucidation of etiology will narrow the scope of the inquiry; results of longitudinal observations will clarify antecedents of major psychiatric syndromes; advances in genetics and the elucidation of morphological and behavioral phenotypes will circumscribe the areas of questioning for suspected or identified syndromes; a better understanding of the nature-nurture relationship will put on a more solid ground the nature of the developmental guidance in dealing with parents and families; and so on. One major ambition of the field of child psychiatry has been and always will be the identification of markers of future psychopathology, with the goal of either stymieing or decreasing the impact of an unfolding adverse developmental process. All these developments will have a clear impact on how the psychiatric interview will need to be conducted and modified.

I have been very pleased with the reception to my short book, *Concise Guide to the Psychiatric Interview of Children and Adolescents* (2000), which was translated into Japanese, Slovak, and Spanish. The present book, *Clinical Manual for the Psychiatric Interview of Children and Adolescents*, is based on the earlier publication but has five new chapters. The book begins with the new chapter on engagement, a fundamental objective of the diagnostic evaluation; no engagement is reached if the examiner fails to achieve an emotional connection with the child and the family. Expediency is the major threat to the examiner’s obligation to create engagement. A new practical chapter on family assessment suggests a number of observations and areas of inquiry that the evaluator needs to pursue to gain a broad perspective of a family’s organi-
zation and functioning. The chapter on special interviewing techniques offers a variety of approaches to meet special situations or challenges during the diagnostic assessment. This chapter helps the examiner to build up interviewing skills by incorporating specialized techniques during the psychiatric examination. The chapter on providing a family with postevaluation feedback suggests how the examiner can deal with this complex aspect of the diagnostic assessment. The chapter on evaluating special populations aims to familiarize the examiner with special clinical populations that require a sensitive and appropriate technical approach.

The other chapters of the manual are updated chapters from the Concise Guide. Keeping in mind that this book is foremost a clinical tool, I updated only the most relevant advances in clinical sciences and neurosciences. In Chapter 11, “Neuropsychiatric Interview and Examination,” I attempted to keep the content of the chapter relevant to clinical practice and office use. The book is intended to be a practical know-how resource for the psychiatric evaluation of children and adolescents and their families.

Claudio Cepeda, M.D.
I want to express gratitude to my editor, Robert Hales, M.D., for his helpful and sensitive guidance during the revision and enlargement of Concise Guide to the Psychiatric Interview of Children and Adolescents.

I am grateful to Graham Rogeness, M.D., former president of Southwest Psychiatric Physicians (SPP), to which I belong, for his support during the writing and review of the manuscript. I express my appreciation to SPP staff for office support during the preparation of the new draft. I am indebted to David Booth, director of information technology, and to Quint Taylor, network administrator, both at the Southwest Mental Heath Center, for computer support. David also digitized the drawings, and Quint assisted in finalizing the files. I am most grateful to the American Psychiatric Publishing editors for the meticulous job they did in correcting the manuscript and for improving the clarity and readability of the text.

I am grateful to Lindy Bankes, M.D., Mary Unzueta-Hernandez, M.D., Kasey Reeves, M.D., and Rana Sibai, M.D., fellows in child and adolescent psychiatry, and to Daniel Diaz, M.D., resident in general psychiatry, all from the Department of Psychiatry at the University of Texas Health Science Center at San Antonio, for their assistance with bibliographic references.

Feedback is welcome at claudio.cepeda@smhc.org.
This page intentionally left blank
Diagnostic and Therapeutic Engagement

Key Points

• Engagement is a fundamental and indispensable component of the diagnostic examination.
• Engagement relates to a positive and benevolent bond between the child and family and the examiner.
• The examiner is responsible for the creation and maintenance of the process of engagement.
• Success in the establishment of engagement is correlated with success in the diagnostic process and with compliance with treatment.

Diagnostic engagement relates to the emotional and rational involvement of the child or adolescent and his or her family with the examiner for the purpose of establishing a psychiatric diagnosis and developing a therapeutic plan. This process entails the creation of a therapeutic alliance—that is, the building of a collaborative relationship with the objective of obtaining pertinent and accurate data to ascertain diagnoses and define treatment options. Engagement relates to the active efforts by the examiner to bring the patient and family within the expert influence of the examiner, surmounting apprehensions and concerns, with the goal of promoting a cooperative and effective diagnostic and therapeutic relationship.
The quality of the relationship between the examiner and the patient and family has an important bearing on the accuracy of the diagnosis and on the patient’s compliance with treatment recommendations. A good interview achieves its objectives when the examiner promotes optimal participation from the patient and family in providing accurate and thorough information; this is achieved when wariness, defensiveness, and self-consciousness are stimulated to a minimum.

The interview process, by its very nature, is a stressful event for all involved, including the examiner. The art of interviewing rests on the examiner’s ability to minimize discomfort and to foster a natural and easy interaction. When the interview is done in a tactful and sensitive way, the patient’s and family’s apprehension of being “in the hot seat” is diminished.

Truthfulness relates to the veracity with which the family and child inform the examiner about the main issues, or the facts, related to the patient’s dysfunction at home, at school, or in other milieus. Truthfulness also relates to the quality of disclosure—that is, the reporting of the extent or degree of the dysfunctions and their impact in adaptation and development. In the process of obtaining diagnostic data, the examiner receives partial truths, distorted facts, and sometimes outright lies from both the patient and the family, who also selectively omit information. The examiner will always be looking for coherence of the data, for the transparency of the information provided, and for causal chains in the construction of a factual diagnosis.

Pertinence and relevance relate to what is important to the family and the patient. What the family or the patient considers important is not necessarily in accord with what the examiner believes to be the major issues in a particular case. However, parents’ perceptions and their priority of needs are very important when implementing treatment recommendations.

I believe that failures in the process of engagement are at the root of misdiagnoses in medicine in general, and in psychiatry in particular. This view is in agreement with Groopman (2007), who asserted, “While modern medicine is aided by a dazzling array of technologies, like high-resolution MRI [magnetic resonance imaging] scans and pinpoint DNA analysis, language is still the bedrock of clinical practice” (p. 8).

I also believe that failures of engagement are related to limited compliance in medicine. The progress that has been made in medicine and psychiatry and the effectiveness of the contemporary technologies and treatments offered to
patients are unimportant if treatment recommendations are not followed through. Quite often, physicians fail to engage patients in the process of cure. Modern technical medicine has neglected the importance and power of the process of treatment engagement.

Rapport has been referred to as the emotional climate between the child and the examiner that evolves throughout the interview. Engagement relates to the quality of relatedness and the technical measures used by the examiner to facilitate the child’s participation during the interview. In other words, engagement relates to the means by which the examiner increases rapport. When a positive emotional bond is created between the examiner and the child and family, engagement is achieved.

*Rapport* has been defined as “a conscious feeling of accord, sympathy, trust, and mutual responsiveness between one person and another; to be differentiated from *transference*, an unconscious process” (Campbell 1989, p. 613). This definition implies an interaction, like the one between the psychiatrist and the patient, as well as some mutual participation in the process. Ayd (2000) put the onus on the patient when he defined *poor rapport* as a: “lack of interpersonal empathy, openness in conversation, and sense of closeness, interests, or involvement with another. It is evident by interpersonal distancing and reduced verbal and nonverbal communication. In its extreme form, the patient appears to be completely indifferent and consistently avoids verbal and nonverbal interactions during the interview” (p. 828).

I, in contrast, put the onus on the psychiatrist, considering him or her responsible for creating the diagnostic and treatment ambiance, more in line with the expression “creating rapport” that was in vogue some years back. With this interpretation, one can easily understand that rapport could be created in dealing with a depressed, hostile, or psychotic child, or with an aggravated or irrational family. Due to the ambiguous meanings that the concept of rapport has evolved, I prefer the concept of engagement because it has a connotation of deliverance of the process of winning over the child and the family.

Engagement entails warmth, acceptance, playfulness, humor, compassion, helpfulness, and empathic attunement on the part of the examiner. Furthermore, the examiner must have an accepting and tolerant attitude toward human vicissitudes and must be sensitive to and aware of the child’s developmental, cognitive, and emotional levels. (Table 1–1 lists the ingredients of engagement.) Engagement is achieved when the examiner conveys to the child and family that
he or she understands their circumstances and when the examiner expresses compassion related to the child’s and family’s problematic situation.

To build rapport with children and adolescents, the examiner should be flexible and patient, should possess an in-depth understanding of child and adolescent development, and should be conversant with topics and areas that children and adolescents find familiar and of interest (Schulenberg et al. 2008). What are the consequences of not building rapport? “Absence of rapport [engagement] can negatively influence the evaluation to the extent that the results are invalid; it is necessary to prepare [interest] individuals and encourage [stimulate] them to do their best on measures of ability [disclosure] and to respond frankly [openly] in personality instruments [probing examination]” (pp. 522–523). These ideas are certainly a corollary to ideas presented in this chapter.

Diagnostic and treatment engagement is not only a caring, deliberate intervention but also a subtle and sophisticated clinical skill. For factors that facilitate engagement of the child, see Table 1–2. Table 1–3 lists techniques that are not helpful in the engagement process.

The engagement of the child is facilitated when the examiner involves the patient in the diagnostic assessment and in the development of the treatment plan. Therefore, the psychiatric evaluations should be initiated with the child or adolescent and family together. In some cases, the examination needs to be conducted with separate child and family evaluations (see Benny’s case example later in this chapter). The need for separate evaluations is rare, even in the most severe psychiatric conditions. Occasionally, an angry and alienated ado-
lescent demands a separate assessment, or a parent or set of parents requests a meeting without the child. The exceptions typically represent situations in which the child feels very alienated from the family or in which the parents feel powerless in the face of the child’s aggression or defiant behaviors. A number of parents want to meet with the examiner separately to prime the doctor regarding issues about which they do not feel comfortable confronting the adolescent (e.g., drugs, sex, conduct problems, aggressive and intimidating behaviors). My position about the importance of the conjoint evaluation is in accord with Pruett’s (2007) philosophical stance: “It also struck me as extremely shortsighted to dissect out the child—even intellectually—from the family for diagnostic studies, economies of time, convenience of intervention, or cost containment. Such a myopia was like a celestial navigator trying to identify a constellation by fixating on but one star with his sextant; then and now, a really good way to get good and lost” (p. 2).

**Table 1–2. Factors that facilitate engagement of the child**

<table>
<thead>
<tr>
<th>Courteous and sensitive demeanor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attention to voice tone and melody</td>
</tr>
<tr>
<td>Attention to and focus on patient’s presenting problem</td>
</tr>
<tr>
<td>Attentive listening</td>
</tr>
<tr>
<td>Use of appropriately attuned language</td>
</tr>
<tr>
<td>Parallel nonverbal behavior</td>
</tr>
<tr>
<td>Balanced focus on problems and strengths</td>
</tr>
<tr>
<td>Sensitive use of humor</td>
</tr>
<tr>
<td>Praise of prosocial and adaptive behaviors</td>
</tr>
<tr>
<td>Praise of problem-solving behaviors</td>
</tr>
</tbody>
</table>

**Table 1–3. Techniques not considered helpful for engagement**

<table>
<thead>
<tr>
<th>Excessive writing during interview</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not listening</td>
</tr>
<tr>
<td>Lack of warmth</td>
</tr>
<tr>
<td>Lack of empathy for patient’s symptoms or circumstances</td>
</tr>
<tr>
<td>Excessive reliance on surveys or questionnaires</td>
</tr>
<tr>
<td>Patronizing</td>
</tr>
<tr>
<td>Criticizing</td>
</tr>
</tbody>
</table>
In the conjoint meeting, the examiner starts by asking the child’s name and for help with the appropriate spelling, questions the child about the day of the week and the date, and then asks the child to explain his or her understanding about why they are meeting. Depending on the child’s openness, defensiveness, or guardedness, the examiner proceeds to gather information from the child or calls on a parent to assist with the provision of the data.

In my experience, even the most personal issues can be explored and discussed in conjoined meetings. Details and particulars about acting-out behaviors (drug use, sexual activity, delinquent behavior, etc.) may be deferred for further elaboration in follow-up individual interviews. In this regard, any specific denial (about drugs, sex, etc.) during the conjoint interview ought to be corroborated in the individual interviews with either the child or the family. The same is true regarding probing on some family practices or discipline styles, marriage life, marital conflicts, and other family matters.

At the beginning of the first psychiatric examination of the child, the examiner should start with a warm greeting and a mutual introduction. The examiner may start by asking simple questions such as these: What is your name? How old are you? Where do you go to school? The examiner may ask if the child knows where they are, what kind of doctor the examiner is, why the child is at the doctor’s office now, and/or why the child needs to see a psychiatrist. After these preliminary questions, the specific interviewing process begins.

Engagement is fostered when the examiner promotes a positive bond with the child and family; this is boosted when the examiner expresses empathy for the child’s or family’s circumstances and when the examiner identifies with the child’s or family’s perspectives. Engagement is facilitated when the examiner gives the child positive feedback for behaving adaptively or in a developmentally appropriate manner or when the examiner praises the parent for opportune and sensitive redirection during the interview. For example, when evaluating a 5-year-old boy who has a prolonged history of hyperactivity and destructiveness, the examiner could praise the child for responding to structuring, not going into certain areas of the office, not playing with the telephone or the computer, and so forth, or praise the parents when they demonstrate attunement with the child’s needs. The child may be praised for displaying behavioral organization (see Chapter 7, “Documenting the Examination Using the AMSIT”), responding to the limits established, respecting
the examiner’s structure, or putting away toys at the end of the session on hearing that the interview is about to end. Engagement is also facilitated when the examiner supports the child’s adaptive efforts. This point is illustrated in the following case example.

Benny, a 16-year-old white boy, was brought by his paternal grandmother to a psychiatric evaluation for aggressive and oppositional behaviors at home and at school. The grandmother had had custody of Benny and his 12-year-old sister for many years because the children’s parents were drug addicts and were unable to care for them. Benny had an extensive psychiatric history, including acute psychiatric hospitalizations and residential treatment for anger dyscontrol, conduct difficulties, unstable mood, and drug abuse. Benny had spent some time at a juvenile detention center and had received drug treatment at a residential drug program. At the time of the psychiatric examination, he was on probation.

Benny’s grandmother had previously brought her granddaughter for a psychiatric evaluation secondary to aggressive and extreme oppositional behaviors. At that time, the examiner learned that both children hated their grandmother and that both were abusive to her.

From the moment the grandmother and Benny entered the examination room, an atmosphere of tension and hostility was present. Benny stated at the outset, “Either she leaves and I stay, or I go and she stays.” When the examiner attempted to elicit information regarding the grandmother’s concerns, Benny issued a new warning: “I am not going to stay in the same room with her.” When the examiner asked a general question to both of them, Benny stood up and left the room. The examiner asked the grandmother a number of questions regarding her concerns about Benny.

The grandmother was concerned about Benny’s aggressive and unruly behaviors, and suspected that he was using drugs again. After spending some time with the grandmother, the examiner escorted her out and invited Benny to rejoin him.

Benny was a robust and rough-looking adolescent. His hair was shaved close to the scalp, and he had several scars on his face. He was dressed seasonally in a short-sleeve shirt. An inch-round cigarette burn was conspicuous on his left forearm. With overt hostility, Benny repeated defiantly that he didn’t need to be examined and that he came to the interview only “to get my grandmother off my back.” Benny displayed a defensive and reserved posture and conveyed through nonverbal behavior that he wanted the evaluation to be over as soon as possible.

When the examiner asked Benny about school, he said, “My grades are getting better this semester.” He said that he liked school and that he had not
been skipping school during the current semester. The examiner praised him for that. When the examiner asked Benny about his drug use, Benny proudly responded, “I haven’t touched the stuff for 50 days; today is the fiftieth day I’ve been without drugs. I’ve been going to PDAP [a juvenile drug abuse outpatient program] regularly.” Upon hearing this, the examiner stood up, walked over to Benny, and shook his hand, congratulating him. The examiner praised Benny for his effort to stay away from drugs and said that he hoped Benny would remain abstinent.

Benny smiled with appreciation, and his demeanor toward the examiner changed demonstrably. He apologized for his previous rude behavior, saying, “I’m tired of psychiatrists and of taking medicines. They don’t help.”

Because Benny seemed open to further exploration, the examiner proceeded to inquire about Benny’s self-abusive behavior. The examiner invited Benny to discuss the cigarette burn on his arm. Benny said that he enjoyed pain and that he didn’t see it as a problem. He denied suicidal ideation. He said he was looking forward to turning 17 because he expected to leave his grandmother’s custody at that time. He said, “That would be a relief.”

The examiner asked Benny how he controlled his anger. Benny said that he tried to control it all the time. He mentioned a couple of fights at school, explaining that he had been provoked and that he would not allow “those punks to run over me.” The examiner said that Benny seemed very angry at his grandmother. Benny said, “I can’t stand her.” The examiner asked Benny if he thought about killing her. Benny reported that he thought about it all the time. He attempted to reassure himself by saying, “I am not stupid. I know that if I were to kill her, I’d be the first suspect. If I knew a way, I would do it.” He added, “I don’t want to have a [legal] record because I’m planning to join the Marines.” The examiner praised Benny again for thinking about his future and for avoiding things that would stand in his way of achieving his goals. Benny confessed that when his anger became too intense, he would burn himself because “it helps me to get back in control.”

Benny was able to review other difficult and sensitive topics (e.g., his relationships with his parents and sister). Benny said that he would like to have more contact with his father. He was very negative and critical of his mother. Benny was happy that his mother was in trouble and intimated that she was going to jail: “She’s responsible for what she’s doing, and she should pay for it.” He didn’t care about her at all. Benny did not seem to like his sister, either; she was in a residential placement at the time of the interview.

To close the interview, the examiner asked Benny if there was any way a psychiatrist could help him. Benny said that he didn’t need any help right now. The examiner gave Benny his business card and offered his services any time Benny felt in need of help. Benny shook the examiner’s hand warmly and appeared appreciative when he departed.
In the preceding case, the patient arrived at the evaluation with a very angry and antagonistic demeanor. He came prepared to battle with the examiner; however, a clear, if not dramatic, change in his attitude toward the interview occurred after the examiner praised him for his efforts to control himself and for staying off drugs.

Engagement is also fostered when the examiner initiates the examination by picking up on themes or preoccupations the child brings to the evaluation, as in the following case example.

Rudy, a 14-year-old white boy, was being evaluated for paranoia. He brought to the examination two large dragon drawings. The examiner demonstrated interest in the two drawings, which showed dragons puffing fire with no other figures or beings present. The examiner asked Rudy what the dragons were doing. Rudy said, “The dragons are puffing fire.” The examiner commented, “The dragons seem very lonely; there is nobody else around them.” Rudy responded, “The dragons don’t like to be around other people.” He added, “Others don’t like dragons because they are very angry.” The examiner added that the dragons puffed a lot of fire, that they were very angry. To this, Rudy said, “Although one of the dragons puffs fire, the other puffs only smoke.” The child added, “I don’t need anybody. I don’t need to be loved.” The examiner interjected, “Love is essential for life. Without it we cannot live.” Rudy said, “I am trying very hard not to need love.” After this exchange, Rudy began to talk about the problems he had with his parents, and the interview continued in a productive manner.

By supporting this conflicted adolescent’s efforts at adaptive behavior with the use of displacement (see Chapter 3, “Special Interviewing Techniques”), his guardedness decreased and rapport with the examiner increased, and the interviewee became more open and revealing.

The child may open the interview by talking about sports, a movie star, a television show, or some other issue that at first glance may seem banal or immaterial to the main concerns of the examination. By joining the child’s prevailing fantasy or immediate interest, the examiner gains a number of benefits: 1) the examiner gets access to what is uppermost in the child’s mind; 2) the examiner learns about important aspects of the child’s psychological world; and 3) by paying close attention to the content and the process of the child’s communication, the examiner gains significant insights into the child’s cognitive capacities, language functions, manner of relating, reality testing, and other psychological and adaptive functions.
The engagement phase needs to be as unstructured as possible. During this phase, the child should be allowed to speak about anything he or she wants and to discuss whatever is uppermost in his or her mind. While listening, the examiner develops a sense or understanding of the sources of the patient’s anxieties. This approach parallels an open-ended exploration. The examiner pays particular attention to the child’s emotional expression and to the manner in which the child articulates the difficulties. This allows the examiner to appreciate the child’s prevailing mood, cognitive organization, and adaptive resources.

Observations made during the engagement phase stimulate a number of clinical hunches or incipient hypotheses. These impressions may serve as bases for exploring further or for probing a number of diagnostic areas. Also, by listening attentively and by demonstrating interest and empathy, the examiner conveys to the child that the child’s concerns are considered seriously and that whatever the child has in mind is of interest to the psychiatrist. In this manner, the child perceives that the examiner is caring, attentive, and interested in what he or she has to say. This is in accord with observations that interventions on reflections and acknowledgments, affiliative and noncontrolling interventions, and interventions highlighting nonspecific client content were associated with maintaining high emotional experiencing (Russ 2008). No type of intervention was associated with a shift to a higher emotional experiencing, but lengthy interventions and moderate controlling shifted the experiencing to a lower level.

An important early goal of the examiner is to facilitate the child’s and the family’s participation in defining the problems and in finding ways to solve them. If everything proceeds well, later during the interpretive phase of the evaluation (see Chapter 5, “Providing Postevaluation Feedback to Families”), the child’s, parents’, and examiner’s views regarding what the problems are and what needs to done about them will converge.

Factors That Facilitate Engagement of Family

The examiner increases engagement of the family by demonstrating respect to each family member and by listening attentively to what each member, even the smallest, has to say. If a baby were in the session, the examiner might
raise the question, “If the baby could talk, what would the baby say about what is going on?” The examiner also gains engagement by respecting the family’s culture, customs, and traditions. For example, addressing the father first is important in Hispanic and Asian families.

The examiner should welcome all the members the family has brought in and invite all of them to the diagnostic interview; the presence of family members gives the examiner a broader view of the family’s circumstances, provides new perspectives on the nature of the presenting problems, and acquaints the examiner with untapped resources to deal with the problems. Many family members may have been on the sidelines waiting for an opportunity to assist in the ongoing family difficulties or to help in the resolution of the problems.

An unsound practice during initial evaluations is for the examiner to interject personal views or to challenge the family’s philosophy, religion, political views, lifestyle, or composition, be that recombined, interracial, gay, or otherwise. The examiner needs to avoid criticizing or patronizing the members, or entering into power struggles with the families regarding authority or discipline within the family, unless such family practices are questionable or abusive. The same should be said about the family’s theory of illness or the therapeutic interventions that the family believes are indicated.

By paying attention to the larger picture of the family, the examiner is able to observe lines of authority, family coalitions, family subsystems, generation boundaries, and so forth. Furthermore, attending to the whole family gives the examiner the opportunity to find major foci of dysfunction and to attend to forces that undermine parental authority or interfere with the resolution of the problems. On the other hand, the examiner may encounter resources or areas of strength in different family members or subsystems. These resources may be instrumental in solving major conflicts within the family or in solving problems of the family transacting with other systems (see Chapter 4, “Family Assessment”).

A priority of the examiner is to focus on establishing alliances with both parents, or at least with the parent who is the family gatekeeper. The examiner needs to make this effort even if the parent looks ostensibly unconventional or is physically or mentally impaired—that is, the examiner should keep in mind that “a parent is a parent.”
Other Factors That Facilitate Engagement With Child and Family

The examiner needs to create a sensitive and empathic environment for the child and his or her family. The interview environment needs to be inviting and to communicate genuine warmth and receptivity. The child needs to feel respected and understood at all times. Except with preschoolers, with whom there is a universal tendency to use baby talk, the examiner should use his or her natural voice and inflection. Children sense when they are being patronized or manipulated by adults or when they are addressed in an artificial manner.

To engage families, the examiner must show equanimity, compassion, and tolerance to human frailty. Broad personal experience is also necessary. The process of engaging the child and the family is facilitated by the examiner’s equidistant relationship to various family members. Traditionally, the child psychiatrist has been cast in the role of the child’s advocate. This special role should not be exercised at the expense of alienating other family members or at the risk of being unduly partial to the child.

Obstacles to Development of Engagement

During the psychiatric assessment, the mind of the examining psychiatrist is occupied and preoccupied with two professional tasks: the need to document and the need to determine a diagnosis. This attentional split interferes with listening attentively to what the child and family need to express.

Nobody would disagree that documentation is necessary and that good record keeping is a standard of solid and good medical practice; however, some patients and families get put off by the examiner’s incessant writing, lack of eye contact, or lack of attention to their verbal and nonverbal communications. Some patients and families leave the office believing that the physician has not listened to them or does not care about their problems. Physicians need to accomplish documentation without sacrificing therapeutic engagement during the interview. In other words, the physician needs to make an effort to maintain engagement at all times.

Diagnostic and therapeutic engagement relies on the patient’s and family’s feeling that they are understood. The examiner’s lack of attention to the patient’s and family’s subjectivity—that is, to what they want or need to say—
leaves them with a sense of psychological disease, and particularly with the feeling of not being understood. Building a diagnostic and therapeutic alliance is impossible under those conditions. Unfortunately, in some contemporary psychiatric circles, the notion of therapeutic alliance is a dated concept.

In efforts to achieve expediency in clinical practice, many practitioners rely a great deal on the use of symptom checklists and related symptom surveys. Although checklists have a place in clinical practice and may assist in the diagnostic process and treatment evaluations, depending on them exclusively for assessment purposes hinders opportunities to enrich the diagnostic process and to foster a treatment alliance.

Reverse Engagement

The engagement process is the responsibility of the examiner. When the child initiates the engagement or attempts to befriend the examiner, the situation is called reverse engagement. Two groups of children commonly attempt reverse engagement.

The first group, children with reactive attachment disorder (see American Psychiatric Association 2000), may try to befriend and/or ingratiate the examiner. These children initiate the engagement from the very beginning. They do not consider anyone a stranger and believe that everybody or anybody can be a friend. With these patients, the examiner needs to be attentive to setting prompt limits (see Chapter 2, “General Principles of Interviewing,” and Chapter 3, “Special Interviewing Techniques”) and should immediately respond to violations of personal boundaries.

The second group, children with conduct disorder traits, attempt to befriend the examiner with ulterior motives. The ingratiation and befriending behaviors are manipulative. Seductive behavior is common in adolescents with borderline or histrionic personality disorders. Children with a background of trauma, particularly sexual abuse, may try to reenact the traumatic experiences with the examiner. Some of these children may display overt sexualized behavior during the interview.

To reveal the primacy and importance of a child’s emotional bonding, the examiner can ask, “Tell me, who is the most important person in the whole world?” A child who is securely attached and feels loved immediately responds,
“My mom” (or other primary attachment figure). The examiner then asks, “Who is the second most important?” Commonly, the patient replies that this person is the father or equivalent. The examiner proceeds, “Who is the next one?” A grandparent or other significant person such as a sibling is often mentioned third. The answers to this line of inquiry are illuminating as to who is really important in the child’s psychological life. Many children reveal their conflictile attachments in this short list or hint at the degree of disconnection with their immediate family. For some adolescents, a girlfriend or boyfriend is high on the list. A special friend may also occupy a place of importance. Some patients feel baffled and confused by the question and strain to indicate any person to whom they feel close. The most disconnected and detached patients respond, “Me,” and depressed adolescents who feel unloved may respond, “No one.” Adolescents in active conflicts with parents commonly say, “A friend”; in these circumstances, parents are usually at the bottom of the list.

References


Recommended Readings

This page intentionally left blank
General Principles of Interviewing

Key Points

- Basic aspects of the diagnostic process
- Interviewing process and phases of the diagnostic process
- Technical aspects of the diagnostic process
- Strategies for interviewing preadolescents and adolescents

Diagnostic interviewing of a child or adolescent is a collaborative process that involves the psychiatric examiner, the identified patient, and the patient’s family, among others. Its purpose is to reach a comprehensive diagnostic formulation (see Chapter 12, “Comprehensive Psychiatric Formulation”) that will form the foundation of a comprehensive treatment plan. Conducting the family assessment is discussed in Chapter 4, “Family Assessment.” In this chapter, I focus on principles of interviewing.

Interview Setting

The diagnostic interview is usually conducted in a professional setting, ideally in an appropriately suited office space; however, a productive diagnostic interview may take place in other locations, such as a classroom, a hospital at the child’s bedside, a playground, and other settings. The setting is deter-
mined by the spirit, purpose, and objectives of the interview rather than by the nature of the space or the environment surrounding the patient and the examiner. The most important element of the interview setting is the climate of respect, receptivity, warmth, and cooperative interest that the examiner creates. No matter where the interview is carried out, the child and the child’s family need to feel welcome, respected, and understood. An attitude of hope and helpfulness should permeate all transactions with the child and the family, regardless of the clinical condition.

Safety—the child’s and the examiner’s—is a basic consideration for all evaluations. In professional settings, any objects located in the examiner’s office (e.g., decorative items) may be transformed by the child into playing objects or may become weapons in moments of dyscontrol. The examiner should keep this risk in mind when making decisions regarding the examination space and the office decor.

A child, especially a preschooler, should not be left in the reception area without adult supervision. This recommendation applies particularly to children with a history of impulsive or destructive behavior.

Preparation for the Psychiatric Examination

Ideally, children and adolescents should be prepared for the psychiatric examination ahead of time. The examiner should provide guidance to the parents regarding what to tell the child about the examination. The type of guidance depends on the nature of the problem and the relationship between the parents and the child. If open hostility exists between the two, the child may not be amenable to adequate preparation.

In general, parents need to address the distressing symptoms that disturb the child or the problematic behaviors that put the child in conflict with others. If the child feels depressed, for instance, parents could explain that the child will be taken to a child psychiatrist to find out why he or she feels that way and to get help. In some cases, parents may want to tell the child that the psychiatrist will help the child discover, for example, why he or she is getting into trouble at school or at home.

Occasionally, parents are not forthright with a child regarding the need for psychiatric evaluation. When parents feel intimidated or when they fear
the child’s response, they are likely to be less than candid with the child about the evaluation. In these circumstances, parents often cajole or deceive the child by saying that he or she will be taken to a medical doctor, a counselor, a special school, or somewhere else. In crisis or emergency situations, the preparatory aspects of the interview are usually dispensed with.

Children rarely express explicit concerns about their symptoms, but this does not mean they are happy with their problems. Children with psychiatric symptoms are unhappy to a greater or lesser extent; some prefer to save face rather than acknowledge responsibility for maladaptive behaviors. Others may be unwilling to discuss their problems and to seek change until the right person and the right circumstances present themselves. If the child is given this opportunity, the chances for involving him or her in the examination and in the treatment process may increase.

For some children, the interview may become a turning point in their lives and may have a long-lasting, positive effect. The interview, therefore, needs to be considered in a broader perspective rather than with narrow and immediate objectives. If the examiner is unsuccessful, or worse, becomes aversive or psychologically negative to the child, the end result may be detrimental for future evaluations or psychiatric interventions.

**Interview Process**

Before a face-to-face interview with the parents and the child, the examiner needs to clarify the nature of the problem(s) that prompted the evaluation. Contact with the referral agent (e.g., medical professional, school, other agency) helps the examiner sort out issues that need to be addressed during the assessment. The referral agent may be able to provide useful information or clarify the questions at hand. This preliminary review of the situation will stimulate broad hypotheses that will give initial organization to the psychiatric examination.

An important consideration is who or what has prompted the need for the assessment. Does the concern originate within the family or from an external source (e.g., school, court)? It makes a big difference if the concerns come from within the immediate family rather than from external sources. An evaluation that is initiated by someone outside the family typically is fraught with
greater difficulties and overt obstacles (in the form of open resistances) from the start (see Chapter 14, “Diagnostic Obstacles or Resistances”).

## Maintaining Dependency Ties During the Interview

Many evaluations are marred from the very beginning because the examiner inadvertently or prematurely threatens to sever strong dependency ties between the child and the parents. This risk is greater during the examination of adolescents when the examiner assumes more individuation and autonomy than the child has achieved or more independence than the parents are able to grant. The following case example illustrates this point.

Nick, a 17-year-old white male, had just been withdrawn by his mother from an acute psychiatric hospital, where he had been admitted 48 hours earlier for an acute psychotic episode. The mother alleged that the former psychiatrist “had been insensitive” and that the doctor “had rushed into judgment regarding the diagnosis” (she was told that her son had schizophrenia and that he needed acute psychiatric hospitalization). She complained that the psychiatrist had spoken to Nick “alone for only 10 minutes.” She objected to having been separated from her son and was upset that she couldn’t be around to comfort him. She said that she was going to start a national campaign “to ensure that parents of hospitalized adolescents could stay in the hospital with them.” According to the former psychiatrist, Nick arrived at the hospital in a state of incoherence and displayed florid psychosis. Nick’s mother claimed that prior to the referral to the psychiatric hospital, she had taken him to a local emergency room, where “he had an episode of respiratory arrest.”

The acute psychotic break coincided with Nick’s father’s recent departure for a consulting job in another state.

Nick, a valedictorian of his high school class, had been markedly driven to excel, had been an honor student, and was seeking entrance into an Ivy League college. He got up at 4:30 A.M. to study on a regular basis and was involved in multiple extracurricular activities. According to Nick’s mother, most of the family members, including Nick’s father, were shy. His father had a severe stuttering disorder, and Nick’s mother used to speak for him in social situations. There was a strong history of bipolar disorder in the mother’s extended family.

Nick was born a few weeks prematurely and weighed about 5 pounds. He was born with respiratory distress syndrome. His parents were told to make
funeral arrangements for him. Nick survived but required an incubator and oxygen for the first 3 months of his life. At age 3 months, he had spinal meningitis but never had seizures. His development was delayed: he first sat at age 11 months and walked at 18 months. Nick’s mother could not tell if there had been any delay in Nick’s speech production. Nick had always been of smaller stature than his peers, and this had been a source of difficulty with his classmates. His superior intelligence was recognized when he entered school.

During the diagnostic evaluation, Nick’s mother responded when the examiner asked Nick questions. She was very anxious and intrusive. She minimized the nature of the recent psychotic episode and did not lose any opportunity to extol the virtues and accomplishments of her “special child.” The examiner recognized and accepted the dependent relationship of this adolescent with his mother and made no attempt to disrupt the symbiotic bond.

Nick was guarded and suspicious and maintained limited eye contact. He was thin and small and had a frail appearance. He was mildly depressed and very constricted in the affective sphere and had problems developing rapport with the examiner. He was coherent, but his speech was moderately pressured and uninterrupted (he did not punctuate his sentences). His associations were loose and tended to be very circumstantial. Nick was overtly paranoid. A number of times he asked his mother to bring a lawyer because he feared the examiner might “tamper” with his mind. His mother appropriately reassured him at those times.

Nick denied he was experiencing auditory or visual hallucinations but acknowledged that he had experienced them recently. He denied any suicidal or homicidal ideation. He also denied there was anything wrong with him. He wanted to go back home right away, “to catch up with my studies and to continue the college search.”

Nick’s mother was told that Nick still needed intense psychiatric monitoring in an acute psychiatric hospital. She persuaded Nick to follow the examiner’s recommendation. Nick recovered promptly and completely from the psychotic episode. Shortly afterward, his mother informed the examiner that Nick had been awarded the president’s scholarship to attend a prominent university in New England.

Despite multiple risk factors, Nick demonstrated an exceptional cognitive and academic outcome. His mother’s fear for his life and Nick’s behavioral inhibition had contributed to his strong dependency needs. Nick’s long-term psychiatric outcome was uncertain.

The preceding case illustrates the importance of beginning the evaluation with a family interview and alerts the examiner to the risks of prematurely separating the child from the family for the individual interview.
Conducting the Individual Interview

Once the family assessment has been completed (see Chapter 4, “Family Assessment”), the child can be interviewed alone. An important goal for the examiner during the individual interview is to facilitate the child’s verbalization of his or her problems so that the child may put into his or her own words the nature of the difficulties or the manner in which the child perceives them. Without the child’s understanding, the quality of diagnostic data will be compromised and incomplete. The examiner’s facilitation of the child’s verbalizations also helps in building a diagnostic and therapeutic alliance.

Creating Engagement

As described in Chapter 1, “Diagnostic and Therapeutic Engagement,” one of the first goals of the examiner is to create engagement. Toward this goal, experienced clinicians display an automatic behavioral repertoire (adaptive professional demeanor) and make instantaneous adjustments when they interview children. For example, they change body posture, vocabulary, tone of voice, and even their affective display. These adjustments of verbal and non-verbal communication put the clinicians in immediate contact with the child’s developmental level. The following case example illustrates the process of engagement in an impaired and defensive early adolescent.

George, a 12-year-old Asian-American boy, was a very defensive and uncooperative child. He was clever and liked to outsmart adults and his peers. He had a history of chronic affective psychosis and had an extensive psychiatric history, including prolonged hospitalizations for suicidal and aggressive behaviors. He was intelligent but had a history of chronic school problems, including aggression toward his teachers. For many years, George had received neuroleptic medications to control the psychotic symptoms, and he had developed a severe case of tardive dyskinesia. As a result, all antipsychotic medication had been stopped.

When George was interviewed for the first time, he fidgeted a great deal in his chair; at times, he rocked and tilted the chair in such a way that the examiner feared for George’s safety. The examiner said to George, “That makes me uneasy.” George reassured the examiner that he would not get hurt and continued tilting the chair back and forth. When asked why he was brought to the hospital, George said, “Drugs.” The examiner asked, “Which ones?”
George answered, “Marijuana.” He said that he had used marijuana for a long time, adding that his parents did not know anything about his drug usage. To this the examiner said, “It takes a lot of cleverness to hide this from the family.” George responded with an enthusiastic, “Yes!” George then proceeded to talk about the buzz he got from gasoline: it made him feel like he was floating, as if he could fly. The examiner then asked George whether he had ever attempted to fly. George said that from time to time he felt like Superman and had tried to fly from the roof of his home. On one occasion, “I tried and fell on my belly and it got hurt pretty bad.” He denied he had broken any bones while trying to fly.

Later in the interview, when the examiner and George discussed his suicidal behavior and prior suicide attempts, George said he had a secret plan to kill himself and stressed that he was not going to share the plan with anybody. He stated that he frequently daydreamed about flying over a highway bridge and being killed by a car. He said he believed he would go straight to heaven, adding that he was not meant to be in this life, because “I can’t make it in life.” George then described how bad he felt about himself. For example, when he looked at himself in the mirror, he used to see a monster with horns. This monster talked to him and told him to do bad things. On one occasion, the monster told him to hurt somebody, but George shouted, “No!”

The preceding case example illustrates successful engagement of a resistant child. By joining the child’s grandiosity, the examiner facilitated the development of rapport. The child provided meaningful information after the examiner achieved an emotional connection with him.

**Basic Aspects of the Psychiatric Examination**

First and foremost, during the psychiatric examination, the clinician should use language appropriate for the child’s developmental level. Special attention is required to avoid the use of sophisticated or professional language. Furthermore, the examiner should understand that when the child or the family uses common words such as “depression,” the meaning they give to such words is not necessarily the same as that the examiner gives to them. Currently, with the heightened awareness of bipolar disorders, laypersons commonly use the expressions “chemical imbalance” and “mood swings” without a common basis for use of the terms.

The examiner must ascertain whether the child understands the initial verbal transactions; if the child does not understand, the clinician should sus-
pect an auditory sensory defect, delirium, or a receptive language disorder (see Chapter 11, “Neuropsychiatric Interview and Examination”). When working with children who have receptive language difficulties, the examiner needs to modify the communication approach. The clinician must speak slowly and in a deliberate manner to make contact with the child, striving toward attentive eye contact and face-to-face communication. The examiner could also use alternative media (e.g., play, drawing) to interact and communicate with the child. If delirium is suspected, a detailed examination of the sensorium is mandatory. If the child does not seem to respond to the examiner’s utterances, the examiner should determine whether the child’s auditory functions are intact or whether autistic features are present. If the child has a hearing impairment and the psychiatrist is not fluent in sign language, arrangements should be made in advance to procure the assistance of a qualified interpreter.

Sensitive comments to the child about signs of illness or injury (e.g., limping, a crutch, a sling, a cast) help the examiner to build rapport and increase the diagnostic alliance with the patient. For example, the examiner can convey to the child that he or she has noticed that the child is sick or may have been injured in some way.

Phases of the Psychiatric Examination

As listed in Table 2–1, the psychiatric examination has six phases. The first four are discussed in this section.

Beginning the Interview (Engagement)

The beginning or engagement phase of the psychiatric examination involves the initial contact between the examiner and the child, and possibly his or her family. Leon’s (1982) comments regarding the first meeting between the adult patient and the doctor are applicable to child psychiatry (in which case “physician” represents the child psychiatrist and “patient” refers to the child and family): “Although the physician may already have seen many patients that day, this is the first meeting of this patient and doctor. For the patient, it is important. The patient has been anticipating this meeting with a mixture of fear and hope. The patient’s fear comes from many sources. What will the doctor be like? Will the patient be judged adversely? What will be found? Will the doctor want to help? The hope is that the doctor can relieve the stress” (p. 15).
In a similar fashion, Katz’s (1990) description of the adolescent’s anxiety preceding the initial interview with a therapist could be aptly applied to the first meeting between the child and the psychiatrist: “While the first few minutes of an interview are significant with all patients, they are particularly significant with adolescents, as many of them are struggling for independence, trying to establish an identity, and choosing their place in the world. They are particularly sensitive to any signals from the therapist that their power of decision, their intelligence, and their perceptions will be ignored” (p. 70).

Depending on how the preliminary contact goes and what impressions are made, a warm-up stage or engagement phase takes precedence in the initial encounter (see Chapter 1, “Diagnostic and Therapeutic Engagement”). The goal is to help the patient and the family feel at ease and as comfortable as possible, thereby promoting cooperation and a decrease in anxiety and wariness. In general, this phase is more prolonged with preadolescents and with younger, immature, and regressed children. With adolescents, the engagement phase may not take long. The extent and duration of the engagement phase depend on the degree of psychopathology, the degree of dystonicity (discomfort) or reaction against the symptoms, and the patient’s awareness of a need to change.

The engagement phase allows the examiner to determine the patient’s and family’s openness and their likely degree of participation in the diagnostic process. It also provides an incipient sense of the patient’s and family’s relatedness (i.e., the quality of interpersonal relations within the family and with the child). These preliminary perceptions guide the examiner in judging the degree of overt psychopathology, the level of cooperation and rapport, and

---

**Table 2–1. Phases of the psychiatric examination**

| 1. | Beginning the interview (engagement) |
| 2. | Elaborating the presenting problem |
| 3. | Extending the exploration |
| 4. | Completing the mental status examination |
| 5. | Closing the interview |
| 6. | Interpreting the results |

the amount of structuring (i.e., direction) that will be necessary to ensure success in the diagnostic process.

Once the family’s concerns have been explored and the family members have been given the opportunity to express their views on the problem(s), the family may be asked to leave, and the child’s examination continues.

Elaborating the Presenting Problem

The major purpose of the elaboration phase is to explore the presenting problem as fully as possible. This phase parallels what Brown and Rutter (1966) called the systematic exploratory style of interviewing, which involves a fact-oriented style and feeling-oriented techniques. Systematic questioning and specific probing have definite advantages in eliciting factual information. This approach seems to be successful in eliciting the “detailed, relevant data needed for an adequate diagnostic formulation” (Cox et al. 1981a, p. 289). “The structured and systematic exploratory styles are far superior in providing evidence on the definitive absence of problems…. The implication is clear: if psychiatrists are to obtain sufficient detail about family problems and child symptoms for them to make an adequate formulation on which to base treatment plans, systematic and detailed probing and questioning must occur” (Cox et al. 1981b, pp. 31–32). The approach parallels Shea’s (1998) Chronological Assessment of Suicide Events (CASE) approach, described later in this section.

Table 2–2 lists the goals involved in this phase. The priority during this phase is to obtain a clear and detailed account of the presenting problem. The examiner asks what, how, when, and where questions to delve into the facts, events, and circumstances related to the presenting problem. Questions regarding frequency, intensity, and other factors that bring on the problem are of major relevance. After this exploration is completed, the examination of the psychological factors that may contribute to the problem—that is, the why questions—may be in order. The why questions relate to opinions, psychological explanations, rationalizations, and belief systems that are subjective by nature.

For instance, if the presenting problem is anger dyscontrol, the examiner needs to consider the following questions:
What does the patient do when he or she loses control? Does the patient become aggressive? How? Does the patient become destructive? Does the patient become self-abusive? In what ways does the patient become self-destructive? Has the patient ever tried to hurt himself or herself, or to hurt others? (Note that the examiner is conducting a mental status examination while exploring the presenting problem.)

How often does the patient lose control?

Where does the patient lose control?

How long does it take for the patient to regain control?

What factors make the patient lose control?

What happens after the patient loses control?

Has the patient ever received any treatment? Has the patient complied with therapeutic or medical recommendations?

How does the patient see his or her loss of control? Does the patient see dyscontrol as a problem?

Note that the most introspective questions come last. The same format may be followed with other symptoms (e.g., depression, suicidal behavior, drug abuse, running away).

When the issue at hand is suicidality or homicidality, standard questions are, in the case of suicidality, “How close have you been to killing yourself?”

Table 2–2. Focus of phase 2: elaborating the presenting problem

1. Clarifying major concerns regarding the evaluation or consultation
2. Attentive listening
3. Efforts at understanding the presenting problem
4. Detailing the multiple dimensions of the presenting symptom
5. Keeping focus in the presenting problem before exploring other areas
6. Connecting the presenting problem with major dimensions in the child’s life:
   a) Family
   b) School
   c) Girlfriends/boyfriends
   d) Friends
   e) Developmental concerns
   f) Issues of abuse
      i) Ongoing history of abuse
      ii) Past history of abuse

• What does the patient do when he or she loses control? Does the patient become aggressive? How? Does the patient become destructive? Does the patient become self-destructive? Has the patient ever tried to hurt himself or herself, or to hurt others? (Note that the examiner is conducting a mental status examination while exploring the presenting problem.)
• How often does the patient lose control?
• Where does the patient lose control?
• How long does it take for the patient to regain control?
• What factors make the patient lose control?
• What happens after the patient loses control?
• Has the patient ever received any treatment? Has the patient complied with therapeutic or medical recommendations?
• How does the patient see his or her loss of control? Does the patient see dyscontrol as a problem?
and “Do you have a plan to kill yourself?”; or, in the case of homicidality, “How close have you been to killing?” “Whom have you thought of killing?” and “Do you have a plan to kill that person now?” The examiner must assess the patient’s potential risk to harm others and must remember his or her duty to warn potential victims, a result of the 1976 *Tarasoff v. Regents of the University of California* decision (Nurcombe 1996).

Systematic interviewing parallels Shea’s (1998) CASE approach for the evaluation of suicidal ideation. In this approach, the examiner uses a number of questioning techniques, including 1) behavioral incidents, 2) gentle assumptions, and 3) denial of the specific. “Behavioral incidents” questions probe for specific facts, details, or trains of thought (e.g., Describe what happened. How did you try to kill yourself?). This approach is similar to asking what, how, when, and where questions. “Gentle assumptions” questions focus on areas or topics that the patient hesitates to talk about (e.g., How often do you think about suicide? How do you intend to kill yourself?). These open-ended and leading questions explore areas the patient rarely discusses spontaneously. “Denial of the specific” questions include specific probes to rule out symptoms or a variety of problems (e.g., Have you had thoughts of shooting yourself? Have you tried to hang yourself?). In the CASE approach, the examiner explores the four following chronological areas: 1) presenting ideation and suicidal behaviors, 2) recent ideation and behaviors over the last 8 weeks, 3) past suicidal ideation and behaviors, 4) immediate ideations and plans for the future. Shea warned,

Many times patients will erect a façade for the mental health professional or the primary care physician while describing the suicide event that led them to seek help. This barrier may sometimes arise out of a sense of embarrassment or perhaps because the patient is genuinely feeling a little better since sharing his or her pain at the time of the presentation. Such a reassuring interplay can lull the clinician into a false sense of security. Suicide usually requires considerable forethought and internal debate arising from many days of intense pain. The degree to which this pain has taken the patient to the edge of suicide in the recent past may serve as one of the best indicators of whether the patient will cross that line in the near future. (Shea 1998, p. 15)

In the evaluation of suicidal behavior in children and adolescents, the examiner needs to determine the factor of intentionality. The intention to commit suicide is the core from which all suicidal behavior and a great deal of
destructive behaviors originate. Simply exploring whether the patient has suicidal ideation is not enough. The examiner must explore all the possible means the patient has in mind. This point is illustrated in the following case example.

Matthew, a 6-year-old white boy, was referred by a social worker for a psychiatric evaluation because of concerns regarding the child’s depressive state and possible suicidal behavior. One year earlier, Matthew had undergone a psychiatric evaluation for aggressive behaviors at home and at school. His disturbance seemed to have started 1 year before the previous evaluation, when his father moved out and his older brother was hospitalized. Shortly afterward, Matthew began to kill small animals, to trip and hit his peers, and to hit his teenage sister. Matthew threw things around and was quite angry at his mother.

Earlier, Matthew’s preschool teacher had described him as very disruptive and withdrawn; he also was said to be careless and destructive with his schoolwork. Matthew displayed a prominent fear of fires; this had begun after a fire drill. Matthew had not been abused but witnessed his father’s abusive behavior toward his mother. Matthew’s developmental milestones and history prior to his father’s leaving home were unremarkable. Both parents had depression and anxiety, and Matthew’s older brother had been diagnosed with oppositional defiant disorder and a behavioral disturbance associated with a brain disorder, possibly secondary to marijuana exposure in utero.

At the time of the current evaluation, Matthew’s mental status examination revealed a handsome, bright, and articulate child who appeared his stated age. He looked unhappy and depressed and exhibited marked retardation in psychomotor activity. His affect was markedly constricted, and he appeared anhedonic and hopeless. When questioned about suicidal ideation, Matthew confirmed it readily. When asked how he thought he would kill himself, he said he had thought of using a knife. The examiner asked Matthew if he had considered other means of hurting himself. Matthew said that he had wanted to jump from the roof of the house. He had also thought about using a gun, lying down in the road so that he could be run over by a car, or crushing his brain somehow. He said that he had stood on his head many times, hoping to “drown” his brain with blood.

Matthew missed his father a great deal and hated living with his mother. He was very unhappy with his mother’s recent remarriage. Also, he hated school and had difficulties concentrating. No psychotic features were evident. Matthew was given the diagnosis of a major depressive episode and was placed on an antidepressant.

The preceding case example illustrates a severe affective disorder in an early latency child and also demonstrates the variety of self-destructive means a
child may devise. This case illustrates full melancholic symptomatology in early preadolescence.

Issues related to the child’s psychiatric history and ongoing treatments are also explored during the elaboration phase of the interview.

Data related to the presenting problem become the core organizer of the interview process. All data gathering will have the presenting problem as its reference point and as its integrative core.

**Extending the Exploration**

The third phase of the psychiatric examination is equivalent to the review of systems conducted when completing the history and examination in the field of physical medicine. During this phase, the examiner extends the exploration to other areas and attempts to find threads connecting to the presenting problem.

For example, the parents of a 12-year-old girl with anger dyscontrol may tell the examiner that their daughter is aggressive at home. The examiner explores other areas: Does the child also lose control at school or in the neighborhood? Has she ever had any other problems at school? If so, what kind of problems has she had? How does this child do academically? How are her peer relationships? The examiner pursues any leads pertinent to the evolving hypothesis. For example, the exploration may branch into questions related to oppositional behavior, conduct problems, gang affiliation, or drug use.

Examiners should approach sensitive areas (e.g., suicidal or homicidal behaviors, drug abuse) from many different angles. They should never be satisfied with a single denial to a question related to a sensitive issue. Sometimes, rephrasing a question or using different language brings about productive diagnostic information. Some children who have denied having suicidal thoughts respond differently when asked, “Have you had thoughts of killing yourself?” The use of vernacular language may be quite appropriate in this regard.

Sometimes, despite careful exploration, the examiner does not find corroboration for some clinical impressions (intuitions). In cases of suicidality, homicidality, psychosis, substance abuse, and other areas, the clinician must remain cautious and avoid making premature closures, because his or her clinical impressions may be correct, despite a lack of explicit clinical proof. When the examiner has an uneasy feeling about a concerning issue, despite the patient’s denials regarding suicidal or homicidal thoughts, drug abuse, or
another issue, the examiner should heed his or her clinical sense and background experience.

The examiner should attempt further clarification of the clinical incongruencies because they may indicate that the patient is withholding (voluntarily or involuntarily) relevant information or that other lines of inquiry may need to be pursued to achieve full clarity. For example, some children tenaciously withhold sensitive information. Children are adept at keeping certain secrets (e.g., suicidal intentions, homicidal plans, psychotic experiences, drug abuse, physical or sexual abuse, and sexual activity). The examiner also needs to be aware of countertransference responses, because tactful utilization of these responses may be helpful in the diagnostic process (see Chapter 15, “Countertransference”).

A number of areas need to be explored in every child or adolescent interview. These areas include the child’s relationships with family members, the kind of discipline the child receives, the child’s history of physical or sexual abuse, his or her school life (e.g., academic performance, school difficulties), and his or her friendships. The child’s drug use, conduct difficulties, and sexual behavior should also be explored.

Substance abuse must be evaluated privately, because adolescents do not want their parents to know about this aspect of their lives. The examiner should not merely ask an adolescent, “Have you used drugs?” This type of question gives the adolescent an easy way out; he or she may respond with a fast denial. Instead, the examiner needs to conduct a detailed inquiry, using gentle assumption questions, such as the following: What drugs have you tried? Do you drink wine coolers, beer, or liquor? How many times a week do you drink? How often do you get drunk? What kinds of problems have you gotten into because of alcohol? Do you drive after drinking? Have you received any citations for driving while intoxicated? What other drugs do you use when you drink? Have you been sexually involved when you’ve been drinking?

The examiner should inquire individually about the following substances of abuse: marijuana, amphetamines, cocaine, crack, LSD (lysergic acid diethylamide), sedatives (benzodiazepines and others), steroids, inhalants, and other hallucinogenic and mind-altering substances. The examiner should systematically ask the patient these questions: When did your use of [drug] start? How much do you use it, and how often do you use it? When was the last
time you used [drug]? This methodical inquiry needs to be repeated with each drug the patient admits to using (Senay 1997).

The examiner also must attempt to ascertain whether the child has ever experienced any withdrawal symptoms and whether the child has ever been delirious or psychotic under the influence of drugs. Furthermore, the examiner should explore impairment and lapses of judgment during drug use. For example, the examiner may ask questions such as these: When you use [drug], do you fight? Do you get sexually involved? The examiner must explore whether the adolescent has used intravenous drugs and whether the adolescent has been sexually involved with individuals who have HIV (human immunodeficiency virus) or hepatitis. If the examiner has not inquired about sexually transmitted diseases, this is the opportune time to approach the topic. (For more information about evaluating alcohol and substance abuse in adolescence, see Chapter 9, “Evaluation of Externalizing Symptoms.”)

The patient’s sexual behavior should be explored systematically. The examiner should not simply ask the patient, “Have you ever had sex?” It is better to assume that adolescents are sexually active. The patient needs to be asked about issues related to unprotected sex and history of pregnancy. Sexually active adolescent females must be asked, “Have you ever been pregnant?” Similarly, sexually active adolescent males should be asked, “Have you ever impregnated a girl?”

Because children tend to be protective of their caregivers, denials to direct questions such as “Have you been physically abused?” need to be considered carefully. A more tactful question could be, “When you do something wrong, how are you disciplined?” More specific questions about abuse should follow.

During the exploratory phase, the patient’s medical history is also investigated. A history of head trauma, seizures, congenital problems, cardiovascular issues, or neurological problems may be relevant in the diagnostic process. A selected family and developmental history also may be illuminating (see Chapter 4, “Family Assessment”).

**Completing the Mental Status Examination**

During the fourth phase of the psychiatric examination, completing the mental status examination, the examiner finishes exploring areas of the patient’s mental status that were not covered earlier. In the process of exploring the presenting problem, the examiner has the opportunity to assess a number of areas
typically covered on a mental status examination. These findings may not need to be formally explored again if the examiner has a solid understanding about areas already covered. For example, if during the interview, the examiner has noticed that the child or adolescent gives accurate details about his or her own history, including dates and precise locations, the examiner can safely assume that the patient’s recent memory is probably intact. If the child is in advanced math classes (e.g., calculus) at school, the child’s calculation ability may not need to be tested, unless there are good reasons for doing so. In the same vein, if the examiner previously determined that the child had hallucinatory experiences and the examiner ascertained the nature of those perceptions, he or she may not need to inquire about them again.

When beginning to explore the patient’s sensorium and intellectual capacities, the examiner should mark the transition to a different kind of questioning by telling the patient that the next series of questions will test his or her memory, orientation, and so on. The examiner might say, for instance, “These are questions that are asked of all children.” Children who have neuropsychological deficits may be sensitive to this examination. If, despite reassurances, the patient remains apprehensive or exhibits narcissistic mortification, this line of exploration should be interrupted or postponed.

Once the mental status examination is complete, the examiner should ask the patient and family if there is any more important information to share. After any additional data gathering is complete, the psychiatrist will move into the interpretive phase of the interview.

Modalities of the Psychiatric Examination

The psychiatric examination is considered comprehensive when most of the possible areas of psychopathology are reviewed; it is considered focal or selective if only selected areas of the patient’s psychopathology or of the mental status examination are explored. The interview is further classified as unstructured or structured.

Unstructured Interviews

The psychiatric interview is unstructured if the examiner does not follow a predetermined scheme to conduct the interview process. In this modality, the
examiner does not follow a prearranged path in exploring the relevant issues or completing the mental status examination. This modality gives the examiner a great deal of flexibility; he or she can adapt the examination to the relevant issues or to the most salient aspects that emerge during the examination. The examiner attempts to follow a coherent thread in the flow of emerging data and takes advantage of the patient’s emotional abreactions to understand the nature of the patient’s internal conflicts.

In unstructured interviewing, the examiner emphasizes the process and the vicissitudes of affect and attempts to help the patient to see and make connections between the content of the interview and troublesome emotional factors that the patient is experiencing. In this modality, the empathic and emotional processes are emphasized, and building rapport and establishing a solid therapeutic alliance are the examination’s major objectives. The patient’s relatedness to the examiner becomes more important than the data and the thoroughness of the examination. The unstructured modality does not cover all the relevant areas of a psychiatric examination in a consistent and systematic fashion and frequently leaves important areas unexplored. Furthermore, unstructured interviewing leaves significant room for subjective inferences regarding observations and diagnoses.

**Structured Interviews**

The structured interview is used when consistent and systematic data gathering and high levels of reliability are desired in the psychiatric examination and diagnostic process. In the most structured form of interview, the examiner uses a standardized set of questions. The examiner stays with the predetermined format of the examination, without deviating, until the interview is completed. Structured interviewing has a unique role in research (i.e., to ascertain change in any given diagnostic category resulting from, or secondary to, a given intervention), in epidemiological studies (i.e., to establish incidence and prevalence of psychiatric disorders), and in developmental studies (i.e., to compare contemporary examination data to baseline assessments with the purpose of ascertaining developmental change). In structured interviewing, the degree of the examiner’s inferences is decreased to a minimum. (For more information about structured and unstructured interviews, see Note 1.)

In clinical practice, behavioral rating scales, checklists, and symptom inventories are commonly used. Parents, teachers, patients themselves, clin-
Strategies for Evaluation of Preadolescents

The interviewing space needs to be inviting to children and spacious enough to allow small children to play comfortably on the floor. It should contain a medium-size table and appropriate chairs for playing and other diagnostic and therapeutic activities. For a small child or for a preadolescent, sitting at a table feels more natural than sitting in a chair, face to face with the examiner. A variety of materials and toys should be readily available to the child. Table 2–4 lists the basic toys necessary for the psychiatric assessment of preadolescents.

The examiner can foster engagement with the preadolescent by addressing the child warmly and engagingly and making the child an active participant of the diagnostic process from the very beginning. A common strategy is for the examiner to begin by asking simple questions to the preadolescent during the family meeting. For example, while taking notes, the examiner could ask the preadolescent how his or her name is spelled, what the current day or date is, and so on. The child’s demeanor and responses provide important information about the child’s alertness and intelligence.

The examiner may also reach an agreement with the child regarding the family member to whom questions should be addressed. The patient may be told that he or she is going to be asked the questions and that if a question becomes too difficult to answer or if the patient does not want to answer the question, the parents will be asked for an answer. This strategy gives the child a prominent role in the interview and helps to create a positive working and diagnostic alliance; usually, the family agrees with this arrangement. This approach gives centrality to the child’s problems and concerns. When a mental status examination outline exists, the child may be “invited” to help the clinician fill in the requested information. Often, the child takes an interest in this cooperative enterprise.

A face-to-face interaction in an adultlike setting is an awkward situation for the preadolescent. The examiner should be sensitive to the patient’s anxiety about the new situation and environment. Even with the best of prepara-
The child will arrive with fears and negative expectations about the interview. A format in which the child and the examiner sit at a table gives the child a sense of comfort. The child is more likely to feel at ease if the interview is conducted in a specially furnished playroom. The younger the child, the greater the need is for nonverbal approaches such as play or the use of nonverbal media (e.g., drawing, puppetry, games; see Chapter 3, “Special Interviewing Techniques”). The nature of the media depends on the child’s developmental level, as well as the examiner’s style, preference, and technical experience.

Table 2–3. Advantages and limitations of behavioral rating scales

<table>
<thead>
<tr>
<th>Advantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. They are convenient and economical.</td>
</tr>
<tr>
<td>The basic instrument is usually printed.</td>
</tr>
<tr>
<td>Relevant observations can usually be made under a variety of conditions without rigid standardization of the observational interval, setting, or inputs to subjects and raters.</td>
</tr>
<tr>
<td>They can be completed quickly.</td>
</tr>
<tr>
<td>2. They can be completed by diverse informants without specialized training.</td>
</tr>
<tr>
<td>3. They can cover a wide range of data, from specific behaviors to inferential judgments.</td>
</tr>
<tr>
<td>4. They provide scores that are easy to analyze.</td>
</tr>
<tr>
<td>5. High test-retest and interobserver reliability are obtainable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Exclusive reliance on predetermined items may cause important characteristics to be overlooked.</td>
</tr>
<tr>
<td>2. Rating scales compare individuals in terms of item and scale scores but may not provide ideographic (individualized) descriptions of persons apart from their specific pattern of scores.</td>
</tr>
<tr>
<td>3. Rating scales are affected by the cooperation, knowledgeability, and candor of the rater, although gross distortions are clinically informative and can usually be detected by comparisons with other data.</td>
</tr>
<tr>
<td>4. Rating scales are subject to misuse by being overinterpreted or interpreted too literally in isolation from other data about the case. Ratings from different informants should therefore be compared with each other and with other types of data about the case.</td>
</tr>
</tbody>
</table>

After the child is properly situated in the office, the examiner attempts to engage the child. After some engagement is achieved, the examiner tells the child what he or she already knows about the presenting problems and then discusses with the child the known concerns. Most children start a verbal engagement when they are invited to discuss what is already known; more often than not, they express their thoughts about the problems without major difficulties. The exploration then proceeds. Instead of asking the child questions about issues the examiner already knows, the examiner should disclose to the child what has already been learned about the problem and encourage the child to present his or her point of view.

**Technical Issues of the Diagnostic Inquiry**

**Open and Leading Questioning**

Open questions give children the opportunity to express themselves and allow the examiner to observe a spontaneous flow of thought processes and the emergence of preconscious affect and of emotional conflicts. When patients elaborate on some issues, the examiner observes the nature of the thought process, the integrity of reality testing, the degree of relatedness, the status of receptive and expressive language, the quality of cognitive abilities and social and adaptive skills, and so forth. The following are examples of open ques-
Leading questions constrain the patient’s answers, often result in monosyllabic (usually yes or no) answers, and stifle the communication and engagement between the examiner and the patient and family. Worse, leading questions frequently include or suggest the answer to the question. The following examples are counterparts of the open questions: Are you feeling OK? Is your day going well today? Did you sleep well last night?

The clinician needs to develop the discipline to avoid leading questions consistently. Leading questions may be dangerously reassuring. Care must be taken not to ask leading questions when exploring sensitive areas (e.g., You didn’t want to kill yourself, did you?) or to ask questions that would result in yes or no answers (e.g., Do you sleep well every night?). Leading questions (e.g., Did you really intend to kill yourself?) are inappropriate in a couple of ways: 1) the questioner is deferring the assessment of such a serious behavior onto the patient, and 2) the question gives the patient an easy way out (by responding “no”).

The examiner, not the patient, is responsible for assessing the nature of this and related serious matters. Therefore, the examiner should ask open-ended questions (e.g., What did you intend when you overdosed? How is your sleep?) and must pay close attention to the patient’s responses, including the associations generated and the patient’s flow and change of affect. I believe that the use of leading questions is the source of many misdiagnoses and medical errors.

Some situations obligate the examiner to ask leading questions. These include instances when engaging the patient is difficult, when the patient’s verbal productivity is limited, or when the child’s comprehension capacity is poor. Even in these circumstances, leading questions should be structured in a way to offer the patient choices. For example, if the examiner were to ask the child, “How are you feeling today?” and the patient does not respond, the examiner could ask, “Are you feeling the same, worse, or better than yesterday?” Based on the response, the examiner continues attempting to clarify the nature of the answer.

In general, open-ended questions are more productive than closed ones. “Closed questions…may inhibit emotional expression not only because they suggest a very brief factual reply but also because they suggest that the examiner has already decided what is important and relevant” (Hopkinson et al. 1981, p. 413).
Interpretive and Declaratory Comments

During diagnostic inquiry, the examiner may find interpretations and declaratory comments to be productive. Interpretations and expressions of sympathy explicitly indicate the examiner’s interest and attention in the emotions, feelings, and attitudes of patients and families. Expressions of sympathy are also likely to be reinforcing because they indicate that the examiner cares. When such caring responses follow the expression of emotions or feelings, the informant is likely to be encouraged to continue showing feelings. Interpretations might draw the informant’s attention to feelings that had been below the surface (Hopkinson et al. 1981), such as when the child or the family discloses the death of a significant other, a serious illness of a family member or close friend, the departure of a dear one, and so on.

Declaratory statements often elicit more information and create less resistance than do questions, particularly if the questions explore issues the patient is not yet ready to broach. For instance, when a patient is displaying a particular emotional state, making a gentle assumption (see “Phases of the Psychiatric Examination” earlier in this chapter) such as “You look angry [or scared or nervous]” is likely to be more productive than asking, “Are you angry [or scared or nervous]?” A statement such as “I understand you have problems at home” is a far better opener than the question, “Do you have problems at home?” Asking a question like “Do you have any problems?” will certainly start the interview on the wrong foot.

If the examiner knows that the child has a particular problem, the examiner should state the problem up front, thereby presenting the issues directly and getting to the heart of the matter from the very start. For example, the examiner could start by saying, “I understand you have problems controlling yourself” or “It seems that you do not want to live anymore.”

Use of Developmentally Attuned Language With Preadolescents

In communicating with a preadolescent, the examiner needs to use vocabulary calibrated to the child’s developmental and cognitive level. Although smart and verbally advanced children may have sophisticated language skills and a rich vocabulary, this is not true of most children, even those from well-educated families. The examiner should avoid using technical jargon. For ex-
ample, simple terms such as sad and feel bad are better than depressed and guilty. In contrast, most children are familiar with the term suicide. In fact, inquiring about the meaning of this term is a smooth way to explore suicidal intentions or suicidal behavior in young children. Table 2–5 lists some terms often used in adult psychiatric evaluations and the less complex equivalents appropriate for use with preschoolers and early latency children. When examined carefully, the words upset, scary, nasty, sad, bad, and good seem to carry more affect than do their more sophisticated synonyms; the latter are most frequently used at the service of defense intellectualization or isolation of affect. The word progress is seldom understood by preadolescents; instead, they will readily understand when an examiner asks, “Do you feel any better or any worse?”

The examiner needs to pay equal attention to the use of idioms; even the most common idioms may be beyond a child’s comprehension. Preadolescents and even early adolescents tend to be concrete thinkers and often interpret idioms literally.

No subject is taboo in any diagnostic interview. Any topic can be discussed with children if appropriate language and judicious timing are used.

**Dealing With Nonverbal Behavior During Diagnostic Assessment**

During a diagnostic examination, preadolescents and early adolescents sometimes resort to responding with nonverbal behavior rather than verbal answers. For example, a preadolescent might respond to a question with a facial gesture, shrugging of the shoulders, or a penetrating stare. This covert and guarded noncommunicative language needs to be transformed into a declarative language.

When the patient responds with a stare during the diagnostic inquiry, the examiner could tell the patient, “Your eyes said a lot; now is the time for your mouth to speak, for your mouth to tell me what your eyes said.” For patients who shrug their shoulders, the examiner can approach the issue in a rather humorous manner by saying, “My ears can’t hear what your shoulders are trying to tell me.” A similar approach may be used with other nonverbal behaviors, such as bowel sounds, knuckle cracking, and changes of body position. The examiner must make a deliberate effort to translate or transform the nonver-
General Principles of Interviewing

Table 2–5. Developmentally appropriate terms for communicating with young children

<table>
<thead>
<tr>
<th>Adult jargon</th>
<th>Terms for use with children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frightened</td>
<td>Scared</td>
</tr>
<tr>
<td>Frightful</td>
<td>Scary</td>
</tr>
<tr>
<td>Cruel or malicious</td>
<td>Mean</td>
</tr>
<tr>
<td>Anxious</td>
<td>Nervous, antsy</td>
</tr>
<tr>
<td>Angry or frustrated</td>
<td>Upset, mad</td>
</tr>
<tr>
<td>Of a sexual nature</td>
<td>Nasty</td>
</tr>
<tr>
<td>Irritable</td>
<td>Grouchy or cranky</td>
</tr>
<tr>
<td>Feel guilty about…</td>
<td>Feel bad about…</td>
</tr>
<tr>
<td>Compulsive feelings or activities</td>
<td>Urges</td>
</tr>
<tr>
<td>Depressed</td>
<td>Feel down or feel sad</td>
</tr>
<tr>
<td>Self-concept</td>
<td>Feeling good or feel bad about oneself</td>
</tr>
<tr>
<td>Feel hopeless</td>
<td>Feel like not caring anymore</td>
</tr>
<tr>
<td>Improve</td>
<td>Feel better</td>
</tr>
<tr>
<td>Learning problems</td>
<td>Trouble learning or hard to learn</td>
</tr>
</tbody>
</table>


In the process interview, the examiner notices how things are said and presented. The content of a communication refers to the explicit aspects of the communication. The process refers to the implicit aspects, to the way the communication is presented. To assess the communication process, the examiner pays special attention to the way the patient communicates. The way things are conveyed may be more important than what is said. For example, the patient may be saying one thing with words and a very different thing with his or her voice or body language. The examiner should inform the patient about any discrepancy between verbal and nonverbal behaviors and make the patient aware of atypical nonverbal communications. Any incongruity between
verbal and nonverbal behaviors requires elucidation. Every time an abreaction of affect occurs, the examiner should ask the patient about the thoughts or memories that brought on those emotions. When the patient interrupts his or her own narrative or when unexpected transitions occur in the patient’s train of thought, the examiner should ask about these interruptions or transitions. It is meaningful to know whether the patient has noticed these events.

The following case example illustrates process interviewing.

Donna, a 16-year-old white girl, was evaluated for protracted depression and suicidal behavior. According to Donna, her depression went back to when she was 7 or 8 years old, and she revealed that she had felt suicidal for a long time.

Donna’s mother and maternal grandmother had received diagnoses of schizophrenia. A maternal aunt had raised Donna since early childhood. Donna had received both inpatient and prolonged outpatient treatments, with limited success.

At the time of the evaluation, Donna’s aunt was in the process of giving up custody rights to the state because she could not handle Donna and could no longer afford to pay for Donna’s psychiatric services. Donna had been involved in a lesbian relationship with a female 3 years her senior and had displayed significant behavioral problems at school and at home. Donna also had problems with substance abuse: she had abused marijuana, cocaine, LSD, and other mind-altering drugs.

Donna had been a bright and articulate child who had excelled in school. Her academic performance had suffered during the previous year. She was described as a gifted and creative adolescent.

Donna was fairly well kept and groomed, but she was a rather unattractive adolescent; she was withdrawn and maintained poor eye contact. Her psychomotor activity was low. She appeared distant and was not spontaneous; there was an air of apprehension and fear about her. Her mood was very depressed, and she exhibited marked constriction of affect, both in range and in intensity. She rarely smiled.

Donna used sophisticated language, and her responses were filled with intellectualization and isolation of affect. When the examiner asked questions, Donna took a long time to answer and noticeably hesitated while responding. When the examiner asked Donna how she felt about her aunt (whom Donna called “mother”) giving up her guardianship rights to the state, Donna gave a bland and unemotional response.

The examiner gave Donna feedback about the way she communicated and presented her thoughts. She expressed surprise and claimed that in all the time she had been in treatment, nobody had given her feedback about how she came across. She said, “My thoughts are in a different channel from other
people. I always feel empty.” When the examiner asked Donna why her thoughts were in a different channel from others, she said, “I need to build a barrier around people.” Donna was able to discuss her apprehensions and paranoid feelings and her difficulties with trusting and feeling close to people.

The content of Donna’s delusional depression is presented as a case example in Chapter 7, “Documenting the Examination Using the AMSIT.” The process interview is illustrated further in Chapter 8, “Evaluation of Internalizing Symptoms” (see Kurt’s case example).

**Technical Issues in the Evaluation of Adolescents**

The adolescent evaluation should begin with the adolescent and the family together. The benefits of such a meeting are multiple: the examiner hears the parents’ concerns directly, and the examiner has the opportunity to observe how the adolescent relates to the parents and how the parents or family members relate to one another. During the family meeting, the examiner completes most of the preliminary exploration and overall assessment of the presenting problem and the adolescent’s level of functioning. The examiner explores the adolescent’s school and family functioning; the parents’ knowledge of their child’s behaviors, such as drug use; and other serious concerns. As these issues are addressed, the examiner invites and encourages the adolescent’s participation. How the parents and adolescent handle conflicts gives the examiner a sense of the nature and intensity of the conflicts between them and of the problem-solving capacities within the adolescent and within the family.

After the parents express their concerns, the examiner asks them to leave. The adolescent is then given the opportunity to expand on or to present his or her side regarding the parents’ concerns. The adolescent is asked to talk about issues the parents may not have any knowledge about, such as suicidal thoughts, school truancy, alcohol or drug use, illicit activities, sexual life, gang participation, cults, or other issues related to the presenting problem. Even if during the conjoined interview, the adolescent made a number of denials about specific probes (suicide, homicide, etc.), those denials should not be taken as the definitive response. They need to be corroborated during the individual interview. Also, during the individual interview with the adolescent,
a comprehensive mental status examination is completed.

If the adolescent is not cooperative and displays hostility or resistance from the very beginning of the interview, the examiner may need to consider a different approach. Katz (1990, pp. 74–79) proposed four basic strategies to deal with an adolescent’s immediate resistances. These strategies plus two others are presented in Table 2–6, and are discussed more fully in Chapter 14, “Diagnostic Obstacles or Resistances.”

Table 2–6. Strategies used in the psychiatric examination of adolescents

1. **Clarity the examiner’s role as a stranger.** When the examiner detects an immediate distrust, he or she should respond with ready acceptance of the distrust, pointing out to the patient that the examiner is a stranger and that the patient has no reason to trust the examiner.

2. **Analyze the situation to the patient.** When the examiner finds himself or herself in trouble with a patient, the examiner should analyze the situation to the patient and enlist the patient’s assistance. Often the patient has information that can be helpful.

3. **Seek opportunities to empathize with the patient.** The examiner should demonstrate as quickly as possible his or her powers as a therapist—the power to see things from the patient’s point of view and the power to understand what is going on in the patient.

4. **Offer immediate help to the patient.** Each adolescent who comes unwillingly to the office is being faced with the evidence of his or her helplessness. The examiner offers power in the form of knowledge, and offers help, if appropriate, by intervening with the patient’s situation.

5. **Reverse roles with the patient.** The examiner asks the adolescent to take the examiner’s role, while the examiner takes the patient’s role. Acting as the adolescent, the examiner presents his or her concerns and seeks help from the adolescent (see Chapter 3, “Special Interviewing Techniques”).

6. **Support adaptive behavior.** The examiner validates, praises, and promotes psychiatrically healthy behavior.

Physical Contact

No rigid rules exist regarding physical contact with young children. Each clinical situation requires consideration of the child’s developmental level, but the clinician may wish to keep some key points in mind when making decisions regarding appropriate physical contact.

In general, the examiner should exercise restraint in initiating physical contact with a child except when the child is a toddler or a preschooler in need of guidance toward the office. Such guidance is achieved by holding the child’s hand or making ongoing contact with the child’s shoulder in a comforting and reassuring manner.

The examiner may respond to any physical contact related to social courtesies (e.g., handshaking). With older adolescents, the examiner may initiate handshaking upon greeting the patient. Younger children sometimes initiate affectionate contact and may seek comfort by bodily proximity or by holding the examiner’s hand. Children may want to show appreciation and make affectionate physical contact. If the contact is genuine and appropriate, the clinician may indicate that it is accepted and appreciated. However, the examiner should remind the child that he or she can express emotions with words and that words of appreciation are as good as hugs or other physical expressions of affection. Spontaneous embracing to express gratitude or to say good-bye is uncommon in children who are loved and well cared for. For small children in need of reassurance and support, a tap on the shoulder or a delicate tapping on the head may be sufficient. Table 2–7 lists principles of physical contact with children.

With children older than mid-latency age, the examiner should exercise clinical judgment as to when it is appropriate to receive or accept physical contact, when it should be avoided, and when limits need to be imposed. Caution should be exercised when the examiner and the patient are of the opposite sex and when allegations of sexual abuse have been made; in such a case, no matter how young the child, physical contact should be discouraged, if not avoided.

When the child is female and a male examiner detects promiscuous relating or inappropriate sexualization, he needs to exercise caution and set limits on boundary violations. The examiner should be particularly alert to any kind of physical contact with an overtly seductive female child or adolescent. The
same caution applies to situations in which the examiner is female and the patient is male. Examiners of either gender may also be the focus of homosexual behavior by children or adolescents who have been abused or by patients who are struggling with consolidation of their sexual identities.

With children who have not been sexually abused, an examiner may occasionally want to convey affirmation, approval, or reassurance by a gentle touch or when the doctor and patient converge in emotional rapport. In this case, sensitive contact could be appropriate and developmentally fitting.

Physical contact is obligatory in some situations. For example, the examiner must hold a small child who is beginning to harm himself or herself or to display aggressive behavior toward the examiner; a firm hold may be necessary in these circumstances. The examiner should emphasize that the child will not be allowed to harm himself or herself or hurt the doctor. If the patient is an adolescent who gets out of control, the examiner should warn the patient that if the aggressive or intimidating behavior persists, the evaluation will be terminated immediately. If the patient persists, the examination should end

---

**Table 2–7. Principles of physical contact**

<table>
<thead>
<tr>
<th>Principle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenderness is the legitimate foundation for contact with the child.</td>
</tr>
<tr>
<td>Be judicious when contemplating physical contact.</td>
</tr>
<tr>
<td>In general, it is better to respond to than to initiate physical contact.</td>
</tr>
<tr>
<td>Physical contact is more appropriate and fitting with preadolescents than with adolescents.</td>
</tr>
<tr>
<td>Preschoolers and early preadolescents often seek physical contact.</td>
</tr>
<tr>
<td>Physical contacts are legitimate and fitting when related to affirmation or praise for achievements or good deeds (e.g., the child passed a test, gained an award, or is celebrating a birthday).</td>
</tr>
<tr>
<td>Supportive contact is indicated when the child is emoting pain or sadness or when the child breaks down under the influence of strong emotions or traumatic memories.</td>
</tr>
<tr>
<td>Caution is needed when responding to or initiating contact with abused children.</td>
</tr>
<tr>
<td>Physically abused children rarely seek or accept physical contact.</td>
</tr>
<tr>
<td>Neglected children are promiscuous in the search for body contact. Enforce body boundaries and provide consistent limit setting.</td>
</tr>
<tr>
<td>Beware of physical contact with sexually abused children; these children are either apprehensive about retraumatization and misperceive body contact, or they attempt to recreate a sexual abuse experience.</td>
</tr>
</tbody>
</table>
at once. If the adolescent gives signs of being on the verge of losing control and asks to leave, the examiner should give this opportunity without objections by asking, “Do you need time to chill out?” or “Would you like time to get a hold of yourself?” and letting the patient leave. The examiner should inform the parents that the adolescent has left the evaluation in a state of dyscontrol. The examiner should establish procedures to follow in the event that he or she is at risk or in danger. The examiner must take precautionary actions if a patient is out of control and is at risk of self-harm or of harming others.

Physician contact with preadolescent and adolescent patients during the physical and neurological examination merits special comment. Contact is obligatory during this process. Some child and adolescent psychiatrists delegate all aspects of physical examination and medical care to pediatrician colleagues or other physicians, but multiple reasons exist for the evaluating and treating psychiatrist to conduct the physical examination.

The observations gathered during the physical and neurological examination are invaluable for achieving a comprehensive and integrative view of the patient. Findings frequently shed light on the diagnosis (e.g., evidence of a neurocutaneous disorder), aid in the examiner’s understanding of the problem’s etiology (e.g., evidence of self-inflicted injuries), or demonstrate the extent of a given identified problem (e.g., marked gynecomastia in an adolescent who has doubts about his sexual identity). In other cases, the physical examination redirects the process of assessment and treatment (e.g., when the physician observes ample evidence of physical abuse or drug addiction, even though the patient has denied such abuse or addiction throughout the interview). The examiner should explore methodically the history of every traumatic or surgical scar. These are only a few examples of the usefulness of conducting the physical examination during a comprehensive psychiatric examination. Neurological examination findings are equally valuable in patients with neuropsychiatric disorders.

The benefits of having the evaluating psychiatrist perform both the physical examination and the psychiatric examination far outweigh the risks (see Table 2–8). Some basic precautions minimize the potential negative risks. The physician should always conduct the examination in the presence of a nurse, or better yet, in the presence of one of the patient’s parents. When evaluating female adolescents, the examiner should always invite the mother to be present during the examination. The physician should always tell the pa-
tient what is about to happen during the examination (e.g., “Now I’m going to examine your ears and your eyes,” “Now I’m going to examine your belly”). The physician should remember that boys with a background of sexual abuse are as anxious about the physical examination as are girls with the same history. Some patients may object adamantly to a physical examination. Except in cases of medical emergency, a patient’s refusal should be respected, and the examination should be deferred to the child’s pediatrician or family doctor.

Special sensitivity needs to be demonstrated when examining the female thorax: that is, when listening to heart sounds and when exploring the hypogastric and inguinal areas. Pelvic examination, when indicated, should be referred to a gynecologist. If the examiner is a male and a female patient asks for a female physician to conduct the physical examination, this request must be granted.

In my thousands of physical examinations on preadolescents and adolescents, on only two occasions have patients misperceived the physical examination experience. In one case, a 12-year-old early adolescent girl with schizophrenia said, “I know you have the hots for me. I know that because of the way you touched my breasts.” Reality testing was used to address her misperceptions. In the other case, a 9-year-old overanxious girl felt very anxious during the physical examination and complained about it afterward. For most female patients and for children in general, the physical examination is an uneventful experience with no detrimental psychological consequences. These indispensable procedures pose no significant risk in the building of a therapeutic patient-doctor alliance.

**Activity, Structuring, and Support During Psychiatric Examination**

The examiner strives to create the optimal level of activity—that is, prompting and questioning—needed to elicit from the patient and the family information relevant to the diagnostic assessment. Excessive prompting tends to stifle the patient’s spontaneity and may render the interview mechanical and emotionally sterile. When the interview has been too structured, the patient or the family may leave the office feeling dissatisfied, intruded upon, or even baffled, and with the sense that they could have said more if they had been
given the opportunity. In contrast, in unstructured interviews, the data may be partial, incomplete, or irrelevant to the diagnostic goals if the patient is not given enough guidance and structure. The goal is to achieve a balance between activity and passivity (see “Modalities of the Psychiatric Examination” earlier in this chapter).

Structuring is the process by which the examiner establishes conditions, contingencies, or limits during the psychiatric examination; these measures are necessary to ensure the integrity of the interviewing process, the integrity of the interviewing environment, and the safety of the child, the family, and the examiner. Simply, the examiner sets the structure to contain the child’s or the family’s acting out.

Structuring entails the control of a number of variables during the interview. The examiner has control of factors such as the interview space (e.g., limiting the child’s actions or movements to a restricted area), the type of play and the toys used, the nature of the probing (e.g., using open-ended questioning or structured interviewing), and the degree and quality of nonverbal behavior (e.g., physical contact with the examiner). With verbal children, the examiner may direct the content and the process of the communication. Active structuring and limit setting are needed with hyperactive, impulsive, aggressive, self-abusive, seductive, or disorganized children.

The quality and degree of structure needed varies in each interview, depending on the child’s developmental level, quality and intensity of psychopathology, dystonicity of symptoms, willingness to participate in the

<table>
<thead>
<tr>
<th>Benefits</th>
<th>Risks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invaluable observations:</td>
<td>Privacy concerns</td>
</tr>
<tr>
<td>Findings shed light on diagnosis</td>
<td>Risk of sensual contact</td>
</tr>
<tr>
<td>Findings highlight magnitude of the problem</td>
<td>Concerns with therapeutic alliance</td>
</tr>
<tr>
<td>Findings reorient the focus of the examination</td>
<td>Risk of traumatization</td>
</tr>
<tr>
<td>The psychiatrist gains a gestalt of the patient’s health status</td>
<td></td>
</tr>
</tbody>
</table>

*Source.* Adapted from Cepeda 2000.
interview, and interest in working on his or her problems. Without appropriate structuring, a safe, effective, and productive interview cannot be achieved.

The examiner must convey to the child and family that the interview will be conducted in a safe atmosphere in which all verbalizations will be permitted and encouraged. Any personal or physical aggression will not be tolerated. The child needs to know that if he or she loses control, the examiner will help the child to regain it. If the child expresses aggression or self-abusive behaviors, the examiner will note the context in which these behaviors originated. The examiner’s priority is to help the child regain control and to return the interview to its exploratory mode. The examiner must actively monitor safety conditions throughout the psychiatric examination.

The child needs to be supported or confronted as needed. There is no contradiction if the examiner is supportive and empathic during some parts of the interview, yet challenging and confrontational during other parts. The examiner should demonstrate empathy toward the child’s emotional pain and circumstances but must confront the child’s maladaptive behaviors. The examiner should help the patient assert self-control when an impulsive action is about to be carried out and should appeal to the child’s adaptive functioning when the child entertains any impulsive or destructive action. Balancing empathy and confrontation is an important skill for dealing with children and adolescents. For children with certain clinical presentations (e.g., acting-out behaviors, externalizing disorders), sensitive confrontations are always required (see Chapter 3, “Special Interviewing Techniques”); in contrast, for children with internalizing disorders (e.g., anxiety, depression), empathic interventions are the most helpful and productive.

The child psychiatrist will likely be asked to evaluate potentially dangerous adolescents. In these cases, the examiner needs to be alert to identifying (and anticipating) moments of potential danger during the examination. Limit setting needs to be enforced when the patient displays inappropriate familiarity with the examiner or when the patient behaves in a physically or sexually inappropriate manner toward the examiner.

**Carrying the Psychiatric Examination**

In a psychiatric examination, the concept of carrying relates to the process of assisting a patient to enhance verbal communication and to maintain a
smooth verbalization flow throughout the interview. Carrying requires a number of therapeutic skills—including engagement, appropriate management of silences, and use of humor—and a good balance of exploratory and supportive approaches. This active assistance is of particular importance when interviewing patients who are developmentally arrested, resistant, or neuropsychologically impaired.

When the patient has cognitive or neuropsychological limitations, major challenges for the examiner include aiding the patient in the initiation of verbalization, helping the patient with a sensitive management of silences, and prompting the patient to be introspective. The more impaired a child is, the greater the need for communication assistance and the greater the examiner’s responsibility to actively assist the child via the function of carrying the interview.

In general, small children do not tolerate silence; the tension created by silence is too much for them to bear. Prolonged silence is intimidating and erodes the engagement effort because the child may interpret silence as withholding or an expression of aggression on the part of the psychiatrist. For very small children, silences should last no longer than 10 seconds; for early preadolescents, no more than 15 seconds; and for adolescents, no more than 20–25 seconds. If the patient becomes silent following a question, the examiner needs to break the silence and move onto something else.

Enactments During the Psychiatric Examination

Enactments are nonverbal dramatizations of internal emotional conflicts that may occur when the patient is either unaware of the problems or has difficulties communicating them in verbal language. Enactments represent conflictive dramatizations that need assistance for verbal representation. The examiner needs to transform nonverbal communication (e.g., gestures, actions, motor displays) into an explicitly verbalized problem. The following are some case examples.

Members of a gang had raped a 12-year-old Hispanic girl. When interviewed 2 years later, the girl was sitting by a metallic table that had multiple holes. As she discussed the rape, she stuck her fingers in and out of the holes in an obvious copulatory gesture. This adolescent felt terrible about herself and had
attempted to kill herself a number of times because she felt like “damaged goods” after the rape. The girl exhibited active symptoms of posttraumatic stress disorder. The enactment indicated how active and disorganizing the gang rape incident still was for her.

A 14-year-old white boy with a history of neuropsychological deficits, low intellectual functioning, and significant language difficulties was seen in consultation for persistent regressive behavior and enuresis. The examiner had been informed that the child seemed to enjoy urinating on himself. During the interview, the boy repeatedly twisted and compulsively tightened the edge of his shirt around his fingers. This behavior appeared to be an enactment of the child’s effort and conflict surrounding his enuresis.

A 13-year-old boy with a history of bipolar disorder was evaluated for depressive features after the manic state began to recede. When the patient was actively manic, he was busy all day long, lifting weights without feeling tired or experiencing muscle pain. He had an inordinate amount of energy. At the time of the interview, while talking about how much better he was feeling, he began to display his muscles and began contracting his biceps in both arms, touching the bulk of each bicep in a clearly exhibitionistic manner. The examiner reminded the patient about the feelings he had while in the manic state and pointed out to him that he might be missing the abundant energy he had before. This helped the patient understand some of his depressive feelings.

A 13-year-old white boy with a history of marked impulsivity and overt manic features was evaluated for issues regarding sexual identity: he had conspicuous gynecomastia and clearly effeminate traits. During the assessment, the boy placed his hands under his sweatshirt and formed with his fists two prominences on his upper chest, simulating female breasts. When the examiner asked, “What are you doing?” the boy responded, “Mountains.” The examiner understood the patient was enacting, in a seductive and histrionic fashion, his concerns about his sexual identity in general and his gynecomastia (i.e., the “mountains”) in particular.

Qualities of the Diagnostic Interview

During the diagnostic interview, the examiner’s goal is to achieve the best quality interview possible. The important qualities of the interview are described in more detail below and are summarized in Table 2–9.

Sensitivity

Sensitivity relates to the examiner’s ability to empathize with the child (and family) and to adjust his or her approach to the child’s developmental level,
to the family’s circumstances, and to the nature of the presenting problem. Sensitivity also implies that the examiner is attentive to the child’s level of anxiety and attempts to carry out the evaluation process with the least amount of stress possible. An optimal level of engagement and empathic attunement to the child’s emotions and anxiety level are good markers of sensitivity.

**Fluidity**

The examiner strives to maintain a natural and smooth flow of the child’s verbal and nonverbal communication. A sense of fluidity and cohesion is created when the examiner facilitates smooth transitions from one topic to the next and closely follows the thread of the child’s communications and emotional expressions.

**Depth**

The examiner seeks to clarify and explore the main issues at hand, including their ramifications and meanings, before moving on to other areas. He or she gives special attention to the child’s verbal and nonverbal manifestations of affect. Every time an emotional abreaction occurs, the examiner asks the child to verbalize what made him or her feel in that particular way. In the same vein, when the child narrates events that by their nature are filled with emotion and the child does not display the corresponding affect, the examiner queries the child regarding the reason for the discrepancy. In the latter case, the examiner attempts to draw out the child’s suppressed emotions and to give the child an understanding of the abreacted emotional states. The interview gains a sense of depth when the examiner connects the child’s affects with ongoing events at home or school, or with concerns regarding the child’s presenting problem.

---

**Table 2–9. Qualities of the diagnostic interview**

| Sensitivity | Comprehensiveness |
| Fluidity   | Meaningfulness    |
| Depth      | Versatility       |
| Coherence  | Efficiency        |
| Specificity|                |

---
Coherence

As the examiner strives to connect and to integrate the information gathered during the interview, he or she gives to the process a sense of connection or coherence. Inexperienced examiners often give the interview process a quality of discontinuity or fragmentation. An observer is left with the impression that the communication is unclear or disjointed, that certain areas were inadequately explored, or that certain topics were missed altogether. When coherence is not achieved, the patient feels irritated and misunderstood.

Specificity

Specificity of the psychiatric interview refers to the examiner’s understanding and identification of the presenting complaints and clarification of the context in which the symptoms appear. A complementary idea is the concept of functional assessment. Because psychopathology and problems of adaptation do not go hand in hand, the examiner needs to clarify how psychopathology interferes with the patient’s adaptive capacity.

Comprehensiveness

The examiner strives to be thorough. Comprehensiveness is achieved by exploring all the possible ramifications of a given problem in the context of the child’s developmental history and current family and school circumstances (i.e., other relevant medical or psychiatric history).

Meaningfulness

The interview should make overall integrative sense to achieve meaningfulness. By following through with a topic until full understanding is achieved, the examiner gains depth and breadth of meaning.

Versatility

Versatility relates to the examiner’s skill in meeting and engaging diverse presentations of child and family dysfunctions. The diagnostic interview needs to be tailored to each child’s and family’s needs. To build a bridge of trust and to create an atmosphere of understanding, the examiner needs to address the specific issues related to the child and family’s presenting problem. A monotonous or ritualistic survey of symptoms will not fulfill this need.
Efficiency

The examiner needs to keep up a diligent pace in the process of diagnostic data gathering. He or she must be efficient with time. To achieve efficiency, the examiner needs to have a flexible but clear plan in mind. The goals of the interview need to be pursued, even in the presence of intrinsic or extrinsic pressures. The experienced examiner knows how to differentiate the essential from the unimportant. He or she learns to obtain the fundamental data in the least possible time and to use the obstacles discovered in data gathering as vehicles to increase his or her understanding of the child and the child’s circumstances. An efficient and experienced examiner is able to complete a comprehensive assessment of a child and family in 1.5–2 hours. Although a solid diagnostic interview may be accomplished in one sitting, circumstances may dictate additional diagnostic sessions.

Validity of the Psychiatric Examination

Establishing validity of the psychiatric diagnoses based on diagnostic interviews is frequently problematic because no gold standard exists with which to compare the findings (Grills-Taquechel and Ollendick 2008). For issues related to the concept of validity, see Note 2.

Notes

1. **Unstructured interviews** give full discretion to the interviewer as to what, when, and how to ask questions, and how to record them. **Semistructured interviews** also allow leeway to the interviewer regarding the order in which questions are asked. The emphasis is on obtaining consistent and reliable information. Extensive training is required to ensure that clinical discretion is used judiciously. **Highly structured interviews** are more restrictive in the amount of freedom allotted to the interviewer, and all responses need to be recorded in a prespecified format. Clinical judgments are reduced, and no extensive training is required for their administration. Structured interviews are commonly administered by laypersons. The rigidity of these interviews renders them impersonal because the format
hinders the creation of rapport. These protocols also interfere with reliability and validity by not giving the interviewee an opportunity to report all difficulties or to explore them in depth (Grills-Taquechel and Ollendick 2008).

Examples of highly structured interviews include the Diagnostic Interview for Children and Adolescents (DICA) and the Diagnostic Interview Schedule for Children (DISC). Examples of semistructured interviews include the Schedule for Affective Disorders and Schizophrenia for School-Aged Children (K-SADS), the Child Assessment Schedule (CAS), and the Interview Schedule for Children (ISC; Costello 1996, pp. 460–463). The Anxiety Disorders Interview Schedule for Children for DSM-IV: Child and Parent Versions (ADIS-CP) have been used frequently in youth anxiety disorders research. It covers all the anxiety disorders included in DSM-IV (American Psychiatric Association 1994), as well as most of the prevalent disorders of childhood (Grills-Taquechel and Ollendick 2008, p. 465).

The comprehensive diagnostic instruments vary in the degree of training required to administer them and in their degree of reliability, sensitivity, and specificity for certain diagnoses. In clinical practice, the distinction between structured and unstructured interviews is blurred. For example, relatively inexperienced clinicians have administered semistructured instruments “in a highly structured fashion, with little variation from the suggested wording…and experienced clinicians have varied the wording of highly structured interviews without apparently changing the performance of the interview” (Costello 1996, p. 463). Lay examiners have also been able to make judgments about answers that rival the judgments made by clinicians (Costello 1996).

The K-SADS-P IV, -E, and -PL are the most comprehensive in diagnostic categories when compared with the ADIS-IV, DISC-IV, and DICA. The ranking from the most to the least comprehensive is K-SADS-P IV, -E, and -PL > DISC-IV > DICA > ADIS-IV (Grills-Taquechel and Ollendick 2008, p. 467).

On the overall importance and relevance of structured interviews, Angold (1994) commented, “Though structured interview techniques have many advantages, they will aid the clinical processes only when used skillfully and sensitively” (p. 54).
2. A number of difficulties linger around the validity and reliability of diagnostic interviews: 1) One of the most consistent difficulties involves the use of parent-child diagnostic interviews, because the findings are commonly discordant. In general, symptoms and diagnostic agreements within and across multiple informants are usually poor. 2) The sequence of disorder presentation in the interviews affects the informants’ reports. 3) The emotional state of the informants affects the quality of the responses. 4) The degree of structure affects validity and reliability. 5) The child’s cognitive capacities affect validity and reliability. Some experts propose that children should be at least age 10 years to respond to highly structured instruments such as the DISC-R. 6) Motives can affect responses. Individuals may deliberately overreport or underreport to get access to services, or children may suppress or deny problems. 7) Nature of the disorders that is being reported. 8) Parental psychopathology may affect the nature of the reporting (Grills-Taguechel and Ollendick 2008).

Validity refers to how well a test measures what it is supposed to measure. *Content validity* refers to the degree to which questions (e.g., in an interview) explore all aspects of the domain under study (e.g., a specific disorder). *Criterion-related validity* relates to the degree to which a measure predicts an outcome on another measure such as adjustment; it is considered *concurrent* when the measures are obtained at the same time and *predictive* when one measure is obtained prior to the other. *Construct validity* measures how effectively the information obtained from the interview agrees with the theoretical construct being investigated (convergent validity). Divergent validity relates to nonsignificant associations with measures determined to measure theoretically diverse constructs (Grills-Taguechel and Ollendick 2008).

References


Katz P: The first few minutes: the engagement of the difficult adolescent. Adolesc Psychiatry 17:69–81, 1990


Recommended Readings


Katz P: The first few minutes: the engagement of the difficult adolescent. Adolesc Psychiatry 17:69–81, 1990


This page intentionally left blank
Special Interviewing Techniques

Key Points

- A variety of diagnostic approaches can be used to meet circumstances in which standard approaches are ineffective.
- Effective use of a variety of nonstandard diagnostic techniques expands the examiner’s diagnostic and engagement skills.
- If standard techniques fail to achieve the goal of engagement, the examiner needs to try alternative means to reach this objective.

Some situations or circumstances during the psychiatric evaluation require special handling. In this chapter, I present techniques that are used when standard approaches are ineffective.

Gathering Collateral Information

Examiners almost always gather collateral information from a child’s significant others: parents, siblings, grandparents, or other relatives. At times, information about a child needs to be sought from teachers, school counselors, and other school liaison personal; probation officers or judicial representatives; consultant physicians, therapists, and alcohol/drug abuse counselors; and the like. A child’s friends are worth considering as sources when the presenting problem relates to suicide, homicide, or terrorist activities. Friends often know far more about what the child under examination is thinking or talking about than anybody else.
Limit Setting

Novice examiners have significant difficulty maintaining a safe and unencumbered diagnostic process. Impulsive children frequently violate space or personal boundaries. Children may become destructive or aggressive during the diagnostic examination, posing a risk to the safety of the diagnostic process. In these circumstances, the examiner needs to convey unambiguously that these behaviors must stop.

The examiner needs to convey that he or she is in charge of the examination process at all times. Inexperienced examiners fear that setting limits during the diagnostic interview will make the child less cooperative or will decrease the chances for building a diagnostic and therapeutic alliance; this is a groundless concern. Rather than decreasing trust in the examiner, appropriate and opportune limit setting gives patients a sense of security. Children and adolescents with impulse control difficulties hope to find someone who will help them to have a secure hold of themselves.

Appropriate structuring and timely limit setting are fundamental requirements in any diagnostic interview. Failure to assert limits and to delineate boundaries poses risks for the patient and the examiner and may imperil the entire diagnostic enterprise. The therapeutic alliance may be jeopardized if the patient perceives the examiner as not capable of establishing or maintaining a sense of safety during the examination. The following example illustrates inadequate management of risk and boundary problems during a diagnostic interview.

During the live patient interview portion of a mock oral board examination, a first-year fellow in child and adolescent psychiatry encountered a 13-year-old white girl who displayed marked hyperactivity, impulsivity, and immaturity from the beginning of the interview. The adolescent started off by making fun of the fellow's name. She also began to smile inappropriately, fidgeted a great deal, and stared at one of the ceiling corners. The fellow kept busy writing down the child's answers to his questions, while missing important nonverbal behaviors.

The child kept squirming and tilting her chair backward. At one point, she got up, picked up a long stick that was leaning against the wall in a corner of the room, and began to swing it from side to side. The stick made contact progressively with a piece of furniture, the child's chin, and the fellow's boots, legs, and knees. Finally, the child pointed the stick at the fellow's tie, directly
at his neck, in a teasing, provocative, and dangerous manner. In a bland and unconvincing fashion, the fellow said to the child that what she was doing was dangerous; however, he hesitated in asking her to put down the stick.

In this example, the hazardous development was predictable once the impulsive child picked up the stick. An experienced clinician would have anticipated the child’s impulsivity, immaturity, inappropriate social behaviors, and potential for aggressive behaviors. The most appropriate and timely intervention would have been to ask the child to put down the stick as soon as she picked it up.

Many examiners have had experiences with children who bring knives, lighters, and other potentially dangerous items to the interview. In one way or another, these children make the examiners aware of the presence of these items. These children may have displayed and used these implements in a clearly provocative and dangerous manner.

Physical Holding

When assessing a preschool child, the examiner needs to focus on different areas of family and parental functioning, as well as the child’s developmental acquisitions. The examiner should attempt to determine both the quality of the child’s attachment to the parental figure and the degree of the parent’s emotional investment in the child. Does the child demonstrate exploratory behavior in the unfamiliar environment? Does the child show evidence of separation anxiety? Does the child show behavioral organization (see Chapter 7, “Documenting the Examination Using the AMSIT”)? Does the examiner observe the parent demonstrating a positive regard toward the child? Is the parent attuned to the child’s biological, emotional, and security needs? Does the parent attend to the child’s safety and impulsivity? Does the parent display a capacity for sensitive and effective limit setting? Does the parent allow the child to do whatever the child wants? Does the parental figure support the child’s efforts at self-soothing, behavioral organization, or self-regulation?

The examiner needs to explore issues regarding continuity of the child’s upbringing by asking the parent questions such as the following: Have you taken care of your child all the time? Who else has been involved in the rearing of your child? Have you ever been separated from your child? What were the circumstances? Who took care of the child while you were away? Has the
child ever been placed outside of the family? The examiner needs to inquire whether a child protective services agency has ever been involved with the family and, if so, explore the reason.

The following case exemplifies the effectiveness of physical holding during an evaluation of a child.

Rudd, a 4-year-old white male, was referred for severe hyperactivity and impulsivity, low frustration tolerance, and aggressive outbursts. When he became angry, he reportedly threw things and toys, overturned chairs, and so on. He had a history of significant developmental speech defects but had not been receiving speech therapy. Rudd would not listen to his mother and frequently became aggressive to both his mother and his 7-year-old sister; he did not seem to respond to time-outs, either. Rudd had no prior psychiatric treatments but had a history of developmental delays, asthma, and a right polycystic kidney. His biological mother was a 25-year-old single parent who had four children, each from a different father. Her first child had died at age 3 months, and the third child had been given away for adoption at birth. Rudd’s mother was totally on her own. She had no extended family support (she received absolutely no support from her own mother) and had no friends; she was not receiving child support payments, but her two children were receiving Supplemental Security Income. Rudd’s biological father was not involved in his son’s life.

When the examiner arrived at the waiting area to greet Rudd, his mother, and his older sister, Rudd was throwing a tantrum. Although his mother was asking him to get up, he did not obey and persisted in his outburst. The examiner asked the mother to proceed with him to the office [first intervention]. When Rudd saw that his mother had gone beyond the reception area door, he readily got up and joined his mom, and his sister followed. In the office, Rudd began to fuss, and because he had no expressive functional speech, he started demanding by nonverbal means that he wanted this or that. Rudd did not show behavioral organization and lacked capacities for self-soothing and self-regulation; he also appeared to have cognitive deficits. Rudd wanted to imitate or to do anything his sister did. For example, if his sister began to draw, he also asked for a sheet of paper and a pencil. Rudd did not utter any understandable verbalizations during the evaluation. A number of times, Rudd interfered in what his sister was doing, and when his sister appropriately asserted herself, he started to whine; when the sister did not give in, Rudd’s frustration escalated and he began to hit his sister, throw things, and start a tantrum.

Commonly, their mother would observe her children’s misbehavior but not do anything about it. When she acted, her interventions were weak and
unconvincing. Her voice was soft and carried no sense of authority, and her demeanor did not carry instrumental aggression or parental effectiveness. The examiner called attention to the fact that Rudd was bothering his sister. The mother told the examiner that telling Rudd to stop misbehaving did not work. The mother told Rudd in a very bland manner to stop bothering his sister and even told his sister to give in to Rudd’s demands.

When Rudd did not get what he wanted, first he hit his sister, and then he picked up a metallic toy car and threw it at his mother, who did not respond. When he attempted to throw a number of books that lay on the examiner’s round table, the examiner picked up Rudd firmly in his arms, lifted him over the table, and set him in a corner near the door [second intervention]. The examiner asked the mother not to make any eye contact with Rudd [third intervention]. Rudd fussed and whined for about 3 minutes and then quieted down. His mother was amazed that Rudd had calmed down. The examiner explained to the mother that she needed to convey conviction and authority every time she told him to stop. Once the child was calm, the examiner suggested that Rudd’s mother make contact with the child and even provide some comforting body contact [fourth intervention]. The child remained in good self-control for the rest of the evaluation. At the end of the interview, when the family was departing, Rudd came to the examiner and embraced him; the examiner accepted the child’s display of affection [fifth intervention].

Confrontation as an Engagement Technique

In a discussion of engagement techniques, confrontation is not the approach that first comes to mind. Using confrontation as an engagement technique appears to be either counterintuitive or, at best, paradoxical. However, when sensitively used, confrontation is a good and appropriate engaging technique, as demonstrated in the following case example.

Casper, a 16-year-old white male, was referred for an emergency psychiatric evaluation after he placed his head on a train track when he saw the train coming. He pulled himself back from the tracks shortly before the train passed, feeling a sense of shock that he had gone that far. Casper had also tried to hang himself some days prior to the track incident. During the initial assessment, the examiner learned that Casper had been feeling depressed for more than 3 years and had received no psychiatric treatment. Casper endorsed feeling anxious and liking to be alone. He reported that he had problems getting up in the mornings and that he also had difficulties
Casper stated that life was pointless, that life was a bother, and that he did not see any point in going on when things had a predictable path: “You have to get up every morning, go to school . . . .” He was not doing well at school and had heard from teachers that there was no chance he could go to college to become a psychologist (his professional ambition) with the grades he was making. Casper, a junior in high school, had participated in the gifted and talented program until ninth grade, at which time he started feeling depressed and anxious, and his grades began to slack. Casper disclosed to the examiner that he had felt hopeless for a long time and had stopped caring. He had no history of physical, emotional, or sexual abuse; no history of alcohol or drug abuse; and no difficulties with the law. Casper was very defensive during the initial interview, which was conducted in a hospital setting. He definitely looked depressed and displayed a very constricted affect.

During the second diagnostic interview, Casper said that there was no reason for him to be in the hospital, that his problems were not as serious as those of the other children in the acute care unit; he stated that he wanted to go home. The examiner told him that in his many years of practice, he had never heard of an adolescent attempting to kill himself by putting his head on the train tracks. When Casper stated that he was no longer thinking about committing suicide, the examiner reminded him that he had tried to hang himself some days before. Casper remained silent for a short while, but then he told the examiner that when he was brought to the hospital, he had been expecting to be seen by a therapist and had not thought of being put in the hospital.

Early in the morning the day after the emergency admission, Casper had already called his mother to complain about the facility and had demanded that his mother take him out. The examiner realized that significant separation anxiety was activating the patient about being away from home. When Casper told the examiner that he was going to ask his mother to come pick him up from the hospital, the examiner told Casper that he would not be released. The examiner also said that even though Casper had stopped caring for himself, the examiner still cared about him and that he had professional responsibilities regarding his care and his safety.

When the examiner asked Casper to tell him three wishes, Casper rejected the request, saying that he never wished for anything. The examiner pressed on this issue, and Casper said he wished he could wish for everything he wanted. The examiner rejected that wish and expected Casper to continue in the task of creating three wishes. After more thought, Casper said that his first wish was to go home. The examiner prompted him, “And the second?”
Casper answered, “To finish high school.” The examiner expressed pleasure with his second wish. The examiner prompted him again, “And the third?” The patient said, “To go to college.” The examiner was also supportive of this third wish. After hearing these answers, the examiner told Casper, “If I were you, I would have had the following wishes: first, I wish to feel better about myself; second, I wish to feel confident around people; and third, I wish not to feel depressed and anxious to the point that I want to kill myself.” The examiner asked Casper, “What do you think of my wishes?” The patient hesitantly conveyed to the examiner in a nonverbal behavior that he liked them. Thus, the examiner confronted Casper’s suicidal behavior denials and his sense of hopelessness. The examiner used the three wishes technique to confront the patient’s hopelessness and to engage him; he also supported the child’s adaptive and motivating wishes. Furthermore, the examiner used the three wishes technique to begin exploring areas the patient was reluctant to discuss.

The following day, Casper was a bit more open with the examiner. When the examiner asked Casper what he had been thinking, he said that he had been thinking about the examiner’s wishes from the previous day. Casper told the examiner that he was going to work on trying to feel better about himself, and he apologized for having given the examiner such a hard time the day before.

In this case, the examiner’s confrontations were successful in breaking some of the denials and in prompting Casper to be more reflective and less defensive. In spite of the therapist’s firm and confronting stance toward Casper’s dramatic suicidal behavior, hopelessness, and massive denials, the therapeutic alliance was maintained. Chapter 14, “Diagnostic Obstacles or Resistances,” contains a number of vignettes that illustrate the use of confrontation to overcome resistances during the evaluation process.

**Listing the Good and the Bad**

If a sensitive confrontation does not break down a patient’s defensiveness and denials, the examiner can try the following intervention: ask the patient to list what is good about the behavior in question (suicidal behavior, self-abusive behavior, anorexic or bulimic behavior, aggressive behavior, etc.). The examiner helps the child to seek reasons why he or she would want to perpetuate this behavior. If the patient’s issue were persistent suicidal behavior, for instance, the examiner would encourage the child to find reasons to continue
acting self-destructively (e.g., “This is my body and I can do with my body whatever I want,” “I feel better,” “I feel relief,” “I get rid of my problems,” “I stop feeling depressed,” “I get rid of my anger without hurting anyone,” “I will make my family or my girlfriend suffer”). The examiner strives to be exhaustive in this subject by repeatedly asking, “Are there any other reasons for you to want to hurt or kill yourself? Maybe you have missed some factors that are worth noting.”

Next, the examiner asks the patient to list all that is bad about his or her behavior in question, and strives again to be exhaustive in discussing the bad things that could happen as a consequence of the patient’s persistence in the maladaptive behavior: the parents and other family members will suffer as a result of the patient’s death, the patient will not be able to reach his or her goals in life, other people will feel shock and disbelief on learning of the patient’s actions, friends and relatives will miss the patient, and people will keep wondering what happened and why. The examiner may bring up pertinent issues to ponder, such as the behavior’s impact on a romantic or broken relationship and the patient’s feelings about an afterlife or God.

Contrasting ambivalent feelings about a particular behavior may open avenues to dissociative feelings or memories that may help the patient consider alternative behavior and different ways of feeling and being.

**Interviewing in Displacement**

When interviewing preschoolers and early latency children, the examiner frequently encounters difficulties in exploring issues directly. When the examiner senses that the child is too self-conscious or guarded, he or she may use the technique of interviewing in displacement by addressing a fantasy character’s issues rather than the patient’s issues. The following case illustrates this point.

Roland, a 9-year-old white male born with paralysis of the left side, was evaluated because of aggressive behavior at home and at school. He initially refused to answer any questions regarding why he had been brought for a psychiatric examination. Roland’s residual neurological sequelae were obvious: besides the paralysis, he displayed conjugated gazing to the left and nystagmus with rapid eye movements to the right. His voice was infantile and had an immature and unmelodious quality.
Roland was disgruntled and unhappy, and during the individual assessment he asked for his mother. The examiner empathized with Roland’s distress over being away from his mother. Roland refused to indicate why his mother had brought him for the evaluation, but when he announced that he wanted to talk about dinosaurs, the examiner went along with that idea.

Roland started by saying, “The baby dinosaur is angry.” The examiner replied, “The baby dinosaur is angry at his mother.” Roland agreed and continued, “The baby dinosaur is really mad and felt like hitting people.” The examiner responded, “If the baby dinosaur loses control and hits people, he is going to get in trouble.” The examiner added, “The baby dinosaur is angry, in part, because he is not with his mother,” and he asked if there were other reasons why the baby dinosaur was angry. While this conversation continued, Roland kept attempting to stretch the fingers of his paralyzed left hand with his right hand. Roland was angry as he attempted to move his limp hand. The examiner said, “It seems that the baby dinosaur is angry at his mother because he has problems with his left arm and left leg.” Roland responded, “I’m very angry at my mother.” The child then began to bite himself, saying, “It’s better to bite myself than to bite my mother.”

The examiner addressed issues of Roland’s defective self-concept and his feeling of rejection; he also suggested that Roland blamed his mother for the problems he had with his left side. Roland acknowledged that he had problems controlling his anger and that this was one of the reasons that he had been brought for the psychiatric examination.

In the preceding case example, the child was resistant to discussing the nature of his problems. Once the examiner followed the child’s lead and approached his emotional problems in an indirect manner, using the mechanism of displacement, he was able to move into a direct exploration of the patient’s painful subjective difficulties.

In the next case example, the child was very uncommunicative and resistant at first but became more open after the displacement mechanisms were respected and utilized.

Saul, a 7-year-old black male child, had been referred for psychiatric evaluation because of aggressive and unruly behaviors. The presence of psychotic behaviors was also being explored because he displayed a series of atypical behaviors at home and at school. He lived with his mother, a sister who was a couple of years his senior, and his maternal grandmother. Saul had threatened to kill his sister, mother, and grandmother with a knife. Saul’s parents had been divorced for over a year, and his father had broken off all contact with
the children. Saul and his sister missed their father a lot and were very angry that their father did not seem to care about them anymore.

Saul reported seeing his grandfather, who had died 18 months earlier. Also, the family had overheard Saul talking to himself (as though he were talking to other people) when he was alone. Apparently, he believed that people talked about him and that God was telling him to be good.

During the psychiatric examination, Saul was very unhappy. He appeared downcast and was overtly angry and defiant. He displayed poor eye contact and was uncooperative with the examiner. When the examiner asked him questions, he refused to answer them. He demonstrated unhappiness after each question, no matter how empathic the examiner tried to be. For instance, the examiner commented on how sad it must be for Saul that his father didn’t show any interest in calling him. Instead of being more forthcoming with his communications, Saul became more defensive and less verbal.

Saul brought to the second diagnostic interview his school project on caterpillars. He began to talk about his project. The examiner picked up on Saul’s lead and followed the content and process of his narrative. Saul continued discussing his project and demonstrated an interest in the caterpillar’s life. The examiner asked Saul what the caterpillar’s family life was like. Saul explained that the caterpillar lived with his mother and sister alone. The examiner asked what happened to the caterpillar’s father. Saul became sad and said that the father had gone away and had not come back. The examiner commented that the caterpillar must be very sad because it could not see its father anymore. Saul began to cry. At this point, the examiner said, “It is very hard for you not to see your father. You miss him a lot and you are very angry that you can’t see him.” This interpretation brought the child’s concerns from the displacement to the reality of his life.

In these and similar cases, the examiner’s comments and interpretations through displacement build a bridge to the child’s emotional difficulties in real life and to the feelings the child has in diverse areas of his or her life. Issues that the child has refused to acknowledge directly are accepted via the comments and interpretations made through displacement. Interviewing through displacement is developmentally appropriate for preadolescents because this mechanism is prevalent among children in this age group.

**Role Reversal**

In some situations, the examiner can reverse roles with the patient to stimulate exploration. The following case example illustrates the effectiveness of this technique.
Damian, a 16-year-old black male, was brought by his mother for a psychiatric evaluation because she felt she could no longer control him and was concerned that he was getting into progressive trouble. Damian’s parents had divorced 6 years earlier. The father kept custody of Damian and his younger brother after the divorce, but the children spent summers with the mother on a regular basis. Both parents had remarried.

Damian’s father sent him to live with his mother 4 months earlier. Damian had very serious difficulties with his father, including physical fights on four occasions. The father had called the police and placed both children in shelter homes for a couple of weeks. Damian also had difficulties at school: he was found with illegal substances on school grounds and was on probation. The father was so angry and frustrated with Damian that he didn’t want anything to do with him.

Since being with his mother, Damian had displayed problems at home and at school. He flunked the previous school year because of poor attendance and had been truant from school on a regular basis. At home, he was unruly, defiant, and confrontational, and he sought isolation. Damian left home without permission whenever he felt like doing so. He frequently sneaked out at night and had stayed out all night a number of times. His mother had found spray cans in his room and suspected that he was using other drugs. Damian adamantly denied that he was abusing illegal substances. He had obtained a very well-paid summer job, but he was fired for unexplained absences.

The mental status examination revealed a very defensive and uncooperative adolescent who looked older than his stated age. He remained distant and uninvolved for most of the examination. He said at the outset, “I am not crazy. I am not hearing voices or seeing things.” He added, “I don’t need any help. I want to go home.” He also said, “I want to go to Arizona,” where his father lived. When the examiner asked Damian how he felt when his father sent him to live with his mother, he became tearful. He said he was surprised, adding, “I couldn’t believe it.” Damian mentioned several times that he missed his friends and indicated how unhappy he was living with his mother. The examiner asked Damian about his parents’ divorce. He responded, “My life has been wrecked ever since the divorce.” He felt that he could be mean to his parents because of the pain and misery they had put him through. Damian became even more tearful as he talked about how his parents’ divorce had affected him.

When the examiner began to talk about the options for handling Damian’s problems, Damian became defensive again and asserted that he had no problems and that he wanted to go home. Because he did not seem amenable to any recommendations, the examiner opted to ask Damian for help.

The examiner asked Damian to switch chairs with the examiner. After the chairs were exchanged, the examiner said to Damian, “Now you are the
doctor. What would you do to help a child who is getting in trouble all the
time? How would you help a youngster who cannot get along with either par-
ent and flunked the previous year? How can you help a child who doesn't like
school?” Damian became reflective and then suggested that the child has to
learn to get along with his mother, has to stay at home, has to ask permission
to leave, and so on. Although Damian had been negative about receiving any
psychiatric services, he now agreed to come back for an extended evaluation.

Role Enactment

Another approach to dealing with a patient’s persistent and self-destructive
acting out requires the examiner to engage in role enactment. This technique
is exemplified in the following vignette.

Richie, a 15-year-old white male, had undergone a heart transplant 1 year
prior to the psychiatric evaluation. Richie got into a conflict with his mother
because he broke a house rule, a curfew, and he was disciplined. To retaliate,
he told his mother that he was going to stop the antirejection medications;
actually, he had already stopped taking his medications several days before the
incident. He persisted in this medication refusal no matter how much his
mother, immediate family, and extended family begged and pleaded with him
to start his medications again. When the transplant team heard of this devel-
opment, they initiated a referral for a prompt psychiatric evaluation. Sur-
geons and transplant team physicians emphasized to the evaluating
psychiatrist that if Richie did not start taking the antirejection medications
right away, he was going to die. Because the patient's life was on the line, he
was hospitalized.

The psychiatrist attempted, without success, to understand the patient’s
aggressive and self-destructive behaviors; any attempt to bring up the issue
of the medication intake gave Richie a renewed stimulus to persist in his re-
fusion. The psychiatrist opted for exploring which persons in Richie’s life he
did care about and asked him, “Who is the most important person in your life?”
Without hesitation, Richie responded, “My youngest brother!” Taking advan-
tage of that disclosure, the psychiatrist pulled a chair in front of Richie and
told him that the psychiatrist was going to play the role of his youngest
brother. The psychiatrist sat close to and in front of Richie, and in a pleading
tone asked Richie, “Brother, why do you want to kill yourself?” Richie’s re-
sponse was dramatic! He said he was going to start taking his medications
right away. He went to the nurse to request his medications, took them, and
continued taking them during the few days he remained in the hospital.
The point in this example is that the psychiatrist, respecting the patient’s autonomy and without using patronizing or power manipulations, was able to find a way to influence the patient to discontinue his lethal refusal course. The psychiatrist was able to find a meaningful point of leverage to influence the patient’s refusal by mobilizing an area of emotional investment that had a significant connection with the symptom. That the younger brother was extremely meaningful to Richie was indicated by the fact that this sibling was present in his immediate awareness but had been dissociated from his self-destructive ideation; a positive connecting bond was reestablished when the brother was re-presented to Richie’s awareness, thus breaking down the dissociation. The technique reactivated a supportive bonding (a positive introject) that had been dissociated or split off from Richie’s consciousness. To a certain extent, the technique produced a narcissistic repair.

**Double Chair Technique**

The double chair technique is useful when the patient lacks personal and interpersonal perspective. The technique forces the patient into an empathic impersonation.

Chen, a 17-year-old mixed-race Korean American male, was evaluated for suicidal ideation with a plan to shoot himself or to run his car against a wall. He had a long history of depression and had been thinking about suicide for over a year. His academic performance had deteriorated; he had become progressively irritable, aggressive, and destructive, and he had lost more than 40 pounds during the previous 6 months. He was also unable to sleep or to stay asleep. When Chen was asked what sort of things he worried about, he said that he worried about his parents’ health; his mother had a bad case of rheumatoid arthritis, and his father had undergone a liver transplant, and Chen did not know how many more years his father had to live.

The examiner was in an advanced stage of the individual interview with Chen when the parents arrived. When the parents joined the examiner and their child, the examiner addressed the father by saying, “I heard that you had a liver transplant.” The father said that he had nonalcoholic cirrhosis of the liver and that he was also diabetic. Chen’s father, a 53-year-old white ex-military member, said that the liver was doing fine; he had received the liver about 18 months before the evaluation, and he felt very well. The examiner addressed Chen’s mother, a Korean native, by saying that she had heard she
had a bad case of arthritis. The mother, who had limited English skills, was aided by her husband a great deal, both in understanding what was being communicated and in expressing herself. She spoke in broken English, saying that she had problems with her joints, as well as significant pain.

The examiner placed a chair in front of Chen and asked the father to sit there; then he asked Chen to tell his father how worried he was about his health. Chen did so. His father said that he was feeling OK and that the transplant was doing well. The father told his son not to worry. After this, the examiner asked the mother to switch chairs with the father and told Chen to tell his mother how worried he was about her health. Chen did so. When his mom was struggling to articulate in English how she was doing, the examiner overheard Chen talking in a quiet voice in what appeared to be Korean language. The examiner asked Chen if he was speaking Korean; Chen assented but clarified that he was not fluent in the language. Knowing that Chen could understand his mother, the examiner told the mother to speak to her son in Korean. She did so. While the mother was speaking in her native tongue, Chen demonstrated a great deal of deference and respectful listening. Chen and his father stated that his mother asked Chen not to worry.

The father was asked to switch chairs again and to tell Chen what things about his son worried him. The father became emotional and told Chen that he worried about his depression, his poor performance at school, and his progressive anger. Chen's mother was asked to go back to the chair and to address her worries about her son. She stated that she expected Chen to grow to be a strong man, to marry, and to have a family. Because the parents had not addressed the suicidal behavior, the examiner put the father back on the chair and asked him to tell Chen how he would feel if Chen were to kill himself. The father was overcome by emotion and asked to have the tissue box that was near the examiner. He said that if Chen were to kill himself, life would cease having any meaning for him, there would be no incentive for him to keep living, and so on. Then the examiner asked the mother to take the chair. At this point, Chen objected and said he did not want his mother to be subjected to more pain. The father told Chen to let her speak, and after she sat down, the examiner encouraged her to speak in Korean. Apparently, the mother said that if Chen were to kill himself, she would feel death inside and would go through a great deal of pain. She also hinted that she might kill herself. She was visibly moved and tearful.

After this, the examiner asked Chen to respond to his parents' worries. Chen said that he appreciated his parents' love and concerns and felt sorry that he was causing them pain. When the examiner questioned why he wanted to kill himself, he stated that he wanted to kill himself because he felt that nothing he did was right and that everything he tried turned out to be wrong. His father became supportive, telling Chen that “everybody makes mistakes and we need
to learn to overcome obstacles and to learn from our mistakes.” The examiner told the parents that it was possible that Chen had stopped sharing his worries with them because of their serious health issues. The father understood and agreed with that proposition and explained it to Chen’s mother.

The examiner then asked Chen to put his chair close to his parents. Chen chose to put his chair between his parents, and immediately the mother and son embraced for a long time, displaying affection and mutual concern. After this emotional reunion, the examiner left.

The double chair technique was successful because it reopened channels of communication between the parents and their son. Chen was able to voice his worries, and his parents expressed theirs. The examiner broke the silence regarding Chen’s suicidal behavior and allowed the mother to air her feelings in her own language (a culturally sensitive intervention); she was able to voice her anxieties and worries about her son. The technique succeeded in airing the child’s and the parents’ mutual concerns and ended in a positive, empathic, and emotional “family reunion.”

In the following family session (3 days later), when the father was asked about his view of the previous session, he said that it had been very helpful, that it put the family back together, and that there was a better understanding about what the family members were going through. The examiner perceived the mother’s difficulties in expressing herself and her probable sense of isolation and loneliness. As it turned out, she did not have any friends and had limited contacts with the local Korean community. In this second session, the examiner explored the family’s anxieties about Chen’s leaving home and going to college. The father stated that he had been telling his wife “that she is holding on Chen too tight and that it is time for her to let go.” The session further explored what the parents needed to do for Chen not to worry about them, and the things Chen needed to do to prevent his parents from worrying about him.

Another example of the double chair technique follows.

Natalie, a 16-year-old blond, blue-eyed, Mexican American female, was brought for a psychiatric evaluation for persistent suicidal behavior, self-abusive behavior, and mood instability. Natalie had no prior psychiatric history and had been in child protective services custody for 7 years; she was removed from her mother’s custody after authorities learned that her mother’s husband, the child’s stepfather, had raped Natalie. The girl had a history of promiscuity since age 12, including 6 months of prostitution, as well as an extensive history of polysubstance abuse encompassing cocaine, speed (her favorite drug), crack, acid, and others. She had refused to attend school and was academically 3 years behind. Natalie had been arrested a couple of times for drug possession and shoplifting.
Natalie was an attractive Anglo-looking adolescent who displayed conspicuous inappropriate smiling. She stated that she smiled even when cutting and hurting herself; she pretended she was happy all the time. In spite of this affective display, she declared that she was suicidal and that she was determined to kill herself. While smiling, she said that life was pointless and that she would kill herself any time and in any way she could. Natalie revealed that she had flashbacks about the rape and that she thought about the rape daily; she had recurrent dreams about the rape. She had strong homicidal ideation toward the stepfather. The examiner told Natalie that her surname did not match her white features; to this, Natalie replied that her mother was an “American blond.”

When the examiner asked for details about the rape, Natalie became silent; she said she could not say. When the examiner questioned how many times she had been raped, she revealed that the stepfather had raped her from age 5 to age 10. The examiner wondered where the mother had been during all these years. Natalie said, “She was working.” The examiner attempted to extract more information about the rape, but Natalie responded with defensiveness and silence.

The examiner attempted to explore how the mother responded to the raping; Natalie said that both her mother and her maternal grandmother accused her of lying. She added that she did not want to talk about it. When the examiner asked Natalie who was the most important person in her life, she said, “My younger sister.” The examiner proceeded, “And after your sister?” Natalie responded, “My brother.” The examiner asked once more, “After your brother?” “My mom,” she said.

Because Natalie was very ambivalent about her mother and the way she had responded to the disclosure of the ongoing rapes, the examiner used the double chair technique. In the empty chair, the examiner “placed mother” and told Natalie to tell her mother that her stepfather had raped her for many years. Then Natalie took her mother’s role and attempted to articulate her mother’s words. Without hesitation she said, “I don’t believe you.” Natalie got upset. The examiner asked her to go back to her chair and to talk back to her mother. Natalie became downcast and struggled to proceed but said she couldn’t do it. The examiner provided emotional support and said, “It must have been very hard for you to hear that neither your mom nor your grandma believed you.” Natalie was visibly sad and upset and became silent.

Because Natalie had felt unsupported by her own mother, the examiner provided support to Natalie regarding the abandonment, neglect, and rejection she experienced from her real mom. Natalie, facing the empty chair, was prompt to excuse and forgive her “mother” and indicated that she was eagerly expecting to become 18 to have the freedom to reunite with her mother. Natalie had unrealistic and idealized views of how things would be when she had
the chance to be with her mother again. The examiner systematically challenged those unrealistic fantasies.

If a patient displays difficulties enacting the double chair technique, the examiner may assist the process by playing the role of the conflictive person, thus enacting a psychodramatic role.

**Nonverbal Interviewing Techniques**

Children must be encouraged to verbalize psychological, family, and social problems in their own words. However, the examiner occasionally needs to use nonverbal techniques instead of verbal exploration to access a child’s psychological world. The value of nonverbal diagnostic techniques varies in relation to the effectiveness of each technique in drawing out relevant information from the child’s internal world. Nonverbal techniques may enhance trust and communication between the child and the examiner. The specific techniques used depend on the interviewer’s style and the child’s developmental level. For example, some interviewers prefer diagnostic activities in the microsphere (the circumscribed therapeutic playing space of the office), whereas others prefer the larger field of the macrosphere (including space outside the office, such as a playground). Some examiners select artistic media, whereas others prefer sports-oriented activities.

The best choice can be one that best stimulates a child’s skills or talents, that most appeals to the child, that is closest to the child’s favorite activities, or that is most appropriate to the child’s developmental state. A developmental fit will be the most motivating to the child.

Nonverbal techniques are productive when 1) new material is revealed, 2) the nonverbal productions complement prior verbalizations, or 3) the nonverbal productions add depth or new dimensions to the evaluation. Nonverbal techniques are particularly helpful when the child’s capacity to speak is markedly inhibited (as in elective mutism) or when the child is very anxious or very resistant to disclosing private feelings or a secret such as abuse; in these circumstances, the examiner’s pressing for verbal communication may be counterproductive.

Although verbal engagement is the most desirable technique, nonverbal engagement becomes a stepping-stone in the process of building trust to de-
Pedro, a 5-year-old Hispanic boy, was referred for a psychiatric evaluation for aggressive behavior. He was also unruly and oppositional. He had been under the care of his maternal grandmother since he was 2 years old. Pedro’s mother was conspicuously neglectful and abusive; she would leave her children unattended for prolonged periods of time. Pedro’s grandmother and other relatives would find the children unkempt, soiled, and malnourished on a regular basis. A number of times, his grandmother picked up the children from the streets, where Pedro’s mother had left them.

The examiner learned that during the first 2 years of Pedro’s life, he had endured frequent maltreatment and neglect. A 7-year-old sister had decided not to stay with the mother any longer, because “I got tired of acting like a mom.” The mother frequently put her daughter in charge of her two younger siblings. The grandmother was the legal custodian of the two older children and had also cared for the two younger ones. Although tired and emotionally exhausted, the grandmother couldn’t bear the thought of leaving the younger ones in the care of Pedro’s mother.

Pedro was small for his age. He looked a bit scraggly and was very inhibited and submissive. During the individual interview, he was completely silent and remained distant, apprehensive, and reserved. Because Pedro did not respond to simple questions such as “What is your name?” and “How old are you?” the examiner made an effort to engage him in play. Pedro was offered a set of animals, a group of dinosaurs, and a number of dolls. He showed no interest in the toys. The examiner began to place the animals in a circle, hoping Pedro would join him in the play; that did not happen. After a while, the examiner left the animals alone and began to play with the dolls; Pedro did not join in this play either. The examiner then attempted to engage Pedro in the squiggle technique: he picked up a sheet of paper; put a pencil on the table, closer to Pedro; and invited Pedro to draw something with him. After Pedro refused a number of invitations to engage in an interactive nonverbal communication, the examiner collected all the items from the table.

The examiner had a tennis ball on top of the desk. He picked it up and rolled it to Pedro. Pedro picked up the ball and rolled it back to the examiner. The examiner rolled the ball again, and Pedro rolled it back in return. The ball was rolled back and forth many times. At one point, the distant, unanimated child began to smile. Shortly thereafter, he began to throw the ball progressively more forcefully and somewhat aggressively: on two occasions, he hit the examiner in the chest. Pedro began to get more emotionally involved, if not excited, in the rolling and catching ball game. After throwing the ball...
back and forth a number of times, the interview was concluded. The examiner told Pedro, “Next time we will play some more.”

The nonverbal engagement attempt consumed the first meeting; at no point during the interview did Pedro utter a word. Significant anxiety, language disorders, and cognitive limitations may have contributed to the child’s elective mutism. In this meeting, the examiner persisted in his duty to engage the child and tried a number of unsuccessful techniques until he found one that worked.

The novelty and intimacy of the office and the private nature of the examination (i.e., having to stay alone with the examiner behind closed doors) may have been too threatening for the child. Recognizing the child’s mistrust, the examiner made plans to take the child to the courtyard for the next diagnostic appointment—“to play at the playground,” he told Pedro.

A history of anxiety disorders, abuse, developmental language disorders, and/or cognitive limitations is common in children such as Pedro and may contribute to their difficulty responding verbally in an interview.

**Drawing Techniques**

If verbalization is gold, drawings are silver. Drawings, complemented with a sensitive exploration of their content, can illuminate the child’s major issues or concerns. Drawings also give a good indication of the child’s level of intelligence, as well as creative and artistic talents, and may indicate whether neuropsychological deficits may be present. Drawings also aid in identifying body image difficulties and a variety of psychological conflicts or psychosocial stressors.

An added advantage of drawings is that they may serve as visible and concrete evidence that may be presented to parents who do not want to believe that anything is wrong with their child. A drawing may be used as a springboard for a discussion about sexual abuse or violence within the family when the drawing clearly represents or suggests these themes. When the examiner analyzes drawings, he or she needs to keep in mind that “drawings by young children are representations and not reproductions, that they express an inner and not a visual realism. The drawings make a statement about the child himself and less about the object drawn. The image is imbued with affective as well as cognitive elements” (Di Leo 1973, p. 9). Table 3–1 lists the types of drawings used in a diagnostic interview, in the order in which they are solicited.
Male children regularly draw male figures when they are asked to draw a person; if a boy draws a female figure, sexual identity conflicts may be considered. This is not the case for girls. The family drawing, called the kinetic family drawing, offers the examiner insight into family dynamics and particularly into the child’s perceived role within the family. Whereas the person drawings may indicate the child’s cognitive development, the family drawing elicits “mobilization of feelings that, while rendering the family drawing less valuable as an indicator of intelligence, confers upon it significance as an expression of the child’s emotional life. The family drawing, then, can be viewed as an unstructured projective technique that may reveal the child’s feelings in relation to those whom he regards as most important and whose formative influence is most powerful” (Di Leo 1973, p. 100).

In the following case example, the use of drawing was instrumental in breaking through a mother’s denial about her child’s problems.

Tom, a 9-year-old black male child, was referred for evaluation because he was becoming progressively aggressive toward teachers and peers at school. Tom had been suspended many times because of this behavior and was sent home frequently, creating significant disruption for his mother, who was an active duty member of the military. Tom’s mother could not understand the school’s concerns; she declared categorically that her son did not have any problems at home. Tom had previously been given the diagnosis of attention-deficit/hyperactivity disorder and had been on medication for a short time without any benefit.

Tom’s parents had divorced 1 year before the evaluation, and Tom missed his father a great deal. Tom’s mother described the child’s father as very dependent and unreliable.

During the family interview, many aspects of the child’s overall functioning were explored systematically. When asked how Tom was doing at home, his mother responded in a protective and defensive manner. To his mother’s surprise, Tom reported, without prompting, that on one occasion he had pulled a knife on his brother when the latter found Tom attempting to harm himself with the knife. Tom added that he had thought about killing himself many times. He then revealed that he frequently abused himself by punching himself in the face or by throwing himself to the ground. This information alarmed his mother. Following these revelations, Tom remained very quiet and calm. He became affectively frozen, if not emotionally blunted. Tom did not show any evidence of hyperactivity or of overt distractibility during the examination.
When the examiner asked Tom what things he enjoyed doing, Tom said that he liked drawing a lot. The examiner pursued this interest by giving Tom some white paper sheets and pencils and asking him first to draw whatever he wanted. The child was then prompted for additional drawings.

Tom's first drawing was of a big female figure with an open mouth and pointed teeth; this figure was holding a child's head in her right hand. The female figure had beheaded the child, whose head was dripping blood. One of the child's eyes had popped out, and the female figure was eating the other eye. Tom narrated all of this morbid content without emotion.

Tom's second drawing, in response to the examiner's request to draw a person, was of a male person in profile who was using a machine gun to shoot at a smaller figure. The smaller figure appeared to be scared. The examiner asked Tom, “Why is this big guy shooting the smaller one?” Tom replied, “The small one 'crossed' the other guy.”

Tom's third drawing, in response to the examiner's request that he draw a female or a girl, was again of a big female figure, this time strangling a child. The female figure was smiling, and the child was faceless. Tom's fourth drawing, a family kinetic drawing, showed Tom's five family members, all holding weapons in both hands. Each family member was holding some kind of weapon: knives, axes, pitchforks, small saws, and big saws. The family had killed someone, whose body lay in front of the group, and was posing in front of an automatic camera that was set to take a picture of the whole scene.

Tom displayed no emotion as he explained his drawings. The morbid content and preoccupation with violence reflected in Tom's drawings were alarming. After Tom's mother saw her son's drawings, it was not difficult to persuade her that Tom was a very disturbed child. She was shocked after seeing the drawings and hearing Tom's descriptions of them. Tom's drawings broke through his mother's denial, and she became receptive to therapeutic recommendations.

The following case example demonstrates the effectiveness of using drawings to evaluate an electively mute preadolescent girl.
Tina, an 8-year-old white girl, had been referred to the examiner by a counselor from a nearby mental health center because of concerns about her regressive behavior. The counselor noted that Tina rarely, if ever, spoke. Three months before the evaluation, it was brought to Tina's mother's attention that Tina's 12-year-old sister had been sexually molested by the mother's fiancé. After this disclosure, the mother broke off her engagement. Tina's mother also learned that her former boyfriend had fondled Tina. At the time of the evaluation, charges had been filed against the former fiancé in connection with the sexual abuse he perpetrated against Tina's sister.

Since the disclosure, Tina had exhibited significant regressive behavior: she had become very clingy, shadowed her mother everywhere, and refused to sleep in her own bed. There was no evidence of other regressive behavior, such as enuresis or encopresis. At school, Tina was known as a quiet child who seldom spoke, and this had been a concern to her teachers. Tina was a very good student and had kept up her grades, even during the time of the observed regressive behaviors.

Tina's father had been physically abusive toward her mother in front of the children; he also had problems with alcohol. Although contact between Tina and her father was irregular, she seemed to enjoy his sporadic visits.

Tina was a very pretty girl with freckles and big, inquisitive eyes. Her eye contact was intermittent. She clung to her mother, clutching her mother's hands throughout the interview. The examiner attempted to engage Tina in a verbal exchange, but whenever she was addressed, she would signal her mother to answer for her. She never spoke spontaneously. Although Tina didn't respond verbally, she gestured to the examiner when she was asked a number of questions during the mental status examination. She denied that she had ever thought of suicide or that she ever had hallucinatory experiences.

Tina's mother reported that Tina also had problems talking to her counselor at the mental health center. When her mother said that Tina spent a great deal of time drawing, the examiner asked Tina if she would like to draw. She showed an immediate interest. Tina's drawings helped the examiner to understand the reasons for her regressive behaviors and the effect of the recent fondling.

For the first drawing, Tina was asked to draw whatever she wanted. She drew a big house with two curtained windows (Figure 3–1). Tina drew a girl beside the house, holding a flower in one hand and a lollipop in the other. The girl in the drawing seemed to be smiling. The sky was sunny (actually, the sun was smiling), three birds were flying around, and there were a few clouds. At the other side of the house was a tree with fruit on it, and hanging from the tree was a bird feeder with three birds feeding. This was an altogether happy and positive drawing.

For the second drawing, Tina was asked to draw a person. She drew a good-size girl who was smiling. On the girl's abdomen she drew a large black dot that she identified as the girl's belly button (Figure 3–2).
Figure 3–1. Tina’s first drawing; she was asked to draw whatever she wanted.

For the third drawing, Tina was asked to draw a boy. She had problems drawing the figure; she erased the head a couple of times. The boy was clearly smaller than the girl in the previous drawing. She didn’t draw a belly button on the boy, and he had a rather pleasant smile (Figure 3–3).

For the fourth drawing, Tina was asked to draw her family doing something together. The examiner also asked the mother to draw, in parallel, the family doing something together. Tina’s drawing was full of movement: the family was holding hands while watching TV (Figure 3–4). In an interesting parallel, the mother drew herself and her children watching a movie at the theater (drawing not included here).

The examiner went back to the second drawing and asked Tina why the belly button was visible. Because Tina remained mute, the examiner ventured to say that the little girl felt pretty bad about what happened to her when her mother’s boyfriend touched her on her private parts and that she feared that...
everybody knew or was going to know about it. The mother answered for Tina, saying that her daughter had told her how ashamed she felt about what happened. Because Tina didn’t verbalize how she felt about the abusive incident, the examiner asked her to draw the way she was feeling about what happened. Tina’s mother was asked again to draw in parallel to Tina. Tina drew a girl crying, with tears running down both cheeks (Figure 3–5). The mother again drew a picture similar to Tina’s: a woman crying and looking quite sad (Figure 3–6).

The drawings were useful in getting information about the child’s sense of herself and in exploring the feelings she could not put into words. The
Figure 3–4. Tina’s fourth drawing; she was asked to draw her family doing something together.

drawings also showed that the girl was intelligent and creative. The first drawing demonstrated a positive self-image, and the fourth demonstrated a good family relationship. The examiner felt that the regression was limited and that with ongoing counseling and maternal support, the impact of the fondling could be minimized. The examiner took into account that the elective mutism had preceded the abuse. Furthermore, Tina was demonstrating good ev-

**Figure 3–5.** Tina’s fifth drawing; she was asked to draw the way she was feeling about the abusive incident.

Figure 3–6. Tina's mother's drawing in response to being asked to draw in parallel to Tina's fifth drawing.

idence of resilience: she liked school and was doing well in her classes. Features of separation anxiety disorder were present, but features of a mood disorder were not. The examiner mandated Tina back to her individual counselor, indicating that Tina could be reevaluated if her regressive behaviors worsened or if other signs of emotional or behavioral deterioration appeared.

In the preceding case example, the parallel content of the mother’s and daughter’s drawings was remarkable. The examiner’s involvement of both mother and daughter in the process of drawing was interesting; the convergence of themes and feelings helped the examiner determine that the child was receiving good maternal care and that the mother was attuned to the child’s needs.

The use of drawing was also helpful in the following vignette.

Luz, an adopted 6-year-old Hispanic female, was brought by her adoptive mother for psychiatric evaluation due to severe self-abusive behavior and aggressive behavior toward her adoptive mother. The day before the assessment, Luz had begun to scratch her own face. When her mother noticed and questioned her about the scratches, she blamed one of her siblings. She also had hit her mother on the face, showing no empathy or regret, and had been aggressive toward her four adopted siblings. Luz had voiced that she was ugly and that her mother did not love her. Her mother said that Luz had been stating that she wished she had another mother, that she wished she had another family, and the like. The adoptive mother had provided foster care for Luz since age 11 months and formally adopted Luz at age 3. Luz’s behavior at school was also a problem: she was defiant, refused to follow directions, and screamed when she did not get her way. Her mother had also observed Luz talking to people who were not there and had heard from Luz that she saw a witch and a clown. Luz also had difficulties sleeping at night and was very scared at nighttime. She displayed daily and nocturnal enuresis.

The adopted mother had learned that Luz’s biological mother abused substances and her biological father had a history of a number of incarcerations for domestic violence. The children had been removed from the biological mother secondary to neglect. Questions regarding physical or sexual abuse were unclear. Other than ear tubes, Luz’s medical and surgical history was noncontributory.

Luz was attractive and reserved but fairly verbal. Her problems with boundaries were readily displayed as she began to ask questions about the examiner’s boldness and about his watch. The examiner needed to establish body boundaries with Luz once she began to make contact with his wrist.

Because Luz was not forthcoming with information, the examiner asked her to do some drawings. When asked to draw anything she wanted, she drew
a sequence of squares and hearts. In response to the request, “Draw a person,” she drew a heart-faced girl from SpongeBob SquarePants (Figure 3–7). Next, she was asked to draw a boy, and she drew another girl from SpongeBob (Figure 3–8).

The examiner then said, “Draw your family doing something together.” She drew SpongeBob surrounded by seven family members. Because the con-

Figure 3–7. Luz’s second drawing; she was asked to draw a person.
tent of this drawing was fantasy related, the examiner again asked Luz to draw her real family doing something together (Figure 3–9). She drew seven family members around a house. Luz explained that all her friends were decorating her home with flowers (Figure 3–10).

To explore issues of attachment to her adopted mother, the examiner said, “Draw you and your mom doing something together.” Luz drew the two making and decorating cookies (Figure 3–11).

When asked to draw a tree, the child drew a simple, plain tree of moderate size in the middle of the page. She drew a squirrel hole and a number of clouds above (Figure 3–12). Next, she was asked to draw a car. She drew a van with seven windows. She said the family was going to SeaWorld (Figure 3–13).

The examiner next said, “Draw yourself.” Luz drew an octopus (Figure 3–14), which she called Recess or American Idol. This was a mean-looking female octopus with sharp teeth. This octopus had killed one person at her right side with a gun, “because he was too poor and was stealing money.” There were three other figures around the octopus; she explained that the octopus had killed them all with a knife because they were aiding the thief. On
the back of this drawing, she drew an octopus family—mom, dad, baby, and puppy. She said that they did not share their food (Figure 3–15).

Last, Luz was asked to draw a dream (Figure 3–16). An octopus family—mom, dad, and baby—had woken up in the middle of the night; the family was scared because they had seen a stranger. All the members look scared and displayed sharp teeth. The baby octopus was about to pull a knife, but the mother told her to calm down. The mother also said to the baby, “Don’t get the knife.”
Figure 3–10. Luz’s fifth drawing; she was asked again to draw her family doing something together.
Luz was a bright child with a very vivid imagination. Her intense aggression is transparent in one of her most spontaneous drawings. The last two drawings suggest conflicting views of her maternal figure (i.e., splitting or lack of object integration). In one of these drawings, the parental figures do not share food, and in the dream drawing, the mother is rather protective and calming and assists the child in impulse control. A paranoid element is present in the last drawing. The last drawing (see Figure 3–17) also connects to the fears and paranoid feelings she experiences at nighttime. The drawings suggest that she was living in a frightened imaginary world.

The significant ambivalence toward the mother figure was further illustrated in a later follow-up spontaneous drawing of another dream: she drew

Figure 3–11. Luz’s sixth drawing; she was asked to draw her and her mother doing something together.
a bogeyman. The bogeyman had shot her mother and went to jail. His friends laughed at him for being in jail. The bogeyman cried because he wanted his mother back and said, “I’ll never do that anymore.”

**Figure 3–12.** Luz’s seventh drawing; she was asked to draw a tree.

Play and Playing Techniques

According to Russ (2008, pp. 179–180), pretend play serves five broad functions:
1. Play is a natural form of expression.
2. Play is a vehicle for communication with the therapist.
3. Play is a vehicle for the process of insight and working through.
4. Play serves to regulate emotions. Furthermore, play reflects the degree of adaptive engagement with the environment.
5. Play also assists in the mastery of ideas, behaviors, interpersonal relationships, and verbal behaviors.

Play provides the examiner with insight into the psychological conflicts experienced by preschoolers and young preadolescents. Although a diagnosis can be derived by questioning the child, the examiner often lacks information regarding the ongoing psychological conflicts that contribute to the child’s overall destabilization. Play is a window to the child’s subjective world. Table 3–2 summarizes aspects of the child’s internal world that can be inferred during diagnostic play.

Children enact their underlying anxieties and ongoing conflicts during play. Conflicts can be secondary to developmental delays, internalized conflicts, or difficulties with the child-rearing environment. Children are more likely to express, through the medium of play, psychological difficulties that...
they are unable to communicate otherwise. Often, children may be totally unaware or unconscious of the factors influencing their psychological and behavioral problems.

According to Ablon (1996), “Play in itself allows the child to bring forward and explore feelings that are most troublesome and important” (p. 545). He also emphasized the importance and salience of play in children’s lives: “Play is a vehicle for symbolism and metaphor which the mind in turn utilizes
to provide scaffolding for structuralization, integration, and organization of affectively charged experience” (p. 545). Ablon summarized the overall functional importance of play by saying, “The innate capacity of play for organization, synthesis, and promoting self-regulatory process provides a powerful therapeutic element” (p. 546).

In the next three case examples, play sheds light on each child’s underlying problems.

Joel, a 5-year-old white boy, was reassessed after being released from an inpatient acute psychiatric preadolescent program. He had been admitted to the program after he became unmanageable at the day care center and at home. At the day care center, he was hyperactive and impulsive and frequently was aggressive and abusive to his peers. At home, he was restless and defiant, talked back to mother, and displayed ongoing jealousy and aggressive behav-
ior toward his 8-month-old sister. Joel’s mother also reported that her son often displayed unusual behaviors such as precocious sexual behavior and strange verbalizations, including statements that there was a bad Joel inside of him. Sometimes, Joel appeared to be self-absorbed; at other times, he seemed to be in a frenzy and unable to sleep. His mother reported that Joel experienced fluctuating moods, and at times he looked miserable, cried easily, and said that he was a bad child.

These problems had been reactivated by the time the reassessment was conducted. When Joel’s mother was asked about a possible history of physical or sexual abuse, she became indignant. What was striking to the examiner was

**Figure 3–16.** Luz’s tenth drawing; she drew a dream.
the emotional distance between the child and the mother. She was eager to attribute the child’s dysfunction to a biological problem and proposed that the child probably had a chemical imbalance; she disregarded other possibilities. The examiner’s efforts to gather information about the child-rearing environment were met with noncontributory, vague, and evasive responses.

Joel’s mother had recently separated from the child’s father. She gave no importance to this event, even after reporting that Joel and his father seemed to have a good time together. She reported that when Joel spent time with his father, he didn’t seem to display any of the troublesome behaviors she complained about. She had begun dating a man whom she believed was getting along well with Joel, and she hoped Joel would look up to him as a father, stating explicitly, “I wish Joel would forget about his real dad.”

During the family interview, Joel made no contact with his mother. He displayed familiarity with the examiner, and at times he sought affection from him. When Joel’s mother talked about Joel, she displayed no concern or sense of empathy for what he was experiencing.

When Joel was evaluated alone, he asked to play with toys. He was offered a set of small animals, including a polar bear and a panda bear. Joel chose the polar bear and assigned the panda bear to the examiner; the polar bear was the mother, and the panda was the child. Joel told the examiner to make the panda bear call for its mommy. The examiner said, “Mommy! Mommy!” repeatedly, but the polar bear appeared to be completely indifferent to the panda’s distress. When the examiner, in the role of the panda bear child, asked Joel, as the polar bear mother, why the mother didn’t come to see

Table 3–2. Elements of the child’s subjective world

<table>
<thead>
<tr>
<th>Conflicts, problems, and fears</th>
<th>Wishes and fantasies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior experiences</td>
<td></td>
</tr>
<tr>
<td>Traumatic experiences</td>
<td></td>
</tr>
<tr>
<td>Ongoing experiences</td>
<td></td>
</tr>
<tr>
<td>Problem-solving strategies</td>
<td></td>
</tr>
<tr>
<td>Creativity</td>
<td></td>
</tr>
<tr>
<td>Verbal capacity</td>
<td></td>
</tr>
<tr>
<td>Level of intelligence</td>
<td></td>
</tr>
<tr>
<td>Capacity for engagement and object relatedness</td>
<td></td>
</tr>
</tbody>
</table>

him, Joel shouted, “Shut up!” and added, “The mother is dead.” He ordered the panda bear to continue crying and calling for its mommy.

This was a puzzling enactment. When the examiner met again with the mother, he asked her to help him understand Joel’s enactment. When she was told the content of the child’s play, she confessed with great hesitation that she had been separated from Joel from the time he was 4 months old until he was 13 months old. She had been in prison for drug-related problems, and her mother had taken care of Joel. When she returned Joel didn’t recognize

Figure 3–17. Luz’s drawing of a scary dream.
her, so she had attempted to gain the child’s love; but for a long time, she had felt that Joel didn’t love her.

In the preceding case study, the revelation resulting from the child’s play helped to explain the child’s distance from his mother, the mother’s emotional blandness, and the mother’s parental inconsistency. The child’s bonding with his mother was called into question. This developmental disturbance needed as much attention as the other disorders with which the child had been diagnosed (i.e., attention-deficit/hyperactivity disorder, oppositional defiant disorder, and probable bipolar disorder).

In the next case study, the child represented in play his concerns about body function and conflicts about elimination, in addition to obvious problems with anger.

Chad, a 5-year-old white male, was taken to the examiner by his mother for evaluation. They had been staying at a shelter for battered women, where his mother had taken her two children to seek refuge from her husband’s abusive treatment. Chad had attracted the attention of the shelter’s administrators because of his hyperactive, disruptive, and aggressive behaviors toward his brother and even toward his mother. When it became clear that Chad was unresponsive to limits and discipline, his mother was advised to seek psychiatric consultation.

Chad’s mother reported that his mood was very changeable. He had threatened to kill her, voiced a desire to die, and made veiled statements that he would kill himself. Chad had become progressively withdrawn, had lost weight, and repeatedly expressed wishes to see his father. Chad seemed to be preoccupied with defecation. His mother had overheard him singing gleefully, using words such as “caca” and “butt hole.” Chad had problems sleeping and at times appeared sad and withdrawn; at other times, he seemed happy and hyperactive. His mother denied that Chad had been physically or sexually abused; however, Chad had witnessed his father abusing his mother many times.

During the session with the mother, Chad showed a significant degree of behavioral organization (see Chapter 7, “Documenting the Examination Using the AMSIT”). He asked permission to use a number of toys and explored playing materials appropriately. Chad’s mother was amazed to see him behaving so adaptively. She was equally amazed that after Chad finished playing, he picked up the toys and put them back where he had found them. At some point during the interview, Chad began to sing, using words such as “caca,” “butt,” and “butt hole,” as his mother had disclosed earlier. He seemed to be
singing those words with an obvious joy.

Chad was a handsome boy. His speech was fairly well articulated; however, on occasion he exhibited speech difficulties. Although he appeared euthymic, he displayed some constriction in the affective sphere. Except when he was singing the scatological words, his affect was mostly appropriate. At times, the examiner sensed that Chad exhibited short-lived clang associations. (Clang associations represent a thought disorder in which the speaker uses words that rhyme [e.g., dog, fog, log] rather than words that have meaning.) No psychotic symptoms were demonstrated, and no further evidence of thought disorder was observed. Chad moved around the office with a sense of familiarity and explored many toy boxes and other items without any hesitation. His mother attempted to guide and control him by telling him to ask permission before touching things. She was far more anxious than Chad was. Although Chad made contact with many play objects, he didn’t concentrate on any item or use any toys to enact any elaborated themes.

During the individual assessment, Chad first played with animal toys. Sometimes his playing behavior was calm, and sometimes it was playfully aggressive. He often paired off the toys for play. When he turned to the dinosaurs, he picked up the Tyrannosaurus rex first. This dinosaur attacked the other dinosaurs, and from time to time, Chad would find delight in sticking another dinosaur’s tail or one of its limbs into the T. rex’s mouth. After he enacted some aggressive scenes, Chad (still holding the T. rex) turned to the examiner and asked, “Where does the food the dinosaur eats go?” He asked if it went to the legs or to the bones. He seemed puzzled and intrigued. He repeated these questions a number of times, each time making direct eye contact with the examiner.

During the interpretive phase of the interview, Chad’s mother added information of particular interest. She revealed that he had a history of chronic constipation. Chad would “hold on,” not moving his bowels for long periods of time. He would indicate a need to defecate by holding his legs together tightly and showing facial discomfort, but even then he would not go to the toilet. Finally, when Chad did go, his mother would help him in the act of releasing the hardened feces. She would hold and separate his legs (while he was sitting on the toilet) until he would painfully relieve himself. Chad had been encopretic from time to time.

In the preceding case example, the short play session shed light on the child’s struggles in understanding the transformation of food, his corresponding difficulties with elimination, and his preoccupation with body functioning. What was the importance of this symptom in the overall psychopathological picture? What was the connection between the constipation-encopresis and
the other symptoms? The potty-training battle and other conflicts over control still were very active. How were the diagnoses of oppositional defiant disorder, attention-deficit/hyperactivity disorder, and a probable affective disorder related to Chad’s encopretic behavior? Certainly, the forceful and conflictive child-mother transactions at the toilet and the child’s own preoccupations with food intake and elimination provided a good starting point for understanding the strong power struggle between the child and his mother.

The next case example shows how descriptive psychiatric observations, regular exploratory questions, and psychodynamic inferences from play observations are accomplished concomitantly and complementarily.

Suzy, an adopted 8-year-old Hispanic girl, was referred for a psychiatric evaluation for severe aggressive behavior. She had bitten a teacher’s breast and had scratched some of her peers’ faces to the point of bleeding. She had also been very obstinate and disruptive in the classroom.

Her adoptive parents were divorced. Suzy lived with her adoptive mother and other foster children (Suzy’s mother had served as a foster mother to many children). Suzy was reported to be hyperactive, impulsive, and defiant. She had been adopted at age 5 years by the family that had cared for her since early infancy. She had not been expected to live because of severe respiratory difficulties shortly after birth. Her adoptive parents had been described as very inconsistent in limit setting and discipline. Suzy had been given a number of psychotropic medications, including stimulants, but none of them controlled her behavior effectively.

During the play session, Suzy selected a playhouse, a number of small dolls (a mother, a father, a son, and a daughter), and miniature furniture. As she opened the house and began to explore its contents, she would start to say something but never finish. This happened several times. When the examiner asked Suzy about this behavior, she appeared preoccupied, as if experiencing internal perceptions. Suzy did not respond to the examiner’s comments. The examiner said, “I wonder if you are hearing something.” When Suzy continued to be unresponsive, the examiner said, “It seems that you are hearing voices. Can you tell me what the voices are telling you?” She acknowledged that she was hearing voices but didn’t reveal anything about their content. Suzy also became distracted several times by noises coming from outside the office. She would ask the examiner where each noise came from and what was happening outside the office. Suzy asked if her mother was coming.

After Suzy explored some other elements of the playhouse (she particularly enjoyed turning on and off the working house light), she began to play with the dolls. She picked up the daughter doll and said it was her. She gave
the father doll to the examiner and the mother doll to the female resident who was observing.

Suzy brought her doll to the examiner’s father doll and made her doll kiss the father doll and whisper something in its ear. The examiner asked Suzy what her doll was saying to the father doll, but she refused to tell. Suzy then took her doll to the mother doll, which the resident had placed on the house patio, and made her doll kiss the mother doll. Suzy’s doll whispered something in the mother doll’s ear, and Suzy again refused to tell the examiner what the whispering was about. Suzy used her voice in an endearing manner and showed significant excitement during these dramatizations.

Suzy’s doll then wanted to get into the pool on the patio, but she said the water was too cold. She stated a number of times that she wanted to get into the pool, and each time, she would touch the water and say that it was cold. Suzy took the father doll from the examiner and put it in a reclining chair on the patio. She sat the mother in another chair. Suzy then placed her doll upstairs in the playhouse and turned the light off, saying that it was night. She said, “It was scary,” more than once, but she would not tell the examiner what was scary in that room. She put her doll into bed and soon after brought the son doll (representing her brother) to sleep in the same bed. The examiner commented on the boy and the girl sleeping in the same bed, but Suzy didn’t respond.

Suzy then said it was morning time, and she brought her doll back downstairs, where she began playing with the mother doll. Suzy had the mother doll ask the daughter doll to go upstairs to fix the bedroom because she had “made a mess.” The daughter doll refused to go, and with a commanding voice, Suzy made the daughter doll order the mother doll to go upstairs and fix the mess herself. The examiner asked Suzy what was going on. Suzy made the daughter doll begin to whine and fret and laid the doll down on the floor. The examiner asked Suzy if the daughter doll was having a temper tantrum, and she readily agreed. The doll continued to lie on the floor, fussing and whining. The examiner restated that the doll was having a temper tantrum, and again Suzy agreed. After this, Suzy made the daughter doll go to the mother doll and kiss her. The daughter doll said she wanted to go to McDonald’s. She displayed another temper tantrum when the mother doll said no. At this point, the examiner noticed a number of scabs and scars on Suzy’s arms and asked her what had happened. She said that she had scratched herself. The examiner said, “It seems that you scratch yourself when you have temper tantrums.” She agreed.

Suzy’s next play scenario related to going to school. Her doll exited the house by the front door, was picked up by the school bus, and then came back home. Her doll kissed the mother and father dolls again. After 30 minutes of playing, the examiner said, “We are going to stop playing.” Suzy continued
to play as though the examiner hadn’t said a word. The examiner said, “We have to stop. We need to pick up now.” Again, Suzy didn’t seem to listen. In a firmer manner, the examiner said, “We are not playing anymore. We need to pick up.” Suzy protested and asked, “Why?” The examiner began to help her to put away the house and other toys. Only then did she acknowledge that the playing was over.

In the preceding case example, the enactments of this child’s strong oppositional and manipulative traits were conspicuous throughout the session. Observations during this session also suggested the presence of psychotic features. The child’s play hinted at the child’s fears (e.g., possible sexual abuse), her severe oppositional behaviors, her affectionate manipulations, and her difficulties with mood dysregulation and anger dyscontrol.

Gardner (1975) described a number of playful and engaging techniques that can be used when working with resistant children who have difficulties with direct verbal communication or who require nonverbal engagement. Examples include the mutual storytelling technique and the talking, feeling, and doing game.

**Prospective Interviewing**

Patients sometimes refuse to talk about the past. Children who have been heavily traumatized are very apprehensive about, if not resistant to, opening up old wounds. In these situations, the examiner may attempt to carry out a prospective interview in which the questions are addressed to the patient’s future. Even though the patient refuses to reveal anything about the past, as the patient begins to talk about the future, he or she will provide informative clues about his or her problems and personality organization. Consider the following case example.

Harold, a black male adolescent, was 2 months shy of age 18 years at the time of a psychiatric evaluation. He had a horrible childhood history, including gross neglect and frequent physical abuse by his alcoholic and drug-abusing mother. His father had been in and out of jail for theft and other crimes. Harold received serious and extensive burns on one occasion when his mother threw scalding water on him because he wet his bed. Harold had moved frequently between his mother’s house and his maternal grandmother’s house. He yearned for his mother’s love and couldn’t understand why she didn’t show
any affection for him. His poverty and problems with enuresis led to frequent teasing by his peers; the enuresis also led to frequent whippings by his mother.

From a very young age, Harold felt different, “sort of unique,” among his peers. Peers remarked that he didn’t “speak like blacks.” He remembered feeling depressed all his life. He was 14 years old when he started thinking about suicide. He had a number of psychiatric hospitalizations after suicide attempts. His middle adolescence had been quite stormy; he had frequently been depressed and suicidal and had begun drinking, using drugs, and stealing. He continued to crave his mother’s love.

At the time of the evaluation, Harold was living with a maternal aunt but still hoped to live with his mother. He described himself as a deep thinker and was actively involved with music, writing, and poetry. He had begun to understand that the lack of his mother’s responsiveness probably was not his fault.

Harold was able to develop rapport with the examiner and was able to display some degree of relatedness during the interview. His eye contact was intermittent, but he didn’t use body language when he spoke. Harold had a British-like accent that was somewhat unusual, given his background. His mood was euthymic (Harold was taking venlafaxine and had a very positive response to the medication). His affect was markedly constricted in both range and intensity. He was not suicidal and did not exhibit signs of psychosis. He was articulate and seemed thoughtful in his responses. Sensorium was intact, and intelligence was judged as average if not better.

Although Harold would talk about any topic proposed for discussion, the examiner felt that a prospective interview would provide significant information about his ego strengths, resilience, and ideals. The examiner asked Harold to discuss his future plans. Harold said that he wanted to finish regular high school instead of opting for a GED. He wondered if he could become a social worker or a counselor to help other kids. He also discussed his interests in music and in writing. He didn’t have any close friends but had begun to appreciate that different people have different things to offer. Efforts to gain his mother’s love were still a high priority, even though he realized that his mother was a very troubled person and that he was not the reason why his mother had failed to love him. When asked to express his feeling about having a family, he said he would like to have a family of his own. Then he became more thoughtful and added that he worried about having a son because he didn’t know what kind of father he would be. He said he was scared of becoming angry and losing control. In the past, when he felt very angry, he had felt like killing someone.

Harold verbalized his inner preoccupations in a matter-of-fact way, exhibiting prominent isolation of affect and a lack of affective modulation in his speech. He credited the antidepressant for improving his mood. The
adaptive pragmatics of communication (he had to learn to appear normal, although deep inside he was depressed) at the beginning of the interview began to fade, and as the interview proceeded he became progressively apathetic and downcast.

Harold appeared to be making good strides; however, he was at high risk for psychiatric relapse and future maladaptation. He required close psychiatric follow-up.

It is impossible to talk about the future without disclosing problems in the present and difficulties from the past. With the prospective interview strategy, the patient’s defensiveness or resistance may be bypassed.

**Approaching Regressive Behavior**

During the initial psychiatric examination, the examiner may be confronted with the emergence of regressive behaviors in a patient. In general, *regressive behavior* denotes a behavior or demeanor that would be more appropriate for a child who is younger than the patient’s chronological age. Regressive behaviors may take a variety of forms: the child may resort to baby talk, decide not to talk at all, curl up into the fetal position, or become deliberately provocative. These behaviors may become major obstacles in the diagnostic assessment, and unless they are overcome, the diagnostic interview may come to a standstill.

If a child begins to act younger than his or her age, the examiner could try a simple technique to motivate the child to behave more adaptively. The technique consists of contrasting the child’s behavioral age with his or her chronological age. The examiner begins by asking the child, “How old are you?” The child immediately states his or her chronological age. Then the examiner asks the child, “How old do you think you are when you behave the way you are doing right now?” Usually, the child responds with an age that is younger than his or her actual age. After the behavioral age has been agreed upon, the examiner asks the child how old he or she would like to behave. Most children readily favor their chronological age. The examiner then indicates to the child that from then on, he or she will help the child to behave that age by reminding the child every time he or she begins to act younger.

This simple technique works when it is done with equanimity and humor. The playfulness of this technique belies its power. The technique works
because it promotes a therapeutic ego split; it activates a conflict between the more adaptive ego and the more immature or regressive part. This technique appeals to the child’s internal controls because it puts the child in conflict with himself or herself. Further therapeutic alliance may be built around the goal of controlling or decreasing the influence of the regressive part. The examiner may explain to the child that sometimes the immature part takes control and gets the child in trouble. The child may be challenged to come up with ideas on how to manage the immature part.

Regressive behavior is common in patients undergoing malignant decompensations (e.g., in acute psychotic episodes and schizophrenia). Serious and stable regressions are also present in patients with severe bipolar disorder. Less severe forms of regression are common in children going through developmental transitions (e.g., from preschool to elementary school and during adolescence), in children undergoing stress (e.g., related to family, school, or friends), in children who are deprived or abused, and in children who have severe psychiatric disorders (e.g., mood, anxiety, or psychotic disorders). Regressive behaviors are not always associated with functional disorders. Regressive behaviors may be associated with delirium and other organic conditions (see Chapter 11, “Neuropsychiatric Interview and Examination”).

Humor

Sensitive use of humor increases the diagnostic alliance and breaks down the stereotypical image of the psychiatrist as a stiff and serious physician; humor also betrays the expectation of the psychiatrist as a very dry and distant professional with incomprehensible language. Humor demystifies the diagnostic situation and breaks down tension and apprehension; demolishes defensiveness and wariness; and, for a moment, levels the playing field for all the participants. The following brief example illustrates an examiner’s use of humor (see also the case of Jackie in Chapter 14, “Diagnostic Obstacles or Resistances”).

During a physical examination, an 8-year-old boy showed interest in what the examiner was listening to when he listened to the boy’s heart. In a joking manner, the examiner told the child that he was listening to a very angry heart. The child responded with a thoughtful, “I am very angry.” Because the boy responded positively to the first amusing comment, the examiner
moved the stethoscope lower toward the stomach and reported that the child’s belly was full of angry sounds; to this, the child endorsed once more that he was very angry, but at the same time, the child appeared amused. The examiner upped the ante by putting the stethoscope to the child’s head and saying that he was hearing many angry thoughts fighting with each other. As the examiner dramatized the “noises he heard in the child’s head,” the boy cracked into laughter. The child was by nature distant, serious, and self-absorbed, but for a moment the child became engaged, displaying a bright and positive affect.

References

Di Leo JH: Children’s Drawings as Diagnostic Aids. New York, Brunner/Mazel, 1973

Recommended Readings

Di Leo JH: Children’s Drawings as Diagnostic Aids. New York, Brunner/Mazel, 1973
Family Assessment

Key Points

- The examiner needs to consider 1) the family as a system; 2) factors that favor the engagement of the family; 3) major issues within the family that need to be explored in every family evaluation.
- The family needs to be considered as an open system in interaction with other systems.
- The focus of observation in family functioning is different when the identified patient is an adolescent or a preschooler.

A guiding principle for family assessment and therapy is that behavior problems by a child or an adult can never be understood devoid of their relational context. From a systems view, any family member’s behavioral problems are perhaps best understood as manifestations of dysfunctions within the broader family unit (McHale and Sullivan 2008).

The following are essential family system tenets (McHale and Sullivan 2008):

1. Systems are organized wholes, and their constituting elements or subsystems are interdependent.
2. Interconnected subsystems have their own integrity, are organized hierarchically, and are separated by boundaries.
3. Patterns in a system are circular, not linear.
4. Stable patterns are maintained over time through homeostatic processes.
5. Open systems do adapt, change, reorganize, and develop.
Most schools of family therapy agree that families function best when they are cohesive—that is, when they freely, openly, and directly exchange information and attend to the members' developmental needs at changing points of the life cycle. In addition, most school therapy perspectives view families as adaptive when they show flexibility, adapt to shifting circumstances, solve problems effectively, maintain a hierarchical structure, and support individual autonomy and growth of all members (McHale and Sullivan 2008). However, given the vast array of different family approaches and the different emphases represented by the different schools of thought, no standard or universally agreed on set of assessment practices or techniques for evaluating families has been developed (McHale and Sullivan 2008).

What has been said regarding the assessment of the child is equally applicable to the assessment of the family—that is, the examination of the family begins at the examiner's first contact with the family. The examiner may first connect with family members via the telephone, correspondence, e-mail, or some other way. Through these preliminary contacts, the examiner makes incipient hypotheses regarding the matter of concern, the degree of the family understanding of the presenting problem, and the degree of the family commitment to deal with it.

Parents' reports typically play a critical role in the diagnostic process, because the symptoms of a child’s disorder wax and wane, preventing the clinician from directly observing the child displaying the cardinal signs of the disorder, and because many children, especially younger children, may lack the insight or cognitive skills to report symptoms (Vitiello 2008). In addition to emphasizing the explicit seeking of information and clarity about certain critical life events, such as domestic violence, sexual abuse, extramarital affairs, and drug and alcohol abuse, most family systems approaches give special credence to the behavioral sequences and interactions that are revealed during early contacts with the family (McHale and Sullivan 2008).

**Presenting Problem**

The examiner seeks to understand how family members view the problem(s), what causes they attribute to the problems, and what measures or interventions have been attempted or planned to deal with the problematic issues.
The examiner notices how rigidly the family conceptualizes the problem or how open their system is to alternative explanations. Of equal importance is determining the degree of scapegoatism or the flexibility to consider that beyond the identified patient, other members may be playing as great a role in the ongoing family functioning (dysfunction), or that other members might be in as much need of help as the identified member.

The examiner should approach the theory of illness from all the family members. The examiner gives each family member (or significant other) an opportunity to express his or her view regarding the nature of the problem and its possible sources. The examiner notices any convergences or differences of views in the explanations of the nature of the presenting problem and its presumed causes. The examiner also notes if various family members identify different members as being in need of psychiatric help and attempts to understand the reasons they feel this way. Along the way, the examiner observes the presence or absence of parental alliance, as well as the presence of coalitions that undermine the parental alliance. The examiner attempts to determine where the family is in the family life cycle and how the family copes with current life tasks.

In certain cultural milieus, families might seek traditional religious assistance (e.g., from a rabbi, priest, pastor) or nontraditional indigenous practices (e.g., voodoo, or other forms of supernatural influence). The examiner will strive to understand the system of beliefs underlying these practices.

**Marital Conflict**

The examiner determines the strength of the marriage and the degree of family cohesiveness. Basically, the examiner observes for evidence of love and respect, understanding and caring, compassion, and empathy between the parents. The examiner attends to their marital and parental roles, as well as their sharing of efforts in caring for the children and maintaining the home environment. In the same vein, the examiner notes how the family resources are used and how equitable decision making is.

When exploring a presenting problem, an examiner often detects parental tension, lack of parental agreement regarding the nature or severity of the problem, or disagreement about the need for psychiatric help. The examiner
strives to elucidate the source of the disagreements and, when necessary, to re-focus the parents’ digression about their own problems back to the child’s present concerns.

**Intergenerational Conflict**

Establishing the degree of harmony or conflict between the parents’ generation and the previous and later one(s) is important. The examiner observes or makes inferences about how each parent relates to his or her own parents and in-laws. The examiner must be attentive to transgenerational boundary transgressions. Prior generations (i.e., a child’s grandparents) may have a great deal to say about the kind of life their children have or the manner in which the parents should raise the new generation, among other things. Some grandparents make misalliances with the grandchildren and undermine parental discipline and home rules, either overtly (by openly criticizing parents) or covertly (by condoning the violation of rules). A number of grandparents are averse to psychiatric interventions or the use of psychotropic medications. The examiner needs to identify these belief barriers and attempt to understand and overcome them. The examiner also needs to note how much the parents depend on grandparents for emotional or financial support and establish if the parents have ever been able to achieve independent functioning on their own.

When the family is estranged or cut off from a previous generation, the examiner can help by exploring the source for such an alienation and will encourage building bridges or repairing the broken relationships. The same is applicable about other important relationships in the past.

**Deaths in the Family**

History of deaths in the immediate family is common in psychiatric patients. Death destabilizes the family hierarchy and support systems. If the lost one is a parent, the psychosocial impact is more direct and detrimental. The child experiences an immediate loss of care, nurturance, and support, and if the dead parent is the main breadwinner, the survivors may experience devastating financial and social status consequences.

Serious psychological sequelae endure when the death is not the result of natural causes but rather is the consequence, for instance, of an automobile
accident that occurred while the parent was under the influence of alcohol or drugs, or worse, of suicide. Depression, persistent anger, guilt, and blame are common complications for children following parental suicide. Children feel responsible for the parent’s suicide or may feel they are to blame for the parent’s demise. Suicide of a sibling is equally devastating. Experiences with suicide have negative and long-lasting consequences.

Deaths of a significant family friend may have as great an impact as a death within one’s own family. The suicide of a child’s friend has a major negative impact on the child’s psychological life. Guilt and self-blame are pervasive responses. When a child’s friend has committed suicide, the examiner needs to explore the possibility of a suicidal pact or of the presence of suicidal intentions based on the need to atone for the perceived blame (see “Evaluation of Suicidal Behaviors” in Chapter 8, “Evaluation of Internalizing Symptoms.”).

The loss of a friend could be more destabilizing for an adolescent than the death of a family member. Research indicates that “losing a close friend and having family with a drug or alcohol problem were the only specific proximal risks significantly associated with adolescents’ current total difficulties. Adolescents who reported that someone in their families had died in the past month appeared to score lower on the total difficulties than those without this experience, which appears counterintuitive” (Flouri and Kallis 2007).

Illnesses in the Family

Chronic parental illness results in serious developmental disturbances in the offspring. Chronic parental illnesses (medical or psychiatric) impact the organization and support system within the family. In the case of parental illness, a reversal of roles occurs: the child becomes parental and attends to the parent’s needs instead of his or her own. In these circumstances, the child experiences neglect and emotional deprivation.

A negative impact also results when the family has to contend with a child’s chronic medical or psychiatric illness. The other children in the family resent the attention the ill child receives. A variety of negative impacts on the family and on the other siblings are common consequences.

Similar negative consequences occur when a parent or parents are deemed incompetent to take care of the offspring because of neglect or poor parental
supervision, or when children are placed in the care of the extended family (grandparents or other relatives) or outside of the family. Children cannot understand the rationale of a social agency’s decisions; commonly, children ally with the parental figures against the external agents (child protective services, judiciary, school, etc.) that threaten the family integrity.

When failures occur in the executive system of the family—that is, when the parental figures are incapable of providing care, safety, and supervision for their children—the sibling subsystem develops compensatory organizations; in general, the oldest child takes a parental role. The elevation of the oldest child to a parental role is resented by the younger siblings and becomes a source of power conflict between the impaired parent and the parental child. Commonly, a child stuck in a parental role abrogates to himself or herself the right to set his or her own rules and to challenge or disregard the parental ones.

The following case is an example of a child’s problems resulting from severe illness in a parent.

Shon, a 12-year-old mixed-race male, was evaluated for disruptive behavior at school and aggressive behavior at home. He had not had previous psychiatric treatment. Shon had been aggressive toward his sisters and also had been destructive at home. He was increasingly rebellious, and his father complained that Shon took things from his sisters and from him. Some minor shoplifting had been reported, and he had a history of ongoing enuresis and episodic encopresis. The school had not complained of aggressive behavior.

Shon’s father was Asian American, and his mother was a Portuguese descendant. As the mother entered the room, the psychiatrist noticed her wide base and labored walking. The examiner asked her what was the matter. She started by saying that she was recovering from a very serious ankle fracture in her right leg 2 years before; as she continued, she mentioned that she had a bad case of diabetes, advanced retinal disease, and a history of a right-side stroke 5 years before. She suffered from left-side hemiparesis and had temporary aphasia. She was disabled due to her multiple medical conditions.

The father reported that Shon talked back to his mother and that he had been progressively verbally abusive to her. The father was fearful that Shon might become physically aggressive with his mother. Shon’s problems had become progressively worse over the previous 2 years, coinciding with his mother’s surgery. The child acknowledged being sad for the previous 5 years.

The mental status examination of Shon revealed an overweight male child who appeared his chronological age. He was shy and nonspontaneous.
and talked with a low tone of voice; some degree of “baby talking” was discerned. Shon had difficulties warming up to the interviewer. He denied suicidal or homicidal ideation. He endorsed hearing voices telling him to do bad things. Shon frequently would ask his mother whether she heard what he did. He would also tell his mother that somebody was trying to get into the home and felt that people said bad things about him. He endorsed a history of self-abusive behavior in the past: he had scratched himself two times in the past.

The family was unaware of the impact that the mother’s extended illness had on Shon’s emotional life. His mother recollected that when she was in the hospital, when Shon was age 7 years, he pleaded insistently for her to return home, saying, “Mom I need you.” When the examiner explored the impact of the mother’s illness in the family, Shon began to cry.

The family had not been able to appreciate that Shon’s deteriorating academic and behavioral course ran a parallel course to his mother’s deteriorating medical condition. Shon’s behavioral adaptation suffered markedly after his mother had a stroke 5 years before. His mother’s illnesses were a severe threat to Shon’s strong dependency needs. Shon felt helpless without his mother around. Furthermore, his mother’s medical condition had changed the dynamics between her and the child such that she needed care and was incapacitated to provide the nurturing that Shon was so hungry for.

Financial Stressors

Financial stressors can affect families in a variety of ways. Some parents attempt to work longer hours or obtain multiple jobs to produce additional income, especially when the provision of basic necessities is at stake. Additional work means more parental time away from the family, with a negative impact on the family’s emotional atmosphere and on the consistency of enforcement of family rules. When both parents work, children may be left unsupervised for hours and experience more keenly the sense of parental deprivation. Financial stressors create tensions between parents and cause the children to have a sense of material and emotional deprivation, particularly if parents cannot meet the children’s basic needs.

Family Conflicts With Other Systems

As an open system, the family is always transacting with other systems: schools, health organizations, religious groups, social agencies, and others. The transactions of the family with other systems evolve from the natural or
intrinsic relationship of the family with other systems. The family is embedded in and regulated by large social systems; that is, the family is influenced by other systems at all times. The family is expected to transact with other social agencies along the evolution of the family life cycle.

A functional family system carries out the basic responsibilities of caring for, protecting, and supervising the offspring successfully while transacting with other systems. A family system gains autonomy from the influence of other systems based on its success in fulfilling these basic tasks. Simply, a functioning family unit transacts with other systems without undue conflict and is open to the positive influences of the larger systems. On the other hand, a dysfunctional family is pressed by other systems to do a better job in fulfilling the basic family tasks. The more the family deviates from the expectations and influences of the larger systems, the greater the resulting conflict is between the family and the parallel or superordinate systems.

Ultimately, adolescent outcome appears to depend on the contextual cumulative risk rather than on specific risks, and the relationship between proximal contextual adversity and psychopathology is monotonic (Flouri and Kallis 2007). An alternative or complementary explanation derives from the concept of allostatic load (see Chapter 13, “Symptom Formation and Comorbidity”). “This suggests that increments in the number of proximal adverse life events experienced increases psychopathology scores, which highlights the importance of protecting those at risk from further risk exposure. Finally…reasoning ability moderates the association of proximal cumulative adversity and psychopathology” (Flouri and Kallis 2007, p. 1657).

**Observations of Family Behavior**

**During the Family Interview**

The examination of the family begins when the examiner meets the family in the waiting room. The examiner should invite into the office any family members who have come to the appointment and extend an invitation to any significant others the family has brought along (the family has the choice to select who attends the meeting). Once in the office and after the family members and significant others have been accommodated, the examiner introduces himself or herself to every member of the family.
The examiner will pay notice to who is the family’s spokesperson and what are the family’s hierarchical rules of power and control. In general, the family spokesperson is the gatekeeper of the family—that is, the person with power and through whom all major family decisions are made. This is the member the examiner needs to “win over” for diagnostic and therapeutic success. The examiner needs to be sensitive to family cultural issues in family social deportment. For example, in dealing with Latino and Asian families, addressing the father first and then the mother is the safest practice. In Latino families, fathers and husbands “are supposed to be in charge,” and unlike in most European and African American families, sleeping with and hand feeding of children well through the preschool years is normative behavior in many Asian families (McHale and Sullivan 2008).

The examiner pays attention to the seating arrangements and to the verbal and nonverbal communication of the family members. The examiner should pay special attention to nonverbal behavior, including nonverbal communication and body contact between and among the members. Frequently, what the parents are expressing in words is contradicted by their nonverbal behavior. For instance, a parent may express disgust with a child’s behavior but, at the same time, the same parent or the other parental figure makes affectionate contact with the child, thus cancelling the verbal disapproval. Also, a common observation is that when a parent asserts himself or herself in enforcing a rule or establishing a new rule, the child may attempt to make body contact with that parent to weaken the parent’s resolve or to convey to the parent, “You do not really mean to do what you are saying, do you?”

The examiner observes the affection and respect among the family members and notes if a child respects parental authority. Of equal importance is observing the level of hostility among the members (between the parents, between the parents and children, among the children, etc.). From the very beginning of the interview, the examiner can observe evidence of separation anxiety in a child (close proximity to a parent, lack of spontaneity, frozen expression, timidity, anxious pragmatics of communication, etc.), open defiance and rebelliousness against parental authority, or other intergenerational conflicts. In the same vein, the examiner may observe evidence of depression, mania, developmental abnormalities, or oddities or unusual behaviors in the identified child or any other member of the family. An alert examiner attends to clues of alcohol or substance abuse in the parents or other family members.
Family assessments differ depending on the child’s developmental stage, as demonstrated in the following two sections.

**Observations of the Family When the Identified Member Is an Adolescent**

During adolescence, psychiatric problems are complicated by conflicting family and adolescent issues related to autonomy and control. The adolescent’s unfolding needs for individuation and to exercise autonomy and develop a supportive nexus outside of the nuclear family (including romantic attachments and sexual exploration) collide with the family’s need to exercise protection, vigilance, and supervision of the child.

In addition to the parents’ concern regarding the presenting psychiatric problem(s), the psychiatrist needs to observe the parents’ empathy for the child’s developmental needs. Are the parents’ rules too restrictive? Are the rules too liberal and inconsistent? Is discipline disproportionate, even abusive? Are parents attentive to the child’s growing sexuality? Are they negligent about this developmental imperative or, on the contrary, too preoccupied with this issue? How sound is the parents’ supervision over the child’s social life? Are they vigilant about the child’s sexual or substance abuse behaviors? The examiner needs to explore the family’s attitudes toward sex, birth control, use of alcohol and mind-altering substances, and so on. The examiner needs to understand the family’s rules regarding curfews, dating, driving, and other issues. The examiner should ask questions such as the following: Has there been any violence in your home? Have the police ever come to your home? Has the family had any legal issues? Do any family members have alcohol or substance abuse problems? Has a child protective services agency been involved?

At all times, the examiner needs to be respectful of the families’ religious leanings and philosophy of life. For certain religious groups, mores of contemporary American life, particularly regarding adolescents’ privileges, are considered totally unacceptable.

The following is an example of observations of a family with a suicidal adolescent.

Mark, a white male a few months shy of his 18th birthday, was evaluated for planning to kill himself. He had made a suicide pact with his girlfriend, had
gotten hold of a couple of his father's handguns, and had driven toward a coastal city 200 miles from his hometown, with the clear intent of killing himself. Fortunately, he had difficulties finding ammunition and loading the guns.

Mark had a long history of depression and had been entertaining thoughts of killing himself for over 2 years. He felt estranged from his family and had felt totally alienated from society as a whole. He felt that he did not fit anywhere and felt utterly hopeless about his family and his future.

At the time of this crisis, Mark's girlfriend had gone through a parallel emotional and existential crisis: she had recently attempted suicide and had been in an acute psychiatric program. The girlfriend had also been estranged from her family for a long time.

According to Mark's parents, Mark had been a very bright student and was multitalented; however, his academic interest had faltered, and Mark was struggling to finish high school in a magnet school. In the past, he had excelled in athletics and had been in the gifted and talented program. At the time of this evaluation, he had no career plans and going to college was the farthest thing from his mind.

Mark's family reported no prior psychiatric treatment. However, the family had previously participated in family therapy for a few months, and that experience, in the parents' view, had “left Mark with a negative perception of psychiatrists and therapists.”

Mark was a white-haired adolescent with a rather quiet demeanor. He was articulate and used words with precision but sparingly. He was ostensibly depressed and somewhat downcast and kept limited eye contact. He endorsed the described plan to commit suicide and acknowledged the plot to shoot himself. Mark admitted that he had ingested mushrooms prior to activating the suicide pact. He had also abused marijuana in the past. The rest of the mental status examination was noncontributory.

Issues with hopelessness were explored. He verbalized a sense of futility about life and about going to school in particular. He felt that it made no sense for him to go through life's daily requirements and to settle into a professional career. He wanted to travel, to see the world, and to meet new people. Obviously, he wanted to move from under his parents' control and to make his own life.

The mother's side of the family had a three-generation history of mood disorders. Mark's mother had a history of chronic depression and was receiving duloxetine at the time of the evaluation. His mother was keenly sensitive to the presence of a mood disorder in her son. After graduating from college, she had opted for a position as a flight attendant with one of the major airlines, and she was very happy with her job. Mark's father was a musician and made his living from an assortment of manual jobs. His father was inclined
to attribute his son’s recent crisis to the mushroom abuse and minimized the role of depression in his son’s ongoing difficulties. The couple disagreed about their son’s need for psychiatric treatment or psychotropic medication.

Mark’s mother was mildly depressed but easily engaged; she kept a very active role during the diagnostic interview and became the spokesperson for the family. The father was warm but not very talkative; he listened attentively to the ongoing discourse and became verbally engaged at appropriate times.

In a conjoint meeting with Mark and his parents, held the same day as the initial evaluation, Mark expressed that he felt his parents had lots of expectations for him and specific plans for his future. He felt very constrained. Mark felt his parents wanted him to go into some professional career, but he emphasized that what he really wanted to do was to travel. His parents were prompt to respond to the represented expectations. His mother said that she did not have any specific plans for him. She was concerned that Mark was depressed and wanted him to be happy. His father asserted that what he wanted for his son was for him to be able to use his talents and potentials and for him to give himself options for his future. He particularly wanted him to be happy.

Mark was surprised by his parents’ views and felt moved by his parents’ concerns regarding the ongoing crisis and his apparent lack of motivation. Mark acknowledged that he had created some grief for his parents and felt bad that he had not given enough recognition to their concerns and efforts. Mark was visibly moved by his parents’ affectionate expressions, voicing that he had felt distant and unable to communicate with them for a long time, in part because he believed they had a preestablished plan for him. As he articulated these thoughts, his demeanor softened, his affect expanded, and he became tearful, expressing the wish to have a closer relationship with both parents. The whole family was emotionally touched. This was an “emotional reunion” for Mark and his parents.

During the family meeting, Mark and his parents became emotionally engaged (reengaged), given the perception that some ice had been melted and that some walls had come down. In fact, when Mark was interviewed at the following session, he said that he was feeling better, he was feeling more connected to his family, and he no longer saw the future to be as threatening or bleak as he used to. He also felt that his self-esteem had improved. When reflecting about his girlfriend, Mark stated that he did not know what was going to happen with that relationship. Mark did not know whether his girlfriend was interested in feeling better or was still considering suicide. He recognized that he had been dealing with his girlfriend’s depression and suicidality for a long time and that this had been emotionally draining for him. He stated, “I am not going to allow her to pull me down.”

Through the diagnostic interview, the examiner helped the identified and alienated family member to feel supported and understood and to recon-
nect with his family. By clarifying the adolescent’s misperception and facilitating the family engagement (reengagement), the diagnostic interview helped to tear down Mark's emotional distancing from his parents and rekindle a caring and loving relationship between the child and his parents. Mark’s reengagement with his parents during the family meeting became a breakthrough, a turning point in his pervasive sense of hopelessness, alienation, and interpersonal isolation.

The following is another example of observations of a family during the interview involving an adolescent threatening suicide.

Wanda, a 17-year-old white female, was evaluated after she barricaded herself in the bathroom following an altercation with her mother. Wanda’s sister, 3 years her junior, broke down the door and found Wanda with a loaded gun aimed at her temple. Wanda was admitted to an acute inpatient adolescent program.

Wanda was concerned that she was pregnant and had taken some money from her mother’s purse to buy a pregnancy kit. Her mother was upset when she found that Wanda had taken money from her. This initiated the argument that preceded the suicide attempt. Wanda had a problematic history of chronic depression and mood instability, and had tried to kill herself a number of times. She stated that she felt unattractive and ugly. She also had used drugs, and her academic performance had deteriorated. Due to Wanda’s acting out and her persistent unruly behaviors, she had been placed in a residential treatment program for close to a year and had returned from that program about 6 weeks prior to the present crisis. Apparently, Wanda had confided to her younger sister that she was sexually active but swore to her mother that she was not, even though Wanda’s boyfriend confessed to the contrary. The mother had an anxious relationship with Wanda; she felt that her daughter could not do anything without her help and that Wanda was markedly impulsive and unstable. Mother and daughter engaged in frequent power struggles, and according to the mother, Wanda wanted to get her way all the time and badgered her mother to no end in her effort to make her mother change her mind.

Wanda stated that she felt like killing herself when her mother discovered that Wanda had taken money (less than $20) from her purse. She felt that her mother was going to send her away to another treatment facility, because “that is the way of fixing problems with me, to send me away.” Wanda represented her mother as controlling and uncompromising.

Thirty-six hours after the hospital admission, staff were informed that the mother was coming to discharge the patient. Apparently, her mother was
upset that Wanda had been allowed to call home without her consent and that Wanda had been allowed to leave the unit to go to the cafeteria without notifying her. Wanda did not feel ready to leave the hospital yet. Her mother was so upset at the hospital that she refused to consider talking to the psychiatrist. Once in the hospital, however, the mother agreed to talk to the attending psychiatrist. She stated that the psychiatrist had not seen her daughter; actually, the psychiatrist had already had two extensive interviews and a third short one with Wanda. The mother demanded discharge, basing her decision on the advice of the child’s previous therapist and the staff of the previous residential treatment program. The psychiatrist was unsatisfied with the mother’s safety plan and with the lack of qualified mental health providers following Wanda’s discharge. The mother became upset with the psychiatrist and complained about the examiner’s tone of voice. The examiner explained that the hospital needed to organize a solid outpatient team of mental health providers before Wanda could be discharged. The mother was asked to come the following day and to bring her husband and younger daughter. Before the mother left, she recognized some of her misunderstanding and felt comfortable about leaving her daughter in the hospital for another day. When the psychiatrist shook the mother’s hand, she shook the examiner’s hand with both hands and demonstrated a positive rapport.

The next day, Wanda’s parents and younger sister came to the hospital. The whole family was present. The sisters sat close together, and the younger sister held Wanda’s hand. The examiner, desiring a change in the sitting arrangement, asked Wanda’s sister to move to the right side of the father; the mother then took the place previously occupied by the sister.

When the examiner asked Wanda’s sister how she felt when she found her older sister with a gun to her head, she became so emotional and moved that she could not talk; she gestured that she was unable to talk about the scene, while at the same time, she displayed a spring of emotion and a stream of tears. Wanda was unmoved.

Following the silence related to the sister’s emoting, Wanda’s father said that Wanda had certainly crossed the line. He discussed with a well of emotion that “all my blood went to my legs” when he received the call from his wife. He could barely stand up and walk. Wanda’s father said that he sped home, almost getting hit by an 18 wheeler, and kept wondering along the way what he was going to find as he entered his home: Was he going to find his wife shot? Was his younger daughter dead? Did Wanda commit suicide? He asserted that these moments were the worst of his life. Wanda did not show any emotional response to her father’s revelation.

The mother, who could barely hide her resentment, said that from now on things were going to change. Wanda would be in total lockdown after discharge and would not be allowed to talk to her boyfriend. Wanda’s persistent
concern was for the family not to send her to another placement center, and she attempted to negotiate the lockdown and restrictions from her boyfriend in exchange for not being sent away. The father did not make any deals. Both parents were surprised at how soon the recent crisis occurred after the extended residential treatment placement, and reiterated how little Wanda could be trusted.

Throughout the session, Wanda showed no change of affect and expressed no apologies or regrets. She deflected any invitation to respond to her sister’s reactions, to her father’s revelations, or to her mother’s visible disappointment in her. Wanda displayed a bland demeanor and was unable to empathize with the family’s grief and resentment. She only voiced that although the lockdown was going to be hard, she felt she was going to make a big effort to make it through. Once the aftercare plan was discussed and the parents were satisfied with the aftercare contingencies, Wanda was discharged.

In this vignette, Wanda dissociated the emotional impact of a dramatic suicide attempt. Wanda was unable to recognize the emotional impact that her actions had on her family. She was very narcissistic and manipulative and had no regard for the impact of her behavior on her family. Even though she had claimed that her younger sister was the most important person in her life, she was incapable of expressing any regret or sympathy for her.

Observations of the Family
When the Identified Child Is a Preschooler

When assessing a preschool child, the examiner needs to focus on different areas of family and parental functioning and different developmental acquisitions than when assessing an adolescent. The examiner attempts to determine the quality of the child’s attachment to the parental figure and to ascertain the degree of the parental figure’s emotional investment in the child. Does the examiner see evidence of the child’s exploratory behavior in an unfamiliar environment? Does the child show evidence of separation anxiety? Does the child show behavioral organization? Does the examiner observe the parent demonstrating a positive regard toward the child? Is the parent attuned to the child’s biological, emotional, and security needs? Does the parent attend to the child’s safety and impulsivity? Does the parent display a capacity for sensitive and effective limit setting? Does the parent allow the child to do whatever he or she wants? Does the parent support the child’s efforts at self-soothing, behavioral organization, or self-regulation?
Issues regarding the continuity of the child’s upbringing need to be explored. The examiner should ask questions such as these: Have you taken care of your child all the time? Who else has been involved in the rearing of your child? Have you ever been separated from your child? What were the circumstances? Who took care of the child while you were away? Has the child ever been placed outside of the family? The examiner needs to inquire whether child protective services has ever been involved in the family and, if so, for what reason.

The case of Rudd was discussed in Chapter 3, “Special Interviewing Techniques,” as an example of physical holding and limit setting during the diagnostic assessment of a preschooler. The following is another example of a preschooler evaluation.

Daphne, a 3-year-old girl, was referred by a local military hospital after an extensive comprehensive pediatric evaluation—involving developmental pediatricians, a pediatric neurologist, and consultant child psychiatrists—determined that no objective reason accounted for her perplexing symptoms. A week before, the girl had been taken to the emergency room in an intense and protracted tantrum; she had screamed for hours without stopping, had refused to eat or talk, and would not open her fists. At the military hospital, Daphne displayed persistent mutism and would not release the clenching of both hands. She also displayed a number of regressive behaviors. To the hospital observers, the mother was very anxious and unduly solicitous of the child’s attention.

Daphne had a history of a willful temperament and threw tantrums when she did not get her way. She had a previous history of hunger strikes and had once gone a whole week accepting only fluids.

Daphne reportedly got along well with other children and was able to play pretend games, but she needed assistance with dressing and bathing. She also wanted to be fed. Daphne had been sleeping a lot throughout the day and night and had become very clingy. She had always been a difficult child and reportedly had difficulties with transitions. Her regressive behavior had begun shortly after Daphne and her mother had returned from visiting the child’s biological father in another state; the child had not known her father before. Apparently, the child idealized her father and carried her father’s picture everywhere. She had been toilet trained, but after a visitation with her father, she had some accidents. Because of Daphne’s dramatic change in behavior, some clinicians wondered if the child had been abused during the visit with her biological father and contacted child protective services.

Daphne was breastfed until age 2½. Her mother slept with Daphne, ra-
tionalizing that a stranger could break into the house at night. Also, when the mother showered, she took the child into the bathroom. The child had difficulties separating from her mother.

During the time Daphne was in the pediatric hospital, she made repeated references to not letting the germs in and had focused on hand washing for the previous 3 months. During the hospital stay, she would not go to the bathroom by herself; her mother had to take her, sit her at the toilet, and wipe her. During her multiple screaming episodes, Daphne would yell that she wanted her mommy, and when her mother attempted to comfort her, Daphne would scream to her, “Go away!” She was uncooperative and combative with the hospital staff.

During the psychiatric assessment, Daphne’s mother excused herself to go to the bathroom, but she did not go without taking her child. The examiner learned that the mother had severe anxiety, some phobias, and paranoia, and that her side of the family had a history of depression, anxiety, and bipolar disorder. The mother reported that she had always been anxious and that she would vomit when anxious. She disclosed that her anxiety got so severe that she was unable to calm herself. The mother was afraid to drive and wondered if the child had inherited her anxiety. When the mother was a child, she had witnessed violence between her parents. Daphne’s mother reported that she and her child were very close. The mother had not received any psychiatric treatment.

In this clinical case, the examiner determined that developmental interferences had promoted and maintained the child’s regressive behaviors. The mother obviously had a severe anxiety disorder that needed identification and treatment. At the time the child was discharged from the diagnostic psychiatric hospital, the child’s regressive episode had resolved. The protective services agency was informed of the findings and discharge planning. The agency was to monitor parental behavior and assist the mother in procuring treatment for her own anxiety disorders. The mother was referred for a psychiatric evaluation and received treatment with fluoxetine. A follow-up of the child indicated that the elective mutism and regressive behaviors had resolved and that the hand movements had normalized.

Sometimes during a psychiatric assessment, the examiner needs to intervene to ensure the safety of the child, the examiner, or the persons attending the evaluation, or to preserve the integrity of the evaluation environment. In Rudd’s case (described in Chapter 3, “Special Interviewing Techniques”), the examiner gave hints to (“coached”) an insecure and ineffectual mother about how to stop reinforcing a tantrum (by asking her to leave the situation and proceed to the office), modeled effective parental behaviors by putting the
child under control, suggested affectionate support once the child regained self-control, and accepted reparation (affectionate contact) at the time of departure. Thus, the examiner challenged the mother’s beliefs that limit setting did not work.

**Areas of Family Assessment That Need Specific Inquiry**

Almost any topic can be explored within a family meeting, but some issues should be approached more privately. At all times, the examiner should respect the parental choice regarding what issues need to be addressed, who may be privy to such discussion, or what will be the most appropriate therapeutic venue for such exploration. At all times, the examiner will attempt to understand the parental decision-making process. In principle, marital issues should not be discussed in front of the children or in front of prior generation members.

In general, when a major psychiatric disorder is identified in a child, the family undergoes a great deal of soul and generational searching for the origins of the disorder. Frequently, families become revealing and share family secrets or information about the family they have not previously discussed with others, or they begin to question older relatives about histories of relatives who may have had psychiatric issues.

The examiner should begin the inquiry by asking each parent specifically about his or her history of mood or anxiety disorders, alcohol or substance abuse, relevant legal history, or any condition related to the presenting problem. If the responses are positive, the examiner further explores response to treatment, complications, relapses, and so forth. The examiner also asks whether the parent is undergoing treatment and/or drinking or abusing drugs currently. With the parental dyad, the examiner explores the presence of mental illness and substance abuse among the parents’ siblings or their offspring, and then among both sets of grandparents and uncles and aunts. The examiner attempts to gain information regarding the great-grandparents’ history of mental illness (depression, bipolar disorder, schizophrenia, alcohol or substance abuse, etc.), psychiatric hospitalizations, electroshock treatment, suicides, and so forth.
References


This page intentionally left blank
Providing Postevaluation Feedback to Families

Key Points

- The examiner needs to take multiple factors into account when giving feedback about the diagnostic assessment.
- The examiner needs to be tactful, sensitive, deliberate, and forthright when giving feedback to the child and family.
- The examiner needs to anticipate complications during the feedback phase and should be prepared to deal with them.
- Safety of the child and family is a paramount concern when providing feedback.

Providing postevaluation feedback is a critical part of the psychiatric interview. A number of principles guide the examiner’s professional deportment during this important phase of the interviewing process. The examiner needs to demonstrate expertise, empathy, and sensitivity, and to show his or her educating abilities and skills; to keep an open and exploratory mind, even at this late phase of the interview; and to be sensitive to the nature of the feedback, to anticipate the parents’ or the child’s reactions to it, and to be prepared to deal with its repercussions.

A good way to start the postevaluation phase of the interview is for the evaluator to ask the child and family if they have any topics that have not been
discussed that would be helpful for understanding the presenting problem. Someone may bring up a new issue about the child or the family.

If the parents are divorced, the physician needs to clarify who is the custodian and who has the medical decision rights over the child. In the case of divorced or separated parents, the psychiatrist must make efforts to involve the noncustodial parent. If the custodial parent has reasons to believe that the noncustodial parent would refuse consent to nonurgent psychiatric treatment, providing treatment over that parent’s objections is legally questionable and clinically unwise. Both parents’ input is valuable for a variety of reasons: 1) involving both parents provides greater opportunity for more information concerning behaviors in a variety of contexts and perspectives; 2) less bias and less one-sided information will be presented; 3) chances for treatment planning and implementation are greater; and 4) the involvement of both parents will likely result in better medication management and more effective therapy (Mossman and Weston 2008, pp. 64, 66). In conclusion, listening to both parents’ sides increases the likelihood of compliance with treatment programs increases.

The psychiatrist needs to clarify the nature of confidentiality and inform the child and family about which communications are bound by confidentiality rules and which ones are not. The family needs to know that the examiner is not bound to confidentiality rules when circumstances of neglect, physical abuse, or sexual abuse are evident, or when the patient is at imminent risk of harming someone.

During the postevaluation feedback phase, the psychiatrist educates the family about the current standards of care for a particular disorder. What Vi tiello (2008) wrote about bipolar disorder is equally applicable to the diagnosis and treatment of most child and adolescent psychiatric disorders:

Parents should be informed of the current state-of-the-science of [diagnosis and] treatment for bipolar disorder [or the disorder in question] and made aware that, though there is expert consensus that children with bipolar disorder [or other psychiatric disorders] should receive pharmacological treatment [or other interventions] to stabilize mood, the effectiveness of treatment in preventing recurrences and improving ultimate prognosis remains to be documented. Because response to treatment is highly variable across individuals, finding an effective treatment regimen for a patient is still very much a process of trial and error. It is important for patients and parents to be aware of these limitations. (p. 393)
In making therapeutic recommendations, the psychiatrist needs to be cognizant of the family’s mental health and financial resources, as well as the local mental health resources, so he or she can present options that are affordable and available to the family. Also, good therapeutic recommendations take into account the religious, cultural, and other ecological aspects of the family. No recommendations are likely to be implemented by a family if they contravene the family’s religious or cultural norms. In a similar manner, the therapeutic recommendations are more likely to be implemented if such recommendations agree with the family’s theory of illness.

In determining a diagnosis and establishing a therapeutic plan, the psychiatrist should strive to involve the child in the process, especially if the subject is an adolescent. At the same time, the psychiatrist should make an effort to promote an understanding of the child’s pathology.

The examiner should avoid making premature closures; he or she should be tentative when presenting professional diagnostic opinions. As stated by Nurcombe (2008), “Given the fuzzy nature of clinical data, medical decisions have to be probabilistic” (p. 2; for Nurcombe’s strategies of diagnostic reasoning, see Note 1). Before giving a serious diagnosis, such as a severe psychotic disorder, the examiner may suggest to the family that the preliminary impressions indicate the possibility of a serious diagnosis but that a number of steps are needed before committing to a definitive diagnosis: 1) conducting further diagnostic interviewing; 2) completing a number of diagnostic procedures and consultations to further elucidate the case (lab studies, drug abuse testing, psychological testing, speech and language assessment, neurological and other medical consultations); 3) observing the response to sensible treatment trials targeting major psychopathological dimensions; and 4) giving opportunity for a period of longitudinal observation. The examiner needs to avoid making either overoptimistic pronouncements or negative and pessimistic prognostications.

Except when a patient demonstrates clear manifestations of an indisputable psychiatric syndrome and a categorical diagnosis is imperative, the examiner may consider prioritizing the most salient psychopathological dimensions of behavior that are currently interfering with successful adaptation. A categorical diagnosis tends to remove the parents from the circular causality of the psychopathology and from other issues that need to be considered in the understanding of precipitating or maintaining factors.
Despite the growing consensus that a number of psychiatric disorders have clear biological underpinnings, the importance of family stability and a warm parental ambiance cannot be overemphasized. For instance, Tillman and Geller (2008) reported that the likelihood of relapse in children diagnosed with bipolar disorder depends on maternal warmth; those children whose mothers were warm had less incidence of relapse than the ones whose mothers were not.

Parents often project onto the other spouse responsibility for whatever is wrong with the child, particularly when the psychiatric condition is severe. The psychiatrist needs to be attentive to the emergence of such conflict and attempt to help the parents understand the irrationality of their projected blame and guilt. The psychiatrist needs to educate the patient and family about the nature of the disorder(s) in question.

During postevaluation feedback, the examiner should monitor any reaction of the child and family indicating ambivalence and covert or overt disagreements with the treatment recommendations. The examiner should attempt to deal with the reservations or ambivalence over the diagnosis or treatment plan.

When issues regarding safety are apparent, these concerns need to take priority over everything else. The examiner needs to convey to the family that any indication or hint of suicide needs to be taken seriously. If suicide is considered a risk, the examiner needs to implement a safety plan with the family. Depending on the immediacy of the risk, the plan may include the consideration of an acute hospitalization. Basically, hospitalization is indicated when the patient expresses in words or behavior that he or she is determined, if not driven, to end his or her life. If the examiner believes that the child’s life is at stake, he or she needs to make efforts to persuade the family to seek hospitalization for the child. If the family is not supportive of this therapeutic recommendation, the psychiatrist should take steps to ensure that the child is taken to a nearby psychiatric unit by facilitating an order of protected custody or by issuing a medical certificate for involuntary commitment. If the psychiatrist feels that the child is in serious danger of hurting himself or herself, and the family opposes the psychiatrist’s safety plan, the psychiatrist needs to contact the child protective services agency to report the family for medical neglect.

The physician needs to be clear and convincing regarding the nonavailability of arms (knives and particularly guns) around the house. According to
Ash (2008), only a quarter of families follow this recommendation. That being the case, the psychiatrist needs to monitor this risk on an ongoing basis.

Similar considerations apply when the child poses a risk to others. Homicidal behavior requires emergency psychiatry intervention. Nowadays, due to schools’ zero tolerance for violence, schools demand a psychiatric evaluation every time a student makes overt or veiled threats to hurt somebody or to carry out a terrorist threat. The psychiatrist needs to assert the implementation of a safety plan and take steps similar to those discussed above regarding suicidal crises. The psychiatrist must also remember his or her obligations to warn potential victims, as established by the 1976 Tarasoff v. Regents of the University of California precedent.

Too many school tragedies have occurred in which students and teachers have lost their lives at the hands of mentally ill students. Many of these tragedies resulted from multisystemic failures of the duty to protect; the mental health system, and psychiatrists in particular, failed to take assertive steps to deal with the psychopathology that was detected or suspected.

As in the case of suicide, the nonavailability of arms should be made a serious issue. The patient’s access to potential weapons needs to be monitored on an ongoing basis.

One of the most difficult issues for the psychiatrist to handle during the feedback phase concerns physical or sexual abuse. The psychiatrist needs to be straightforward and determined when addressing issues of potential physical and sexual abuse. The examiner is obligated to report to the child protective services agency any circumstance of suspected abuse in any form. When the family takes responsibility for a child’s claims of physical abuse, the psychiatrist may guide the family to call child protective services to open a case, with the goal of ensuring the safety of the child (or other children) and of establishing a therapeutic program for effective discipline without the use of abusive punishment.

Families are less open to accepting responsibility for claims of sexual abuse (see Note 2). Mothers often disregard or disbelieve their children’s claims, in part because such an acceptance would mean the end of the marriage or relationship; the mothers may be financially dependent on the perpetrators and cannot risk breaking off the dependent relationship. For some mothers, the awareness that they failed in protecting and caring for their children is very painful and unacceptable. The psychiatrist needs to anticipate the complica-
tions surrounding the disclosure and assist the child and whatever is left of the family in dealing with the complex consequences of sexual abuse.

Because the disclosure of sexual abuse has multiple implications and legal issues, the psychiatrist must contact the child protective services agency. This governmental agency has the charge to implement a safety plan to spare the child from further traumatization and to protect the child from retaliation for the disclosure of abuse. If the psychiatrist makes an assessment requested by a third party, he or she needs to make clear to the parents what kind of feedback or information will be shared with the interested parties. The examiner should similarly handle the detection of parental neglect or related circumstances that imperil children’s physical and mental well-being.

Regarding issues related to special education and other ancillary services, including psychological testing, speech therapy, occupational therapy, and so on, the psychiatrist should advise the family to pursue a deliberate advocacy. Increased roadblocks have been placed to children with special education needs. At times, not even expert assessment and recommendations have any sway (see Cepeda 2007). Frankly stated, schools neglect the timely identification of speech and learning disorders and delay implementation of necessary services. Parents unhappily learn that the promises of the admission, review, and dismissal committees are hollow promises.

Most families are very concerned to learn that their children are involved with drugs or alcohol. Parents might want to know details about their child’s abuse or addiction, but if the child does not want to share this information with parents, the psychiatrist has to oblige. The psychiatrist should inform the family that federal law (“Confidentiality of Alcohol and Drug Abuse Patient Records” 2005) stipulates that issues related to substance abuse are confidential, regardless of the child’s age (see Note 3). The examiner might explain the situation as follows: “One important recommendation I have for your daughter is that she attend a chemical dependency program; unfortunately, your daughter has not authorized me to share the nature or extent of her problem with you. You may find this strange and inadmissible, but the law prevents me from discussing a child’s alcohol or drug abuse with parents. I advise you to talk with your daughter about these issues.”

Families are often ready to seek affirmation for an affective disorder, such as bipolar disorder, which is frequently discussed in the media. On the other hand, families are typically apprehensive about certain psychiatric diagnoses,
including psychotic disorders. Many families have difficulty believing that children could experience hallucinations or harbor paranoid thinking. The examiner can take several actions to decrease the family’s reservations about some of these disorders: the examiner can carry out the child’s mental status examination in the parents’ presence or, as suggested in Chapter 2, “General Principles of Interviewing,” the examiner may allow the parents to take an active role in the exploration of these controversial symptoms.

In discussing therapeutic recommendations, the psychiatrist needs to present the option and consequences of doing nothing. If the parents were to choose this alternative, the psychiatrist, always respectful of the parents’ choice, should request that the family notify him or her if the child’s symptoms were to change. The psychiatrist should emphasize that he or she would like to know if the child gets better or worse. If the child's symptoms worsen, the psychiatrist needs to reconceptualize the case and to consider therapeutic options anew.

The psychiatrist should stress the importance of combined treatments. Accumulated expertise indicates that combined treatments have a larger therapeutic impact than isolated treatments. Even though the effect size for a number of psychiatric disorders in children and adolescents favors psychotropic medications, the importance of psychosocial interventions for those disorders should not be underestimated. For a number of psychiatric disorders, such as posttraumatic stress disorder, anxiety disorders, and mood disorders, psychosocial interventions are fundamental.

Some parents are apprehensive about psychopharmacological recommendations. They are wary of potential side effects, including a medication's impact on level of alertness; cognitive dulling; drug dependency; impact on growth (see Note 4), puberty, and reproductive life; and so forth. These parents prefer to defer psychotropic intervention and advocate for psychosocial interventions first. After educating the parents about the benefits and risks of an intended medication and presenting the benefit/risk ratio of the recommended medications, the psychiatrist needs to respect the parents’ decisions on this matter. The psychiatrist also can consider recommending that the family seek a second opinion to buttress his or her case on the importance of interventions about which the family is apprehensive.

When discussing psychotropic medications, the psychiatrist needs to clearly state the target symptoms and the medication's side effects, present the
benefit/risk ratio, and give the parents and child ample opportunity to ask questions and clarify issues. Asking the parents to repeat what they heard gives the psychiatrist the opportunity to correct misunderstandings and to stress issues that seem ambiguous.

The psychiatrist must stress the need for parents to monitor medication compliance and attend to potential side effects, emphasizing the possibility of serious untoward side effects for each particular medication. The psychiatrist is obligated to discuss, for example, the increased risk of suicidal ideation with antidepressant medications and atomoxetine, cardiological side effects with stimulants and ziprasidone, serious dermatological reactions with carbamazepine and lamotrigine, and severe metabolic side effects with atypical antipsychotics. For patients with a history of substance abuse, the parents need to be extra cautious about storing and administering medications and vigilant about monitoring for strict compliance.

When recommending psychotropic medications to adolescent females, the psychiatrist must make the patient and family aware of hormonal risks (menstrual irregularities), polycystic ovarian disease, and teratogenic risks. In the same vein, the psychiatrist needs to alert the patient that some psychotropic medications, such as carbamazepine, may interfere with the effectiveness of oral birth control, increasing the risk of unwanted pregnancies.

The psychiatrist needs to take the opportunity to advocate for recommended health (regular pediatric and odontological care) and dietary changes, and to promote necessary levels of exercise and hygienic sleep, as well as cultural and spiritual activities. These basic aspects of health promotion should be a common generic recommendation for every child and family. The same is true regarding an open discussion of sexual behavior and contraception, as well the parental need to monitor alcohol and drug abuse.

Last but not least, the examiner needs to advise the family that having a child with behavioral or emotional problems is a source of stress for the marriage. Although the child’s emotional needs must take a higher priority, improving and nurturing the marriage need to be considered important priorities for optimal family functioning.
Notes

1. Nurcombe (2008, p. 6) recommended the following strategies of diagnostic reasoning:
   - Tolerate uncertainty; avoid premature closures and consider alternatives.
   - Separate cues from inferences. Refer inferences to salient cues.
   - Be aware of personal reactions to the patient (countertransference).
   - Be alert to fresh evidence that may demand a revision or deletion of a hypothesis or diagnosis.
   - Value negative evidence above positive evidence.
   - Be prepared to commit to a diagnosis when enough evidence has been gathered.

2. Generally, a disclosure of sexual abuse within the family has devastating consequences for the family and the parental relationship. If a parent is involved, the parents’ relationship is unlikely to survive the consequences of such a transgression.

   Furthermore, the consequences of the disclosure add further trauma for the abused child: the family is fragmented; family rifts occur; and depending on the mother’s response, the child could lose both parents and the family as a whole when the child is separated from his or her siblings and home, at a time when the child needs the most support. In addition, some family members may become accusatory toward the child; under these conditions of immense pressure, the child may begin to think that the disclosure was wrong and that he or she is being punished for a wrong deed. Some children feel that recanting is a logical next step under these circumstances.

   A mother’s response may be strongly emotional when the disclosure is new. I have witnessed serious and dramatic reactions when mothers first learn about the abuse by their husbands. Mothers have exhibited a variety of reactions, including acute psychosomatic responses (e.g., sudden and intense vomiting), panic attacks, sudden depressive reactions, and intense rage accompanied by homicidal urges toward the spouse.

3. If a minor is acting alone, only he or she can provide written authorization to disclose medical records, including disclosure to the parents. Individual
states have their own laws concerning minors seeking treatment. The Texas Commission on Alcohol and Drug Abuse Web site compares the Health Insurance Portability and Accountability Act of 1996 (HIPAA), 42 CFR, and state regulations. Texas state law does not require parental consent for drug abuse treatment, and written authorization is required for disclosure of confidential information to parents. Under the same provisions, if a minor signs himself or herself into treatment, he or she may consent to examination and treatment for chemical dependency or any condition associated with chemical use.

4. Intake of conventional stimulants (methylphenidate or dextroamphetamine derivatives) is associated with a small but statistically significant reduction of height and weight gain rates in children. The magnitude of the impact is dose related, and height and weight rates increase when the stimulants are discontinued. Studies show that after 2–3.5 years of stimulant intake by children, they have a decrement in height of 1–2.5 cm and a decrement in weight of 0–5 kg (0–10 lb) compared with prestimulant treatment predictions (Towbin 2008, p. 977). The Pediatric Advisory Committee recommends strong warnings regarding the use of stimulant medications in patients with underlying structural cardiovascular defects or cardiomyopathies (Towbin 2008). The guidelines are not clear regarding whether an electrocardiogram baseline should be requested prior to initiation of stimulants. A small subgroup of children with cardiac disorders carry an elevated risk for pediatric sudden cardiac death, regardless of whether they receive stimulants. The American Heart Association notes that most cardiovascular disorders or congenital heart diseases are not absolute contraindications to stimulant use (Towbin 2008, p. 979).

References


Tarasoff v Regents of the University of California, 131 Cal Rptr 14, 551 P2d 334 (1976)

Recommended Readings

Evaluation of Special Populations

Key Points

- Various medical conditions and socioeconomic situations can pose a challenge to the diagnostician.
- The examiner needs broad familiarity with and sensitivity to these various circumstances to achieve an optimal diagnostic engagement with children and families from different backgrounds and medical-neurological genetic circumstances.

In this chapter, I discuss some brief general principles about evaluating children who have certain medical conditions or who live in specific socioeconomic circumstances. In general, children who grow up in adverse circumstances or endure traumatic incidents (natural catastrophes, burns, etc.) experience clear developmental interferences (see Chapter 12, “Comprehensive Psychiatric Formulation”). The same is true for children who have sensory deficits such as deafness or blindness. The psychiatrist needs to recognize the nature of the developmental interferences and attempt to correct or ameliorate them.

Children With Serious Acute or Chronic Medical Illness

A chronic medical illness constitutes a true developmental interference (see Chapter 12, “Comprehensive Psychiatric Formulation”). Children with se-
vere acute medical illness may not understand the seriousness of their predic-
ament. They might feel sick and be aware that something is wrong, but they
rarely consider the possibility of death or the implication of the disease as the
parents do. Parents of children who face a sudden or fulminating illness go
through an acute stress reaction, if not a state of shock, and may have to con-
tend with the possibility of the child’s death. This experience is very traum-
atic. Parents need a great deal of emotional support and ongoing sensitive
feedback about how the medical condition is unfolding. “Parents should re-
ceive a full explanation of the cause, nature, treatment, and prognosis of the
disease. They may have a false, unhelpful sense of responsibility for the illness,
particularly if they are carriers of what proves to be a genetic disease” (Nur-
combe 2008, p. 677). In cases of a child’s impending death, parents need as-
sistance with the forthcoming loss and guidance as to how to communicate
with the child. “Regression is a normal reaction to acute physical illness. Phys-
ically ill children become more dependent, clinging, and demanding. Youn-
ger children may revert to bedwetting and immature speech. Preschool
children may interpret the illness as a punishment for something they have
done” (Nurcombe 2008, p. 675). Parents with a prior psychiatric history are
particularly vulnerable to responding to the child’s health crisis by reverting
to previous psychopathological conditions (depression, anxiety, etc.) or by re-
lapsing into alcohol or drug abuse. “Some parents react initially with denial.
Others react by becoming overprotective, by having unrealistic expectations
for improvement, by withdrawing, or by rejecting or abandoning the child.
Latent tensions between parents can be aggravated and, at times, separation
or divorce [is] precipitated” (Nurcombe 2008, p. 677). The psychiatrist
should be attentive to these parental reactions and attempt to deal with them
in a timely and pertinent manner.

Children With Burn Trauma

Of all people who experience burns in the United States, 34% are children
(Stoddard et al. 2006). Fire-related injuries are the third leading cause of un-
intentional injury. Posttraumatic stress disorder (PTSD) is a frequent result of
burn injuries in children. Burns are also associated with a number of other
psychiatric conditions, including overanxious disorder, phobias, and enuresis
(Saxe et al. 2005). Saxe et al. (2005) found two pathways to PTSD following burns: from acute separation anxiety and from dissociation. The magnitude of the trauma, or the size of the burn, was not related to PTSD directly but exerted influence through both pathways. The pathway mediated by separation anxiety was influenced by the acute pain response and the burn size, and was inversely related to the child’s age. The pathway of dissociation was influenced only by the size of the burn. The independence of the anxiety and dissociation pathways suggests that different biobehavioral systems contribute to PTSD (Saxe et al. 2005). Two biological theories explain children’s response to trauma: the fight or flight response (a response involving the sympathetic nervous system and the hypothalamic-pituitary-adrenal axis) and the freeze/immobilization response (controlled by the parasympathetic system) (Saxe et al. 2005).

The nature of the burn and the prolonged recovery process impose stressful separations between the child and the parents when the child has a great need for help and comfort. Children who experience the greatest anxiety on separations are the most likely to develop PTSD. The implication is that burn trauma, like all trauma, has a very important interpersonal component (Saxe et al. 2005). The degree of dissociation shortly after the burn is a predictor of PTSD. Dissociation is considered a parasympathetically mediated response that occurs after exhaustion of sympathetically mediated defenses or coping mechanisms. Change in vagal tone, a well-documented parasympathetic marker, is associated with PTSD. Situations of extreme threat may lead to the parasympathetically mediated shutting down of emotions phenotypically observed as dissociative symptoms and prospectively related to PTSD (Saxe et al. 2005). The implication of the study is that in the treatment of burn children, the parents should be encouraged to be around their children for comfort and reassurance, and that optimal treatment of pain with opiates could forestall the development of PTSD (Saxe et al. 2005).

In a study of 52 children younger than age 48 months, Stoddard et al. (2006) observed a 29% rate of acute stress disorder: 80% met criteria for re-experiencing, 62% for avoidance, and 39% for arousal. The authors found two direct pathways to acute stress symptoms: from pulse rate ($\beta=0.43$) and from parents’ symptoms ($\beta=0.47$). Pulse rate was a mediator between total burn surface area and acute stress symptoms, and parents’ symptoms were a mediator between pain and acute stress disorder. Pulse rate, increased as a re-
sult of a hyperadrenergic state at the time of trauma, has been predictive of PTSD. The hyperadrenergic state may be involved in the consolidation of traumatic memory manifested in memory intrusion and reexperiencing. Recall leads to a rerelease of catecholamines and stress hormones, resulting in an enhancement of the traumatic memory (Stoddard et al. 2006). The level of pain has repeatedly been associated with PTSD in children with burns and nonburn injuries. Pain seems to exert its influence via the parents’ acute stress symptoms. If the caregivers become symptomatic themselves and are less able to provide soothing and reassurance due to being overwhelmed, or if the parents use avoidance or other mechanisms, they may have a deleterious influence on the child (Stoddard et al. 2006).

The child psychiatrist needs to assess how the child and parents are dealing with the burn injury and how they are participating in and coping with medical care. The psychiatrist needs to be sensitive to the child’s pain and separation anxieties, as well as other forms of distress, such as eating or sleeping problems, emotional withdrawal, and so on. Furthermore, the psychiatrist needs to be attentive to the parents’ emotional state and to their availability to the child’s needs of succor, comfort, and reassurance. Equally important for the child psychiatrist is his or her role as liaison with the burn treatment team to maximize optimal comprehensive healing so as to minimize physical and emotional scarring.

**Children With Sensory Deficits**

Sensory deficits constitute significant developmental interferences (see Chapter 12, “Comprehensive Psychiatric Formulation”). Developmental risks are decreased with early detection and intervention.

**Hearing Impairments**

Rates of psychopathology are increased in children with hearing impairments, but the majority of these children do not have a mental disorder. Because children who are deaf rely a great deal on visual communication, the interviewing room should be optimally lit to permit lipreading. Only 25% of verbal communication can be inferred by lipreading patterns alone, and deaf persons frequently make educated guesses. Foreign accents make the effort at
understanding even harder (Hindley and Salt 2007). Children with hearing loss have a higher rate of neurological disorders, and the rate of psychiatric disorders is correlated with the severity of the hearing loss (King et al. 2006). Unless the examiner is fluent in American Sign Language, he or she should engage the services of a professional sign language interpreter, optimally with experience in mental health.

The attachment process of children with hearing impairments needs to be explored. Documented observations indicate that the relationships of mothers with their deaf children are less than optimal, interfering with a secure attachment. Also, fathers of deaf children tend to be less involved in child rearing. Mothers of children with hearing impairments have been described as more rigid, more intrusive, and more negative, and their children have been described as less active, less responsive, and less involved. Sensitive mothers promote more vocabulary development between ages 2 and 3 years than less sensitive ones, and mothers’ sign language proficiency and attitude toward deafness are positively correlated with a positive sense of the children’s attachment to their mothers by middle and late adolescence; this in turn is related to the adolescents’ self-concept and social adjustment (King et al. 2006). The quality of father-child attachments and the assessment of the quality of fathers’ involvement in the upbringing of deaf children are areas that need to be explored.

Common disorders encountered in individuals with hearing impairment include disruptive symptoms, oppositional defiant disorder, attention-deficit/hyperactivity disorder (ADHD), intellectual and language deficits, seizure disorders, and anxiety and depressive disorders. Determination of a thought disorder and of reality testing problems in deaf children is problematic (Hindley and Salt 2007). Risk factors for deaf children include academic failure, low self-esteem, inconsistent discipline, failure of age-appropriate development, and sexual and physical abuse (King et al. 2006).

**Visual Impairments**

Parents typically respond with shock and disbelief when told that their child has a severe visual impairment. Parental distress and lack of understanding likely result in a decreased interaction with the baby. Parents have difficulties attending to and supporting the areas the blind child is concentrating on. Par-
ents and child must have a greater reliance on touch and proximity. Children who are blind depend on a “stream of language” to gain information about the world (Hindley and Salt 2007).

In assessing a child with visual impairment, the examiner looks for evidence of developmental delays and considers the state of language development. Many aspects of delayed development are not the result of visual impairment but rather of the environment and specific conditions associated with visual impairment: 77% of children with visual impairment have additional impairments (Hindley and Salt 2007). Early intervention is aimed at optimizing development, visual function, and the quality of the child’s environment. During crucial early brain development, visual impairment may have an impact on functional organization and reorganization of the cortex through template formation and networking, as well as on the visual cortex. Mental retardation is 5–10 times higher in children with visual impairment than in a sighted population (Hindley and Salt 2007). Visual impairment may compromise motor and perceptual development, as well as language and cognitive development, producing academic retardation. Also, delays in social and emotional development may cause difficulties in establishing intimate and long-lasting relationships (Hindley and Salt 2007). Children with visual impairment demonstrate higher levels of psychopathology than sighted peers. Up to 57% of children with visual impairment show psychiatric or cognitive disorders, and one-third of them display mental retardation or a developmental delay. Autistic regression is more common in children with visual impairment (1 of 72) than in sighted children (0.05–2 of 10,000; Hindley and Salt 2007). Furthermore, autistic-like features (“blindisms”) are more common in children with visual impairment than in sighted ones (Hindley and Salt 2007). One survey of 24 congenitally blind children drawn from special schools found that half of the sample of those ages 3–9 years met criteria for autism. Also, some blind children do not have autism but display marked interpersonal difficulties (King et al. 2006).

A number of habits such as “eye pressing,” “overlooking,” and “blind-sight” are peculiar of children with visual impairment (King et al. 2006).

During the data gathering phase of psychiatric assessment, the examiner needs to emphasize the impact of early mother-child interactions, early sleep difficulties, perception of social cues, and separation anxiety. Parental over-protection interferes with personal and sexual development during adoles-
The examiner needs to expect to have more physical contact with blind children than with sighted ones. A physical examination and a neurological assessment are very important, given the frequency of additional impairments in blind children (King et al. 2006).

### Children With Neurodevelopmental Disorders

Neurodevelopmental disorders, which are typically diagnosed during childhood, cause lifelong and characteristic impairment of socialization, communication, and behavior (Posey and McDougle 2008). A number of neuropsychiatric and neurodevelopmental issues are covered in Chapter 11, “Neuropsychiatric Interview and Examination.” In this section, I highlight broad philosophical and ethical issues involved in the diagnosis and management of neurodevelopmental disorders. Because optimal functionality is a desirable outcome, some comments about functional assessment are included; this type of assessment is necessary for a comprehensive rehabilitation program for children with neurodevelopmental disorders. Brief descriptions are provided of mental retardation, cerebral palsy, and a number of neurogenetic disorders.

Categorization of persons with developmental disabilities has been narrow and has left out significant dimensions of the persons with these conditions. These “classification procedures and standards fail to regard the whole person; they produce only a limited picture of the person and thus also fail to identify the ways in which the person can function and participate in various activity with and without reasonable accommodations or individual and appropriate services” (Turnbull et al. 2007, p. 24). Persons with disabilities have the right to empowerment and participatory decision making; service coordination and collaboration; liberty; protection from harm; autonomy; privacy and confidentiality; integration, productivity, and contribution; family integrity and unity; family-centered services; culturally responsive services; accountability; personal and professional and system capacity development; and prevention (Turnbull et al. 2007). In assessing an individual with a neurodevelopmental disorder, the examiner has two equally important goals: 1) identifying the individual’s deficits and limitations and 2) determining the person’s functional capacities.
The World Health Organization’s International Classification of Functioning, Disability and Health (ICF) and its revision for children, the International Classification for Functioning, Disability and Health—Children and Youth (ICF-CY), were approved in 2001. The two versions of the ICF provide a framework for classifying functioning and disability. Functions in the ICF include all body functions, activities, and participation; disabilities involve problems in these three levels of functioning (impairment at the body function level, limitation at the personal activity level, and participation restrictions at the society level; Lollar 2008). The three levels of functioning are influenced by environmental and contextual factors. The purpose of the ICF and ICF-CY is to provide clinicians and researchers with a unified, standard framework and language to describe outcomes at the levels of body, person, and society, giving the opportunity to identify and characterize separate behaviors currently integrated in one diagnostic category, such as ADHD. Outcomes at different levels are distinguished more clearly in the ICF-CY, allowing a clearer identification of functioning related to diagnosis and changes in function related to interventions (Lollar 2008).

In working with children with neurodevelopmental disorders, the child psychiatrist attempts to identify the nature and extent of the deficits and the psychological and compensatory reactions to them. The child psychiatrist attempts to elucidate how the child and family cope with the deficits and what evidence of resilience they demonstrate in dealing with the impacts of those deficits. The psychiatrist also monitors the child’s and family’s compliance with the rehabilitation plan.

Mental Retardation

Sundheim et al. (2006) warned about two frequent pitfalls in the diagnostic process of individuals with mental retardation: 1) *diagnostic overshadowing*, which refers to using the diagnosis of mental retardation as the explanation for whatever is wrong with the patient instead of using standardized diagnostic criteria, and 2) *diagnostic presumption*, which refers to the assumption of a psychiatric diagnosis based exclusively on the association with mental retardation. According to Sundheim et al. (2006), patients with mental retardation have trouble verbalizing their difficulties. They might express their reaction to some illnesses that cause pain with irritability, aggression, and self-
abusive behaviors; these ailments demand timely identification and treatment. The authors stressed that optimal neuropsychiatric assessment for persons with mental retardation should be carried out in the context of a diagnostic team: pediatricians and other physician specialists, educators, and behavioral specialists. Although most people with developmental disabilities can communicate with words, when working with patients with mental retardation, the examiner may need to modify the interview to work around the linguistic limitations. Nonverbal patients develop ways of expressing themselves, and the strategies they use may be troublesome enough to be the reason for the referral. Collateral information is necessary. However, systematic observation of the patient is fundamental for understanding the behaviors in question and for developing an effective communication. This means that even for patients with communication difficulties, the mental status examination remains indispensable. In lieu of verbalization, the individual with mental retardation may be able to use sign language, respond to yes-no questions, answer structured questions, or use a picture book or other media to facilitate the interview. Subjective experiences may be cautiously inferred from facial expressions and body language (Sundheim et al. 2006).

Cerebral Palsy

Cerebral palsy is characterized by changes in muscle tone (mostly spasticity or rigidity), muscle weakness, involuntary movements, ataxia, or a combination of these abnormalities, resulting from brain dysfunction. Cerebral palsy is neither episodic nor progressive; the full extent of the motor disabilities is evident by age 3–4 years. Intellectual, sensory, and behavioral difficulties may accompany cerebral palsy but are not included in the diagnostic criteria. Of children with cerebral palsy, 52% have mental retardation, 45% have epilepsy, 38% have speech and language disorder, 28% have ophthalmological defects, and 12% have hearing impairment. Preterm infants constitute 50%–60% of all infants with cerebral palsy (Swaiman and Wu 2006). Prevalence of psychiatric disorders in individuals with cerebral palsy is three to five times higher than in controls, but no one psychiatric disorder is typical (Nurcombe 2008).

The child psychiatrist is commonly involved in the evaluation and treatment of the emotional and behavioral problems of children with cerebral
The psychiatrist plays a major role in the comprehensive assessment of the multiple deficits of these children and in the coordination of care, including physical therapy, occupational therapy, speech therapy, neurological follow-ups, specialized education, and pertinent diagnostic and psychiatric care (including individual and family psychotherapy and psychotropic medication monitoring).

Major issues for the child with cerebral palsy are problems with self-image and with a sense of competence, and issues and problems with socialization. The psychiatrist needs to explore broad issues of family functioning, paying special attention to how the family copes with the child’s multiple needs and how the family complies with treatment plans and the implementation of multiple interventions. The psychiatrist also needs to monitor how the family handles the ambivalence of dealing with a needy and multihandicapped child and how the family manages emotional and financial resources in dealing with the other children.

**Neurogenetic Disorders**

Behavioral neurogeneticists look for etiologically defined and relatively homogeneous genetic syndromes, including fragile X syndrome, Prader-Willi syndrome, Turner syndrome, Williams syndrome, Rett syndrome, and others. The neural mechanisms underlying the maladaptive cognition, psychiatric symptoms, and abnormal behaviors of these syndromes can be systematically investigated (Gothelf 2007). The child psychiatrist attempts to promptly identify these syndromes and to foster a timely and coordinated treatment of the identified disorder.

A number of behavioral phenotypes have been identified as originating from specific gene deletions or mutation syndromes that result in genetic neurodevelopmental disorders. These disorders represent distinctive patterns of cognitive and behavioral features and congenital medical sequelae (Feinstein and Singh 2007). According to Feinstein and Singh (2007), The genetic neurodevelopmental disorders have a far better understood, biologically validated genetic origin and phenotypic specificity than do the less validated psychiatric disorders, which are described in the *Diagnostic and Statistical Manual of Mental Disorders, 4th Edition, Text Revision* (DSM-IV-TR; American Psychiatric Association 2000). Endophenotypes refer to measurable traits associ-
ated with underlying susceptibility genes. The traits are associated with illness, are heritable, are state independent (i.e., they are present even when the illness is not active), and cosegregate within families of probands (Feinstein and Singh 2007).

**Fragile X Syndrome**

Fragile X syndrome is the most common genetic cause of mental retardation and developmental delays. It is present in 1 in every 4,000 boys and 1 in every 6,000–8,000 girls and is caused by an expansion mutation of the *FMR1* gene of chromosome X. Symptoms are more severe in boys than in girls. The fragile X syndrome behavioral phenotype includes cognitive deficits and behavioral abnormalities: ADHD, gaze aversion, hand flapping, and hand biting. The social phenotype in boys consists of social withdrawal, anxiety, high emotionality, poor eye contact, atypical speech, and theory of mind impairment (Feinstein and Singh 2007). A substantial proportion of boys with fragile X syndrome (25%–47%) meet criteria for autism (Feinstein and Singh 2007).

**Down Syndrome**

Down syndrome is caused by trisomy of all or a critical portion of chromosome 21. It is the most common chromosomal cause of mental retardation and occurs in 1 in 1,000 live births. Down syndrome is associated with distinctive facial features, congenital heart disease, duodenal stenosis, and mental retardation. Children with Down syndrome tend to be affectionate and engaging. Adults with Down syndrome, compared with age- and IQ-matched adults with learning disabilities, had lower prevalences of aggression, antisocial behaviors, property destruction, night disturbances, attention seeking, untruthfulness, hyperactivity, and excessive noise. Despite having language impairment, the adults with Down syndrome had social communication and relationships that were comparable to those of the adults with learning disabilities. Of children with Down syndrome, 7%–10% meet criteria for autism (Feinstein and Singh 2007).

**Prader-Willi Syndrome**

Prader-Willi syndrome is a genetic disorder that usually involves a deletion or uniparental disomy in chromosome 15. It has a prevalence of 1 in 10,000–15,000 births and is characterized by hyperphagia, hypotonia, hypogo-
nadism, mental retardation, short stature, small hands and feet, developmental delays, and distinct facial features. Traits described in Prader-Willi syndrome include stubbornness, tantrums, aggressive behaviors, disobedience, talkativeness, and antisociality. Compulsive behaviors not related to food have been identified, as have asociality, argumentativeness, and verbal and physical aggression (Feinstein and Singh 2007).

**Smith-Magenis Syndrome**

Smith-Magenis syndrome is a genetic disorder associated with a deletion of band 17p11.2. The typical phenotype includes brachicephaly, midface hypoplasia, prognathism, hoarse voice, speech delay, psychomotor and growth retardation, and behavior problems. The syndrome is estimated to occur in 1 in 25,000 births. Maladaptive behaviors include emotional lability, argumentativeness, destructiveness, attention seeking, and physical aggression (Feinstein and Singh 2007).

**Turner Syndrome**

Turner syndrome is a genetic disorder associated with partial or complete absence of one of the two X chromosomes in a phenotypic girl. The prototype includes short stature, webbed neck, renal dysgenesis, and heart malformations. Females with Turner syndrome have difficulties in social maturity, social cognition, social relationships, and self-esteem (Feinstein and Singh 2007).

**Williams Syndrome**

Williams syndrome is a rare genetic disorder caused by a microdeletion on chromosome 7q11.23. It is characterized by hypercalcemia, special facies, hyperacusis, and abnormalities of the heart, muscle, and kidneys, in addition to mild to moderate mental retardation (Feinstein and Singh 2007). Hypersociability is a hallmark of the Williams syndrome social phenotype. Individuals with Williams syndrome are also socially anxious and by adult age have failed to develop and maintain friendships and suffer from unsatisfying peer relationships (Feinstein and Singh 2007).

**Velocardiofacial Syndrome**

Velocardiofacial syndrome has a prevalence of 1 in 4,000 and is associated with a microdeletion of the chromosome region 22q11.2. Most cases are de
novo mutations. Symptoms include cleft palate, velopharyngeal insufficiency, cardiac defects and distinctive facial features, reduced intelligence, and a dramatic delay in early language development. Individuals with velocardiofacial syndrome have receptive and higher-order language deficits, as well as abstract reasoning and visual-spatial deficits. Younger children display mood lability, social withdrawal, awkwardness, shyness, ADHD, anxiety, and disinhibited behavior. Approximately 30% of individuals with velocardiofacial syndrome develop psychosis (schizophrenia, schizoaffective disorder) by adolescence or young adulthood, accounting for about 2% of the schizophrenia cases (Feinstein and Singh 2007).

**Rett Syndrome**

Rett syndrome is a severe X-linked dominant neurodevelopmental disorder affecting postnatal brain growth. It is the second most common cause of genetic mental retardation in girls and the first pervasive developmental disorder with a known genetic basis. The prevalence of Rett syndrome is approximately 1 in 10,000–22,000 in the general population. Usually, mothers of girls with Rett syndrome have an uneventful pregnancy and delivery, and the daughters develop normally until about age 6 months. A deceleration of head growth from around age 4 months onward usually results in microcephaly. This period is followed by a developmental regression that includes social withdrawal, loss of purposeful hand usage coinciding with the appearance of stereotypic hand movements, and loss of acquired speech and language abilities. Gait apraxia and ataxia are common (Ben Zeev Ghidoni 2007). Epilepsy is reported in 90% of girls with Rett syndrome.

Linkage to the Xq28 region has been demonstrated, and the methyl CpG binding protein 2 has been identified as the gene responsible for Rett syndrome. Mutation of this gene has been observed in up to 95% of classical cases (Ben Zeev Ghidoni 2007). Rett syndrome is a part of the DSM-IV-TR autism spectrum disorders (Ben Zeev Ghidoni 2007).

**Children Living in Poverty**

Children who live in families at the poverty level experience a multiplicity of adversities that become major developmental interferences: inadequate nutrition, poor pediatric care, low-quality schooling, family stress, abusive discipline,
and so forth. The core interference for children with poverty is deprivation in a variety of forms.

Because the psychiatrist may become the primary physician for many of these children, he or she needs to be attentive to these children's basic health needs and to help their families navigate the complex health care system. Basic nutrition and hygienic habits should not be assumed. The psychiatrist cannot take for granted that these children receive basic pediatric or odontological care. The psychiatrist needs to make efforts to help these families procure such services. In the same light, the psychiatrist needs to know that poor families depend on public and arranged transportation services and often need to schedule accommodations to meet their needs. Literally, many of these families need to be taken by the hand.

Another hurdle that poor families must surmount involves special education services for their children. Educational systems often deprive poor children of the needed services to which they are entitled. The psychiatrist needs to take an active advocacy role to secure the special services that children require.

**Minorities**

A major developmental interference for children of minority populations is centered on overcoming scapegoatism and stereotyping. These children struggle against powerful social barriers and are under an ongoing need to prove themselves and to fight discrimination.

Minority status is often associated with socioeconomic disadvantages, such as poverty, mediocre schools, and lack of access to medical care. Therefore, the child psychiatrist needs to be attentive to this population's satisfaction of basic needs, such as food and shelter, medical care, and quality of education. The psychiatrist also needs to be diligent about detecting neglect or physical or sexual abuse while maintaining respect for the mores or culture of each particular family. The minority child is frequently ostracized by peers and has particular difficulties in building friendship bridges with members of the dominating majority group. The psychiatrist needs to systematically explore with a child any issues of identity, problems with self-esteem, issues with self-doubt, and concerns with belonging and lovability.
Adaptation and acculturation to a new society and culture are especially complicated and conflictive if the social group of the family is perceived with suspicion. Such is the case with Arab Americans, particularly after September 11, 2001. At schools, Arab American children have suffered increased discrimination, bullying, and ostracism. Other students frequently have misperceptions and negative stereotypes about Islam, as well as a negative attitude toward Arab American culture and tradition, such as wearing the hijab (headscarf; Britto 2008). For some immigrants, skin color is the primary dimension around which ethnicity is defined (Britto 2008). The multiple dimensions of an Arab Muslim identity include an ethnic Arab dimension that has strong cultural, historical, and social components; a religious component with which it is inextricably linked; and gender issues (e.g., behavioral expectations for Arab Muslim males are significantly different from those for Arab Muslim females). The current U.S. climate is conflict laden (unsupportive and discordant, if not antagonistic) regarding the identity formation of Arab Muslim youth (Britto 2008).

The child psychiatrist needs to be sensitive to the process of acculturation and, in dealing with children and their families, must attempt to implement culturally sensitive interventions. Implementing specific culturally sensitive treatments is difficult in dealing with patients from different cultures. Some studies have found that tailoring interventions for specific populations can increase their effectiveness, but other studies have found that cultural adaptations of interventions dilute the effectiveness of the original treatments, even though retention is improved (Ngo et al. 2008). Important cultural issues that need to be integrated into any treatment include help-seeking preferences, expressions of distress, communication styles, migration experiences, family values, and sociopolitical history. These concepts are central to understanding the experience of specific populations (Ngo et al. 2008).

**Children in Out-of-Home Placement**

A fundamental need for every child is to grow in a family environment surrounded by loving parental figures. This is the sine qua non prerequisite of the indispensable process of attachment, without which working models of adaptive behavior are unlikely (see Chapter 12, “Comprehensive Psychiatric Formulation”). In the soul of most children living away from home is the un-
ending longing to return to the family of origin. This craving for the family is expressed in daydreaming, in fantasy life, and above all in the relationship with the parental substitutes. Many of these children develop tenacious attachments to the original parents, no matter how negative their life experiences were. Children with tenacious attachments to the original parents keep a strong loyalty to them and refuse emotional investments in any parental substitutes.

A distinction could be made between children living outside of their home environments temporarily and those living away from the family of origins permanently. For those living away from home for a limited time, the separation from the family causes only a temporary emotional pain (but may leave enduring negative consequences); they hope and expect that they will return home. The situation is different for children separated from their families permanently—that is, those whose parents’ rights have been terminated. Some of these children dream of turning age 18 and exercising the freedom to reunite with their progenitors. The examiner needs to keep the strength of this bond in mind. Only by understanding the nature of such an attachment can the examiner decipher the problem the child displays with substitute parents and in alternative home environments. A related dynamic is commonly present in many failed late adoptions.

The factors that motivated the removal from the family of origin influence the children’s psychological organization and rationalization of the events. Many children defend their parents’ abusive or neglectful behaviors by minimizing or rationalizing the behaviors, or by denying parental misconduct all together. Children removed for sexual abuse are left with a number of psychological scars: the guilt that they caused the family breakup, and the sense that they were violated and that their abuse is not aggrieved. The impact of the abuse is worse when girls disclose the abuse, and their mothers do not support them or do not believe their claims (events that unfortunately are not uncommon). These children feel betrayed, violated, and utterly alone, firmly believing they cannot trust anybody. For these children, exploration of abusive issues is strongly opposed.

Many boys who were physically abused by their fathers or surrogate figures become violent and harbor persistent feelings of vengeance. These sentiments are intensified if the children, in addition to their own victimization, have witnessed parental abuse against their mothers or siblings.
Reactivation of memories of abuse brings strong feelings of anger, for which these children have limit controls. In working with both physically and sexually abused children, examiners need to respect children’s reservations or fears of verbalizing these events, and they need to be cognizant of the risks of opening the gates of bad memories. Not being sensitive to these fears may destabilize a child, unleashing aggression and other acting-out behaviors; also, the reactivation of traumatic memories may stimulate the emergence of severe regression, which complicates and extends emotional suffering and maladaptation. The examiner should make efforts to strengthen the child’s adaptive behaviors and to deal with the traumatic past as it surfaces rather than dealing with the abusive past head on.

Most children in the custody of child protective services agencies harbor deep resentments against the system or systems that promoted the family breakup. Most of these children blame child protective services and the judges for the separation from their families. Despite clear prohibitions against contacts with the abusive parental figures, many children find ways of secretly talking or having in-person contact with their parents.

The psychiatrist needs to be attuned to the child’s longing to be reunited with the original family and wish to recover his or her lost family. The psychiatrist should also be cognizant of the child’s tenacious attachment to the original parents and realize that the child’s ongoing difficulties with substitute parents indicate a sign of loyalty to the biological parents.

**Migrants**

Migrant children spend a few weeks or months in one place and the next somewhere else. These children do not have a stable learning environment, and those who attend school must repeatedly readapt to various school environments. Also, these children have difficulty establishing long-lasting bonds to peers and to the local schools because they are on the move. Migrant families form strong close nexuses among themselves, and for many of them, the opportunities for socialization become endogamic. Many migrant children have academic retardation and difficulties with English proficiency; others have a number of cognitive deficits or learning disorders that elude identification and remediation. Migrant families straddle the poverty line and lack
basic medical services. As in working with children from poverty-level families, the examiner needs to pay closer attention to the migrant children’s most basic needs and to medical and odontological care. If the child is from a family of undocumented immigrants, in addition to the cited disadvantages is the ongoing fear of detection and extradition that frequently results in dismembering of the families.

**Displaced and Refugee Children**

Families sometimes are forced to leave familiar environments because of political reasons or natural disasters. In the United States, massive displacements of families have occurred as a result of natural catastrophes, such as when Hurricane Katrina inundated New Orleans in 2005. Displaced families are removed from their supportive networks, and many families become dismembered during the mobilization; worse yet, many children get separated from their parental figures. Displaced families are under extraordinary stress and in need of global supports. Displaced families need shelter and food, recreation, and other basic needs; these families are frequently housed in crowded dwellings that lack opportunities for privacy and intimacy. Many of the temporary camps lack amenities for distressed children; these accommodations are not the most auspicious environments for the families to comfort and settle their anxious children.

Under such immense stress, many families break down. Then, secondary to the family malfunction, many children start to display maladaptive behaviors, leading to a referral for a psychiatric evaluation and intervention. For children without prior maladaptive behaviors, adjustment reactions and acute stress disorders are common explanations.

For children with prior psychiatric history, who are already vulnerable to stress, the additional stress of displacement aggravates previous psychopathology or reactivates previous psychiatric disorders. These displaced children often show maladaptive behaviors in the school environment and in relating to unfamiliar peers and teachers. Areas the examiner needs to explore include the intactness of the family, the family’s ability to cope with the precipitating stress, and the family’s need to communicate with close friends and relatives. The examiner may ask the child questions such as the following: Are you liv-
ing with your parents now? Are your siblings with you? Where is the rest of the family? Tell me what happened that made your family move from where you were living before. How did your family get out? If the family is dismembered, the examiner should ask additional questions: Where is your mom? Where is your dad? Where are your siblings? When was the last time you heard from them? How can you get in touch with them? How is everybody in the family doing now? Other important questions relate to the child’s general health, such as whether the child is able to sleep.

**Issues of Posttraumatic Stress Disorder Related to Terrorism**

Armed conflicts provide an ecological shock or destabilization that creates a culture of violence that damages child protection and support at multiple interacting levels (Boothby 2008). Available evidence suggests a clear relationship between exposure to violence and the onset of traumatic symptoms; however, a number of children do not develop symptoms, likely due to protective factors that may buffer potentially harmful experiences. Findings are consistent with related research in traumatic stress. Variables such as the nature of the violent event, the availability of family and social supports, the meaning of the violent experiences, and the range of coping strategies and available resources all seem to play a role in the long-term impact of the violence on children’s development. An additional factor is the extent to which acts of violence result in the loss or incapacitation of the children’s parents or caretakers (Boothby 2008).

The importance of *polyvictimization*—that is, exposure to multiple adversities and multiple traumatic events—is something that the evaluator needs to keep in mind. Any type of child victimization increases future vulnerability for revictimization. Polyvictimization is probably the norm for children who have been exposed to chronic situations such as war, child abuse, and domestic violence (Cohen 2008).

In working with refugee children and adolescents, the psychiatrist needs to consider the possibility of torture. The examiner needs to explore the exposure of the child and his or her family to war trauma or political persecution, and to keep in mind that the child may have prior exposure to other
kinds of trauma, including neglect and physical and/or sexual abuse. The psychiatrist should identify the diverse nature of the traumas and take measures to address each traumatic event comprehensively and in coordination with other complementary approaches.

The psychiatrist should keep in mind that social supports (family, schools, peer relationships, and religious supports) buffer the impact of terrorism (Henrich and Shahar 2008). These beneficial areas need to be explored, promoted, or strengthened.

**Illegal Immigrants**

U.S. Immigration and Customs Enforcement has established a number of immigration detention facilities for illegal (undocumented) immigrants who have been caught attempting to enter the country illegally. Within the United States, more than 5,000 children annually are held in immigration detention facilities. The U.S. government has an ongoing commitment to keep detained family groups together; in 2006, a 512-bed facility was opened in Texas for family detention (Newman and Steel 2008).

Some adolescents come without their families to the United States from Mexico and many Central American countries; they do not speak English, have low academic education, and come from low socioeconomic backgrounds. Their backgrounds and their efforts to reach the United States are extraordinary. Leaving their homes and familiar lands, most of these children flee from appalling family circumstances, and most go through incredible ordeals to reach the U.S. border. Many fall prey to “coyotes” and sexual predators; some female adolescents are sexually exploited and forced into prostitution. Not surprisingly, child asylum seekers arrive with a range of experiences that put them at high risk for psychological distress and for the development of mental disorder (Newman and Steel 2008).

After being placed in the detention centers, these adolescents face reality, and their dreams of settling in the United States promptly vanish. Being in a foreign land, away from their supportive networks, in close quarters, unable to speak the language of their custodians, unable to make their needs understood, and facing a return to their country of origin, some of these youth break down. Some of these adolescents become suicidal or psychotic. Under
these conditions, the detention facilities request a psychiatric evaluation for these adolescents.

Non-Spanish-speaking psychiatrists require the assistance of a competent and fluent translator. Even Spanish-speaking psychiatrists may be challenged because these adolescents use slang and colloquialisms from their original cultures and have a low level of education.

References


Sundheim ST, Myers RM, Voeller KK: Mental retardation, in Pediatric Neuropsychiatry. Edited by Coffey CE, Brumback RA. Philadelphia, PA, Lippincott Williams & Wilkins, 2006, pp 151–186


**Recommended Readings**


Sundheim ST, Myers RM, Voeller KK: Mental retardation, in Pediatric Neuropsychiatry. Edited by Coffey CE, Brumback RA. Philadelphia, PA, Lippincott Williams & Wilkins, 2006, pp 151–186
This page intentionally left blank
Documenting the Examination Using the AMSIT

Key Points

• The psychiatric examination of children and adolescents needs to be documented systematically.

• The mental status examination of children and adolescents has many components that need to be considered in establishing a psychiatric diagnosis and developing a comprehensive treatment plan.

In every diagnostic interview, the examiner must document the patient’s mental status examination. AMSIT is an acronym representing the components of the mental status examination: A (appearance, behavior, and speech); M (mood and affect); S (sensorium); I (intelligence); and T (thought). The AMSIT allows systematic documentation and organization of data collected during the psychiatric examination of adults. It was originated in the early 1970s by David Fuller, M.D., at the University of Texas Health Science Center at San Antonio (Fuller 1998). Over the years, the AMSIT has undergone a number of improvements. Medical students, interns, general psychiatric residents, and fellows in child and adolescent psychiatry are expected to be proficient in use of the AMSIT.

The psychiatric examination provides the data needed to establish a psychiatric diagnosis and to develop a comprehensive treatment plan. A comprehensive psychiatric evaluation of a child includes an inquiry into the child's
presenting problems, his or her developmental course, and the nature of the family context or rearing environment. The developmental progression (which refers to the acquisition of abilities or skills at a given age) and the developmental context (which refers to psychosocial factors and the nature of the rearing environment) are fundamental concepts in the field of child and adolescent psychiatry.

Although the psychiatric examination of the child is a valuable component of the diagnostic process, it is only part of the process. The examiner must remember that the examination removes the child from his or her natural environment; therefore, the child’s family and other aspects of the child’s psychosocial environment also need to be evaluated.

A child’s mental status is an active, dynamic process, and it changes from one moment to the next. For example, a child who is withdrawn one moment may be active and engaging a moment later, and vice versa. In general, children and adolescents are environmentally reactive; whatever is going on around them influences their mood and other psychological processes. This reactivity may mislead the examiner who is determining the existence or severity of a given disorder. The AMSIT is a valuable tool for documenting the psychiatric examination. In the remainder of this chapter, I describe the components of the AMSIT as it pertains to child and adolescent psychiatry.

**Appearance, Behavior, and Speech**

Table 7–1 summarizes the specific areas of the AMSIT that are related to appearance, behavior, and speech in children and adolescent. Keen, disciplined, and systematic observations must be made during this part of the examination. Methodical inspection and careful observation probably account for up to 75% of the work involved in arriving at a diagnosis. A “clinical eye” and expertise gives examiners an advantage in this area.

First impressions are significant. The examiner should consider the following questions: What is my first impression of the child (or the family)? Is the child likable? Is there anything odd about the child? Is there any sense of detachment, apprehension, or even danger? The answers to these questions are important in the overall assessment of the child and family. The examiner also needs to keep in mind that while he or she is assessing the child and the
family, they, too, are assessing the examiner: Is the doctor likable? Does the doctor come across as reassuring or as critical and severe? Does the doctor appear to be comforting? Does the doctor seem willing to help?

**Physical Appearance**

The examiner should note whether the child appears his or her chronological age or looks younger or older than the stated age. The examiner should observe the child’s nutritional state, his or her sense of vitality, and the presence or absence of secondary sexual characteristics. Marked slimness, cachexia, heaviness, and obesity are readily apparent. In children showing such characteristics, issues related to eating disorders need to be explored, no matter what the presenting problem may be.

The examiner should note the presence of dysmorphic features in any of the following areas: facial complexion, shape and configuration of the eyes (e.g., slanted or mongoloid; different-colored irises), breadth or shape of the forehead, setting or configuration of the ears, and texture and docility of the hair (e.g., “electric” hair). The shape and configuration of the head should be noted. The examiner should also note any other unusual facial or cranial features.

The examiner should pay attention to the child’s attire and physical presentation. Children with deviant social behavior often wear striking and un-

---

**Table 7–1. Elements of the appearance, behavior, and speech section of the AMSIT for children and adolescents**

<table>
<thead>
<tr>
<th>Physical appearance</th>
<th>Psychomotor activity(^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gait and posture(^a)</td>
<td>Involuntary movements(^a)</td>
</tr>
<tr>
<td>Exploratory behavior(^a)</td>
<td>Behavioral evidence of emotion</td>
</tr>
<tr>
<td>Playfulness(^a)</td>
<td>Repetitious activities</td>
</tr>
<tr>
<td>Relatedness(^a)</td>
<td>Disturbances of attention</td>
</tr>
<tr>
<td>Eye contact(^a)</td>
<td>Speech</td>
</tr>
<tr>
<td>Behavioral organization(^a)</td>
<td>Disturbances of speech melody</td>
</tr>
<tr>
<td>Cooperative behavior(^a)</td>
<td>(dysprosody)(^a)</td>
</tr>
</tbody>
</table>

\(^a\)Topics that are considered in the AMSIT for children and adolescents, described in the text.

conventional attire. The examiner should note the child’s footwear, hairstyle, and hair color. With female patients, the examiner also should note the use of nail polish and the quality of any makeup used. Revealing or see-through garments may indicate a defiance of norms and the transgression of social conventions. Children who wear such garments may also demonstrate precociousness, sexualization, or evidence of antisocial behavior. Rings and perforations are in style among some youth. If the child has nose, eyebrow, or tongue piercings, the examiner might also inquire about perforations elsewhere on the body, including the navel, nipples, or genitals. Children with sexual identity conflicts often present with ambiguous attire or with makeup that is more appropriate to the opposite sex. Masculine females frequently present without makeup, and their attire and demeanor betray their intentions of wanting to be male.

The examiner should observe any visible skin for the presence of tattoos; for signs of recent injuries or self-abusive or suicidal behaviors; or for evidence of old injuries, such as multiple scarring of the knuckles, wrists, or forearms. These marks may be indicative of chronic self-abusive behavior or impulsive aggressive tendencies. If the patient’s upper limbs show evidence of self-abusive behavior, the examiner should explore whether the patient abuses other parts of the body (e.g., legs, chest, breasts, genitals). The examiner should ask the child about all visible scars: each scar has a history to tell. The possibility of nonvisible scars needs to be kept in mind, even if no scars associated with self-abusive behavior are visible.

Alert examiners may detect vein tracks or other signs of drug abuse. An attentive interviewer will detect evidence of hair pulling (trichotillomania) of the scalp or of the eyebrows, as well as signs of nail biting, nose picking, skin picking, and other compulsive traits. If the patient has an obvious disability, the examiner should note it and observe the limitations that it imposes on the patient and how the patient copes with it.

**Gait and Posture**

As the examiner enters the waiting room and guides the child to the interviewing room, he or she should note the child’s gait, including the child’s grace, smoothness of movements, and coordination. Does the child waddle, shuffle, or tiptoe? Does he or she move with agility? Are any unusual move-
ments associated with the child’s gait? For these and related observations, see Chapter 11, “Neuropsychiatric Interview and Examination.”

Does the child sit or stand erect, or does the child slouch? Some children are unable to keep an erect posture while sitting or standing. Does the child lean on the chair, the table, or other available support? Some children look hypotonic, or sluggish. Children with a background of early deprivation display unusual and ungraceful postures and may seem hypoactive or even apathetic. Children with chronic regressive states are likely to lean on the chair or to lie down on the couch or the floor, even though they exhibit no neuro-motor impairment. The same is true for children with severe melancholic features. In severe psychomotor retardation, the child’s inactivity may reach a catatonic state.

If the child is catatonic, the examiner should evaluate the degree of akinesia, including lack of blinking, persistence of unusual postures, vacant staring, or flatness of emotional display. The examiner may observe echopraxia, echolalia, and other automatic imitative behaviors. The examiner may test the patient for *cerea flexibilitas* (in which the patient maintains whatever body position he or she is placed in).

Some children come across as weak, anergic, or temperamentally hypoactive or hyporeactive. These children lack enthusiasm, and it is difficult to keep them motivated about anything.

### Exploratory Behavior

Some children demonstrate no reticence when entering the examiner’s office. Some children appear fearless in new circumstances and do not show any restraint in unfamiliar settings. These children often show a sense of familiarity with the examiner, even though this is the first time they have met him or her. Some children look around first but seem comfortable, even though they are in a new environment. Others are apprehensive about entering the office and need the active encouragement or assistance of a parent or other caregiver. These children show evidence of *behavioral inhibition* (Kagan 1994); they hide behind their mothers and stay near them, or they hide their faces with their hands to avoid eye contact. Other children fret or show wariness and need reassurance before any diagnostic engagement.
Playfulness

Playfulness is a quintessential characteristic of childhood. It should be present in well-adapted, so-called normal children. If the examiner encounters an overtly serious child, he or she needs to seek explanations for this demeanor. If the child lacks the quality of playfulness, the examiner will probably observe other evidence of developmental deviations, such as lack of behavioral organization and exploratory behavior. The examiner may also observe inhibition, passivity, and separation problems.

Once the child engages in play, the examiner should attend to the content and process of the child’s play. The examiner should note the nature of the child’s enactments (see Chapter 2, “General Principles of Interviewing”), the degree of the child’s affective involvement (i.e., the child’s emotional involvement with the examiner and the child’s overt affective display), and the manner in which the child involves the examiner in the play. Frequently, children enact themes related to the major psychological issues that preoccupy or surround them (e.g., major anxieties or conflicts going on in their families).

Relatedness

Relatedness refers to the child’s manner of relating to the examiner. Normal preschool and preadolescent children are reserved when they meet strangers. After they have gotten a “feeling” for the situation and become reassured, they relate more warmly. Adolescents may be expectant and hesitant. Once they feel comfortable, they become more spontaneous and engaging. Anxious children need more time and more reassurance to feel at ease and to develop rapport. Children with schizoid personality disorder appear distant and uninvolved. These children will not warm up to the interviewer, no matter how much effort is made to engage and comfort them. Children with psychotic disorders show oddness and inappropriateness in relating, or they may display signs of self-absorption, evidence of response to internal stimuli, or inappropriate affect.

Some children show immediate familiarity with the examiner and, for that matter, with any stranger. Such children demonstrate boundary problems and require ongoing structure to behave adaptively. Children who demonstrate promiscuous relating may also show evidence of seductive or even overt sexual behavior (see “Reverse Engagement” in Chapter 1, “Diagnostic
and Therapeutic Engagement”). Management of these behaviors requires active limit setting throughout the diagnostic interview (see Chapter 3, “Special Interviewing Techniques”). Other children behave in a hostile and aggressive manner or even in a paranoid fashion. These children are hyperalert and suspicious.

**Eye Contact**

Eye contact is a fundamental interactive behavior. It is a universal nonverbal behavior that increases attachment and rapport. Warm eye contact is a basic element of interpersonal engagement, and its absence indicates a significant relational problem. Children who display poor eye contact also display problems in interpersonal social behavior. These children avoid eye contact when they are anxious or when attachment or neuropsychiatric difficulties are present.

The more deviant the nature of the eye contact, the more serious the likelihood of profound developmental psychopathology in the social-relational area. Examples of deviant eye contact include the “see-through” eye contact observed in children with autism and the “staring” eye contact observed in children with paranoid personality or psychotic disorders. Seizure disorders and dissociative states must be considered in the differential diagnosis when staring is observed.

**Behavioral Organization**

The examiner should note the patient’s degree of adaptability and organizational behavior. Some children, no matter what is happening around them, are able to initiate or create adaptive activities or to immerse themselves in generative endeavors (e.g., play). Other children, even in the most propitious circumstances, are unable to generate constructive or productive activities and depend on the alter-ego functions of responsible adults in order to organize and display adaptive behavior. Children who lack behavioral organization also show other deficits, such as the inability to focus, the absence of an organized approach to problem solving, or a lack of self-soothing functions.

Some children exhibit behavioral disturbance as soon as they enter the psychiatrist’s office. They are fidgety, restless, and hyperactive. These children need active structuring throughout the evaluation. The structuring may include verbal redirection, limit setting, or even physical redirection or restraint.
Cooperative Behavior

The examiner should note the child’s active and cooperative participation during the psychiatric examination. This quality is associated with the child's understanding of the presenting problems, the dystonicity of the symptoms, and his or her motivation to change.

Problems with compliance or with following directions are common and challenging complaints in the field of child and adolescent psychiatry. When faced with a child’s oppositional behavior, the examiner should attempt to determine whether the behavior stems from a need to control, a power struggle motivation, or a sense of personal incompetence. Children who are aware of their real or perceived incompetence (or mastery limitations) are reluctant to try a given task because they know, or believe, they cannot do it. Many so-called oppositional children have significant unidentified language disorders. These children often have major receptive language problems and cannot understand expectations or given commands. They may also have neuropsychological deficits that interfere with their ability to understand a task or its solution. The examiner should also determine whether these patients have any hearing problems.

Psychomotor Activity

Disturbances of psychomotor activity are probably the most commonly encountered disruptive behaviors in clinical settings. Psychomotor disturbances are caused by a multiplicity of medical, neurological, and psychiatric conditions. Attention-deficit/hyperactivity disorder (ADHD) is one of the most prevalent psychiatric diagnoses, and some of its features are among the most common behavior problems cited by schoolteachers. The triad of hyperactivity, distractibility (inattentiveness), and impulsivity may occur as a primary disorder, as a complicating comorbidity, or as a secondary manifestation. When the examiner observes signs of ADHD, he or she should search for evidence of medical, neurological, and common comorbid disorders associated with this condition (e.g., oppositional defiant disorder, conduct disorder, depressive disorders, anxiety disorders, developmental language and learning disorders).

The examiner should distinguish between a child who exhibits hyperactive behavior (e.g., fidgetiness, aimless behavior) and a child who is driven by
goal-directed behavior. The examiner should test the child’s response to redi-
rection or structure to determine whether the hyperkinesis is responsive to or
impervious to structuring or limit setting. The examiner also should attempt
to determine whether the child’s impairments are secondary to ADHD, one
of the associated conditions (comorbidity), or both.

Agitation and sensorium disturbances should alert the examiner to the
possibility of delirium. Because delirium is a potentially life-threatening pro-
cess, it should be considered in the differential diagnosis of hyperactivity, ag-
itation, and restlessness in children.

Mania and akathisia should be considered in the differential diagnosis of
agitation and restlessness. Manic patients are quite hyperactive. The examiner
should pay attention to other manic manifestations, such as pressured speech,
loose associations, hypersexuality, and grandiosity. If akathisia is suspected,
the examiner should determine whether the patient uses neuroleptics or selec-
tive serotonin reuptake inhibitor (SSRI) antidepressants and should look for
other extrapyramidal symptoms or other evidence of a neurological disorder.

Involuntary Movements

The examiner should observe whether the child displays tics of the face or
limbs, or muscle twitching or jerking. These signs should immediately raise
the examiner’s suspicion that the child may have Tourette’s syndrome. Other
involuntary movements (e.g., choreic or dyskinetic movements) may indicate
a movement disorder, cerebral palsy, or other neurological condition (e.g., Sy-
denham’s chorea, Huntington’s disease, Wilson’s disease). The examiner
should also be attentive to the child’s production of vocal tics or guttural
noises such as grunting, throat clearing, involuntary noises (including shrilly
noises), or barking.

With children who are taking neuroleptic medications, the examiner
should be alert to the presence of involuntary movements associated with
acute dyskinesia and the orolingual and choreiform movements associated
with tardive dyskinesia. Any of these findings require full neurological clari-
fication. SSRI antidepressants can also induce extrapyramidal symptoms (Pies
1997).
**Behavioral Evidence of Emotion**

The examiner should observe any affective or emotional manifestations and pay special attention to the flow and vicissitudes of the child's emotional display. The examiner should note whether the child's emotional display is enduring or whether it is variable and unstable.

Anxiety disorders and depressive disorders are common afflictions treated in child psychiatric practice. Common signs or features of anxiety disorders include the presence of specific and unspecific fears, thumb sucking, nail biting, hair pulling, frequent scratching, skin flushing, and bowel sounds. Cracking of the knuckles or the back is common in anxious adolescents. Pre-adolescents may exhibit manifestations of primitive anxiety and fear (e.g., urinating, passing gas, defecating) during the interview.

Separation anxiety complaints are common. Children with these disorders refuse to separate from their mothers, stay close to their caregivers, and display limited curiosity and exploratory behavior. Equally common in anxious children are inhibitions in social settings, “freezing” in social situations, and elective mutism.

Common features of melancholia include a sad face, a downcast demeanor, crying, and limited level of activity. Melancholic signs are commonly accompanied by negative cognitions such as helplessness, hopelessness, and worthlessness and by suicidal thoughts or behavior. Tiredness, sleep and appetite disturbances, and anhedonia are other components of melancholia. In contrast, euphoric mood coupled with restlessness, distractibility, a sense of grandiosity, hypersexuality, and pressured speech should make the examiner suspect mania or hypomania. In general, mania and melancholia are infectious moods, meaning that the examiner is “contaminated” by the patient’s prevailing mood. Often the examiner evolves a countertransference that is concordant with the child’s prevailing mood (Racker 1968). In addition, the examiner needs to recognize signs of fear, confusion, perplexity, hostility, seductiveness, and many other emotional states.

**Repetitious Activities**

The examiner should pay attention to the presence of repetitive motoric activities. On the most benign end of the spectrum are continuous hand rubbing, frequent preening, and other behaviors associated with anxiety and
tension. In the middle of the spectrum are behaviors such as thumb sucking, nail biting, and knuckle or spine cracking. At the most pathological end of the spectrum are behaviors such as rocking, arm flipping, and other autistic behaviors. When careful inspection does not reveal the presence of overt repetitious activities, the examiner should proceed with sensitive probing to rule out the presence of less obvious compulsive activities (see Chapter 8, “Evaluation of Internalizing Symptoms”).

**Disturbances of Attention**

Although hyperactivity is commonly associated with inattentiveness and impulsivity, disturbance of the attentional processes sometimes occurs without hyperactivity or impulsivity. In general, disturbances of attention reflect distractibility (a lack of a capacity for selective and sustained attention). Distractable children move from one activity to the next without finishing any of them.

Attention comprises many functions, including selective attention, sustained attention, intensity of attention, inhibitory control, and attentional shifts. The selection and organization of responses to stimuli depend on high-level executive functions (Taylor 1994). Attention is a fundamental function in information processing and cognitive and language functioning. Attention disturbances are implicated in the etiology of schizophrenia.

**Speech**

The speech component of the mental status examination is rich in findings and rewarding in the overall diagnostic process. The findings in this area range from overt aphasias with associated neurological findings to the less specific developmental language disorders. If a child does not seem to understand what the examiner is attempting to convey or if the child’s responses seem to miss the point (e.g., non sequitur responses), the examiner should suspect a receptive language disorder. The examiner must ascertain whether a hearing loss is present in these cases.

Children with receptive language difficulties look lost and confused. The examiner should consider the following questions: Is the patient attempting to communicate at all? Is the patient gesturing or attempting to use other nonverbal behavior? Is the patient capable of developing rapport? Is the patient at-
tempting to connect with the examiner? The answers to these questions will assist the examiner in differentiating autism from other communication disorders.

As the child speaks and responds to the examiner’s questions, the examiner should pay special attention to the spontaneity and flow of the child’s speech, the richness of the vocabulary, the child’s abstraction capacity, the quality of the grammar, and the child’s ability to communicate emotion and meaning.

Limited lexicon, grammatical mistakes, inappropriate use of prepositions, and problems with syntax are common in children with expressive language delays. Their speech and language are usually immature. Expressive language disorders may be associated with psychosocial developmental immaturity.

The examiner should also note the naturalness of the patient’s speech and the quality of the communication process. Odd speech, affectation in the communication (i.e., pedantic talk), or unusual features of the communication process or of its contents, such as echolalia, neologisms, or bizarre productions, should raise the suspicion of a thought disorder (e.g., schizophrenia).

The examiner must attend to the volume and rate of the child’s speech, as well as to the quality of its articulation. The examiner should note whether the patient’s speech is loud, pressured, or slurred and whether evidence of mispronunciations, stuttering, or other unusual speech qualities is present.

The examiner should note the response latency—that is, the amount of time that elapses before the patient initiates a verbal response. Some patients take a rather long time before beginning any response, whereas others blurt out responses impulsively before the examiner finishes the question or completes a thought.

**Disturbances of Speech Melody**

Disturbances of speech melody (called *dysprosody*) are prevalent in severe aphasias and developmental language disorders. The examiner should pay attention to these speech qualities because they are revealing. Disturbances of the musicality and rhythm of speech indicate that an injurious event affected the child’s neurolinguistic development in early periods of language and speech formation. Instead of the soft, childlike, sweet, and melodious quality of the typical child’s speech, the examiner may hear a grave, hoarse voice that resembles an adult’s or elderly person’s voice. The child’s voice may have a
high-pitched tone, or a male child’s speech may have an effeminate quality.

Children who have pervasive personality disorders or other severe neu-roddevelopmental disorders also exhibit problems with voice melody and voice inflection. For instance, when they attempt to make a statement, they may raise their voice as if asking a question.

**Mood and Affect**

Cummings’s (1995) definitions of *mood* and *affect* are clear and succinct: “Mood is an internally experienced pervasive emotion. Affect is the outward emotional display” (p. 168). During the mental status examination, the examiner notes the child’s prevailing mood and predominant affect and the subjective states that accompany it. He or she may also observe the quality and intensity of affective expression.

Among the most valuable and clinically relevant aspects of the AMSIT is the expectation that the examiner will consider the presence of depression or mania in every individual’s psychiatric evaluation. The AMSIT expects the examiner to rate the patient’s depressive or elated affect on a seven-point numerical scale. The scale includes depression at one extreme, euthymia at the center, and mania at the other extreme. Every examiner completing the AMSIT should assess the patient’s degree of mood disturbance or affective expression.

Loved and well-cared-for children are, by nature, bubbly and expansive. The examiner should describe any deviation from this state. A serious child may already be demonstrating emotional disturbance. A serious countenance may be part of a restrained, euthymic state in an adult, but this is not necessarily the case in children.

Reactivity to environmental factors complicates both the identification of affective disturbance and the determination of its severity. Many depressed children react positively to reassurance and may even engage in playful interactions. These behaviors mislead the diagnostician.

The examiner should note the child’s spontaneous affective display and any changes of affect that occur during the interview. The examiner should describe the intensity and the range of the child’s affective expression. It is equally important to observe if the affect is appropriate to the thought con-
tent or if it is inappropriate either to the thought content or to the interview-
ing context.

Silliness and inappropriateness of affect are common in immature and re-
gressed children. These affective states may represent early forms of hypoma-
nia. Some children are openly silly, whereas others display overt euphoria. Affect disturbance is common in so-called borderline disorder, in Asperger’s disorder, and in schizophrenia.

Other mood and emotional states may be as prominent and as important as those associated with depression and mania. Anger, anxiety, fear, and other states of emotional arousal are common phenomena observed in clinical prac-
tice.

The examiner should differentiate depression related to a psychiatric disor-
der from depression related to neuropsychiatric dysfunction. Harris (1995) warned, “In the assessment of affect, apathy must be distinguished from depres-
sion. Moreover, the experience of emotion must be clarified because in some conditions, such as certain right-hemispheric dysfunction presentations or in pseudobulbar palsy, the physical expression of affect (e.g., facial expression, voice tone) may be impaired although inner experience may remain intact. Fi-
nally, with some frontal lobe lesions and in some metabolic encephalopathies, severe apathy may be noted in the absence of depression” (p. 31).

**Sensorium**

**Orientation**

Children of normal intelligence, even early preadolescents, frequently know the day of the week, the month, and the year of the evaluation. Less precision should be expected with the date, but even so, alert and bright children typi-
ically give very close to the correct date. It is telling when the examiner asks the child questions regarding orientation, and the child turns to the mother for assistance or expects her to give the response. The examiner needs to look beyond the overt dependency and explore cognitive problems or generalized difficulties with orientation in time and space. Significant deviations from orientation to time or place are common in children who have cognitive im-
pairments and in children who have neurodevelopmental disorders such as learning disorders and right-hemispheric dysfunctions.
Memory

Disorders of memory result from problems with encoding (i.e., registration secondary to attentional disturbances) or from difficulties with decoding or retrieval (see Chapter 11, “Neuropsychiatric Interview and Examination”). “The impairment of new learning, or anterograde amnesia, is a defining attribute of organic amnesia” (Zola 1997, p. 448). Retrograde amnesia refers to impairment for memories acquired before brain damage (Zola 1997). The examiner should notice the accuracy of the child’s recall and the coherence and relevance of details included in the child’s narrative. Memory problems should be suspected when, in response to the questions posed by the examiner, the child looks confused or uncertain or seeks support for his or her answers from significant others.

A child of normal intelligence can talk about important recent events. For example, if the child is a sports enthusiast, the examiner may test the child’s tracking of recent sporting events and the accuracy of the recall.

The task of remembering three different words is a classic and practical short-term memory test. The examiner should select unrelated words. This challenge becomes more demanding if one of the words is abstract (e.g., honesty, fairness).

Concentration

Concentration reflects the patient’s ability to focus and sustain attention during cognitive tasks. An adolescent with normal intelligence and without specific learning disabilities in arithmetic should be able to demonstrate proficiency with the serial sevens test (e.g., “take 7 away from 100, and keep taking 7 away from the result”). The response to this challenge is considered satisfactory when the adolescent gives four or five accurate responses. For an early latency child, this task may be a formidable challenge, in which case the examiner may choose a less difficult task, such as the serial threes test (e.g., “take 3 away from 20, and keep doing so from each answer you get”).

The repetition of digits forward and digits backward is a traditional test of concentration and immediate memory. After the examiner says a series of numbers, adolescents with good concentration and good immediate recall should be able to repeat five or six of the numbers forward and up to four or five of the digits in reverse order. Younger children should be expected to be proficient with fewer digits.
Calculating Ability

If the examiner is using the serial sevens test to assess the child’s calculating ability simultaneously with concentration, and the child finds the task too difficult, the examiner could try easier challenges such as serial threes (as described in the preceding section, "Concentration") or could present simple calculation problems, such as 6+7=? or 9+4−3=? Even these simple tests may be trying for children who have cognitive limitations or for those with specific developmental learning disorders.

Overall Conclusion

The AMSIT requires the clinician to make an overall assessment of the patient’s sensorium based on the entire examination or specific findings. A significant impairment of the sensorium should raise the suspicion of delirium, which requires diligent exploration of the central nervous system. Because delirium can be fatal, its elucidation and treatment are medical and neurological emergencies.

Intellectual Function

Even experienced clinicians err in their estimation of a patient’s intelligence level. Children may appear retarded although they are not, or they may come across as being brighter than they are. Factors that may mislead clinicians in this assessment include the presence of comorbid conditions and the presence of language or learning disorders.

In ascertaining intellectual functioning, a detailed developmental history is required. A record of the child’s achievement of milestones and the time at which the child began to produce speech is of particular importance. The child’s history of academic progress or academic retention is also relevant. The fact that the child has a history of grade retention does not mean the child is intellectually impaired. Similarly, the fact that a child is promoted year after year does not mean he or she is devoid of cognitive or learning problems.

Sometimes teachers may perceive bright students as retarded. For example, a child was referred for an evaluation because his teacher believed he was too “slow.” The child came across to the examiners as extremely bright, creative, and imaginative; his IQ score was found to be about 142. Comprehensive psy-
chometric testing, complemented, when indicated, with neuropsychological testing, will assist in the clarification of intellectual capacity and language or learning disabilities.

**Thought**

The basic caveat in the identification of thought disorders is that the presence of severe language disorders can confuse the clinical picture. Developmental and academic histories are very helpful in preventing this confusion, as are the child’s affective expression and his or her efforts to communicate. Table 7–2 lists the topics covered in the thought section of the AMSIT.

No typical symptoms make the diagnosis of schizophrenia unequivocal. Although first-rank symptoms were formerly thought to be associated only with schizophrenia, Akiskal and Puzantian (1979) demonstrated the presence of first-rank symptoms in affective disorders with psychotic features.

Some clinicians still confuse the concepts of psychosis and thought disorder. *Psychosis* refers to problems with reality testing and especially the presence of hallucinations or delusions; *thought disorder* refers to impairments of the process of thought production, thought concatenation, and thought organization.

**Coherence**

The examiner should note the threading and convergence of the patient’s thinking. The examiner should consider the following relevant questions: Are the child’s thoughts threaded together to express the intended idea? Does the narrative make sense? Is the narrative clear? Are the topics or themes connected to one another? When the child speaks, can the child’s train of thought be followed?

**Logic**

In assessing the child’s logic, the examiner should consider the following questions: Does the child respect the laws of reasoning, of time and space, and of the contradiction of opposites (i.e., if you state something, you rule out or exclude the opposite; see Troy’s case study and Note 2 in Chapter 8, “Evaluation of Internalizing Symptoms”). Do the child’s conclusions derive from established premises? Are cause-effect relationships respected in the child’s argu-
ments? According to Caplan (1994), illogical thinking is based on a defective control of cognitive processing and represents a negative sign of childhood-onset schizophrenia. This defect appears to reflect frontal lobe impairment (Caplan 1994; see Chapter 8, “Evaluation of Internalizing Symptoms”).

**Metaphorical Thinking**

Adolescents sometimes use metaphors to describe their conflicts or concerns. The examiner should attempt to stay within the metaphor and to make interventions that use the patient’s metaphoric language. This approach parallels the process of interviewing in displacement (see Chapter 3, “Special Interviewing Techniques”). The following case examples illustrate the use of metaphors by adolescents.

Tim, a 15-year-old white adolescent, was evaluated for rebellious, aggressive behavior and anger dyscontrol. He said to the interviewer that he “felt like a bull.” This metaphor was helpful in understanding the patient’s sense of being untamable and out of control; it also clarified the child’s narcissism and his concerns about losing control. When the interviewer stressed that the patient was behaving like a bull, the adolescent responded with satisfaction. This approach improved the therapeutic alliance and made the patient more receptive to the examiner’s recommendations.

Sharon, a 15-year-old white adolescent, was referred for an evaluation because of her bulimic behavior, which had continued for more than a year. She was preoccupied with her looks and compared herself unfavorably to her more at-

### Table 7–2. Elements of the thought section of the AMSIT for children and adolescents

<table>
<thead>
<tr>
<th>Coherence</th>
<th>Perceptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logic</td>
<td>Delusions</td>
</tr>
<tr>
<td>Metaphoric thinking</td>
<td>Content of thought</td>
</tr>
<tr>
<td>Goal directedness</td>
<td>Judgment</td>
</tr>
<tr>
<td>Reality testing</td>
<td>Abstracting ability</td>
</tr>
<tr>
<td>Associations</td>
<td>Insight</td>
</tr>
</tbody>
</table>

tractive mother, who had been a beauty pageant queen in her younger years. She was also very preoccupied with boys and sex. She said, “When I was younger, I could handle the ‘small hormones,’ but now that I’m becoming older, I feel I can’t handle the ‘big hormones.’” Sharon was terrified of the idea of turning 18 and being on her own. Her concerns with the “big hormones” clearly indicated her difficulties with her emerging sexuality and the separation process involved in turning 18.

**Goal Directedness**

When observing goal directedness, the examiner should observe whether the child’s narrative includes details that are relevant to the idea he or she wants to communicate. Does the child branch off into unimportant details? Does the child deviate from the point that he or she initially wanted to make? The examiner should listen for irrelevant or unnecessary details. While listening to the child’s narrative, the examiner should consider the following questions: Does the child go into the substantive matter of the idea he or she wants to communicate? Does the child get lost in minutia unrelated to the core idea?

The most common disturbances in goal directedness are *circumstantiality* and *tangentiality*. In circumstantiality, the child’s train of thought branches off into irrelevant details, but the child eventually gets back to the main idea. In tangentiality, the child’s main idea is lost, and he or she goes off into extraneous ideas. The following example illustrates a thought disorder involving goal directedness.

Jennifer, an 11-year-old white girl, underwent a psychiatric evaluation for explosive and assaultive behavior that resulted in her biting and punching a teacher. In less than 6 weeks, she had three episodes of dyscontrol at school, all involving fights with peers. School administrators felt that they no longer could provide a psychoeducational program for Jennifer on school grounds, because she posed a serious risk to other students and the faculty. Jennifer had attended a day hospital program the previous year for similar reasons. She was described as moody and grandiose. She was her mother’s only source of emotional support, and the mother and child were entangled in a dependent, symbiotic relationship.

During the mental status examination, Jennifer showed a mildly expansive mood and a clear thought disorder, exemplified by ever-present circumstantiality, tangential thinking, and loose associations. During the interview, the examiner asked Jennifer, an obese child, “What do you think of your weight?” She responded, “OK. My belly is good for many things. The belly
floats in the water….I can bob other kids with my belly, it doesn’t bother me….I’ve seen 500-pound guys. They are huge…in Sumo wrestling in Japan…Yokosama…It doesn’t matter…This big guy….”

According to Caplan (1994), “Certain aspects of thought disorder, such as illogical thinking, are found in childhood psychiatric disorders other than schizophrenia. Looseness of the associations, however, seems to occur specifically in childhood schizophrenia” (p. 608). Caplan also asserted that loose associations are secondary to distractibility and represent a positive sign of childhood-onset schizophrenia. She postulated that this defect is secondary to a disconnection between the prefrontal cortex and the subcortical regions (i.e., basal ganglia and thalamus).

Reality Testing

By mid-latency age, a child’s reality testing (ability to differentiate reality from fantasy) should be established solidly; however, reliable reality testing can be demonstrated even earlier. This issue relates to how old the child is before he or she can distinguish fantasy from reality and how old he or she is before hallucinations or delusions can be observed. The following is an example of reality testing disturbance in a preschooler, one of the youngest children with overt psychotic features (i.e., visual and auditory hallucinations) that I had ever encountered.

Fabio, a 4-year-old Hispanic boy, was referred for evaluation of aggressive behavior. He demonstrated murderous behavior toward his baby brother. He spontaneously verbalized that the “jingle,” a monster-like figure, was coming to kill him, and he added that the jingle was going to kill his family, too. To protect himself against the jingle, Fabio would take a knife to bed with him. He saw the jingle and heard it. He said that he heard the jingle telling him that it was coming to hurt him.

Cepeda (2007) described a 3-year-old white male with psychosis (pp. 15–16). Notice that the child was using a neologism.

Blond, a 3-year-old white male, was evaluated for aggressive behavior toward his mother and 2-month-old baby brother. He threatened to kill his mother and other people. He claimed that monsters bothered him and that they hid in the closet. He stated that the monsters tried to "poke" him.
By early mid-latency age, children can clearly differentiate between thoughts coming from inside their heads and voices coming from outside their heads, as demonstrated in the following case example.

Dionne, a 9-year-old black girl who was referred for suicidal behavior, complained of hearing voices. When the examiner asked Dionne if she was hearing her own thoughts, she said, “A thought and a voice are different. A thought comes from inside of my head; a voice comes from outside of my head.”

The following case example illustrates confusion of reality with fantasy and gross impairment of reality testing in a late preadolescent child.

Dwayne, an 11-year-old black boy, was evaluated for explosive and assaultive behaviors. He had hit his female teacher and bitten her nose. The school was no longer willing to put other students at risk because Dwayne had lost control around his peers several times before. Dwayne had been seeing a child psychiatrist for over a year, had been in acute inpatient programs, and had taken various psychotropic medications without any significant effect. He lived with his father at the time of the evaluation. Before that, he lived with his mother in another state. His father took custody of the child when he learned that Dwayne was physically abused at his mother’s house. Dwayne’s stepbrother allegedly would encourage the family dogs to attack Dwayne. Dwayne had extensive scars on his back.

The mental status examination revealed a handsome child who was extremely dysphoric; he also displayed an apathetic demeanor. He was not spontaneous and did not respond verbally to any questions. He exhibited a disgruntled countenance and an ongoing sense of irritation. The omega sign (a persistent frown) was prominent. He appeared to be very depressed. Because his internal world was inaccessible to exploration, his thought processes could not be assessed. The dosage of his antidepressant medication was increased, and he was asked to return the following week for another diagnostic appointment.

When Dwayne came with his father to the second appointment, he brought several pieces of chewing gum. Upon entering the office, he put a piece of gum in his mouth. This time he was talkative. He began narrating a fantasy story, and his father pointed out that the theme of the story was related to a movie he and Dwayne had watched a couple of days earlier. Shortly after this, Dwayne opened his mouth and showed the examiner that the gum was stuck on his lower molars. He didn’t seem to know what to do. The examiner suggested that Dwayne could dislodge the gum with his finger.
At this point, Dwayne said that he had fought with Mike Tyson the night before. His father promptly explained that Dwayne had played a Mike Tyson boxing video game the night before. Dwayne went on, saying that he had “blown out Tyson’s teeth” and so on. Suddenly, Dwayne opened his mouth and indicated that the place where the gum had stuck was the place where Tyson had hit him the previous night. This was followed almost immediately by the revelation that he had bad dreams that night. Dwayne reported dreams of monsters eating his hands. He then showed the examiner his fingers and said, “I had some funny feelings where the monsters were eating my fingers.” The nature and extent of this child’s psychotic thinking had not been appreciated earlier. Dwayne received neuroleptics with positive results.

**Associations**

Associations refer to the manner in which the child’s thoughts are connected among themselves. As the child speaks, the examiner should follow the sequence of the child’s thinking and the links between each of the child’s thoughts. The examiner should note whether the child’s thoughts flow smoothly. The examiner should also observe the transitions between thoughts and should note whether the patient returns to the original thought after digressing into other topics. Does the patient jump from one idea to the next without a clear thread linking the two ideas? The examiner should note the affective prosody (i.e., the emotional coherence of the thought content). Ideo-affective dissociation involves a noticeable incongruency between the expressed thoughts and the associated emotions.

The main disturbances of association are blocking, loose associations, and flight of ideas. In general, patients are unaware of disturbances in their thought processes. Blocking refers to the interruption of a train of thought. It is demonstrated when the child stops presenting the main idea and either becomes silent (i.e., making a prolonged pause) or, after a short pause, goes onto another thought that is not connected to the preceding unfinished thought. When the examiner calls attention to this disturbance, the child has significant difficulty returning to the interrupted idea. When a child’s ideas are weakly connected to one another, the disturbance is called loose associations. In flight of ideas, the ideas presented in a chain of thoughts are not connected to one another. In the most extreme case, the ideas are so disconnected from each other that no sense can be made of them. This condition is often described as word salad. In flight of ideas, the child presents his or her thoughts
at a fast pace. The child’s speech frequently is increased in rate, if not pressured. Correspondingly, the patient may acknowledge that his or her thinking is rushing or going very fast. In other words, the patient cannot control his or her thinking. This symptom helps to explain the impulsivity or lack of judgment exhibited by hypomanic and manic patients.

**Perceptions**

Normal perceptions are those that have consensual validation within a given culture. *Consensual validation* means that what a person sees, hears, or touches is similar to what another person from the same milieu sees, hears, or touches. Disturbances of perception occur when the objects of the perception do not exist, do not have consensual validation, or both. This process is called *hallucinating*, and the experience itself is a *hallucination*. When the object of experience is present but is distorted in its nature or relation to the person, or when it is misidentified, the experience is called an *illusion*.

Hallucinations may occur in any of the sensory modalities—visual, auditory, gustatory, olfactory, or tactual—or they may be visceral (i.e., other body sensations) or experiential. *Complex partial seizures* represent a neuropsychiatric condition that must be considered in the differential diagnosis of perceptual disturbances and other psychotic disorders. (For a discussion of the evaluation of positive and negative psychotic symptoms, see Cepeda 2007, Chapter 2.) In the following case example, the examiner used systematic questioning to ascertain the unsuspected diagnosis of complex partial seizures.

Ralph, a 14-year-old mixed-raced adolescent, was admitted to an acute psychiatric care program for unrelenting suicidal ideation and serious conflicts with his mother. He had a background of gang involvement and other conduct disorder problems. Ralph lost his most important source of emotional support when his maternal grandfather died a short time before the admission. Ralph had been quite attached to his grandfather. Although his parents were divorced, they still continued a bitter relationship. Ralph was caught in a painful loyalty conflict because each parent was pressuring him to live with him or her. Ralph had witnessed his father abusing his mother physically and hated him for that. Ralph’s medical background was positive for an episode of meningitis at age 15 months. He also had complained of “panic dreams” 2 years earlier, but a magnetic resonance imaging scan taken at the time was normal.

Ralph, who weighed 280 pounds, looked older than his stated age and appeared depressed. During the mental status examination, he denied hearing
voices and denied visual hallucinations. When asked if he smelled any unusual smells, he readily reported olfactory and gustatory hallucinations: “An ugly smell, like a cadaver... a pretty bad taste, like rotten meat.” While experiencing those hallucinations, he heard screeching, yelling, and beeping noises, and all of this was accompanied by a disturbance of consciousness and a sense of confusion for about 2 minutes. When this happened, he didn’t know what was going on. At times he felt like he was going to faint and his legs would get weak. During the previous summer, while playing basketball, Ralph’s legs gave way after he experienced the olfactory hallucinations. He had a feeling of “strangeness” and experienced profuse sweating, even during the winter. Additional exploration revealed that he had experienced déjà vu phenomena, dreams that foretold the future, and an urgency to urinate during these episodes. The diagnosis of complex partial seizures was substantiated; it had not been suspected initially.

Commanding auditory hallucinations are of particular clinical importance. The examiner should explore how strong the hallucinations are and what the patient does when he or she hears the voices. Is the patient able to fight them and resist their commands? Invariably, parents are skeptical about the reality of preadolescents’ perceptual symptoms and need to be educated about them (see Notes).

A disturbance of perception may be centered in the sense of self, in the body image, or in aspects of the self-image. Depersonalization denotes a sense of strangeness in the sense of self; that is, the patient feels he or she is not the same as before or feels strange. This experience may be accompanied by a sense of confusion or bewilderment. This phenomenon occurs in affective disorders and dissociative states, and is commonly observed in children with psychotic disorder.

When a girl with anorexia nervosa looks at the mirror and sees a fat person, she suffers from a disturbance of perception of body image, among other things. Disturbance of body image may be localized, as in the case of body dysmorphic disorder (when the patient thinks something is wrong with a specific body part). When the patient has a sense of internal body damage, uncorroborated by medical evidence and impervious to reassurance, the distortion is called hypochondria.

Out-of-body experiences are reported with some frequency. Autoscopic hallucinations are an uncommon experience in the field of child and adolescent psychiatry. A sense of the presence of a dead person, or even experiences
such as talking to or hearing from dead people, are common experiences for children during bereavement.

**Delusions**

*Delusional thinking* refers to a belief or system of beliefs without consensual validation in a given culture. *Ideas of reference* refer to the beliefs that everything the patient perceives is related directly to himself or herself. The most common problems in this area relate to the belief that when people are talking or laughing, they are talking about or laughing at the patient. Some patients feel that people watch, spy on, or follow them. Others harbor persecutory delusions; these patients think that others are plotting to kill or harm them or their families. Patients may see signs in the environment that somehow convey a secret or special message to them. Delusions of guilt are described in Chapter 8, “Evaluation of Internalizing Symptoms” (see case examples on Salim and Fred).

Children’s concerns can sometimes be quite bizarre, as the following case examples show.

Ted, an 8-year-old white boy, reported that monsters were coming at night to exchange his blood for a green liquid. He was so terrified that he asked his father to cover the opening under his bed with a board. Ted believed that the monsters lived under the bed and that nailing the board there would keep the monsters from coming out.

Mat, a 10-year-old white boy, frequently worried that scorpions would come out from the shower head or climb into his bed while he slept. This child was ostracized, ridiculed, and rejected by his peers.

Extreme forms of disturbances of body image or body functions occur when the patient complains that his or her body or body parts are damaged, or worse, that his or her insides may be “rotting.” The following case examples illustrate the presence of such *somatic delusions*.

Donna, a sophisticated and talented 16-year-old white adolescent, was evaluated for intense and unremitting suicidal ideation. She had a long history of depression, dating back to when she was 7 years old. She had been a patient in a number of psychiatric hospitals. In explaining her sense of hopelessness, she reported that her “insides were rotten,” that her “parts were dead inside.” She acknowledged that 90% of her suicidal intent stemmed from that belief.
Ming, a 16-year-old Asian American adolescent and the mother of a 13-month-old infant, exhibited a severe major depressive episode with psychotic features. Besides commanding auditory hallucinations ordering her to kill herself, she had a deep-seated belief that she had cancer. No amount of reassurance or medical evidence could persuade her to the contrary.

In clinical practice, after observing the patient’s thought processes, the following *chain inquiry* is useful: 1) systematic questioning regarding the presence of auditory, visual, olfactory, gustatory, tactual, and other atypical perceptions, such as depersonalization and out-of-body experiences; 2) systematic questioning about referential and persecutory ideation; and 3) systematic questioning regarding beliefs of thought intrusion or thought withdrawal. This line of inquiry may be completed with a full exploration of obsessive-compulsive symptomatology.

**Thought Content**

In addition to the concerns that the patient expresses, the examiner should note the presence of the following: 1) suicidal and homicidal ideation, 2) obsessional thinking, 3) compulsive activities, 4) alcohol and substance abuse, 5) gang involvement, and 6) other significant content not included elsewhere.

**Judgment**

The assessment of the patient’s judgment should be based on observations and on the patient’s response to specific situations presented during the psychiatric examination. A child is assumed to have good judgment if he or she gives a satisfactory answer to questions such as “What do you do if you are in a theater and you see smoke?” or “What do you do if you find a stamped envelope?” The determination regarding impairment of judgment needs to take into account the patient’s history of chronic impulsivity and the patient’s lack of forethought before carrying out impulsive actions. The patient’s history tells far more about the patient’s judgment than do his or her responses to standard questions. A clever and manipulative child may be able to give the right answers to hypothetical questions posed by the examiner, even though the child displays poor judgment in the real world.
Abstracting Ability

The assessment of the child’s abstracting ability (i.e., capacity for categorical thinking) needs to take into account the child’s cognitive development. A common but incorrect assumption is that when a person reaches late adolescence or adulthood, he or she has reached the cognitive developmental stage of formal operations. As such, this person should be capable of abstract thinking, as tested by similarities and interpretation of proverbs. However, not everyone reaches this state of cognitive development. Children who are in the process of acquiring this cognitive sophistication should not be expected to perform well in this area, although some bright children do. In general, preadolescents and some adolescents tend to be concrete.

To assess abstracting ability, the examiner pays close attention to the patient’s language and the sophistication of his or her responses. The examiner should also note the richness of the child’s vocabulary and the manner with which the child discusses problems. For example, does the child use rich, complex, and metaphorical language?

Insight

Making judgments about a child’s insight is difficult. Preadolescents begrudgingly acknowledge their problems, and adolescents more often than not only pay lip service to recognition of personal problems and express no willingness to change. Judgments about the presence of insight are based on the degree of the patient’s dystonicity over the symptoms and his or her explicit desire to change.

Notes

Hallucinations may be more prevalent in children than is commonly thought. As reported by Schreier (1999), Garralda (1984) distinguished nonpsychotic children who hallucinate from psychotic children: nonpsychotic children 1) are not delusional, 2) do not exhibit disturbance in language production, 3) do not exhibit decreased motor activity or incongruous mood, and 4) do not evidence bizarre behaviors or social withdrawal. Long-term follow-up of hallucinations has little prognostic significance. In Schreier’s (1999) view, “Hallucinations of critical voices or of those demanding that the
patient do horrific acts to the self or to others do not predict severity or necessitate a poor prognosis” (p. 624). The presence of a single voice seems to indicate a good prognosis. The presence of internal versus external voices does not have any predictive value. Hallucinations may persist for several years without a major role in the child’s functioning. Schreier (1999) has found an association between nonpsychotic hallucinations and migraine.

References

Fuller D: The AMSIT (student handout). San Antonio, TX, University of Texas Health Science Center at San Antonio, Department of Psychiatry, 1998

**Recommended Readings**


Key Points

- Internalizing symptoms relate to subjective distress or psychological pain; they include depressive, anxiety, obsessive-compulsive, psychotic, and schizoid symptoms.
- Evaluating internalizing symptoms requires a broad knowledge base about the configuration and components of the internalizing disorders and familiarity with DSM-IV-TR (American Psychiatric Association 2000).

For didactic and organizational purposes, I distinguish in this book between internalizing and externalizing symptoms. (The latter are discussed in Chapter 9, “Evaluation of Externalizing Symptoms.”) The distinction often is not clear because of the intrinsic nature of a given disorder. Internalizing symptoms affect the self and bring about subjective distress; externalizing symptoms impact others and the environment due to acting-out behaviors. For example, in bipolar disorder, internalizing and externalizing symptoms are usually mixed. The distinction may also be blurred because of comorbid disorders (e.g., suicidal or depressive features in children who have conduct disorder). A mix of internalizing and externalizing symptoms is the rule rather than the exception in children and adolescents with psychiatric disorders.
Evaluation of Suicidal Behaviors

Suicide is the third leading cause of death in the United States for individuals ages 10–24 years, and the most recent national statistics indicate a 14% increase in youth suicide rates from 1979 to 2005 (Asarnow et al. 2008; see Note 1). Following a decade of steady decline, the rate of suicide among U.S. youth who are younger than age 20 increased by 18% from 2003 to 2004, the largest pediatric suicide rate increase in the last 15 years. The rates of suicide for 2004 (4.74 per 100,000) and 2005 (4.49 per 100,000) are significantly greater than the expected rates based on 1996–2003 trends (Bridge et al. 2008).

Depression is a strong predictor of suicide attempts or completion; 79% of youth reported severe depression, and depression increased as youths, particularly males, progressed along the continuum of suicide risk. Comorbidity was very important: 58% of youth fulfilled criteria for externalizing disorders, 53% had posttraumatic stress disorder, 30% displayed thought disorder problems, and 17% reported probable substance abuse problems (Asarnow et al. 2008; see Note 2). Consistent with a stress vulnerability model, increasing suicidal behavior risk was predicted by greater psychopathology, more life stresses, and particular stressors. Recent exposure to suicide, a breakup of a romantic relationship, a pregnancy event, and posttraumatic stress disorder increase an individual’s suicide risk (Asarnow et al. 2008).

Suicidal crises are self-limiting and usually related to immediate stressors, such as a breakup with a boyfriend or girlfriend, conflicts with the family, school problems, or issues with drugs. As the acute phase of the crisis passes, so does the urge to attempt suicide; 90% of people who survive a suicide attempt, even a lethal attempt, do not go on to die by suicide (Miller and Hemenway 2008).

Pfeffer (1986) recommended that “all suicidal ideas and actions of children should be taken seriously and evaluated thoroughly and repeatedly” (p. 174). The evaluation of suicidal behavior entails the exploration of the what, how, when, where, and why of suicidal behavior.

“What” refers to the nature of the suicidal behavior, including what the patient wishes to do and what he or she expects will happen if the action is accomplished. After the patient discloses that he or she wants to commit suicide in a particular way, the examiner needs to continue exploring alternative plans the patient may have (as in Matthew’s case example in Chapter 2, “Gen-
eral Principles of Interviewing”). Having considered multiple methods of suicide correlates with the child’s determination to end his or her life, the child’s sense of hopelessness and despair, and the seriousness of the intent. An equally important exploration is whether the child expects to be rescued. High levels of aggression and impulsive traits increase the likelihood that suicidal ideation will progress to a suicide attempt; furthermore, behavioral or conduct problems, substance abuse, and thought disorder are associated with lethal suicide attempts (Asarnow et al. 2008).

“How” refers to plans the child has conceived or steps the child may have already taken to kill himself or herself. The examiner assesses prior suicidal behaviors and the seriousness of current plans. The examiner determines how close the child is or has been to killing himself or herself so that necessary steps can be taken to ensure the child’s safety.

“When” and “where” relate to the time and place planned for the suicide. Suicidal behavior may be connected temporally to significant events in the patient’s life. As stated previously, common precipitating events include conflicts with the family or a recent breakup with a girlfriend or boyfriend. The recent death of someone close to the patient is a frequent precipitating event, particularly if the person committed suicide or died suddenly. If one of the patient’s close friends has committed suicide, the examiner should ask the patient whether he or she had prior knowledge of the event or had ever made a suicide pact with the deceased. The examiner should explore the degree of guilt the patient feels over the friend’s death. Patients who have a depressive background are at greater risk of suicide following a close friend’s suicide. Anniversaries are times of emotional reactivation of painful memories and unresolved guilt, and these occasions may activate suicidal behavior or fantasies of reunion with the deceased. When the patient is deeply emotionally connected to a dead person (e.g., grandparent, other relative, friend), the examiner should rule out the presence of psychotic features.

In relation to “why,” the examiner should explore psychological factors that motivate the patient’s suicidal ideation and behavior. Suicidal behaviors may be activated by many emotional states: helplessness; emotional pain; anger; worthlessness or devaluation; shame or humiliation; emptiness; nihilism; rejection or abandonment; loneliness or feelings of being unloved; disappointment or feelings of failure; hopelessness, despair, or futility; fears of a mental breakdown; feelings that a handicap or a medical illness is unaccept-
able; self-hatred; guilt; and many other negative, self-blaming, disorganizing, and pain-inducing subjective states.

The systematic interviewing described above parallels Shea’s (1998) Chronological Assessment of Suicidal Events (CASE) approach for the evaluation of suicidal behavior, which is described in Chapter 2, “General Principles of Interviewing.” The questioning techniques of the CASE approach are used to explore the what, how, when, and where of suicide. Table 8–1 addresses areas of inquiry that are pertinent in the evaluation of suicide risk in children.

Individuals with a history of multiple suicide attempts are more likely to make subsequent attempts than are those with a history of a single attempt or no attempt. Multiple suicide attempters wish to die, time their attempts so the interventions to help them are less likely, and regret recovery/survival from a suicide attempt. Multiple suicide attempters have more psychopathology at baseline (anxiety, mood, or substance abuse disorders), and the presence of an anxiety disorder at the time of the attempt, along with a defined or uncertain wish to die, confers risks for future attempts. Single attempters and ideators do not differ regarding baseline diagnosis (Miranda et al. 2008). Single attempters and ideators deal with acute stressors that are likely to resolve more readily, whereas multiple suicide attempters deal with acute and chronic stressors and dispositional traits, such as impulsivity and aggression, as well as skills deficits, such as limited problem-solving skills (Miranda et al. 2008).

In the evaluation of suicidal behavior in a child or adolescent, the examiner needs to consider the factor of intentionality. The intention to commit suicide is the source from which all suicidal behavior and a great deal of destructive behaviors derive. The following suicidal letter, written by Myriam, expresses unambiguously what she had in mind when she attempted to end her life with a serious Tylenol overdose.

To those it may concern,

If you are reading this I’m already dead. And IT WAS NOT AN ACCIDENT! I didn’t do this with selfish intent, I promise. Well, maybe a little.

I guess I’ll go into my regrets and promises. My regrets are important but I have many confessions. Then I’ll talk about my stuff. I want my stuff to go to some friends.

I regret not telling Mitchell how I felt about him. Just let him know how I reacted when he called, when he didn’t, what I said about him, the effect he
had on me, and how much he meant to me. Tell him...that he was the most important thing to me in the world. Tell him I love him more than life itself.

I also want to say I HATE MY SISTER! She’s stupid, choking, competitive, snotty, bratty, bitchy, and kicks me whenever she can. I HATE HER!

Tell Mitchell I said thanks for always being there for me. Tell Theresa (my friend) thanks for always making me smile. Haley gets a thanks for letting me borrow her things and being my friend no matter what. Tell Emily...[unreadable]

I want to be buried six feet under with lilies and roses. I want all my friends there and teachers too. I want to be pretty, please, just to be nice. (Put on one of Mitchell’s shirts.) Give Mitchell my penguins and let him go through my room to see what else he wants. Then show him this note and my poems in my purple and blue folders. Then let Emily look around please. Then Haley and everyone else.

I would like for you to call everyone in my address book and tell them I am gone. Please?

Just…I love you mom, but Dad…Heh.

Just tell Mitchell I love him and sort everything out! I love you.

Myriam

---

Table 8–1. Pertinent areas of inquiry in examining suicidal children

<table>
<thead>
<tr>
<th>Area of Inquiry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suicidal fantasies and actions</td>
</tr>
<tr>
<td>Consequences of the suicidal act</td>
</tr>
<tr>
<td>Circumstances at the time of the suicidal behavior</td>
</tr>
<tr>
<td>Motivations for suicidal behavior</td>
</tr>
<tr>
<td>Experiences and concepts of death</td>
</tr>
<tr>
<td>History of suicide within the family or in close friends</td>
</tr>
<tr>
<td>Exploration of depression and other affective states</td>
</tr>
<tr>
<td>Exploration of family and environmental circumstances</td>
</tr>
<tr>
<td>History of a recent loss (e.g., breakup with a loved one)</td>
</tr>
<tr>
<td>Use of alcohol or drugs</td>
</tr>
<tr>
<td>History of physical or sexual abuse</td>
</tr>
<tr>
<td>Family conflict and marital discord</td>
</tr>
<tr>
<td>Exploration of recent and ongoing stressors</td>
</tr>
</tbody>
</table>

Source. Adapted from Pfeffer 1986.
On another page, Myriam wrote the following list:

Reasons:  
- Guilt about Daniel  
- Ron’s shit  
- Can’t face school  
- No friends  
- Screwed-up family  
- So much stress  
- No comfort  
- Unloved  
- Too much pain  
- Too much hate  
- No point to keep going  
- I’m worthless  
- So much anger  
- My addictions  
- Ugly  
- Dad  
- Dad took Mitchell away

Confessions:  
- love Mitchell  
- hate my sister  
- words to friends  
- My funeral  
- Eva  
- Mae  
- Emily  
- Haley  
- Mitchell  
- Jacob  
- Gregory  
- Jennifer  
- Robert

Myriam had been sexually assaulted 3 months before her suicide attempt, and her father was about to be deployed to the Middle East the following week. She took the overdose of Tylenol after being punished by her dad for going to Mitchell’s house and leaving her siblings unattended when she was supposed to babysit for them.

The examiner should explore whether the patient is experiencing auditory, commanding hallucinations, such as “voices” asking the patient to join the deceased. The voices may tell the patient to kill himself or herself or to commit other acts (e.g., to kill others). The examiner should determine whether the patient is able to suppress these commands or is helpless against their overpowering influence. When suicidal behavior is unrelenting, the examiner should explore the possibility of psychotic guilt or other obsessive or delusional features (see Donna’s case example in Chapter 7, “Documenting the Examination Using the AMSIT”).

Another important line of questioning relates to recent deaths of loved ones. Schneiderman et al. (1996) reviewed a number of studies to determine factors that increase or lower the bereavement risk when a parent or child dies. These factors are listed in Table 8–2.
In assessing a child’s current suicide risk, the examiner needs to evaluate the child’s current psychological status and consider the ongoing family and environmental conditions. Pfeffer (1991) warned that “the status of these variables may change rapidly, so...repeated, comprehensive discussion with a suicidal youngster is necessary” (p. 670). Pfeffer stressed the need to assess the family’s level of functioning and the circumstances surrounding the child: “It is important to determine whether the family can provide a consistent, stable environment or whether there is a high intensity of stress, violence, and psychopathology and unavailability of relatives. Positive social supports are critical in diminishing suicide risk among children and adolescents” (p. 670).

Because suicidal behavior and self-abusive behavior do not necessarily belong to the same psychopathological domains, they need to be examined separately. The management and prognosis of these behaviors are very different.

Explanations offered by the child or the family should not distract the examiner from exploring the motivations or reasons for the child’s suicidal behaviors. Following a child’s serious suicidal behavior, parents sometimes claim that the child was simply seeking attention. Children often offer the same excuse. Less commonly, children blame dissociative episodes in which they disconnect with or deny the seriousness of suicidal experiences. The examiner

**Table 8–2.  Factors that affect bereavement risk after parental death**

<table>
<thead>
<tr>
<th>Poorer outcome</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Loved one died suddenly</td>
<td></td>
</tr>
<tr>
<td>Surviving parent has psychiatric history</td>
<td></td>
</tr>
<tr>
<td>Mother/caretaker is the parent who died</td>
<td></td>
</tr>
<tr>
<td>Deceased parent had high level of involvement with child prior to death</td>
<td></td>
</tr>
<tr>
<td>Child is from higher socioeconomic brackets</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No significant outcome</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Child’s age and sex</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Improved outcome</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Child has access to higher-quality social supports (resilience in the surviving parent)</td>
<td></td>
</tr>
</tbody>
</table>

*Source.* Adapted from Schneiderman et al. 1996.
should not ask the child, “Did you really intend to kill yourself?” This judgment is the examiner’s to make, not the child’s.

Revelations of abuse should not be disregarded after the patient recants them; the same holds true for statements that a suicidal behavior lacked intent. The factors considered in the evaluation of suicide attempts are also relevant to the overall assessment of suicidal behavior (Spirito et al. 1989). Table 8–3 summarizes the areas the examiner should consider in evaluating a child’s suicide attempts.

Family conflicts, family disorganization, or major stressors within the family have direct influence in the child’s suicidality. Berman and Carroll (1984) discussed family factors that contribute to suicidal behaviors: “The motives for suicide attempts of adolescents appear largely directed towards effecting change in or escape from an interpersonal system” (p. 60). On dealing with the close relatives of suicidal children, Berman and Carroll (1984) wrote, “As essential as it is to view parents as ‘first finders,’ to identify and provide assistance to the precipitously or potentially suicidal child, these parents may be least equipped to accomplish these tasks. Because of their own pathology; their intimate relationship with and, therefore, blind spots to their children; and/or the implicit and explicit blame levied by having a suicidal child, most parents deny, minimize, distort, etc. and only notice after (and, perhaps, only because of) a suicide attempt” (Berman and Carroll 1984, p. 60).

The psychiatrist has a duty and professional responsibility to take all the necessary steps to prevent a patient from killing himself or herself. This goal needs to be tempered, however, by the psychiatrist’s limited capacity to predict suicidal behavior. Shaffer (1996) offered a thoughtful reminder: “In even the most troubled patient, suicide is a rare event whose eventuality and precise timing defy accurate prediction. Although a well-supervised environment may significantly reduce opportunities to commit suicide, a determined patient may circumvent supervision by feigning recovery and denying suicidal preoccupations” (p. 172). To this, he added a sobering comment: “For both the clinician and the public health official the message could be that we do not currently have a scale that will predict either a further suicide attempt or ultimate death by suicide with any useful accuracy” (Shaffer 1996, p. 173). This assertion is still true today.

Goodyer (1992) also offered some caveats about the identification of suicidal behaviors: “The presence of dysphoria may increase and maintain the
Evaluation of Internalizing Symptoms

**Table 8–3. Factors to be explored regarding suicide attempts**

<table>
<thead>
<tr>
<th>Factor to be explored</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of impulsivity</td>
</tr>
<tr>
<td>History of prior suicide attempts</td>
</tr>
<tr>
<td>Precipitating events</td>
</tr>
<tr>
<td>Presence of depression, guilt, hopelessness, or anger</td>
</tr>
<tr>
<td>Presence of cognitive deficits (e.g., poor problem-solving strategies)</td>
</tr>
<tr>
<td>Presence of maladaptive coping (e.g., social isolation, drug abuse)</td>
</tr>
<tr>
<td>Interpersonal difficulties with girlfriend, boyfriend, or parents</td>
</tr>
<tr>
<td>Family conflicts, including family violence and physical or sexual abuse</td>
</tr>
<tr>
<td>Personal losses through death, divorce, or relocations</td>
</tr>
<tr>
<td>Peer rejection</td>
</tr>
<tr>
<td>Physical illness or other personal factors</td>
</tr>
<tr>
<td>Pact with a person who committed suicide or who is about to do so</td>
</tr>
<tr>
<td>Contagion or imitation with recent suicidal behavior</td>
</tr>
</tbody>
</table>

**Source.** Adapted from Spirito et al. 1989.

Risk for suicidal behavior in the population at large. Both clinical and community studies indicate, however, that in adolescents major depression is not a prerequisite for suicidal behavior. In addition, the association between thoughts and acts of suicide in this age group remains unclear…. By contrast, complete suicide appears to be commonly associated with features of major depression…. Such cases [completed suicide] appear likely to be comorbid for antisocial and interpersonal aggression” (Goodyer 1992, p. 589).

Therefore, family factors related to suicidal behaviors need to be examined carefully and exhaustively. The examination of suicide risk demands a thorough assessment of the family’s functional level, family factors that contribute to precipitating events, the family’s understanding of its role in the child’s suicidal behavior, the family’s commitment to ensuring the child’s safety, and the family’s determination to prioritize its emotional and financial resources for the treatment of the child and the improvement of the family’s functioning.

When the child psychiatrist concludes that the child is actively suicidal and that the family cannot guarantee the child’s safety (e.g., because of denial or minimization of the suicidal experience), measures should be taken to safeguard the child’s life (e.g., hospitalization, involuntary commitment).
Evaluation of Depressive Symptoms

The identification of mood disorders (i.e., depression and mania) poses significant clinical challenges to the child psychiatrist. Mania poses more challenges than depression does (mania is discussed more fully in Chapter 9, “Evaluation of Externalizing Symptoms”).

Clinical depression varies in the nature and intensity of its presenting symptoms. The examiner should attempt to elicit as complete a picture of a child’s depressive syndrome as possible by identifying a variety of symptoms associated with this disorder and by estimating their severity.

The examiner should explore for the cardinal symptoms of depression. In exploring a patient’s depressive mood, the examiner should inquire about the presence of sadness. Unlike depression, sadness is a word universally recognized by children. When exploring sadness, pertinent questions include the following: Do you feel sad? How often do you feel sad? When do you feel sad? How bad does it get? What is the worst it has ever been? How long does it last? When you feel sad, what do you feel like doing? When you feel sad, is there anything that helps you to feel better? Because crying is common in children who are depressed, the following questions should be asked: How often do you cry? When you feel like crying, what comes to your mind?

In general, small children feel depressed when they feel unloved, whatever the reasons may be. Serious family events—such as parental desertion, neglect, or discord; family violence; physical abuse; and other adversities—need to be identified.

Many parents are late in recognizing depression in their children, in spite of obvious signs. These parents may not realize the magnitude of depression until their child’s adaptive behavior at home and school has seriously deteriorated, until the child has expressed his or her despair in the form of suicidal or other self-destructive behaviors, or until the child has fallen victim to a devastating drug abuse problem.

Constitutional dysregulation of affect is an important factor in the origin of depressive affect. This problem starts very early in life and is manifested by irritability, temper tantrums, low tolerance for frustration, unhappiness, and limited response to soothing and loving care. The disturbance is enduring and creates a great deal of distress in caregivers because nothing seems to soothe these children. Children with a difficult temperament are usually a bad match for im-
Evaluation of Internalizing Symptoms

patient parents, more so if the parents have mood dysregulations of their own. Akiskal (1995) described the concept of temperament dysregulation, also known as subaffective temperament. These concepts refer to specific constitutionally based affective dispositions (e.g., melancholic-dysthymic, choleric-irritable, sanguine-hyperthymic, cyclothymic) that are manifested predominantly at the subclinical level. These dispositions “are distressing and disruptive and are in a continuum with major mood states” (p. 756). Thus, moody behavior, angry outbursts, and explosive episodes must be explored. Marked irritability is a behavioral change that many parents observe in their depressed children. For example, children may start displaying verbally, if not physically, abusive behavior toward their parents and siblings. Other forms of aggressive acting-out behaviors, such as defiant and rebellious behaviors, are also common complaints.

Irritability is a prevalent mood in depressed children and often generates a stable dysphoric affect. Many children identify this mood as soon as they wake up in the morning. The following question may be helpful: When you first open your eyes in the morning, how do you feel? These children are hyperreactive: anything can set them off. Any demand is upsetting, and any expectation is too much for them. These children are prone to exhibit explosive behavior or to lose control. Parents frequently complain that these children are moody, if not violent. Pertinent questions to ask include the following: How often do you feel grouchy (irritable)? What does it take for you to feel grouchy? When you feel grouchy, how long do you feel like that? Is there anything that makes the grouchy feelings go away? Do you have a temper? What happens when you lose your temper? These questions may be followed by exploration of potential aggression against the self (suicidal, self-abusive behavior), against others (violent and assaultive behaviors), or against the physical environment (destructiveness, vandalism, etc.).

Guilt and its sources need to be identified. Children often feel responsible for things they have not caused. The following questions are helpful in identifying guilty feelings: Is there anything for you to feel bad about? Is there anything you feel you need to be punished for? In extreme cases, guilt takes a psychotic quality, as when the child feels responsible for the ills of the world and beyond. The following case example illustrates a form of psychotic guilt.

Salim, the 8-year-old son of a Lebanese father and an American mother, was hospitalized for unrelenting suicidal ideation. He had overt psychotic fea-
tures: he complained that aliens were after him. Salim's parents were divorced but maintained a bitter and hostile relationship. Salim's custody was still an issue, and he was caught in a loyalty conflict between his parents.

When watching television programs about the country’s most wanted criminals, Salim would ask his mother to call the Federal Bureau of Investigation to report that he was the person they were looking for. He also blamed himself for the war in the Middle East, for worldwide pollution problems, and so on. These delusional beliefs were impervious to reassurance or to reality testing.

At other times, guilt is latent but can be brought readily to the surface, as illustrated in the following case example.

Fred, a 12-year-old white boy, was admitted to an acute psychiatric setting because he set fire to the blankets and mattress where his younger brother was sleeping. His brother sustained second- and third-degree burns. During the interview, Fred appeared sad and downcast. The examiner told Fred that he didn’t look happy and asked, “When was the last time you were happy?” Fred became tearful but tried not to cry. Upon seeing this emotional struggle, the examiner said, “Can you share with me what is going on in your mind right now? You are trying very hard not to cry.” Fred attempted to control his tears but finally broke down, and tears poured down his cheeks. Holding his head in his hands, he said, “I can’t believe what I did to my brother.” He continued sobbing and expressing sorrow, saying, “I burnt my brother.”

Fred began displaying signs of genuine emotion; the emotional abreaction was clearly associated with guilt. Fred revealed that he had heard voices commanding him to kill his brother. This revelation clinched the diagnosis of a psychotic depression.

The concept of a bad parent is an alien concept for a child. A great deal of psychological growth and cognitive development are needed to appreciate that one’s parents have flaws. Children who endure parental abuse usually blame themselves for the abuse. Similarly, if a parent abandons a child, the child usually feels that he or she did something that pushed the parent away.

Emotional withdrawal occurs in many depressed children. Depressed children seek solitude and withdraw from family and peer interactions. Parents report that such children do not participate in family activities or that they withdraw to their rooms, refuse to be with friends, and so on. Helpful questions include the following: Do you have any friends? How are you get-
ting along with your friends? Do you have a best friend? How much time do you spend with your best friend? Do you enjoy your friends? What kind of groups or fun(social) activities do you participate in?

Anhedonia is evidenced when the child no longer feels happy, cannot have fun any more, or cannot join in pleasurable activities. Pertinent questions include the following: When was the last time you felt happy? In a given week, how many days do you feel happy? What kinds of things can you do to feel happy? Is it OK for you to be happy? The child’s history will indicate whether previous interests in sports or in other activities are no longer important to the child. Formerly athletic children no longer display interest in their favorite sports. When invited to participate in games, they refuse, or when they do, their participation is perfunctory; they simply go through the motions.

Hopelessness needs to be identified. Signs of hopelessness include behaviors that indicate the child feels there is nothing to live for anymore, such as attempts to dispose of valuable belongings (e.g., giving away music compact discs, baseball cards, or other collectibles). Hopelessness is obvious in the presence of unremitting suicidal behavior or when the child considers multiple alternatives for committing suicide. Typically, when the child is experiencing such feelings—no matter how good the options presented to the child are and no matter how positive some alternatives may be—the child’s characteristic and disheartened response is, “I don’t care” or “It doesn’t matter.”

Depressed children complain of being tired; this complaint is present from the moment they wake up and usually remains throughout the day. The sense of tiredness contributes to the depressed child’s lack of motivation, loss of interest in school, and problems with concentration. Tiredness is also secondary to sleep problems that are common in depressed children.

Depressed children frequently have marked difficulty falling asleep (initial insomnia). When they do fall asleep, they frequently wake up during the night and have trouble going back to sleep (middle insomnia). Problems with terminal insomnia occur when depressed children wake up very early in the morning (e.g., at 4:00 A.M.) and are unable to fall asleep again. For depressed children, sleep is seldom refreshing. When the time to wake up arrives, depressed children prefer to stay in bed, in part because getting up requires effort. Not surprisingly, many depressed children fall asleep during school or invert their biorhythm (i.e., by sleeping during the day and staying up at night). Many parents struggle every morning to get depressed children ready
for school. Tardiness and absenteeism from school may be revealing. Frequently, parents are unaware of the presence or severity of their child’s sleep difficulties. Tiredness in a child who has no known medical problem should raise suspicion of a depressive disorder. In atypical depressions, children display hypersomnia and sleep a great deal.

Another contributor to tiredness is limited food intake due to a lack of appetite. Many depressed children lose weight even though they are not making any conscious effort to do so. Failure to gain weight in small children is an equivalent sign. Children with atypical depressions may show an appetite increase and may gain weight.

Deterioration in academic performance or behavior at school is a common complication of depressed mood. The child’s grades suffer for a number of reasons: poor motivation (lack of interest), tiredness, or impaired concentration. This last impairment is common in depressed children. Bad conduct in school is a consequence of dysphoria (e.g., due to irritability and low tolerance for frustration).

Hyperactivity, restlessness, and agitation sometimes occur in depressed children. These symptoms may be intrinsic to the disorder or may represent the expression of associated comorbid conditions, such as attention-deficit/hyperactivity disorder (ADHD) or anxiety disorders. More frequently, depressed children display slowness in psychomotor activity. Children with prominent melancholic features exhibit a marked decrease in the psychomotor sphere; in extreme cases, the examiner may observe signs of catatonia.

Negative cognitions (e.g., feelings of worthlessness, personal devaluation, and poor self-concept), concentration or memory difficulties, and suicidal ideation are common in depressive disorders. Suicidal ideation and suicidal behavior must be explored systematically in all depressed patients.

In an attempt to deal with dysphoric affect, depressed children may start using alcohol or drugs. When they do not get the nurturing and understanding they need in their home environment, some children seek a sense of belonging in alternative family groups, such as gangs or cults.

Because the length of depression and the number of depressive episodes have diagnostic, therapeutic, and prognostic implications, the examiner should strive to determine these factors. Depressive disorders are commonly associated with anxiety disorders, oppositional defiant disorder, conduct disorder, substance abuse disorders, obsessive-compulsive disorder, and ADHD.
When working with depressed children, the examiner needs to pay particular attention to psychotic features (i.e., auditory and visual hallucinations and paranoid features), which are common in severe depressions. Of particular importance is the identification of auditory hallucinations that command the patient to kill himself or herself. If these perceptual disturbances are identified, the examiner should ask whether the voices also command the patient to hurt or to kill anyone else. Suicidal and homicidal auditory commands frequently coexist.

The *Diagnostic and Statistical Manual of Mental Disorders, 4th Edition, Text Revision* (DSM-IV-TR; American Psychiatric Association 2000), classifies depressive disorders as major depressive disorder (either single episode or recurrent), dysthymic disorder, and depressive disorder not otherwise specified (NOS). The latter category includes disorders that do not meet either the specific depressive disorder diagnostic category or the categories of adjustment disorders. This category also includes other depressive syndromes such as premenstrual dysphoric disorder, minor depressive disorder, recurrent brief depressive disorder, postpsychotic depressive disorder of schizophrenia, a major depressive disorder superimposed on a delusion disorder, and other less well-defined depressions.

A question that typically comes up concerns what role a parent’s or grandparent’s depression has on a child’s mood disorder. Tully et al. (2008) found that having a depressed mother increased the risk of psychopathology during adolescence, but having a depressed father produced no such a risk. The noxious maternal effect was present even in families in which mother and child shared no biological relationship, indicating that a depressed mother posed a significant environmental risk for the offspring (Tully et al. 2008). A significant interaction also occurred between grandparents’ and parents’ major depressive disorder and young children’s internalizing symptoms (Olino et al. 2008). Grandparents’ major depressive disorder, even in the absence of major depressive disorder in the parents, was associated with an increase in internalizing symptoms in the grandchildren. Major depressive disorder can have effects that persist for multiple generations, and clinicians should obtain an extended family history to evaluate the effect on children (Olino et al. 2008).

According to Swartz et al. (2008), brief psychotherapy in mothers whose children were receiving psychiatric treatment lowered the levels of symptoms and increased the levels of functioning in their children. The positive impact
of improvement of maternal depression on the child lagged by 6 months (Swartz et al. 2008).

The majority of investigations show that improvement in mothers’ depression as a result of either medication or psychosocial therapy is positively correlated with improvements in their children (i.e., reduction of psychopathology and improvement in key areas of functioning). However, this correlation is not true for mothers with postpartum depression and their infant offspring (Hinshaw 2008). Consistent evidence indicates that the reduction or remission of parental depression is related to the reduction of children’s symptoms and that these child effects are maintained (Gunlicks and Weissman 2008).

The contrary is also true: the treatment of pediatric depression decreases the level of maternal depression, even when the parent is untreated. Kennard et al. (2008) reported that 30% of mothers reported moderate to severe depression at the beginning of their child’s treatment, but only 17% reported it at the end of treatment. The level of depression severity in a child correlated with the mother’s depression severity; by the end of the study, children of mothers with more severe depression had higher levels of depression than children with less depressed mothers (Kennard et al. 2008).

In another study, mothers with major depressive disorder were treated, and their offspring (ages 7–17 years) were followed for up to 1 year after the initiation of maternal treatment. At baseline, about one-third of the children had a current psychiatric disorder. At 3-month follow-up, maternal remission from depression was associated with a significant decrease in children’s diagnoses. One year after the initiation of treatment for maternal depression, the mothers’ depression severity and the children’s psychiatric symptoms continued to show decreases; most of the functional improvement occurred within the first 3–6 months during the 1-year follow-up interval. Decreases in the child’s psychiatric symptoms were significantly associated with decreases in maternal depression severity, as reflected in scores on the Hamilton Rating Scale for Depression, and these decreases tended to precede symptom and functional improvements in children (Pilowsky et al. 2008). No change in symptoms was observed in children of nonremitting mothers, and no change in the degree of disruptive behaviors was seen in the children of either remitting or nonremitting mothers.

Plausible explanations regarding why maternal depression improvement has an impact on children’s psychopathology include the following: diminished marital discord, improved parenting, and a less critical attitude by the
mother toward the offspring (Pilowski et al. 2008). Developmental factors and gender were also found to be important in regard to the impact of maternal depression on offspring: maternal depression during children’s late childhood was associated with an increase in females’ internalizing symptoms over time and a decrease in boys’ symptoms. During early to middle adolescence, girls showed greater vulnerability to the adverse effects of maternal depression when compared with boys, but these interactions explained only a small amount of the variance (Jenkins and Curwen 2008).

The role of fathers in childhood depression is rarely studied, although fathers may have a significant impact on depression in their offspring. A clear association between depression in fathers during the postnatal period and later psychiatric disorders in their children was demonstrated in a cohort population study (Ramchandani et al. 2008). This association was independent of maternal postnatal depression, psychosocial risk, and depression in the father after the postnatal period (when the child was age 21 months). Depression in men is relatively common; depression in fathers during the postnatal period was associated with oppositional defiant disorder and conduct disorder in children 7 years later (Ramchandani et al. 2008). Depression in fathers was associated with behavioral and peer relationship problems (antisocial behavior), whereas maternal depression appeared to be associated with a broad spectrum of child disturbances (Ramchandani et al. 2008). The findings of these various studies obligate the child psychiatrist to explore and to identify depression in the parents and grandparents and to recommend appropriate and prompt treatment when indicated.

In the differential diagnosis of depression, bipolar disorder poses the biggest challenge. Accurate identification of bipolar disorder is necessary because of the risks associated with antidepressant treatments and the need to achieve mood stabilization. The severe clinical course and complications associated with bipolar disorder increase the patient’s risks of suicidality, psychosocial dysfunction, and comorbidity risks (e.g., conduct disorder, substance abuse, school and family dysfunction). About one-third or more of the children who are diagnosed with depression eventually develop bipolar disorder. Bowden and Rhodes (1996) highlighted the following features commonly associated with bipolar depression: positive family history of bipolar disorder, psychomotor retardation rather than agitation, psychotic or delusional features, hypersonnia, and a rapid onset rather than an insidious presentation.
An important clinical caveat in the evaluation of depression in children is that some children do not display depressive features during the psychiatric examination, but this does not mean that they do not have a depressive disorder. Consider the following case example.

Lillian, a 14-year-old white adolescent, was evaluated for episodes of running away, aggression toward her mother, and rebelliousness and defiance directed at her parents. Lillian had threatened her mother a number of times and had become progressively more violent toward her. Lillian was markedly ambivalent toward her mother: when feeling close to her mother, she began to act out against her or ran away. Sometimes she ran away to avoid striking her mother.

Lillian's mother reported that her daughter had become increasingly dysphoric over the preceding 5 months, especially during the prior 2 months. Lillian had become irritable, explosive, and even physically abusive toward her younger half-siblings. Her academic performance had deteriorated: she was getting D's and F's, although previously she had gotten A's and B's. She had lost about 20 pounds in 4 months. Lillian had begun to defy her parents' rules and to confront her parents regarding curfew and other restrictions.

Lillian had befriended gang members and experimented with marijuana and drinking. She had no legal problems other than the charge of running away. Lillian was still a virgin; however, she confessed that her current boyfriend had been putting pressure on her to have sex. Lillian was about 7 years old when her step-grandfather had fondled her. He had been prosecuted and sent to prison for fondling Lillian and other granddaughters.

Lillian reported that a number of her friends had died. Most recently, two teenage friends had been killed in a drive-by shooting. A rival gang member had killed her closest friend, a 16-year-old gang member whom she considered a brother. This had been a significant loss for her; she dreamed about her dead friend and mentioned him frequently in her writings, letters, and poetry.

Lillian had no psychiatric history despite two previous suicide attempts. In the latest attempt, she had overdosed on many over-the-counter pills while under the influence of alcohol and marijuana. The first attempt occurred a year earlier, when she had overdosed on over-the-counter medications. Lillian's 18-year-old sister had a stormy adolescence that included multiple hospitalizations and extensive psychiatric treatments. She had been given the diagnosis of bipolar disorder, which was being treated with lithium.

Lillian appeared somewhat older than her stated age. She was not very attractive: she had a prominent forehead and a conspicuous overbite. She was anxious and fidgeted throughout the examination. Her mood was considered euthymic, but her affect was constricted in range and intensity. She denied
suicidal and homicidal ideation. She appeared to be intelligent. Her language was unremarkable for receptive and expressive functions. Her sensorium was clear. Her thought content related to her conflicts with and anger toward her mother, the loss of her close friends, and issues related to her discontent with her body (she had a well-endowed bosom and was self-conscious about it). She exhibited no evidence of hallucinations or delusional thinking. She had some degree of insight, but her judgment was impaired.

Even though Lillian appeared euthymic during the mental status examination, her history and overall clinical picture, plus the family history of affective disorders, were compatible with a depressive disorder. Lillian displayed a number of atypical depressive features and was given the diagnosis of depressive disorder NOS.

The examiner needs to keep in mind some additional information about depression. Depressive disorders have a variety of negative prognostic features (see Table 8–4). Even in manic patients, depression is a prevailing symptom; despair, hopelessness, and suicidal behavior are either overt or close to the surface in every patient with mania or hypomania. Also, up to 20% of schizophrenia cases have an onset after a depressive episode (Remschmidt 2008).

**Evaluation of Anxious Symptoms**

The following case example illustrates many issues common in anxious children. It also depicts the relationship between anxiety disorders and depressive disorders.

Glenn, a 9-year-old white boy, was referred for a psychiatric evaluation because of concerns about a progressive depression with ongoing suicidal verbalizations. Glenn, his mother, and her male friend sat down for the family evaluation, and Glenn began to present his concerns in a very coherent and articulate way. He became the main spokesperson for the group. As he was talking and responding to minor cues, Glenn’s mother and her friend assented to most of what he said. Their nonverbal behavior indicated that they supported his disclosures and history presentation. At no point did Glenn's mother contradict him. He spoke with significant anxiety and with marked intensity. A child is rarely so active during a psychiatric examination.

Glenn reported that he began to feel depressed about 2 months prior to the psychiatric assessment. He had become very grouchy, and when upset, he would hit walls and stomp his feet. He was assaultive toward his younger brothers (ages 5 and 6). Glenn was moody and had problems falling asleep; he
woke up in the middle of the night and complained of nightmares. Glenn also had difficulties with his appetite. He had been thinking about suicide with increasing intensity but had developed no plans. He cried on a regular basis.

A tense custody dispute occurred when Glenn’s parents divorced 5 years earlier. Glenn’s mother remarried but then divorced her second husband a year before this evaluation. Glenn stated that he would rather kill himself than go to live with his father. Glenn’s father had been very abusive to his mother; Glenn saw her being beaten many times. Glenn also witnessed his father attempting to kill his mother on more than one occasion (his father had shot, stabbed, and battered Glenn’s mother in front of him). According to Glenn, his younger brothers were equally afraid of their father, and their father shot Glenn’s dog in the head right in front of him. There were also reports that Glenn got drunk once after his father gave him alcohol. There were no indications that Glenn had tried or used any other substances.

Glenn worried a lot about his mother. He was afraid something bad could happen to her and was protective of her. His mother said that she had posttraumatic stress disorder secondary to physical, sexual, and emotional abuse perpetrated by Glenn’s father. She worked at a nightclub. Glenn didn’t like her job and worried about it. The mother came to the evaluation inappropriately dressed in revealing shorts and blouse.

Glenn’s mother broke down when her son revealed that his father had sexually abused him. She needed a great deal of reassurance and support, both from her male companion and from the examiner. The mother had initially misrepresented the companion as a brother; he was her boyfriend. Glenn’s mother appeared helpless and on the verge of tears throughout the interview. She changed the focus from Glenn’s concerns to her own a number of times.

<table>
<thead>
<tr>
<th>Table 8–4. Negative prognostic features of depressive disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Affective disorders are frequently recurrent conditions.</td>
</tr>
<tr>
<td>2. Depressive disorders increase the risk of suicidal behavior.</td>
</tr>
<tr>
<td>3. Depressive disorders are frequently associated with comorbid conditions, such as oppositional defiant disorder, conduct disorder, substance abuse disorders, and anxiety disorders.</td>
</tr>
<tr>
<td>4. Depressive disorders have a detrimental effect on psychological and interpersonal development.</td>
</tr>
<tr>
<td>5. Depressive disorders interfere with school academic progress and with other adaptive functions.</td>
</tr>
<tr>
<td>6. Children with depressive disorders have a significant risk of developing bipolar disorders with added comorbid risks.</td>
</tr>
<tr>
<td>7. Depressive disorders are associated with suicide.</td>
</tr>
</tbody>
</table>
Glenn felt very close to his grandparents, but his mother had concerns about them because of their drinking. The most recent stressors for the family had been the family’s recent relocation from Okinawa, Japan, and the mother’s separation from her second husband.

Two years prior to the evaluation, Glenn saw a psychiatrist after one of his younger brothers had been sexually molested by his stepfather’s brother. Glenn had been diagnosed with gastric ulcer a year and a half earlier and was taking antacids on a regular basis. Glenn had been educated abroad because of his father’s military career; he completed third grade in Okinawa and was currently attending advanced classes in fourth grade at the local school. Because of ongoing somatic complaints, Glenn was absent from school at least once a week. He enjoyed sports, including hockey and swimming.

The mental status examination revealed a handsome, well-dressed, and articulate 9-year-old boy who appeared to be his chronological age. He was cooperative and was an excellent historian. He gave a coherent account of his problems and fears, with minimal participation from his mother. He appeared depressed, tense, and anxious. His affect was increased in intensity but appropriate. He reported passive suicidal ideation with no plans. His thought processes were unremarkable; there was no evidence of delusional or hallucinatory experiences. His thought content centered on fears about his natural father, fears about his mother, worries that something bad would happen to him, and bad feelings in his stomach. Glenn’s level of intelligence appeared above average. He appeared to have excellent verbal skills and good receptive language. His sensorium was intact, and his judgment and insight were good. Glenn had indicated to his mother that he needed psychological help.

In Glenn’s case, a depressive disorder could be considered the predominant condition, and an anxiety disorder could be considered its major comorbid condition; however, the clinical picture could have been interpreted the other way around. Anxiety features had been the most prominent psychopathology throughout Glenn’s life. Somatization had been a major problem, and a physician had diagnosed Glenn’s anxious epigastric distress as gastric ulcer.

Not all anxious children are as forthcoming as Glenn. The examiner more frequently encounters patients who become electively mute during the psychiatric examination. Verbally engaging these children can be a challenge. The examiner needs time and patience and may also need to engage the nonverbal child using nonverbal techniques (see Chapter 3, “Special Interviewing Techniques”).

Anxiety symptoms that are commonly endorsed by preadolescents are excessive concerns about competence, excessive need for reassurance, fear of
harm to an attachment figure, fear of the dark, and somatic complaints (Bernstein et al. 1996). The most frequently endorsed anxiety symptoms by adolescents are fear of heights, fear of public speaking, blushing, excessive worrying about past behavior, and self-consciousness (Bernstein et al. 1996).

Children who develop anxiety disorders have antecedents of behavioral inhibition (see Chapter 7, “Documenting the Examination Using the AM-SIT”). This condition should be considered an enduring temperamental trait. Behavioral inhibition is indicated by a tendency to withdraw, to be unusually shy, and to show fear in the presence of novelty. Demonstrable physiological markers include higher stable heart rates during tasks that require cognitive effort; tension of the larynx and vocal cords; elevated salivary cortisol levels; elevated catecholamines; and pupillary dilation during cognitive tasks (Bernstein et al. 1996). Attachment difficulties in infancy probably predispose children to the development of anxiety disorders later in childhood (Bernstein et al. 1996). The following areas of symptomatology need to be explored on a regular basis in anxious children.

**Separation Anxiety**

Anxious children display separation difficulties. Frequently, school refusal problems bring these children to the child psychiatrist for the first time. These children are afraid of being alone and are clingy and dependent on their caregivers. Anxious children are unable to enjoy the thrills of a slumber party because they are uncomfortable venturing beyond their own homes. They have great difficulty sleeping in their own beds and often go to the parents’ room to sleep with them. Separation anxiety is a nonspecific precursor for a number of adult psychiatric conditions, including depression and a variety of anxiety disorders (Bernstein et al. 1996). Separation anxiety in adolescence is a very serious and incapacitating condition.

**Worrying**

Worrying is a common symptom. Anxious children worry that something bad may happen to their parents or complain of vague or ill-defined apprehensions. For example, they fear that “something bad” may happen to them or their primary caretakers or their family as a whole.
Fears

Fears of the dark or of storms and other specific phobias are common. Fear usually intensifies at night; a child may want to sleep with parents because of fear that something bad might happen to him or her or to the parents.

Social Phobia

Social phobia is a common impediment for anxious children. They are very self-conscious and prone to feelings of embarrassment and shame. These children suffer a lot when asked to go in front of the class or to speak in front of a group. Anxious children are doubtful, are insecure, and have poor self-esteem; they need frequent reassurance and support; and they commonly have problems initiating and maintaining friendships. Social phobias that begin in early and middle adolescence are particularly problematic. Anxious adolescents display excessive anxiety about social situations or performing in front of others because they fear scrutiny by and exposure to unfamiliar persons. For this diagnosis to apply, the anxiety should occur in peer situations, and the ability for age-appropriate relationships with familiar people must be evident (Bernstein et al. 1996).

Somatization

Somatization is a common phenomenon in anxious children. Nausea, vomiting, and epigastric pain or distress frequently accompany anxiety disorders. As Glenn’s case illustrated, these children are often incorrectly diagnosed with medical illnesses, such as peptic ulcers or irritable bowel syndrome. Anxious children also complain of chest pain, dizziness, headaches, and other somatic symptoms. Many anxious children with epigastric distress undergo unnecessary X rays, endoscopic procedures, or cardiovascular evaluations. Other anxious children make multiple visits to the pediatrician or family physician for somatic complaints. Panic symptoms are increasingly being recognized in pediatric populations.

Elective Mutism

The evolving consensus is that elective mutism represents an anxiety disorder. Black and Uhde (1995) reported that “in 97% [of cases], there was clear evidence of significant social, academic, or family impairment due to social anxi
xiety, other than that attributable to the failure to speak, sufficient for a diagnosis of SP [social phobia] or avoidant disorder” (p. 854).

**Physical and Sexual Abuse**

Many anxious children have a history of physical and sexual abuse and have been raised in environments in which marital discord and overt family dysfunction are commonplace.

**Anxiety Features Within the Family**

Children who have severe anxiety disorders often have other family members who exhibit incapacitating anxiety symptoms. The examiner should inquire if the parents are anxious or depressed. The family exploration regarding the presence of mood and anxiety disorders should be extended to the two prior generations. The following case exemplifies this situation.

Aurora, a 9-year-old Hispanic girl, was evaluated for school refusal. She had prominent somatic complaints and, due to persistent epigastric discomfort, had been diagnosed with a peptic ulcer. She had undergone endoscopy and an upper gastrointestinal series. Aurora’s mother had a crippling anxiety disorder with prominent agoraphobic features. Her maternal grandfather had quit grammar school and never returned because of severe anxiety features; he had remained agoraphobic most of his life.

**Mood Disorders**

Anxiety disorders are commonly comorbid with mood disorders, and vice versa. Judd and Burrows (1992) proposed three models to explain the relationship between depression and anxiety: 1) the *unitary model* proposes that anxiety and depression are variants of the same disorder; 2) the *dualist model* advocates that depression and anxiety are different entities; and 3) the *anxious-depressive position* proposes a mixture of the two models in which the anxiety and depression are phenomenologically different from primary anxiety or primary depression.

**Evaluation of Obsessive-Compulsive Behaviors**

In adults, obsessive-compulsive disorder (OCD) is two to three times more common than schizophrenia and takes, on average, two decades from the on-
set of the disorder until it is appropriately diagnosed and treated. The delay in diagnosing OCD is similar when it starts in adolescence; however, children with severe obsessive-compulsive features in latency age and preadolescence are referred more quickly for a psychological or psychiatric evaluation due to their broad dysfunction and broad adaptational handicaps. Diagnosing these cases is very challenging. The delay in diagnosis may be shortened by a systematic exploration of OCD symptoms in children and adolescents. OCD in preadolescence probably is about 10 times more frequent than schizophrenia.

A four-factor (ordering, checking, symmetry, and aggression) category-based OCD symptom dimension model provides an adequate but limited quantitative representation of symptomatology in children, adolescents, and adults (Stewart et al. 2008). Significant prevalence differences were found across age groups in the categories of obsession/aggression (adults > children > adolescents), compulsion/ordering (children > adults), and compulsion/checking (adults > children; Stewart et al. 2008).

Hoarding tended to be associated with longer illness and higher levels of depression, and both parents and children endorsed greater emotional problems and emotional difficulties; the symmetry/ordering dimension is more likely to be associated with Tourette’s disorder or a tic disorder; the contamination/cleaning dimension was more associated with higher avoidances scores (Mataix-Cols et al. 2008). Hoarding symptoms are more common in children than in adults, and these symptoms are associated with greater comorbidity, disability, and poor compliance with and response to conventional drug and cognitive behavioral treatments. In this study, checking symptoms loaded on the same factor as hoarding; this was unexpected (Mataix-Cols et al. 2008).

When evaluating a patient for obsessive symptoms, the examiner should ask about unwelcome and recurring thoughts: Do any thoughts keep coming to your mind in spite of your efforts to get rid of them? What are they? Because of the irrational nature of the intrusive thoughts, many obsessional adolescents fear they are becoming insane. Some may respond affirmatively when the examiner asks, “Do you fear you are going crazy?” The examiner should determine the context in which the symptoms worsen or reappear.

As reported by Mataix-Cols et al. (2008), boys were found to have more sexual obsessions than girls (34% vs. 18%), but girls had more sexual rituals than boys (53% vs. 36%). The most common obsessional symptoms are concerns about dirt and germs, fears of an ill fate befalling loved ones, preoccu-
Concerns over bodily functions, preoccupations with lucky numbers, sexual or aggressive preoccupations, and fear of harm to oneself are less common (Towbin and Riddle 1996). Obsessional thinking related to forbidden, aggressive, and sexual content (e.g., perverse sexual thoughts) is infrequent in adolescents but occurs more commonly in adults.

Prominent obsessive-compulsive symptomatology occurs in a variety of psychiatric and neurological disorders. Depressed children frequently struggle with obsessional ideas about committing suicide and ruminate a great deal about their self-worth and lovability. Some aggressive children have recurrent homicidal ideations. Obsessional features are also common in adolescents who have addictive tendencies or perverse proclivities. Obsessive-compulsive features are also prevalent in children with eating disorders. Obsessional concerns with weight and body image, often of a quasi-delusional proportion, are prominent symptoms in children with severe cases of eating disorders. These symptoms need to be explored exhaustively. In children with OCD, the examiner needs to explore the possibility of Tourette’s disorder.

Hollander and Benzaquen (1996) proposed organizing OCD spectrum disorders in three overlapping clusters. Table 8–5 illustrates this concept.

Compulsive features are more common than obsessional thinking during childhood, and compulsive features are more common in children than adults. The examiner needs to ask children about ritualistic behaviors such as hand washing, taking a number of showers a day, changing clothes many times during the day, doing and undoing behaviors (e.g., tying and untying shoes, checking and rechecking doors and windows, fussiness with food while eating, collecting and hoarding, orderliness, and so forth.

When careful investigation does not reveal the presence of overt repetitious activities, the examiner should proceed with sensitive probing to rule out the presence of less obvious compulsive activities. The exploration of compulsive symptoms can be initiated by asking the following questions: Are there any silly habits that you cannot stop? Are there any habits you do in secret that you do not want people to know about? Children commonly respond by mentioning nail biting or hair pulling (trichotillomania). Skin picking is another compulsive symptom (see Britt’s case example in Chapter 15, “Countertransference”). Table 8–6 summarizes the compulsive features that Swedo et al. (1989) identified as the most common in children with
In children and adolescents, rituals are more common than are obsessions, and pure obsessional presentations are rare.

Some children spend a great deal of time readying themselves for school in the mornings, and their grades may become worse when their compulsive

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Characteristics</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Marked preoccupation with bodily appearance and sensations and with associated behaviors performed with the goal of decreasing anxiety brought on by these preoccupations</td>
<td>Body dysmorphic disorder</td>
</tr>
<tr>
<td>2</td>
<td>Impulse-style disorders</td>
<td>Intermittent explosive disorder&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>3</td>
<td>Neurological disorders with compulsive features</td>
<td>Autism</td>
</tr>
</tbody>
</table>

*Note.* An overlap is suggested between obsessive-compulsive disorder and somatoform, dissociative, eating, tic, neurological, autistic, pervasive developmental, and impulse control disorders.<br/><sup>a</sup>Symptoms more common in females.<br/><sup>b</sup>Symptoms more common in males.


OCD. In children and adolescents, rituals are more common than are obsessions, and pure obsessional presentations are rare.

Some children spend a great deal of time readying themselves for school in the mornings, and their grades may become worse when their compulsive
repetitive behaviors interfere with their academic work. The following case ill-
illustrates many of the features commonly described in adolescents with OCD.

Ann, a white adolescent, was 16 years old when her parents requested a psy-
chiatric consultation. Ann's grades were deteriorating, her fears and inhibition
were increasing, she was becoming socially withdrawn, and she demonstrated
an increased need for her mother's assistance in both personal care and home-
work assignments. Ann had been shy all her life, but her social isolation had
become progressively more noticeable. She had begun to refuse to leave home
during the weekends and was feeling progressively uneasy in social situations.
She was intelligent and had striking artistic talents. Her parents had noticed
that her need for perfection had intensified during the preceding 3 months,
coinciding with the observation that she got “stuck” more frequently in the
mornings when she had to get ready for school. She often missed the school
bus because it took her a long time to get ready in the morning.

Ann's problems in the morning started with difficulty finishing her
shower. She would spend a great deal of time soaping herself over and over;
she couldn't stop doing this. While dressing, she would get stuck buttoning
her shirt and could not finish tying her shoes because she needed to tie them
over and over again. Sometimes she got stuck putting her shoes on because of

---

**Table 8–6. Common compulsive behaviors in children and adolescents**

<table>
<thead>
<tr>
<th>Behavior</th>
<th>Percentage of cases involving this behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excessive and ritualized hand washing, showering, bathing,</td>
<td>85</td>
</tr>
<tr>
<td>tooth brushing, and grooming</td>
<td></td>
</tr>
<tr>
<td>Repeating rituals (e.g., going in and out of a door, up and</td>
<td>51</td>
</tr>
<tr>
<td>down from a chair)</td>
<td></td>
</tr>
<tr>
<td>Checking rituals (e.g., checking doors, windows, locks,</td>
<td>45</td>
</tr>
<tr>
<td>appliances, emergency brakes, paper route, homework)</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous rituals (e.g., writing, moving, speaking,</td>
<td>26</td>
</tr>
<tr>
<td>rubbing body parts)</td>
<td></td>
</tr>
<tr>
<td>Rituals to avoid contact with contaminants</td>
<td>23</td>
</tr>
<tr>
<td>Touching</td>
<td>20</td>
</tr>
<tr>
<td>Counting</td>
<td>18</td>
</tr>
<tr>
<td>Hoarding and collecting</td>
<td>11</td>
</tr>
</tbody>
</table>

*Source. Adapted from Swedo et al. 1989.*
her compulsion to align the creases of her socks with certain features of her shoes. To cope with Ann's worsening behavioral paralysis, her mother had begun to wake Ann very early and had taken a progressively more active role in helping Ann to keep moving and to not get stuck. Her mother's assistance included bathing her, dressing her, and so on. Ann's mother also participated actively in her homework, because Ann had similar difficulties finishing this task. The intensification of Ann's regressive and dependent behaviors was wearing her mother's patience very thin. Ann was unable to explain her peculiar behaviors and denied any significant ongoing concerns. Ann's progressive incapacitation affected her whole family, and her mother in particular.

When children and adolescents have impulse control features, the examiner should ask whether they have any urges they cannot control. The urges could be of a diverse nature: urges to perform inappropriate sexual acts, to hurt others, to purge, to eat, to steal, to use drugs, to commit self-injurious acts, and so forth.

Transitory but pronounced obsessional and compulsive features are common in patients undergoing profound psychotic regressions (e.g., in those with schizophrenia and bipolar disorder). Frequently, these transitory clinical pictures are misdiagnosed because of the prominent nature of the obsessional-compulsive features. Consider the following case example.

Ramona, a 13-year-old Hispanic adolescent, presented for treatment in a florid manic state. She displayed conspicuous compulsive traits, and her mother reported that Ramona was preoccupied with dirt and that she went around the house cleaning and vacuuming. She also spent an inordinate amount of time picking up things from the floor and tidying up.

An alternative interpretation to Ramona's clinical picture is that she had bipolar disorder and OCD; such comorbidity is common in patients with bipolar disorders. Anxiety disorders may be forerunners for mood disorders, particularly for bipolar disorder.

The examiner should inquire about the presence of comorbid conditions because the majority of children with OCD have associated comorbidity. Frequently associated conditions are depressive and anxiety disorders (e.g., elective mutism, separation anxiety, social phobias), disruptive behavior disorders, and developmental language or learning disorders. A compulsive personality disorder is uncommon. Soft neurological and neurocognitive deficits are ob-
served in some children with OCD. The examiner should also determine whether OCD features are present in other family members because such features are common in close relatives of children with OCD.

Of great interest are observations that link streptococcal infections to the onset or exacerbation of OCD symptoms (March and Leonard 1996). Due to these observations, in new cases of OCD or in reactivations of the disorder, the examiner should inquire about recent streptococcal infections. However, the debate continues about the existence of pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections. Two prospective longitudinal studies have shown no association between group A beta hemolytic streptococcus and the onset or exacerbation of OCD (Roessner and Rothenberger 2008), but a recent epidemiological study seems to confirm the link between streptococcal infections and a number of neuropsychiatric symptoms, including OCD, tic disorders, ADHD, and major depressive disorder (Leslie et al. 2008).

**Evaluation of Eating Disorders**

Eating disorders are relatively common and serious psychiatric disorders that often have an onset during adolescence and young adulthood. These disorders can be life threatening. Anorexia nervosa and bulimia nervosa are the two specific DSM-IV-TR eating disorders, but the broader category of eating disorder NOS is the most frequent eating disorder presentation in children and adolescents. Regardless of the diagnosis, patients with eating disorders have severe difficulties maintaining both normal patterns of eating and a normal weight range. Patients with eating disorders often try to control or lose weight by exercising excessively; using laxatives, diuretics, or other medications; or practicing other types of behavior (e.g., purging). Many of these patients have a persistent distortion of body image. Individuals with anorexia nervosa tend to be obsessive and perfectionistic; they have low self-esteem and difficulty recognizing their feelings (alexithymia). Subjects with bulimia nervosa tend to be impulsive and self-critical. These issues need to be explored. The predisposing role of childhood experiences, including sexual abuse, is uncertain. Weight gain and changes in body shape due to puberty may contribute to the onset of the eating disorder (Fleitlich-Bilyk and Lock 2008).
Anorexia nervosa is characterized by four major symptoms: 1) weighing less than 85% of expected weight; 2) fear of gaining weight or becoming fat, even though underweight; 3) disturbance in perception of one’s body or body shape; and 4) amenorrhea in postmenarche females (Fleitlich-Bilyk and Lock 2008). These factors need to be identified. An accurate parameter to measure weight loss in children and adolescents is a decline in weight percentile. A decrease in body mass index is not suitable for premenarche individuals (Fleitlich-Bilyk and Lock 2008).

Bulimia nervosa is characterized by 1) recurrent episodes of binge eating and 2) recurrent compensatory behavior to avoid gaining weight (e.g., purging, use of laxatives or diuretics, fasting, excessive exercise). In bingeing episodes, during discrete amounts of time, an individual consumes a larger amount of food than most people. The person has a sense of lack of control over eating during these episodes. The examiner needs to explore and identify these features. Commonly, the individual has an increased focus on weight and shape, followed by an increase in dieting and exercise. Concerns about weight or shape may be so extreme that the patient develops unhealthy strategies for weight loss, such as severe restriction, excessive exercise, and purging. A vicious cycle of dieting, binge eating, purging, and anxiety about weight and shape is perpetuated (Fleitlich-Bilyk and Lock 2008).

Common comorbid conditions with eating disorders are depression, anxiety, and personality disorders. Affective disorders co-occur with or appear after the eating disorder in 52%–98% of the patients, and approximately 65% of individuals with anorexia nervosa have some form of anxiety disorder (Fleitlich-Bilyk and Lock 2008). OCD is commonly associated with anorexia nervosa, and social phobia often co-occurs with bulimia nervosa. Comorbid disorders persist after recovery from eating disorders and are appropriate targets of treatment (Fleitlich-Bilyk and Lock 2008).

**Evaluation of Psychotic Symptoms**

Psychotic symptoms are rather common in the overall psychopathology of childhood and adolescence. Affective psychoses (i.e., psychoses associated with mood disorders), dissociative psychoses (i.e., psychoses associated with posttraumatic stress disorder or dissociative identity disorder), and psychoses
associated with or secondary to addictive substances are commonly seen in clinical practice. Psychosis associated with complex partial seizures is probably seen more frequently than schizophrenia. Very early onset schizophrenia disorder, formerly called childhood schizophrenia, is a rare psychiatric disorder. Not all psychotic symptoms have a progressive or negative prognosis.

Clinicians seldom encounter preadolescents with schizophrenia, except in inpatient settings. Even among the most seriously disturbed children, schizophrenia is an uncommon illness in preadolescence. Remschmidt (2008) asserted that very early onset schizophrenia is rare, occurring in 2 per 1 million children. I agree that very early onset schizophrenia is rare, but not as rare as Remschmidt stated. Remschmidt quoted Gillberg (2001), who speculated that schizophrenia before age 15 is about 50 times more rare than after that age, and that in child and adolescent inpatient psychiatric settings, up to 5% of patients ages 13–19 years are typically diagnosed with schizophrenia (Remschmidt 2008).

Very early onset schizophrenia and some forms of early onset schizophrenia are now considered to be neurodevelopmental and neurodegenerative disorders. In Harris’s (1995) opinion, “although childhood onset schizophrenia seems to be on a continuum with adult schizophrenia, it represents the more severe neurobiologic presentation” (p. 411). This disorder is commonly described as causing multidimensional impairments (i.e., children with schizophrenia demonstrate functional disturbance in many developmental domains). The schizophrenic process is insidious, and more often than not, the affected child comes to the child psychiatrist only after many years of developmental disturbance.

For a number of developmental events and precursors for very early onset schizophrenia and early onset schizophrenia, see Table 8–7.

In a study of patients with pediatric bipolar disorder, Pavuluri et al. (2004) found that the early onset of psychotic features put those patients at risk for a poor long-term outcome. Adolescent mania requiring hospitalization appears to have a poorer short-term prognosis than adult-onset mania. Psychotic disorders in patients with bipolar disorder are considered an indicator of poor interepisodic functioning. Also, psychosis associated with pediatric mania is unrecognized or overlooked (Pavuluri et al. 2004). Compared with patients with adolescent onset bipolar disorder, patients with prepuberal and early onset bipolar disorder had higher incidence of irritability, mixed
features of depression, poor interepisodic recovery, and rapid cycling. Higher rates of grandiose and paranoid delusions also occurred in patients with pre-pubertal and early onset bipolar disorder. The prevalence rate of psychosis in patients with prepubertal and early onset bipolar disorder ranged between 61% and 87.5%, depending on the assessment instrument used (Pavuluri et al. 2004).

For some patients, the examiner may need to differentiate between very early onset schizophrenia and pediatric mania. Table 8–8 is useful in this differential diagnosis.

Examiners should ask the following questions if a child is suspected of having schizophrenia: Does the family have a history of schizophrenia? Have any family members had difficulties relating to others? The following questions are pertinent regarding the child’s developmental history: How was the preg-

### Table 8–7. Developmental events and precursors of very early onset and early onset schizophrenia

<table>
<thead>
<tr>
<th>Developmental</th>
<th>Neurodevelopmental</th>
<th>Autonomic reactivity changes</th>
<th>Premorbid conditions</th>
<th>School difficulties</th>
<th>Social difficulties</th>
<th>Psychotic features</th>
<th>Cognitive deficits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pandysmaturation</td>
<td>Soft neurological signs</td>
<td>Deviant patterns of brain maturation</td>
<td>Premorbid anxiety and social withdrawal</td>
<td>Hyperactivity in boys</td>
<td>Withdrawal in girls</td>
<td>Depression</td>
<td>Transient symptoms of PDD</td>
</tr>
<tr>
<td>Neurodevelopmental</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premorbid conditions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premorbid anxiety and social withdrawal</td>
<td>Hyperactivity in boys</td>
<td>Withdrawal in girls</td>
<td>Depression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School difficulties</td>
<td>Social difficulties</td>
<td>Psychotic features</td>
<td>Cognitive deficits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premorbid anxiety and social withdrawal</td>
<td>Hyperactivity in boys</td>
<td>Withdrawal in girls</td>
<td>Depression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cognitive deficits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note.  PDD=pervasive developmental disorder.
Source.  Adapted from Remschmidt 2008.
nancy? Were there any problems during labor and delivery? Were there any neonatal complications? Was the baby responsive to the mother (or primary caregiver)? Did the child cuddle? Did he or she mold into the mother’s arms? When did the major developmental milestones occur? In particular, when did social smiling and stranger anxiety first occur? When did the child begin to talk? What was the child’s socialization progress? What progress has the child made in the process of separation-individuation? What autonomous behavior is the child able to demonstrate? What self-care behaviors is the child capable of? Is the child able to sleep alone in his or her own bed? Does the child

Table 8–8. Differential diagnosis between pediatric mania and very early onset schizophrenia

<table>
<thead>
<tr>
<th></th>
<th>Pediatric mania</th>
<th>VEOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevalence</td>
<td>Uncommon</td>
<td>Rare</td>
</tr>
<tr>
<td>Mood incongruent delusions</td>
<td>Uncommon</td>
<td>More common</td>
</tr>
<tr>
<td>Mood congruent delusions</td>
<td>Common</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Grandiose delusions</td>
<td>Common (50%)</td>
<td>Uncommon (11%)</td>
</tr>
<tr>
<td>Hallucinations</td>
<td>Delusions/hallucinations common during mood episodes¹</td>
<td>Common (80%)</td>
</tr>
<tr>
<td>Thought disorder</td>
<td>Pressured speech</td>
<td>Loosening of associations</td>
</tr>
<tr>
<td>Non psychotic</td>
<td>25%</td>
<td>7%</td>
</tr>
<tr>
<td>Mood</td>
<td>Irritability, elation, depression and mixed</td>
<td>Depression in prodromal and residual phase</td>
</tr>
<tr>
<td>Family history</td>
<td>Commonly homotypic</td>
<td>Less commonly homotypic</td>
</tr>
<tr>
<td>Chronic impairment</td>
<td>25%–40%</td>
<td>90%+</td>
</tr>
<tr>
<td>Episodicity</td>
<td>20%–50%: AO-BD; 0%–16%: PEA-BD</td>
<td>Non-episodic</td>
</tr>
<tr>
<td>Promptness of diagnosis and treatment</td>
<td>May be short</td>
<td>Usually long</td>
</tr>
</tbody>
</table>

Note. AO-BD: adolescent onset bipolar disorder; PEA-BD: prepubertal and early adolescent bipolar disorder.

Source. Adapted from Pavuluri et al. 2004.

demonstrate consistent behavioral organization (see Chapter 7, “Documenting the Examination Using the AMSIT”)? Is there any harmony in the progress of the developmental lines (see Chapter 12, “Comprehensive Psychiatric Formulation”)? If the child demonstrates affect disturbance or mood dysregulation, the history and evolution of these disturbances must be explored.

Relevant questions regarding psychosocial development include the following: Does the child play with other children, or does the child prefer to be alone? Is the child able to share? How easy is it for the child to make friends? Is the child able to keep the friends that he or she makes? Is the child invited to birthday or slumber parties? Does the child behave or play in a gender-appropriate manner? Does the child demonstrate empathy or a concern for others? Does the child demonstrate any realistic self-esteem or self-worth? These questions are equally relevant in the evaluation of profound developmental disturbances such as autism and pervasive developmental disorders.

Fundamental observations during the psychiatric examination focus on the child’s overall demeanor, the degree and appropriateness of the child’s relations to the family and to the examiner, the propriety of the child’s social behavior, the range and appropriateness of the child’s affective display, and the nature of the child’s thought processes. The following case example illustrates the clinical presentation of very early onset schizophrenia in a child of middle latency age.

Rick, a 9-year-old white boy, was given an emergency psychiatric examination after his mother saw him attempting to push his 6-year-old brother down the stairs. Rick had been seen by a number of psychiatrists over the years in response to his teachers’ expressed concerns about his unusual behaviors. Rick had trouble getting along with his peers and demonstrated profound emotional immaturity. He still carried around a teddy bear, sucked his thumb, and kept pretty much to himself, even on the playground. He frequently adopted unusual postures, such as curling into a fetal position or lying down under his desk. Most of the time, he withdrew from group interactions. Although Rick had been tested in the past and was found to have normal intelligence, his academic performance had deteriorated progressively over the previous few years. His parents had been told that Rick was hyperactive, and he had tried taking stimulant medications. The medications had no beneficial effects; instead, Rick demonstrated more irritability and worsening of his persistent sleep disturbance. He was able to sleep in his own bed, but it would take him a long time to fall sleep. A few days before the evaluation, Rick’s par-
ents took him to a neurologist. There were no neurological findings, and an electroencephalogram (EEG) showed only nonspecific findings.

Rick would wake up around 6:30 A.M. every morning, but he was very slow in getting ready for school. His mother provided a great deal of assistance with his hygiene and dressing, even though Rick could do those tasks by himself (cognitive dyspraxia). Rick was a fussy eater and was very thin. There were always questions about his health. In the past, Rick’s food intake had been supplemented with Ensure. His mother also complained that her son got easily upset and that he would become enraged at minor provocations. Anger dyscontrol was a significant problem. He regularly focused his anger on his younger brother. Rick had become progressively more aggressive with his brother and had attempted to choke him. The day of the examination, Rick had attacked his mother as well.

Six months before the evaluation, Rick had disclosed that he began hearing voices when he was 8 years old. He claimed he heard a mean voice telling him to do bad things like hitting and kicking his brother hard. This voice also told him to hurt his 17-year-old sister and asked him to be mean to the family dog. He said that sometimes he could make the voices go away, but sometimes he couldn’t.

Rick was born prematurely and experienced respiratory distress. He spent 11 days on a respirator and stayed in the neonatal unit until he was 4 weeks old. His language development was precocious: Rick began to talk by age 8 months and spoke in full sentences by age 18 months. He did not start walking until after he was 12 months old. Rick’s father had always felt very proud of his son’s intelligence. When his mother expressed concerns about Rick to her husband, he disregarded her anxieties.

Rick’s mother first became concerned about her son when he was 4 years old. At that time, she heard from other mothers and friends that there was something unusual about Rick. She heard similar concerns from the day care center staff; in particular, she was told that Rick had problems socializing with other children. At times, Rick complained that other kids made fun of him, in part because he frequently told stories about aliens. His mother described Rick as introverted; he didn’t initiate play with his peers and tended to play by himself.

Rick had been on the honor roll in first and second grades, but his academic performance had deteriorated. At school, Rick was described as oppositional and had problems doing schoolwork, but there had been no reports of physical aggression or explosive outbursts. Rick had required one-to-one teaching during kindergarten.

Rick’s parents had been married for 12 years. Rick’s mother had two children from her first marriage: a 21-year-old son and a 17-year-old daughter. The son had stayed with the father, and the daughter had lived with her
mother until she was 15 years old, at which time she decided to live with her father. She had moved back to her mother’s home 4 months before Rick’s psychiatric evaluation. Apparently, Rick had taken it very hard when his sister left 2 years earlier: he had become depressed, stopped eating, and cried a great deal. His mother reported that Rick had returned to “normal” after his sister came back. Rick’s parents reported no history of physical or sexual abuse. Their marriage was described as stable. His mother reported being markedly stressed about Rick’s problems to the point that she had feared hurting him.

The mental status examination revealed a thin, almost emaciated, and peculiar looking boy who looked and acted younger than his age. Rick held his teddy bear, called Hypo, all the time. Rick smelled Hypo frequently and kept it close to his chest. Rick had big, unexpressive eyes and big ears. His eye contact was erratic. At times, he stared blankly at the ceiling or the wall. Occasionally, he would display unusual eye movements and would converge his eyes in a peculiar fashion. His posture was unusual. He slouched in the chair despite his parents’ prompting him to sit upright. Rick would often bend over and seemed able to rest his chest on his lap. He also displayed unusual finger movements, mostly stereotypic, in both hands. He sucked his thumb sporadically. Rick would stay in abnormal positions for extended periods of time. He was also very fidgety.

Rick didn’t display any spontaneous speech. When he was asked a question, there were prolonged latencies. Both the parents and the examiner often needed to repeat a question before he would start talking. His responses were simple and unelaborated, and he spoke in a halting and hesitating manner. Rick remained indifferent, if not detached, in his manner of relating to the examiner. He sometimes appeared vacant and distant. Rick’s mood appeared euthymic, but his affect was markedly constricted and remained so throughout the psychiatric examination. The range and intensity of his affect were markedly decreased. No evidence of inappropriate affect was observed. It was questionable if the examiner ever achieved engagement.

When asked about the incident with his brother, Rick said that a voice commanded him to push his brother down the stairs. Rick said that he had been hearing four kinds of voices for a long time. A mean voice asked him to do mean things and got him in trouble all the time. Rick added that he wanted to block this voice, but often he couldn’t. He described the second voice as the “wacky one”: that voice asked him to do funny and silly things (e.g., make noises). He said he could block this voice but did not want to. The third voice was a kind one. A fourth voice, a “weird one,” sounded like a vampire that could predict the future. This voice told him to go to the bathroom to do either “number one” or “number two” and talked to him about eating. Rick reported visual hallucinations: he saw animals from time to time. Rick also believed that he had a person in his stomach that pushed his stomach to one side.
Rick also said that his teddy bear talked to him. Rick's responses to the examiner's questions were disjointed and rambling, and often it was hard to follow what he was saying. His sensorium was clear; there were no signs of any overt expressive or receptive language difficulties. (For more information regarding additional diagnostic assessment on this child, see Note 3.)

Based on Rick's developmental history, his difficulties with interpersonal relatedness, the presence of stable regressive behavior, and his long history of psychosis, a diagnosis of very early onset schizophrenia was made. Rick fulfilled DSM-IV-TR criteria for the diagnosis of schizophrenia: criterion A (psychotic symptom lasting more than 1 month), criterion B (social and occupational dysfunction), and criterion C (the disturbance having persisted for more than 6 months).

The child in the preceding case example has features similar to those described in early onset schizophrenia: “With the early onset of schizophrenia, there is a higher frequency of premorbid developmental disorders; rates of 54% to 90% have been reported, depending on the study; the earlier the onset, the more likely the developmental disorder. Premorbid schizoid and schizotypal personality features are commonly reported; the child is seen by others as odd, anxious and socially isolated” (Harris 1995, p. 411).

Rick is an interesting example of disharmony in the unfolding of the developmental lines (see Chapter 12, “Comprehensive Psychiatric Formulation”). He exhibited precocious cognitive and linguistic development, but other lines lagged behind or did not develop at all.

The diagnosis of very early onset schizophrenia should not be made without a comprehensive assessment, including a detailed developmental history, a detailed psychosocial assessment, a methodical psychiatric examination, a physical and neurological examination, and related tests and procedures. Complete psychological testing (psychoeducational and projective) is mandatory. In any given case, other testing and examinations may be deemed necessary (e.g., speech and language assessment, neuropsychological testing, further neurological evaluations such as an EEG or neuroimaging studies; for a list of instruments used in the diagnosis of schizophrenic disorders of childhood and adolescence, see Table 8–9.)

Although the presence of thought disorder is necessary for the diagnosis of schizophrenia, this criterion is not sufficient to make such a diagnosis. In the absence of any significant medical or neurological disorder, the child must
show persistent developmental deviation or developmental arrest (or marked loss of the adaptive capacity), profound problems in interpersonal relationships, disturbance in affect and emotional development, and clear evidence of thought disorder. (For the differential diagnosis of psychotic symptoms in children and adolescents, see Cepeda 2007, Chapters 6 and 7.)

Schizophrenia in childhood is associated with unspecific neurological findings, language disorders, cognitive impairments, ADHD, and other disorders. The psychiatrist should exhaustively rule out medical and neurological conditions. Finally, the examiner needs to heed Volkmar’s (1996) advice: “If psychosis is suspected, consideration of the patient’s safety—and, as appropriate, that of others—should be the initial consideration” (p. 848).

The following case example illustrates the development of schizophrenia in middle to late adolescence (i.e., early onset schizophrenia).

Troy, a 17-year-old Hispanic adolescent, had been referred by the local school district because of concerns over bizarre behaviors that included inappropri-
ate sexual verbalizations and open masturbation. He had been verbalizing homosexual intentions and spoke about having sex with a dog. It had been reported that Troy kept checking his “belly,” even in front of people. Before the evaluation, Troy had inappropriately grabbed a teacher’s hand. Teachers and classmates felt uneasy about him.

Troy’s mother complained that her son had problems with hygiene and personal care. She also reported that Troy frequently got angry and that he was self-abusive. According to his mother, Troy had demonstrated disturbed behavior for the past few years. Troy had undergone his first psychiatric evaluation the previous Christmas (1 year before the current evaluation). Three months before the first psychiatric examination, he had spent 3 weeks in a program for adolescents at the local state hospital after he stopped eating.

Troy was conceived out of wedlock, and the pregnancy was uneventful. Troy’s father was described as alcoholic. His mother reported no significant problems with her son during childhood. Apparently, Troy was sexually abused (anal penetration) by one of his maternal uncles when he was 10 years old. The family also reported a history of physical abuse. Troy’s mother reported that one of her brothers and an uncle were mentally ill. The precise nature of those illnesses could not be ascertained. Troy had tried a number of drugs in the past, including LSD, marijuana, alcohol, and tobacco products.

Troy’s mother reported changes in his behavior after she had a stroke, 2 years before the evaluation. After the stroke, the mother was paralyzed on her right side for months. During that time, she had severe expressive language difficulties. She still had problems with word finding (the examiner also felt that she had difficulties understanding the seriousness of her son’s psychiatric problems).

Troy was born abroad but had been brought to the United States when he was about 5 years old. At the time of the psychiatric evaluation, Troy was living with his mother and his stepfather. The relationship between stepfather and stepson was not positive because the stepfather was in charge of limit setting, and he had to discipline Troy for his inappropriate behaviors, which included open disrespect and overt indiscretions toward his mother. Although Troy had opportunities to see his natural father, he had shown no interest in doing so.

During the previous year, the parents had noticed a progressive deterioration in Troy’s behavior. Troy’s mother had observed him masturbating openly and without any discretion or sense of propriety. Troy often made inappropriate sexual comments to his mother. When his attention was called to these improprieties, he blandly responded by saying, “There was nothing wrong with that.” During the previous year, Troy had developed an infatuation with Salvador Dali’s art; he spent a lot of time drawing surrealistic drawings of body parts with explicit sexual content. Troy took offense when his
family called his attention to the impropriety of his art. His dream was to become an artist like Dali, and he daydreamed of exhibiting his artwork.

The mental status examination showed a tall, Hispanic male who looked younger than the stated age. Troy displayed an inappropriate smile throughout the examination. Troy's grooming and hygiene were poor. He wore baggy pants and a T-shirt with M.C. Escher drawings on the front and back. His medium-length black hair was tucked behind his ears, and his fingernails were painted black. Troy walked slowly, and his posture was stooped.

As soon as Troy and his mother entered the interviewing room, he sat down and began to touch and inspect his abdomen. His mother asked the examiner why Troy kept looking at and touching his belly. The examiner told the mother in a playful and humorous manner that maybe Troy thought he was pregnant. Upon hearing this, Troy smiled and, expressing a sigh of relief, said, “You see, mom, this doctor makes a lot of sense.”

Troy remained aloof and distant throughout the interview, and the examiner could not develop rapport with him. Troy was unfriendly and had very poor eye contact. He was also evasive and secretive. He looked mildly depressed, and his affect was grossly inappropriate: he displayed a silly, sardonic smile throughout the interview. The range and intensity of his affect were decreased. Troy was oriented to time and place. His memories were intact, and his intellectual functions appeared average.

In the area of thought processes, Troy was not logical and at times was incoherent. Troy exhibited very loose associations. He claimed that he heard and saw his own thoughts. He was markedly delusional; his delusions related to the end of the world and were blasphemous in nature. He made innumerable references to feces, body orifices, and primitive sexual misconceptions. For instance, he thought that Jesus was made of the “crap that comes from the butt.” There was also repeated telescoping (e.g., merging, confusion) of psychosexual issues. He talked about a girl who was born from the butt of the cross. A repeated theme was that of a child who is being delivered vaginally to become the leg of his mother. He wondered if he was pregnant. He advanced that he would like to be a girl when he dies and wished he had his whole body full of penises and wished that girls had multiple vaginas. He wished he could die and have sex.

He declared that Satan had sex with Jesus. In reference to the latter, he brought to the examination a picture he was proud of: a large poster, of good artistic quality, in which Satan was sodomizing Jesus. Troy seemed pleased to be showing his artwork and was completely unaware of the offensive nature of its content. He seemed very surprised when the examiner asked him to think about the implications of such a picture in a very religious Christian community. Troy didn’t see anything wrong with it. Troy stated that when he masturbated, he became God; he also saw God. When he was questioned
about suicidal ideation, he responded that he thought about it. When asked if he had any plans to kill himself, he was secretive and evasive. He denied any homicidal ideation. His judgment and insight were nil. For more information regarding further diagnostic assessment of this adolescent, see Note 4.

Troy fulfilled diagnostic criteria for schizophrenia. He had history of active symptoms (hallucinations and delusions) for more than 1 year (criterion A). Residual symptoms (i.e., affective flattening) and marginal educational and interpersonal functioning (i.e., significant compromise of the level of adaptive functioning, including a decline in self-care and minimal social adjustment) were also present (criterion B). Troy demonstrated serious impairment of reality testing, and he lacked insight and a sense of social propriety (judgment impairment). He also displayed a conspicuous thought disorder. Finally, the global disturbance had lasted for over 1 year (criterion C).

The caution expressed regarding the diagnosis of very early onset schizophrenia applies equally to the diagnosis of early onset schizophrenia. A complete medical and neurological examination is mandatory before early onset schizophrenia can be diagnosed, because medical and neurological conditions can mimic schizophrenic disorders. Consider the following case example.

Myra, a 16-year-old white adolescent, was brought for a psychiatric examination by her natural mother, who had been followed by the examiner for paranoid and dysphoric features. Myra’s mother complained that Myra did not show any initiative in taking care of herself and that she needed to be “on her” about basic personal care, including hygiene. At school, Myra refused to participate or to do any schoolwork; at home, she wanted to stay in bed or in her room most of the time. She had been evaluated by a psychiatrist a number of months before the current evaluation and had received the diagnosis of chronic schizophrenia. Olanzapine had been prescribed for her, but her mother had interrupted the neuroleptic treatment because Myra became sedated. Myra did not have a history of seizures or head trauma or a history of fainting or blacking out. She had no significant medical history.

According to Myra, she regularly saw Jesus and her dead baby brother. She had been experiencing those perceptions for 5 years. Both Jesus and her baby brother said to her, “You will be dying soon...you will be reuniting with your brother.” Myra enjoyed hearing these voices, claiming that they were soothing. She wanted to join her brother in heaven and anticipated she would die in a few years.

The mental status examination revealed a quiet, withdrawn, nonspontaneous adolescent who appeared somewhat older than the stated age. Her psychomotor activity was decreased, and her speech was dysprosodic. She spoke
in a monotone with no emotion. Her mood appeared depressed, and her af-
fect was markedly blunted. Myra denied homicidal or suicidal ideation. She
was illogical but goal directed. She endorsed auditory, visual, gustatory, and
olfactory hallucinations. Besides hearing and seeing her dead brother and
Jesus, she reported a periodic experience of “an awful smell, like a skunk,”
and “a taste, like throwing up.” During those experiences, Myra felt con-
fused. She also endorsed strong and prominent paranoid delusions. She be-
lieved that many people wanted to kill her and that people had guns and
knives for that purpose. Myra believed she had been in danger since she was
3 or 4 years old. Her sensorium was clear.

Because of the diagnostic impression of complex partial seizures, Myra
was referred to a neurologist. Her mother refused to comply with the consul-
tation and also refused to consider neuroleptic medications, claiming that
previous experiences with those medications had been negative. Because the
examiner thought that the probability of a complex seizure was strong, he pre-
scribed valproic acid. When the examiner saw Myra 2 weeks later, the sense
of confusion and the olfactory and gustatory hallucinations had improved.
Although Myra was still seeing her brother and Jesus, these experiences and
the voices associated with them were less frequent than before. The changes
in Myra’s mood and in her emotional display were most striking. She was
more expressive and displayed a broader range and richer intensity of affect.
Her paranoid feelings had decreased, and she felt less suspicious and more at
ease. The dosage of valproic acid was adjusted, and Myra’s psychotic and para-
noid symptomatology improved further.

Although Myra fulfilled criteria for the diagnosis of paranoid schizophre-
nia, she probably had a neurological disorder—a complex partial seizure dis-
order. An alternative explanation is the presence of a mood disorder with
psychotic features, with a very good response to valproic acid.

**Evaluation of Schizoid Symptoms**

In the differential diagnosis of depression, questions regarding how to separate
affective disorders from schizoid disorders are frequently raised. Close attention
to the patient’s history and affective display and close monitoring of the exam-
iner’s own emotional reactions during the interview (see Chapter 15, “Coun-
tertransference”) are helpful in differentiating this diagnostic complexity.

The patient’s social developmental history is of great assistance in the dif-
ferential diagnosis (see previous section, “Evaluation of Psychotic Sym-
ptoms”). Has the child been a loner? Does the child prefer to play by himself
or herself? Attachment difficulties need to be considered in the differential di-
agnosis of schizoid disorders (Volkmar 1995). The following case example is typical of children with schizoid disorders.

Kurt, a 14-year-old white adolescent, had been admitted to a local psychiatric hospital after making a suicidal gesture. He had a history of extensive conduct disorder, including regular use of his mother’s car without permission. He sneaked out at night on a regular basis. During the interview, Kurt appeared meek and behaved oddly. He constantly attempted to hide his hands in the long sleeves of his sweater. His eye contact was erratic, and his speech was monotonous and dysprosodic. His mood was very constricted, and he did not seem to be in touch with his feelings. When asked to describe his mood, he said he was happy. He immediately corrected himself and said he was sad. He showed no modulation of affect throughout the interview except, for a short moment, when he declared that he missed home. At that moment, he became tearful, helpless, and childish. He did not endorse any psychotic features. At no point during the interview did the examiner feel that he had made emotional contact with Kurt, and there was no countertransference response concordant with the diagnosis of depression.

Children with language disorders and other neuropsychological deficits—particularly children with nonverbal learning disabilities due to problems in decoding and expressing affective communication—display difficulties in interpersonal communication; these situations create diagnostic confusion. Such difficulties complicate the identification and assessment of depressive affect. This observation is in agreement with Cummings’s (1995) assertion that “right-hemispheric damage sustained in childhood may result in a schizoid type of behavioral pattern, perhaps because the inability to perceive or to execute emotional cues limits the child’s ability to engage in interpersonal relationships” (p. 185).

When working with children with schizoid disorders, examiners may encounter difficulties in establishing rapport due to the children’s inability to perceive and to express affect, peculiarities in these children’s affective display, or some degree of inappropriate affect. Some children with neuropsychological difficulties want to connect with others and are interested in people; however, they either do not know how to go about doing so or they use means that put other children off.

When examining children with schizoid features, the evaluator senses their inability to link emotionally to others, their sense of isolation, and their
difficulty warming up to social interactions. The examiner’s subjective re-
sponse is of immense diagnostic value. In general, when the patient is de-
pressed, he or she stimulates depressive feelings in the examiner. As expressed
tend to be communicated to the clinician and elicit emotional as well as in-
tellectual empathy. Admittedly, this criterion is subjective, but is invaluable in
the hands of experienced clinicians” (p. 43).

Children with schizoid disorders have long-standing difficulties with in-
terpersonal relationships. These children typically are unable to initiate
friendships. Commonly they are loners, and more often than not they are os-
tracized and ridiculed by peers. Children with schizoid disorders are fre-
quently odd looking, and their affective communication is atypical. Often
their affect is constricted, and at times their emotional display is inappropri-
ate. Comorbid cognitive, language, and psychotic disorders are common. Soft
neurological deficits (e.g., in gross and fine motor coordination) and other
deficits may be present.

Notes

1. In 2005, suicide was the second leading cause of death among Americans
ages 40 years and younger. For Americans of all ages, 53% of completed
suicides involved a gun. Suicides are impulsive: of individuals who at-
temptsed suicide, 24% took less than 5 minutes between the decision to
kill themselves and the actual attempt, and 70% took less than 1 hour
(Miller and Hemenway 2008). More than one-third of U.S. households
own a firearm. Compelling evidence links firearms to suicide. The pres-
ence of a firearm in a house increases the odds of suicide from 2 to 10 times.
The higher incidence of suicide is not restricted to the gun owner but is
also increased for the spouse and children. The risk is higher if the gun is
kept loaded and unsecured (Miller and Hemenway 2008). The recent
U.S. Supreme Court decision supporting gun ownership may lead to
higher rates of gun-related suicide (Miller and Hemenway 2008). Intern-
national experts have concluded that the restriction of access to lethal
means is one of the few suicide-prevention policies with proven effective-
ness.
2. The diagnoses of disruptive disorders and substance dependence (other than alcohol or marijuana) predicted increased noncompliance with individual psychotherapy, and affective/anxiety disorders predicted increased noncompliance with medications at 6 months (Burns et al. 2008).

3. Further diagnostic assessment on Rick:

   **Physical examination.** Positive findings: a very thin child with elongated fingers and inwardly curved fifth fingers on both hands.

   **Neurological screening.** Positive findings: dysgraphia, balance difficulties, apraxia (had difficulties putting on his shoes).

   **Psychological testing.** Positive findings: deficits in written expression. He obtained a superior score on Letter-Word Identification and an average score on Passage Comprehension.

   **Projective testing.** Positive findings: deficits in perceptual accuracy consistent with impaired reality testing. Rick misinterpreted and/or distorted perceptual stimuli. Serious problems in thought processes, mainly discontinuity, were observed; at times his thinking was incoherent and overtly concrete. Rick evidenced significant social and emotional immaturity; this was reflected in his social ineptness and the problems in establishing and maintaining rapport with others. He showed very little interest in approaching and being close to others and had a very unrealistic view of self and others. Rick's Rorschach responses had very little human content but prominent ambiguous and solitary “alien” beings. Also, Rick had a very inaccurate perception of how others perceive and relate to him and a poor awareness of the extent and significance of his problems. His aggression was poorly neutralized, and he was delayed in the process of separation and individuation from the parents.

   **Occupational therapy assessment.** Positive findings: poor to fair kinaesthetic abilities; significant difficulties with visual-motor control and fine motor manipulation of objects; problems in sensory-motor processing. Sensory-motor testing revealed visual crossing midline problems (e.g., he ignored the right side of the page while copying geometric shapes until he shifted the paper to his left side).

4. Further diagnostic assessment on Troy:

   **Physical examination.** Positive findings: Troy had multiple self-inflicted injuries on the anterior aspect of both forearms.

   **Neurological screening.** Positive findings: Troy was left-handed. Evi-
idence of difficulties with praxis and some degree of dysprosody were present.

**Psychological testing.** Positive findings: Troy used a neologism during the examination: he used the word “insormal” to indicate parent-approved incestuous relations between siblings. He told the tester his idea for an art piece: to cut off one of his fingers and mount it on cardboard. Troy’s thought processes were tangential and rambling. The thought content was consistently dominated by bizarre, morbid, and often perverse themes. His ideas frequently involved the condensation or fusion of opposite qualities, activities, ideas, and feelings (e.g., good/evil, procreation/killing, pleasure/pain). He often condensed sexuality with religious symbolism and a personal sense of alienation. He often seemed fascinated and perplexed by his bizarre musings, which took on a stereotyped and perseverative quality over the course of the evaluation. He said his main interests were in being “bizarre” and “weird.”

**Projective testing.** Troy’s self-image was distorted and conflictive. He appeared to reject all conventional aspects of his identity and life, including identifications with the family, in favor of an intense identification with countercultural ideas and values (i.e., the “bizarre”). He entertained grandiose fantasies (e.g., “being famous someday and producing great works of art”) while simultaneously being preoccupied with masochistic themes of humiliation and self-abuse. Troy was very conflicted about gender identification. He was comfortable with social isolation and alienation and appeared indifferent to others, except as they provided stimulation for his fantasy life and nourishment of his fascination with the bizarre. Troy’s inner life was characterized by pervasive boundary confusion in which conflicted ideas, tendencies, and feelings were resolved or negated in fantasy through the fusion or merger of conflicted opposites. His internal representations were poorly differentiated and lacked substance and diversity. Troy’s intense fantasy preoccupation with sexual and religious conflicts may represent primitive denial and distortion defenses, which provided a means of dealing with early trauma. For example, he wondered aloud if death might consist of continuously repeated sexual activity with transvestites that creates “straight good feelings, no bad feelings or thoughts, just good.” Troy’s thinking disturbance significantly impaired his capacity for adaptive social and educational functioning and self-care...
and adversely impacted his motivation for conventional pursuits. On the positive side, Troy’s artistic abilities were well developed and represented a potential strength for him that should be further developed.

**Cognitive testing.** Troy’s level of intelligence was in the low average range. Troy demonstrated a learning disability in written expression.

**References**


Evaluation of Internalizing Symptoms


Evaluation of Internalizing Symptoms


Recommended Readings


This page intentionally left blank
Evaluation of Externalizing Symptoms

Key Points

• Externalizing symptoms include hyperactive and impulsive behaviors, aggressive and violent behaviors, features of mania and hypomania, oppositional behaviors, and substance abuse.
• Externalizing disorders may exist as primary or comorbid disorders (see discussion in Chapter 8, "Evaluation of Internalizing Symptoms").

Evaluation of Hyperactive and Impulsive Behaviors

Although distractibility was traditionally considered the core feature of attention-deficit/hyperactivity disorder (ADHD), more recently researchers have proposed that the central deficit in ADHD is a problem of behavioral inhibition that involves a delay in the development of self-control and self-regulation. The behavior of children with ADHD is regulated more by immediate circumstances (i.e., external sources) and less by executive functions and considerations of time and the future. As Barkley (1997, p. 313) states “ADHD is far more a deficit of behavioral inhibition than of attention.”
The *Diagnostic and Statistical Manual of Mental Disorders, 4th Edition, Text Revision* (DSM-IV-TR; American Psychiatric Association 2000), distinguishes among three types of ADHD: inattentive, hyperactive-impulsive, and combined. The inattentive type predominates in pediatric populations, whereas the hyperactive-impulsive and combined types are more prevalent in child psychiatric populations. The ADHD types are associated with different clinical, comorbid, and prognostic courses. According to Faraone et al. (1998), children with the combined type have the highest rates of comorbid disruptive, anxiety, and depressive disorders. In comparison with children who have the combined type, children with the inattentive type have similar rates of comorbid anxiety and depressive disorders but lower rates of disruptive disorders. Children with the hyperactive-impulsive type, compared with the other subtypes, have the highest rates of externalizing disorders but lower rates of associated anxiety and depression. Children with the combined or inattentive types have higher rates of academic problems than do children with the hyperactive-impulsive type. In comparison with the other types, children with the combined type have higher lifetime rates of conduct, oppositional, bipolar, language, and tic disorders; they also have the highest rate of counseling and multimodal treatments. Few differences were found between the hyperactive-impulsive and the inattentive types, although children with the inattentive type had a higher lifetime prevalence of major depressive disorder (Faraone et al. 1998).

In a 5-year prospective study by Hinshaw (2008), nearly two-thirds of females with ADHD showed depression at some point during the study; this rate was several times higher than that in the non-ADHD comparison group. Depressive symptomatology in females with ADHD was more severe (earlier onset and longer duration, higher levels of irritability and suicidal ideation, and greater need of multiple types of treatment) than in the comparison group. Major depression also predicted continuity of depression, onset of anxiety, and substance abuse disorders (Hinshaw 2008).

Longitudinal studies of boys with or without ADHD revealed that major depression at baseline predicted syndrome-congruent outcomes 4 years later. Boys with comorbid ADHD plus major depression were at significant risk for bipolar disorder, psychosocial dysfunction, and psychiatric hospitalizations. Boys meeting criteria for major depression had prototypical symptoms of the disorder, a chronic course, and severe psychosocial dysfunction (Biederman et
In evaluating children who have the hyperactive-impulsive type of ADHD, the examiner should inquire about the onset of the hyperactivity and impulsivity. Commonly, the origin of these symptoms can be traced to early preschool age. Some mothers report hyperactivity during the child’s gestational or early neonatal life. Parents may complain that these children were hyperactive, willful, obstinate, or disobedient from an early age, or that they got into everything without any forethought (e.g., they were frequently moving, never finishing anything they started). Many of these children have no sense of danger and require close and ongoing supervision. A low tolerance for frustration and dysregulation of emotional states are common. Some of these children have difficult temperaments and demand inordinate amounts of attention; they lack self-soothing regulatory mechanisms and are prone to intense and prolonged temper tantrums. These tantrums easily escalate into dyscontrol, and when this happens, it takes these children a long time to regain self-control. In severe cases, biorhythm dysregulation may be present, as evidenced by sleep difficulties.
Symptoms of ADHD are conspicuous in the classroom. Children with ADHD are distractible and disruptive. They demonstrate off-task behaviors and are unable to remain seated. They commonly have problems completing assignments, and they have problems taking turns and sharing with peers. Some of these children are intrusive and have limited social skills, whereas others have poor problem-solving abilities. Some children with ADHD develop early comorbidity. Children with the hyperactive-impulsive or combined types have problems with anger control and with affective modulation; these deficits contribute further to their limited social success.

Cantwell (1996) recommended a comprehensive assessment for children and adolescents suspected of having ADHD. This assessment includes the following components:

1. A comprehensive interview with all parental figures. This interview should be complemented by a developmental, medical, and school history of the child and a social, medical, and mental health history of family members.
2. A developmentally appropriate interview with the child to assess his or her view of the signs and symptoms and to screen for comorbidity.
3. An appropriate medical evaluation to screen for health status and neurological problems.
4. Appropriate cognitive assessment of ability and achievement.
5. The use of both broad-spectrum and more narrowly focused (i.e., ADHD-specific) parent and teacher rating scales.
6. Appropriate adjunct assessments, such as speech and language assessment and evaluation of fine and gross motor function. (p. 982)

Because children with the combined type of ADHD require frequent corrective feedback (because of their impulsivity), they evolve a negative self-view that contributes to the early development of dysphoric affect. Frequently, children with ADHD develop a defective self-concept and a poor sense of competence. According to O’Brien (1992), self-esteem difficulties are the core psychological problems for these children. The examiner needs to explore these complications to determine the extent of additional psychopathology to formulate a comprehensive treatment program. The examiner should ask the child to explain the reasons for the psychiatric examination and
Evaluation of Externalizing Symptoms

should help the child to explain, in his or her own words, the nature and extent of the problems.

The examiner should ask the following questions: Does the child display problems with hyperactivity-impulsivity only in certain circumstances or at certain times? Are the problems evident in most of the child’s daily activities? Is the child able to concentrate in the classroom? Is the child able to stay on task? Does the child finish assignments? Does the child show behavioral organization (see Chapter 7, “Documenting the Examination Using the AMSIT”)? Do any activities grip the child’s attention (e.g., playing certain games, watching television)? What television programs does the child watch? How are the child’s social and problem-solving skills? This information has significant clinical relevance.

As soon as the interviewer detects that the child is too hyperactive or impulsive and lacks means of self-regulation, self-structure, or self-control, he or she should structure both the physical space and the activities in which the child is permitted to engage. Restricting spatial boundaries and controlling the quality, quantity, and modality of stimulation are mandatory to maintaining a safe and productive interview. Such control will help the child to focus and concentrate on structured tasks (e.g., those involving building blocks, puzzles, or table games).

If the child is easily distracted, the examiner should reduce the amount of stimulation by limiting the number of items available at any given time. Limiting and structuring the elements for specific tasks is important: a box full of crayons and an unlimited amount of paper are too distracting for an inattentive and disorganized child. Such a child should receive one crayon or one pencil and one piece of paper at a time. Similarly, the examiner should limit the number of blocks or other items that the child can use at any given time.

If the child is too fidgety or has difficulty remaining seated, the examiner should pull the child’s chair close to the interviewing table so that the chair and table form a physical boundary. The examiner should instruct (and encourage) the child to concentrate on only one task at a time. The examiner should encourage and help the child to complete the assigned task before moving on to a new one. Throughout the interview, the examiner should note the child’s response to structure and limit setting; these observations have important diagnostic and therapeutic implications. Ongoing support should be given when the child meets the examiner’s expectations and abides
by the provided structure. The examiner should help the child concentrate on the project at hand and should give support and reinforcement each time the child finishes a task. Transitions from one activity to the next should be handled with care, because the child may have problems with moving on to new tasks.

The length of the interview is an important factor; brevity is the goal. After 15–20 minutes of active interviewing, the child needs a break (e.g., for a trip to the bathroom). In an intensely structured setting, the patient and the clinician tire easily.

The amount of structure needed in subsequent sessions will indicate how well the child is responding to ongoing behavioral and psychopharmacological interventions. Observations made during structured interviewing, as well as changes observed in ratings on specific checklists completed by the examiner, teachers, or parents, are helpful in ascertaining whether changes at school, at home, or in other settings have been made in response to treatment.

Social skill difficulties are significant problems for some children with ADHD. Cantwell (1996) described this comorbidity as an inability to pick up social cues, which leads to interpersonal difficulties.

In assessing children with ADHD, the examiner also needs to rule out nonverbal learning disabilities.

Galanter and Leibenluft (2008) provided a number of considerations for the examiner faced with differentiating ADHD from bipolar disorder. First, ADHD is far more common than bipolar disorder. Second, the venue of the assessment is important: bipolar disorder is more likely in an inpatient psychiatric unit than in a pediatric clinic. Third, the examiner should explore for an episode of mania or hypomania. If such an episode is not uncovered, the examiner should search for an episode of irritability that is greater than the child’s baseline. ODD, conduct disorder, anxiety disorder, and major depressive disorder also produce irritability and are more common than bipolar disorder. Fourth, the examiner should consider the DSM-IV-TR category B mania criteria (symptoms that are not present in ADHD), such as grandiosity, flight of ideas or racing thoughts, decreased need for sleep, and hypersexuality. Finally, rating scales should be used to support the diagnosis.
Evaluation of Aggressive and Homicidal Behaviors

According to Ash (2008), violence is surprisingly common among children and adolescents. Longitudinal studies using youth self-reports indicate that by age 17 years, 30%–40% of boys and 16%–32% of girls have participated in a serious violent offense (i.e., aggravated assault, robbery, gang fight, or rape). Homicide is the second cause of death for youth ages 15–19 years, second to accidents and ahead of suicide; it accounts for 1,900 deaths a year. The homicide rate stands at 9.3 deaths per 100,000 youths. Adolescent dating violence is also frequent: up to 9% of boys and girls reported being physically hit by a boyfriend or girlfriend during the previous year (Ash 2008). Ash asserted that children first learn to manage their aggression from their parents during toddlerhood and that poor parenting (abusive parenting, neglect, coercive parenting, rearing by antisocial parents, poor limit setting, or general family dysfunction) during toddlerhood sets the stage for the children’s later problems with aggression or violence. ODD is a frequent precursor of more serious aggression; about 30% of individuals with early ODD progress to conduct disorder, and 40% of those with conduct disorder progress to antisocial personality disorder. The most potent risk factors for preadolescent violence are general nonviolent criminal offenses and preadolescent substance abuse, whereas peer effects are the most influential factors for adolescent-onset violence. For both preadolescent-onset and adolescent-onset violence types, a developmental progression of offenses is common, beginning with minor crimes such as vandalism and shoplifting, then progressing to aggravated assault, followed by robbery, and then rape. That robbery precedes rape in 70% of cases is the strongest evidence that rape is a criminal violent offense and not a crime of sex (Ash 2008).

Dating violence should be explored. According to Wolitzky-Taylor et al. (2008), older age, female sex, and exposure to previous and recent stressors were associated with greater risk for experiencing dating violence. Experience of severe dating violence (i.e., physical assault causing harm, threat with a weapon, rape or forced sexual activity) was estimated, conservatively, to be 2.6% for girls and 0.6% for boys, representing 335,000 girls and 78,000 boys in the United States. (Verbal threats, hitting or slapping without injury, and verbal aggressiveness were not considered in the study.) Sexual assault was
the highest act of violence, followed by physical assault and drug- or alcohol-facilitated rape. Dating violence is associated fourfold with posttraumatic stress disorder and major depressive episodes. Also, an association exists between dating violence and having experienced a prior traumatic event (Wolitzky-Taylor et al. 2008).

The examiner should explore aggressive behavior at school. Results from a 1995 survey of students ages 12–18 years indicated that 2.5 million students were victims of some crime at school. Serious crimes (rape, aggravated assault, sexual assault, and robbery) accounted for 186,000 victims in schools; 47 of the crimes resulted in 47 school-associated deaths, including 38 homicides (Malmquist 2008). Malmquist discussed bullying as a major school problem. Bullying includes 1) being called names, being made fun of, or being insulted; 2) being subjected to rumors; 3) being threatened with harm; 4) being pushed, shoved, tripped, or spit on; 5) being made to do things one does not want to; and 6) purposefully being excluded from groups or activities or purposeful destruction of personal property. A student survey indicated that 16% of children endorsed being bullied during the current school term and that up to 30% of students in grades 6–10 reported they had been involved in a bullying incident as a bully or as a target (Malmquist 2008).

According to Barker et al. (2008), most adolescents followed a low or declining trajectory of bullying and victimization from early to mid-adolescence, indicating a decrease in the prevalence of victimization and bullying with age. The inclusion of a category of “high/increasing bullying and high/decreasing victimization” suggests that some students transition from victim to bully status during adolescence. Although not all bullies are victimized, victims have a high probability of engaging in bullying behaviors. Those transitioning from victimization to bullying learn to modulate anger in favor of more planned, instrumental aggression. In Barker et al.’s study, those boys and girls who were higher in the bullying trajectory were higher in overall delinquency and self-harm.

Tardiff (2008, p. 4) stated, “The evaluation of violence potential is analogous to that of suicidal potential. Even if the patient does not express thoughts of violence, the clinician should routinely ask the subtle question, ‘Have you ever lost your temper?’ in much the same way as one would check for suicide potential with the question, ‘Have you ever felt that life was not worth living?’ If the answer is yes in either case, the evaluator should proceed
with the evaluation in terms of how, when, and so on with reference to violence as well as suicidal potential” (see Chapter 2, “General Principles of Interviewing”). Tardiff added, “When making decisions about violence potential, the clinician also should interview family members, police, and other persons with information about the patient and about violence incidents to ensure that the patient is not minimizing his or her dangerousness” (p. 4). Ash (2008) advised, “Whenever risk of predatory violence by an adolescent is a serious consideration, if at all possible some friend should be talked to…[because] the evaluatee’s friends are most likely—more so than parents—to have heard the youth express threats, even if the friends did not take the threats seriously” (p. 371).

The examiner should keep in mind that the standard unstructured assessment interviews have limited diagnostic validity and no predictive validity: “Research has not been kind to unstructured violence risk assessment” (Monahan 2008, p. 19). For predictions of violence, “actuarial” methods are recommended (see Note 1).

An important consideration in assessing an adolescent’s risk for violence is where he or she is on the violence pathway or trajectory: fantasies about killing, beginning planning, increased interest in weapons and how to use them, interest in how others have committed mass murders, use of the Internet for this purpose, and detailed preparation (obtaining weapons, scouting out sites, and stalking potential victims). The farther along this path the adolescent is, the higher the risk he or she poses. A person does not have to make a threat to be a threat. The examiner should also explore the motivation, including why people are included on the “hit list” (Ash 2008). Ash (2008) stated the importance of reducing the availability of weapons, but many parents do not comply with the recommendation to dispose of weapons.

For the evaluation of short-term violence risk in adults, Tardiff (2008) recommended the importance of the following factors: 1) appearance, 2) presence of violent ideation and degree of formulation and/or planning, 3) intent to be violent, 4) available means to harm and access to the potential victims, 5) past history of violence and other impulsive behaviors, 6) history of alcohol or drug abuse, 7) presence of psychosis, 8) presence of personality disorder, 9) history of noncompliance with treatments, and 10) demographic and socioeconomic characteristics. These factors have a parallel importance in the assessment of violence in children and adolescents.
In an article on assessing violence risk in children and adolescents, Weisbrot (2008) discussed infamous school shootings. Warning signs are evident, and the interviewer needs to confront the child’s denial or minimization of these issues. “Leakage” relates to clues signaling a potential violent act, including feelings, thoughts, fantasies, attitudes, and intentions expressed via direct threats, boasts, doodles, Internet sites, songs, tattoos, stories, and yearbook comments with themes of death, dismembering, blood, or end-of-the-world philosophies. School shooters indicated their plans before the shootings occurred via direct threats or by implication in drawings, diaries, or school essays. Prior to school shootings, other students usually know about the impending attacks (in 75% of cases, at least one person knew; in about 66% of cases, more than one person knew), but this information was not communicated to adults.

Weisbrot (2008) advised that threat assessment requires a thorough psychiatric diagnostic evaluation, including fundamental assessments of suicidality, homicidality, thought processes, reality testing, mood, and behavior. A detailed developmental history should be gathered, with a specific focus on abuse, past trauma, school suspensions and expulsions, school performance, and peer leadership. A red flag for potential violence is the history of trauma or violence, either as a victim or as a perpetrator. Attackers feel teased, persecuted, bullied, threatened, or injured by others before the attacks. Important issues to cover in the assessment include verification of the threat, as well as exploration of the ongoing intent, the focus on the threat, the intensity of the threat preoccupation, the access to weapons, and the concern expressed in the child’s environment. Parents may demonstrate pathological levels of denial, indicating a chaotic home environment, highly conflicted parent-child relationship, and inadequate limit setting.

Contemporary models of antisocial behavior recognize both social and biological factors, reflecting the assumption that both types of factors interplay in a complex fashion to influence the development and persistence of antisocial behaviors. Genetic influences are suggested for lifelong, persistent antisocial behaviors rather than for adolescence-limited behaviors (Popma and Vermeiren 2008; see Note 2). Research is increasingly showing that multiple genes are simultaneously involved to create the susceptibility for antisocial behavior.

Otnow Lewis’s (1991) advice to clinicians working with children with conduct disorder is particularly applicable to those dealing with aggressive and violent behaviors: “Clinicians are obliged to attempt to overcome the
negative feelings toward the child that may be aroused by the child’s frightening and obnoxious behaviors. One must embark on the evaluation of a behaviorally disturbed child with curiosity and an open mind” (p. 571). Negative responses toward the patient (i.e., countertransference) may interfere with the clinician’s ability to thoroughly and systematically assess these children (see Chapter 15, “Countertransference”).

If the clinician knows in advance that the child is likely to be aggressive or self-abusive, he or she should make preparations beforehand to meet the child’s special needs. No matter how syntonic a child’s aggression seems to be, the clinician should assume that the child is anxious, if not afraid, of the possibility of losing control. If the child appears to have this anxiety, the examiner should reassure the child that every effort will be made to help him or her stay under control or regain control, if needed. The examiner may need to consider psychopharmacological interventions, hospitalization, or other options. The diagnostic interview should be stopped if the examiner becomes concerned with his or her personal safety. If this happens, the examiner should take the steps needed to prevent the patient from injuring anyone (see Chapter 2, “General Principles of Interviewing”).

During the evaluation of a volatile, labile, or aggressive adolescent, the examiner should avoid provoking the patient any further. The examiner should also be attentive to signs that the patient is about to lose control. Regardless of the etiology of the aggressive behavior, all communications and interventions need to take into account that the patient is struggling to maintain self-control and is experiencing an ongoing disturbance with his or her sense of self—a narcissistic disturbance that needs to be identified, abreacted, understood, and if possible repaired. Something has injured the patient’s self-esteem and the patient’s narcissism to the point that he or she needs to resort to aggressive behavior to restore his or her self-worth (i.e., to repair the perceived injury). If the examiner knows the nature of the injury, he or she should offer empathic comments regarding the perceived injury, evaluate the patient’s response to such comments, and explore alternatives to deal with the identified injury. The examiner will be more successful if he or she assesses aggression in this broader context and prudently assumes that the patient may lose control at perceived provocations.

Depending on the individual case, the patient may appear defensive, suspicious, fearful, or ashamed. If the patient feels humiliated or has been humil-
iated, he or she may anticipate further humiliation or even retaliation for aggressive, hateful, and vengeful feelings. Some adolescents who are struggling with aggressive feelings may experience shame or guilt secondary to intense anger and the fear of losing control. The examiner should explore paranoia and other psychotic features exhaustively.

The examiner’s emphasis in dealing with aggressive adolescents is to determine their propensity for violence and to establish whether such adolescents are at imminent risk of losing control. If the examiner determines that the patient is on the verge of losing control, he or she needs to be extra cautious in his or her approach and demeanor and should be particularly judicious with his or her words.

Regardless of the nature of the aggression, the examiner’s priority is to help the patient regain a sense of self-control. Lion (1987) expressed this principle in the following manner: “The evaluator’s goal [when meeting belligerent and violent patients], whenever possible, is to convert physical agitation and belligerence into verbal catharsis. This principle holds true irrespective of the etiology of the patient’s violence” (p. 3).

Because a history of violence is the best predictor of future violence, the examiner should make a comprehensive inquiry into this area. The following questions may be pertinent: Has the child ever lost control? What has been the nature of the child’s dyscontrol? Has the child ever hurt someone? Does the child intend to harm someone? Has the child developed a plan to kill someone? The examiner should remember his or her duty to protect potential victims.

Many adolescents exhibit a facade of bravado or a bullish attitude. The examiner should take these surface behaviors seriously. An attempt to challenge these defenses carries a serious risk and is not recommended; the child might act out to prove to the examiner that he or she can do what he or she says. By stressing the dangerousness of threatened behaviors and highlighting the potential risks of what the adolescent is contemplating or the repercussions of the intended behaviors, the examiner may help the adolescent to take another look at his or her intentions and may also help the adolescent to better understand his or her potential for acting out.

Being honest, direct, and compassionate are indispensable qualities in building trust with aggressive children. When adolescents have grown up in deceptive and manipulative environments, they expect that everyone else (the
examiner included) will try to put something over on them or to “con” them. If being honest and direct are indispensable qualities, they are of particular importance when dealing with hostile and assaultive adolescents. Issues need to be discussed plainly and directly.

When the examiner meets the adolescent, the examiner should make explicit what he or she already knows about the adolescent and should encourage the adolescent to present his or her side of the problem. The following case example demonstrates this practice.

Todd, a 13-year-old white adolescent, came reluctantly for a psychiatric evaluation. He said to the examiner, “I don’t have to see you. I don’t need any help.” He was evaluated because of physically abusive behavior toward his mother. He had also threatened to kill her. Recently, Todd had brought a loaded gun into his house and had threatened to use it against his mother. Todd had beaten his mother many times before. He was unruly and at home did pretty much what he wanted. He was the only male in the household.

The interviewer focused on Todd’s homicidal intentions toward his mother:

Interviewer: I understand you want to kill your mother.
Todd: I don’t like that bitch.
Interviewer: You have threatened to kill her.
Todd: She gets on my nerves. I hate her.
Interviewer: You took a loaded gun and threatened to kill her.
Todd: I was joking.
Interviewer: You seem to be capable of killing her.
Todd: I just wanted to see what she was going to do.
Interviewer: Sounds like you are looking for reasons to kill her.
Todd: She makes me so mad!
Interviewer: You are looking for excuses to do it.

Todd started feeling anxious and smiled nervously. He said that he didn’t want to live at home anymore. The examiner said, “There is a part of you that does not want to lose control.”

At this point, Todd let his guard down, and his bullish facade faded. He acknowledged that he had problems controlling himself and was receptive to the examiner’s recommendations. The interview proceeded in a more comfortable tone, and Todd’s interest and participation in the diagnostic assessment improved.
Although psychiatric examiners pay attention to issues of aggressive behavior (e.g., physical and sexual abuse) perpetrated against children, they are less attentive to the aggressive and other abusive behaviors that children perpetrate against their parents and siblings. Also of concern are children’s behaviors against themselves. These aggressive behaviors need to be explored on a regular basis.

The following case example illustrates an interview with a primitive, aggressive, and self-abusive female adolescent.

Sally, a 17-year-old white adolescent, had been admitted to the state hospital many times for severe episodes of explosive and assaultive outbursts accompanied by self-abusive behaviors. She had severe impairments in interpersonal relationships: she was markedly withdrawn and stayed away from people most of the time. Although endowed with normal intelligence, she had major problems in school because of her pervasive dysphoria and temper outbursts. As she grew older, her attendance at school became a regular problem because she had difficulties waking up in the mornings. She had an “awful” mood in the mornings, but her mood and attitude improved somewhat by noon each day. Her school schedule had been adjusted accordingly.

Sally’s self-abusive behavior consisted of savage self-biting and self-cutting of the forearms and self-inflicted injuries to the hands and knuckles that resulted from hitting walls. She had been assaultive to many members of the hospital staff and to peers. She had been put in restraints and had received additional medications as needed on numerous occasions. Many psychopharmacological treatments had been tried unsuccessfully.

The psychiatric consultant was asked to ascertain whether Sally exhibited evidence of an affective disorder. About a dozen clinical staff members attended this consultation. Upon arriving to the consultation area, Sally refused to sit in the designated chair. She was a heavyset adolescent with ambiguous secondary sexual characteristics: her haircut, facial appearance, and demeanor lacked femininity. Shortly after sitting down, she stood up and said, “Fuck you,” to the group; began to suck her right thumb; and exited promptly from the room, grumbling on her way out. The consultant felt that the large audience had overwhelmed her and that a more private evaluation was needed.

The consultant found Sally sitting with a nurse in the hospital lobby area. She was sucking her thumb again and was also rubbing her eyebrows, rituals she performed regularly when she felt anxious or overwhelmed. The consultant attempted to engage her in a verbal exchange while allowing her to keep her distance (the consultant sat at least 15 feet away from her). Sally acknowledged that too many people made her nervous. The interaction continued at a distance, with Sally and the consultant speaking loudly to each other.
The consultant, sensing that Sally was not amenable to a variety of topics, chose to test the waters by bringing up the topic of discharge. Initially, Sally said that she was never going to leave, but when the nurse said that she thought Sally had been working on this goal, Sally agreed to discuss what she needed to do to leave the hospital.

The consultant asked Sally if he could sit closer to her. She said it was fine with her. He sat one chair away from her and continued the psychiatric interview. She said she wanted to go home but her family was not looking forward to her return. The consultant asked Sally what was expected of her before she could go home. She spoke about the need to control her anger and to be less self-abusive. The consultant then asked what kind of progress she had made in those areas. She lifted the left sleeve of her shirt, showing him thick resolving scabs from recently inflicted self-injuries. Sally indicated that she was now less self-abusive than before. She also said that she was trying to control herself better and was doing so by staying away from people.

The consultant asked Sally if she could talk about her mood in the mornings. She nodded and said that she had a very bad mood in the mornings; she felt very angry and feared losing control and hurting someone at those times. To control these feelings, she would try to sleep until noon because by midday she felt in better control of herself. She denied feeling suicidal and said that she did not want to hurt anyone but acknowledged that she felt very nervous around people.

The consultant had observed by this time that any topic that raised Sally’s level of anxiety would simultaneously elicit the self-regulatory behaviors of thumb sucking and eyebrow rubbing. The consultant asked Sally who her best friend was, and she said it was her 4-year-old cousin, who liked her and played with her. Her second best friend was her father. The consultant had learned that Sally’s mother, who had abused drugs, abandoned Sally in early infancy. He did not ask Sally to discuss anything related to her mother.

Sally refused to say whether there were any other important persons in her life. When the consultant approached the issue of medications, she said that they did not help. She reluctantly acknowledged that one antipsychotic medication had helped. She denied experiencing any hallucinations. She even denied feeling paranoid. When asked what activities she enjoyed, she said that she liked to take care of plants.

By this time, she was smiling occasionally and even became playful by making fun of the consultant. After the consultant asked Sally about the presence of paranoid feelings, he asked her if she had any unusual experiences. She said she had “EPS” [extrapyramidal symptoms]. The consultant thought she had said “ESP” [extrasensory perception] and continued without catching his mistake. When the consultant realized that Sally had said EPS, Sally began to laugh. She said that she had fooled the consultant. Both Sally and the con-
sultant laughed. Sally then said that sometimes she knows what the other person is going to say. The consultant replied that ESP is important in dealing with people. As the interview proceeded, Sally agreed that she had a big problem with her mood and agreed to try some medications that might help her with this problem.

The consultant closed his contact with Sally on positive terms. When he was leaving the hospital building, he could see Sally at a distance. She waved at him, and he waved and smiled back at her.

This interview had been carried out in unusual circumstances; Sally was a very uncooperative and volatile patient. Because of her unpredictability, the consultant made a special effort not to aggravate her more and took great care in forming and maintaining an alliance with her. The consultant was deliberate in the selection of areas or issues that he felt were appropriate and safe to discuss. Despite these difficulties, a genuine engagement occurred, and the evaluation was helpful and productive. The information and observations gathered during the interview helped the consultant to conclude that Sally exhibited evidence of mood and anxiety disorders.

The examiner should strive to determine the history and epigenesis of aggressive behaviors. Aggressive children frequently have a history of problematic temperament, persistent oppositional behaviors, impulsiveness or conduct problems, poor social cognitions, coercive discipline (i.e., involving physical punishment), and peer relationship problems. Self-abusive behavior is a common symptom in impulsive-aggressive children.

Loeber and Hay (1994) proposed an epigenesis of aggressive behavior that starts with the infant’s difficult temperament and an unsuitable caregiver (poor infant-caregiver matching). This poor match is followed by the persistence of oppositional behaviors, which produces a developmental arrest in the socialization process in a variety of ways. The parental figure then gives up out of frustration. The parent begins to pay attention exclusively to the child’s negative behavior and becomes unresponsive or stops giving positive feedback. This parental behavior alters the child’s social cognitions. The child begins to perceive bad intentions from others and to display aggression as a means to solve problems because he or she lacks adaptive problem-solving skills. This pattern of response creates rejection from the peer group. At this point, association with deviant peer groups is an expected step.

In evaluating a patient who has aggressive or assaultive behaviors, the examiner should obtain the patient’s passive and active histories of violence. The
passive history relates to victimization (e.g., the patient’s history of physical or sexual abuse); the active history refers to violence perpetrated against others, including physical or sexual violence (e.g., physical assault, rape).

The examiner should strive to link a patient’s aggressive behavior to specific psychiatric syndromes and other comorbid conditions (e.g., ADHD, conduct disorder, bipolar disorder, psychotic disorders, substance abuse disorders) that may contribute to aggressive dyscontrol. Aggressive children demonstrate serious deficits in problem-solving skills and peer relationships. These deficits should be addressed in a comprehensive treatment plan that focuses on aggressive behaviors and related problems.

Otnow Lewis (1996) described evidence in violent youth of psychosis (e.g., paranoid delusions), affective disorders, neuropsychological dysfunction (e.g., language and cognitive deficits), brain injury (e.g., psychomotor seizures associated with epilepsy), hyperactivity, impulsivity, and other signs of brain dysfunction (i.e., organicity). The dyscontrol of these individuals is an end-pathway deficit resulting from brain injury related to a variety of causes. These violent persons had a history of head trauma as a consequence of physical abuse. Evaluation of the presence of brain injury and dysfunction in violent adolescents must be pursued systematically. Otnow Lewis (1996) added dissociative disorders to a number of comorbid conditions the examiner should scrutinize methodically in children with behavioral dyscontrol.

Biederman et al. (1996) addressed the role of bipolar disorder as a cause of aggression and behavioral dyscontrol: “Since juvenile mania has high levels of irritability that can be associated with violence and antisocial behavior…this overlap between BPD [bipolar disorder] and conduct disorder is not surprising….If this overlap continues to be confirmed, these findings may provide some new leads as to the possibility of subtypes of mood-based antisocial disorders not previously recognized” (p. 1006).

Children with so-called borderline disorder psychopathology display a broad spectrum of functional impairments. These include overwhelming rage and violent fantasies (with extreme anxiety and loss of control); rapid regression in thinking and reality testing; affective control difficulties; extreme vulnerability to stress with psychotic decompensation; chronic regressive states; severe separation anxiety; generalized restricted development (in relationships, affect, cognition, and language); and schizoid retreat into preoccupations with fantasy life and withdrawal from relationships (Lewis 1994).
Evaluation of Bipolar Symptoms

The diagnosis of bipolar disorder in children is a major clinical challenge for psychiatrists because the classical picture of this disorder is uncommon in young patients. Controversy exists about the legitimacy or validity of the diagnosis in preadolescents. The clinical features of bipolar disorder in childhood and adolescence are not similar to those of the adult patients who meet DSM-IV-TR diagnostic criteria. Bipolar disorder in its classical manifestations becomes more common as the child advances throughout adolescence. During late adolescence, the clinical picture becomes progressively similar to that described in adults.

The diagnosis of bipolar disorder has become more common in recent years. In outpatient visits by patients ages 19 and younger, bipolar disorder was diagnosed in 25 per 100,000 visits in 1994 and in over 1,000 of 100,000 visits in 2003; this is a 40-fold increase. In inpatient populations, the diagnosis increased sixfold between 1996 and 2004 (Singh 2008). These trends continue at the present time.

The controversy surrounding the diagnosis of mania in preadolescence is similar to the controversy surrounding the diagnosis of depression in preadolescence before it was recognized officially in the mid-1970s. Many clinicians do not accept that children of early latency or preschool age might exhibit such a severe symptom complex. Mania is both an internalizing and an externalizing disorder (Carlson and Youngstrom 2003). Hechtman (1999) explained that the bipolar disorder diagnosis is overused in children due to 1) modifications to DSM-IV-TR diagnostic criteria (irritability for mania, chronic instead of episodic course); and 2) the overlap of diagnostic criteria between ADHD and bipolar disorder. Five of seven symptoms for the diagnosis of mania are shared with ADHD and bipolar disorder. Five of seven symptoms for the diagnosis of mania are shared with ADHD. Hechtman asserted that the diagnosis of bipolar disorder should not be made lightly and that it should require strong, sound evidence. She commented that no large epidemiological studies had been done supporting the overinclusiveness of the bipolar disorder diagnosis. Pliszka (1999) supported the need for longitudinal studies and favored strict criteria for bipolar diagnosis. He pointed out diagnostic ambiguities between intermittent explosive disorder and bipolar disorder. Hechtman (1999) and Pliszka (1999) both warned that psychopharmacological response should not be considered confirmatory of bipolar disorder. The on-
going controversy notwithstanding, Kraepelin found that 0.4% of his pa-
tients (i.e., 1 in 200 cases) had displayed manic features before age 10 years
(as reported by Goodwin and Jamison 1990).

Skeptical clinicians believe that early bipolar disorder in children is noth-
ing more than a severe form of ADHD. About this controversy, Goodwin and
Jamison (2007) wrote, “Overall, studies of manic symptoms in children and
adolescents may indicate true bipolar disorders in some cases, but in other
cases, these symptoms may be mainly markers of severe emotionality and dis-
ruptive behaviors” (p. 194). Post et al. (2002) described a series of develop-
mental factors in the evolution of bipolar disorder (see Table 9–1). The
critical factor in the differential diagnosis of early onset bipolar disorder is not
the ADHD symptomatology, because manic children and children with
ADHD overlap significantly in this area. The difference is in the mood pre-
sentation and, more importantly, in the history of mood dysregulation. Un-
fortunately, many children exhibit both problems. Geller and Luby (1998)
described five symptoms that differentiate children with bipolar disorder
from those with ADHD: elation, grandiosity, racing thought or flight of
ideas, lack of need for sleep, and hypersexuality (cited in Goodwin and Jami-
son 2007). In Geller and Luby’s sample, 60% of children with bipolar disor-
der displayed psychosis, including 50% of children who showed grandiose
delusions. Psychosis was a negative predictor of morbidity and incapacitation.
The high frequency of psychoses in children with bipolar disorder is in accord
with Pavuluri, who described a range of psychosis from 16% to 88% with a
prominent prevalence of grandiose delusions (p. 188).

**Table 9–1. Developmental factors in the evolution of bipolar disorder**

<table>
<thead>
<tr>
<th>Factor</th>
<th>Age of emergence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritability-dyscontrol factor (impulsivity, tantrums, aggression, hyperactivity)</td>
<td>Between ages 1 and 3 years</td>
</tr>
<tr>
<td>Depression factor</td>
<td>By age 8–12 years</td>
</tr>
<tr>
<td>Mania factor (racing thoughts, grandiosity, mood elevations and bizarre behavior)</td>
<td>Between ages 7 and 12 years</td>
</tr>
<tr>
<td>Psychosis-suicidal factor</td>
<td>Between ages 9 and 12 years</td>
</tr>
</tbody>
</table>

*Source.* Adapted from Post et al. 2002.
When assessing children for bipolar disorder, examiners often ask parents and/or teachers about children’s demonstration of symptoms. Requiring endorsement of manic symptoms from both parents and teachers leads to the diagnosis of children who have greater severity of impairment (Carlson and Youngstrom 2003). Considering the discrepancy of symptom endorsement by different observers, “two conclusions are warranted. First is that the stability, validity, and age-related aspects of these cardinal symptoms of mania are in need of greater attention, and, as with other childhood conditions, more than one source of information may be necessary for a better understanding of the phenomenology in question. Second, hyperactive, irritable children who appear to be pervasively ‘euphoric/elated/grandiose’ constitute a more severe seriously disturbed population than children without those symptoms, regardless of whether they have episodes that meet stringently defined mania criteria” (Carlson and Youngstrom 2003, p. 1055).

The following case example involves a preadolescent child whose manic condition had not been identified.

Tony, a 5-year-old white boy, had been admitted to an acute inpatient setting for evaluation of severe aggressive behaviors at home and at school. Tony displayed overt and inappropriate sexual behavior, including attempts to have sex with a dog. Tony had a history of mood fluctuations, unpredictable temper, clear depressive trends, and even suicidal behaviors. He had been neglected and had been sexually abused by his 16-year-old brother. At the time of admission to the acute inpatient psychiatric program, Tony had been living with his maternal great-grandmother, who allegedly infantilized him. Tony’s natural parents were psychiatrically ill: his mother had a diagnosis of bipolar disorder, and his father had alcoholism. There was a family feud regarding Tony’s most suitable rearing environment because other relatives felt that his great-grandmother was senile and mentally unstable.

The therapist who sought the psychiatric evaluation had told the psychiatrist with amusement that Tony had the whole unit in stitches: he went around the unit cracking jokes and making everybody laugh. Tony’s undeniable manic episode had not been recognized. He displayed euphoric mood and pressured speech and was driven and overly friendly; his history of hypersexuality and family background of bipolar illness had been overlooked.

Postscript. Tony is now a 30-year-old young adult. He has displayed intermittent manic and psychotic behaviors over the years. From time to time, he becomes paranoid and aggressive in response to delusional perceptions. Tony’s comorbid anxiety and somatoform symptoms continue to be incapac-
iating. He now lives in a group home and has limited functional capacity. Tony has continued to receive psychiatric treatment since the initial contact.

Early onset bipolar disorder differs from the adult version of the disorder. According to Wozniak et al. (1995), “We found [children with bipolar disorder] to have a developmentally different presentation from adults with BPD [bipolar disorder] such that the majority of these children presented with irritable rather than euphoric mood disturbance, a chronic rather than an episodic course, and a mixed presentation with simultaneous symptoms of depression and mania” (p. 1577). In other words, “it is developmentally possible for childhood-onset manic-depressive illness to be more severe; to have a chronic non-episodic course; and to have mixed, rapid-cycling features similar to the clinical picture reported for severely ill, treatment-resistant adults” (Geller and Luby 1997, pp. 1168–1169).

Hypomanic features are sometimes disregarded because they are mistaken for normative childhood behaviors. For example, silliness and clownlike behavior are often mistakenly considered normal behaviors of childhood. Parents of hypomanic children often report that their children are unusually happy or very silly, laugh for no apparent reason, or show an unusual degree of expansiveness, often out of character with their more subdued, if not depressed, demeanor. More often, however, a protracted course of irritable mood and prolonged dysphoria is the rule. The moods of these children shift unpredictably, and the children’s negative moods are prolonged and intense, despite efforts by sensitive caregivers to soothe the children. Prolonged temper tantrums and bouts of violent, destructive, and uncontrollable behaviors are the norm rather than the exception in early onset bipolar disorder. Parents report mood fluctuations, even during the same day, and these mood changes often seem unmotivated. The clinician should suspect early onset bipolar disorder when the following complaints are present: recurrent dejected states, prominent irritability, and proneness to angry outbursts in response to even minor provocations.

The examiner should assess bipolar symptoms in terms of the child’s developmental state. For example, a preadolescent with bipolar disorder explained his high energy level by saying that he felt like “I have 100 jet engines in my body.” In Joe’s case example (later in this chapter), the adolescent exercised excessively for long periods of time without experiencing exhaustion.
Grandiosity may have age-related manifestations. Children with bipolar disorder frequently believe they are superheroes (e.g., Superman, Batman, Spiderman, Iceman, Wonder Woman). These children believe they can perform incredible feats, such as “defending the world from alien invaders,” because they believe they have special strength or special abilities. Some children with bipolar disorder believe they can fly, have attempted to do so, and have been injured when they jumped from high places.

Most frequently, children with bipolar disorder display or verbalize aggressive themes (e.g., “I can beat anybody”). One 7-year-old child felt so strong and invincible that he said, “I can beat even God.” Another 7-year-old child expressed her grandiosity by boasting, “I have two thousand boyfriends.” Yet another 7-year-old child claimed that he was a millionaire and kept making plans for all the money he expected to receive from his disability. Adolescents may be involved in schemes to get rich fast that are similar to the economic misjudgments made by manic and hypomanic adults. For example, a 16-year-old adolescent stole a number of checks from his grandfather and forged his signature with the idea of buying some stereo equipment at a cheap price. He was convinced that he could resell the equipment at a big profit.

Patients sometimes exhibit entrenched traits of arrogance and condescension (see Habib’s case example later in this chapter). These individuals believe they know more than do their parents, teachers, or psychiatrists. Because of their boastfulness and their persistent devaluation of others, they frequently clash with peers and with authority figures. Typically, these children lack friends and get into frequent conflicts with authority figures, including the law. Parents and other significant figures in these children’s lives are often impressed by the children’s display of knowledge or by their use of sophisticated language. Parents may believe that these children have superior intellectual abilities and become incredulous when faced with the reality of their children’s abilities.

The expression of hypersexuality also needs to be assessed in reference to developmental norms. Several of the case examples in this chapter illustrate inappropriate sexual behavior or hypersexuality (see Tony’s earlier case and Kathy’s and Joe’s cases, which follow). Compulsive masturbation, promiscuity, and other forms of sexual preoccupation must be explored. The examiner should pursue the possibility of sexual abuse as the cause of these abnormal behaviors. Because a mixed clinical picture seems to be the norm, the exam-
iner must always inquire about depressive feelings when the child exhibits hypomanic traits, and vice versa.

The following cases are clear examples of children with bipolar disorder.

Kathy, an 11-year-old white girl, had been followed up for a mood disorder that had started about 1 year earlier. She appeared floridly manic. She was markedly euphoric (e.g., she laughed boisterously on an ongoing basis), was driven and restless (e.g., she was unable to sit still for a prolonged period of time), and was in need of continual redirection. She also had trouble sleeping at night. Kathy was sexually preoccupied, and the obsessional quality of her sexual thoughts was quite disturbing. At school, she had boasted in front of the class that she was Lorena Bobbitt [infamous foremasculating her husband]. One day, Kathy took a razor blade to school and announced, “I am going to cut the penises from all the boys.” This created a great consternation among her classmates, and as a result, she experienced further rejection by her peers. Kathy also displayed conspicuous regressive behavior. Kathy would touch her mother repeatedly and would often tell her, in an endearing but childish manner, “You are so pretty!” or “You are so beautiful!” Occasionally, she would put her head on her mother’s lap. When Kathy interacted with her mother, she would talk in a childish and regressive manner.

Kathy also exhibited significant depressive symptoms: she complained that she felt depressed; cried frequently; and was unhappy about her looks (she was overweight), her lack of friends, and her feeling that her peers rejected her. Frequently, she became withdrawn and said that she wanted to die.

Kathy’s clinical presentation was not very different from Joe’s.

Joe was a 14-year-old Hispanic adolescent who had been diagnosed at age 12 with bipolar disorder with mixed features. He had been hospitalized multiple times in acute psychiatric units for suicidal, homicidal, and psychotic behaviors. At the time of the last hospitalization, Joe complained of being very depressed. He said that he wanted to kill himself and had heard command hallucinations ordering him to do so. He had problems concentrating and had no motivation to do any homework. He felt very guilty, ashamed, and remorseful about the sexual feelings he had experienced toward his 37-year-old aunt. These feelings had a compulsive quality. In the past, Joe had complained about feeling like having sex with his dog, and he was also disturbed by these feelings. Joe reported feeling like Superman. He experienced a great deal of energy: on one occasion, he lifted weights for an entire day because he didn’t experience any feeling of tiredness. At times, he felt that he was God and felt that his school classmates were his subjects who needed to pay homage to him because he was their master.
The following case example provides a dramatic illustration of mixed manic and depressive features.

Habib, a 12-year-old mixed-raced boy (his mother was white and his father Arabic), was admitted to an acute care psychiatric unit after he attempted to hang himself. He had tied his belt to a high bar in the bathroom of a psychiatric residential treatment facility, had put the belt around his neck, and was about to jump when he was found.

Habib had been admitted to the residential program 2 months earlier, because his mother believed she could no longer handle his aggressive, explosive, oppositional, and defiant behaviors. Nine months before that placement, Habib had been hospitalized for suicidal and homicidal behaviors. Before the residential placement, Habib had felt progressively depressed and hopeless, and he had trouble sleeping. He dreamed that his father was dying. In reality, his stepfather, who had been like a real father to him, was dying of terminal lung cancer. Since his first admission, Habib had been followed in outpatient therapy and had been tried on a number of psychotropic medications without significant benefits.

Habib was a very bright child and was an excellent student. He had very few friends because of his domineering, condescending demeanor and his low tolerance for frustration. He had particular problems with his 11-year-old sister, who apparently was afraid of him.

Habib’s stepfather died 5 weeks before the most recent suicidal crisis. This was a major loss for Habib and his family. His mother was overwhelmed with her husband’s death. Habib had been progressing satisfactorily in the residential program, and a discharge date had been set for him to return home, but his mother dreaded his return. Habib’s mother, feeling incapable of handling him, told Habib over the phone that she was planning to put him in a shelter while he waited for a group home placement. It was at this point that Habib planned to commit suicide. He wrote the following suicide note:

To whom it may concern,

I have been torn to shreds emotionally, mentally, and spiritually. All the strings in my life have been cut. My mother, my own flesh and blood, has cut the last one today. Now I have no reason to live. There were many things I wanted to do that I will be able to do in heaven. I wanted to write the best book of all time. I wanted to play in the NFL and NBA. I wanted to be a star in the movies and a singer. I wanted to go to Harvard and Harvard Law to become a litigator. I wanted to be rich and not have to worry about money. I wanted to skydive and bungee jump and go river rafting. I wanted to improve the world with my inventions. I wanted to fly a fighter jet in combat for the marines. I wanted to travel the world and beyond. But more than any-
thing else I wanted a family, parents, children, and grandchildren. I wanted love. I refuse to live in this chaotic world. FUCK YOU, MAMA!

I love you Casey, Ebony, Meggy, Sleepy, Spike, Sugar, Fay, Thena, Precious, LaBritt, Goodwin, Matthew F., Troy, Ricky P., Brandon L., Scooter, Troy, and everyone from the Center [Habib listed all of the residential placement staff members].

Sincerely,

Habib

P.S. I also wanted to be a big-time artist, design shoes, and create games.

The reader of this letter will recognize Habib’s pressured speech, marked verbosity, depression, sense of hopelessness, and boundless grandiosity. When Habib mentioned his inventions at the residential program and the therapist expressed curiosity about them, Habib asked the therapist to sign a letter in which the therapist would promise not to infringe on his patent inventions.

Constitutional and developmental affective dysregulation are implicated in early onset bipolar disorder. According to Akiskal (1995), “From a very young age, children of bipolar parents evidence difficulty modulating hostile impulses, extreme emotional responses to relatively minor provocations such that the responses greatly outlast the provocation, and heightened awareness of and distress for the suffering of parents and others….By late childhood, they have significantly higher rates of comorbid depressive, anxious, and disruptive behavioral problems….Such comorbidity might be interpreted as an indication of emerging dysregulation along irritable-cyclothymic temperamental lines….These findings testify to the affective and behavioral liabilities, as well as the personal qualities of an emerging bipolar temperament” (p. 758). To this, not surprisingly, the author added that for children with a bipolar profile, “Encounters with peers and adults, especially parents sharing the same temperamental dispositions, are bound to be intense, tempestuous and some times destructive” (p. 758). Akiskal concluded, “The profile of the child at risk for bipolar illness…suggests that whatever emotion—negative or positive—these children experience, they seem to experience it intensely and passionately. Their behavior is likewise dysregulated and disinhibited, which leads to an excessive degree of people-seeking behavior with potential disruptive consequences” (p. 758).

The difficulties of ascertaining the diagnosis of bipolar disorder, as expressed by Carlson in 1990, are still valid today: “While the distinctions be-
between normality, hypomania and mania reflect differences of degree of
disorder, differences between mania, psychotic mania, schizo-affective mania
and schizophrenia raise questions of different disorders. Moreover, there is
still no unequivocal way to make distinctions. Such time-honored criteria as
degree of thought disorder, or presence of Schneiderian first rank symptoms
and mood incongruent with psychotic symptoms, at least during the manic
episode, have not been reliable in distinguishing a manic course from a
schizophrenic course” (Carlson 1990, p. 332). Many times, longitudinal de-
velopmental follow-up will assist in deciphering the enigma.

Examiners should exercise caution when diagnosing first psychotic breaks
during adolescence because many presentations appear to be schizophreni-
form in nature. The clinical picture changes into a bipolar presentation as the
clinical course unfolds (see Note 3).

The diagnosis of bipolar disorder is also missed in children who abuse al-
cohol and other substances. Alcohol abuse in preadolescents is closely associ-
ated with affective disorders. Famularo (1985) asserted that “seven of their ten
cases of preadolescent alcohol abuse or dependence were bipolar or cyclothym-
ic, and the remaining three had closely related disorders (major depression
with conduct disorder, atypical psychosis, and atypical affective disorder)”
(quoted in Goodwin and Jamison 1990, p. 100).

Table 9–2 lists the constellation of history, signs, and symptoms that raise
the index of suspicion of a bipolar diagnosis in children.

Table 9–2. History, signs, and symptoms associated with bipolar
disorder

| Comorbidity: ADHD, conduct disorder, substance abuse disorder, borderline personality disorder, and anxiety disorders are common. |
| Evidence of elation during the mental status examination: The euphoria is usually infectious. Mixed mood, including depressive and hypomaniac (or manic) trends, may be present. |
| Evidence of grandiosity: Some children feel that they have special powers; they want to perform the feats of superheroes (e.g., Superman, Batman). Some have made attempts to fly. Other children are hard to teach because they “know it all.” Many are condescending toward peers. Frequently, these children have no friends because they have alienated peers with their devaluing and condescending attitude. Thus, delusions of grandeur, primary identification with superheroes, and paranoid symptomatology may be prominent. |
Evaluation of Externalizing Symptoms

Table 9–2.  History, signs, and symptoms associated with bipolar disorder (continued)

**Judgment impairment:** Hypomanic and manic states always involve impairment of judgment. Hypersexuality, perverse sexual activity, participation in ill-conceived financial schemes, frequent “joyriding,” and other impulsive actions are commonly reported.

**Mood dysregulation:** Commonly, these children have a background of chronic mood disorder with mostly depressive symptomatology. Moodiness and irritability are commonly present. These children have histories of intense and prolonged temper tantrums and difficulties with anger control. Frequently, they have been violent, assaultive, suicidal, or self-abusive. Severe preadolescent depression with psychomotor retardation may be a forerunner of bipolar disorder. These children often have a history of depression with marked psychomotor retardation or a history of atypical depression or of hypomania/mania in response to antidepressant treatment.

**Positive family history:** A family history of mood disorders—in particular, bipolar disorder (more so when a three-generation history of the disorder is present)—makes the diagnosis probable.

**Presence of homicidal or suicidal behavior**

**Pressured speech and rushing thoughts**

**Psychomotor activation:** These children are hyperactive if not driven and are restless and very impulsive. They may be distractible (many patients have been diagnosed with ADHD or may have comorbid ADHD). Other related symptoms are the lack of a need for sleep (i.e., insomnia) and a high level of energy.

**Psychotic symptomatology:** Psychotic features are common. Auditory hallucinations, often of a commanding nature, are present. Depressive delusional manifestations have been considered to be predictive of a bipolar diathesis. Psychotic depressions are common: the earlier the presentation of depression, the greater the likelihood is of psychotic symptomatology.

*Note.* ADHD=attention-deficit/hyperactivity disorder.


**Evaluation of Oppositional Behaviors**

Children with ODD pose the greatest challenge for the examining psychiatrist. The challenge is not so much in formulating a diagnosis but in estab-
lishing a diagnostic and treatment alliance. These children most often arrive at the psychiatric evaluation already disgruntled, refusing to speak, and with a defiant, uncooperative attitude. The examiner quickly realizes that the interview will be a trying affair because the child avoids eye contact and exhibits a downcast demeanor and a tense, if not angry, countenance.

Because children with ODD are hypersensitive to authority figures and are prone to oppositional or defiant behaviors at the slightest perception of provocation, the examiner needs to avoid stimulating the child’s oppositional and provocative defenses. Simply, the examiner needs to avoid falling into the provocative trap enacted by the patient. The child’s refusal to talk or defiant mutism could stimulate angry counterresponses in the examiner; this behavior is in part because the child wants to enact a power struggle and wants to be the victor. A common assumption of children with ODD is that nobody understands or will be able to understand them. The examiner should be aware that the oppositional behavior may be related to a dysphoric state, an affective disorder, or another psychiatric or neuropsychiatric condition.

The examiner should attempt to moderate the child’s provocative facade by relating to the patient in a straightforward but caring and concerned manner. The child becomes a victor if the examiner falls into the child’s trap or if the examiner gives up the interviewing effort out of frustration over the child’s lack of cooperation. Facing an overtly uncooperative and defiant child, the examiner may feel great temptation to plead for cooperation, to give advice, or to become patronizing. These strategies must be avoided. Table 9–3 offers some suggestions on how to deal with and respond to a child with ODD.

<table>
<thead>
<tr>
<th>Table 9–3. Productive and counterproductive approaches in dealing with children with oppositional behaviors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Productive approaches</strong></td>
</tr>
<tr>
<td>Be conscious of your behavior with child</td>
</tr>
<tr>
<td>Approach the child in a matter-of-fact manner</td>
</tr>
<tr>
<td>Display warmth and benevolence</td>
</tr>
<tr>
<td>Give the child the benefit of the doubt</td>
</tr>
<tr>
<td>Exercise self-control and become aware of your tone of voice</td>
</tr>
<tr>
<td>Use a positive and assertive tone of voice</td>
</tr>
<tr>
<td>Be concise and to the point when you address the child</td>
</tr>
<tr>
<td>Do not give up; do not give in</td>
</tr>
</tbody>
</table>
**Table 9–3.** Productive and counterproductive approaches in dealing with children with oppositional behaviors (continued)

<table>
<thead>
<tr>
<th>Model problem solving</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focus on the problem at hand, not on the child</td>
</tr>
<tr>
<td>Foster the child’s cooperation</td>
</tr>
<tr>
<td>Engage the child in the solution of the problem</td>
</tr>
<tr>
<td>Praise the child’s steps toward resolving the problem</td>
</tr>
<tr>
<td>Try playfulness and humor</td>
</tr>
<tr>
<td>Do not miss any opportunity to praise or reward the child’s prosocial behavior</td>
</tr>
<tr>
<td>Be empathic toward the child’s plight</td>
</tr>
<tr>
<td>Pinpoint your awareness that the child is hurting</td>
</tr>
<tr>
<td>Attempt to identify with the child’s problems</td>
</tr>
<tr>
<td>Help the child to verbalize sources of distress</td>
</tr>
<tr>
<td>Assist the child in regaining control</td>
</tr>
<tr>
<td>Give the child opportunities to save face</td>
</tr>
<tr>
<td>Use sensitive redirection</td>
</tr>
<tr>
<td>Keep behavioral expectations</td>
</tr>
<tr>
<td>Emphasize the child’s strengths and positive expectations</td>
</tr>
<tr>
<td>Make child aware of behavioral consequences</td>
</tr>
<tr>
<td>Exercise consistent limit setting</td>
</tr>
<tr>
<td>Focus on the here and now</td>
</tr>
<tr>
<td>Reverse roles (help the child to verbalize the experience)</td>
</tr>
</tbody>
</table>

**Counterproductive approaches**

| Negative emotional tone                                                               |
| Critical attitude                                                                     |
| Insensitive confrontation                                                              |
| Engaging in power struggles                                                            |
| Taking a threatening or intimidating stance                                            |
| Ignoring the child                                                                     |
| Dramatizing or patronizing                                                             |
| Personalizing the problem                                                              |
| Reminding the child of previous mistakes                                              |
| Making the child feel bad                                                              |

*Source.* Adapted from Cepeda 2000.
The following case example illustrates some of these issues.

Raul, a 12-year-old Hispanic boy, was evaluated for progressively more aggressive behavior at home and at school. He had been involved in fights at school and had been suspended a number of times. He had been suspended recently for physically assaulting a third grader. After assaulting the boy, he threatened to kill anyone who reported the incident. At home, Raul got into frequent fights with his younger brother and argued with, talked back to, disobeyed, and provoked his mother on a regular basis. The night before the evaluation, Raul threatened to run away and also threatened to kill himself. A short time before the evaluation, Raul’s 8-year-old sister had been removed from the home because their 14-year-old brother had sexually abused her.

During the preceding 6 months, Raul’s mother had noticed that he was becoming progressively irritable. She also reported that he had daily angry outbursts toward her and his siblings. Raul had been in a psychiatric hospital for treatment of a major depressive episode with psychotic features 4 years earlier. He had been followed up in outpatient therapy on a weekly basis. At the time of the current evaluation, Raul was taking antidepressants.

Since Raul was 8 years old, his father had been in prison for dealing drugs. Raul was in the sixth grade in a special education program, but because of the recent episode of dyscontrol, he was referred to an alternative school. He had no significant medical or surgical history. According to Raul’s mother, he had reached his developmental milestones in a timely manner. Raul’s mother was afraid that her son had used drugs, and she suspected him of associating with gangs.

Raul was in a dysphoric mood when he entered the interview room. He wore casual clothes, and his hair was shaved on both sides of his head. He gave the examiner a defiant look. The interview proceeded as follows:

Interviewer: Why were you brought for this evaluation?
Raul (responding in an irritated manner): Go and ask my mother.
Interviewer: Do you know why you were brought to see a psychiatrist?
(Raul shrugged his shoulders and didn’t say anything.)
Interviewer: What problems do you have at home?
(Raul shook his head, made a gesture of displeasure, and shrugged his shoulders again.)
Interviewer: What problems do you have at school?
Raul: Fighting.
Interviewer: Have you ever been suspended?
Raul: Two times.
Interviewer: I wonder if you have been expelled.
Raul: No.
Interviewer: What kind of fights were those?
Raul (shouting defiantly): That is something private. That stupid teacher!
Interviewer: Have you ever been in a gang?
Raul: That’s personal.
(Because Raul had begun to answer some questions, the examiner repeated some of the earlier questions.)
Interviewer: What problems do you have at home?
Raul: Fighting with my brother and arguing with my mother.
Interviewer: Who lives at home?
Raul: My mother and two brothers.
Interviewer: Do you have a father?
Raul: He is in prison. (Raul looked down at his lap.)
Interviewer: Why is he in prison?
Raul: That’s personal. (Raul gave the examiner a defiant look.)
Interviewer: Have you ever gone to see him?
Raul: No. (Raul became less confrontational.)
Interviewer: Does he ever write to you? Do you ever write back?
Raul (with sadness): I can’t read. (Raul’s face appeared downcast, and he rested his head on the table.)
Interviewer: You are sad.
(Raul nodded but didn’t say anything. His head was resting on the table at this time.)
Interviewer: Do you ever cry?
(Raul nodded again.)

By this time, Raul’s demeanor had softened, and he was more amenable to an extended interview. By the end of the psychiatric examination, Raul was more animated and appeared less defiant. The interview was difficult and filled with tension, but as the engagement increased, the tension and pressure decreased. By the end of the interview, the examiner had empathic and positive feelings toward Raul. The examiner persisted in the goal of completing the psychiatric examination in spite of Raul’s persistent defiance and obstructionism. The examiner was firm but related to Raul in a caring manner and avoided responding to his provocations.

ODD coexists with a variety of comorbid conditions, such as depressive disorders, ADHD, and psychotic disorders. Oppositional behavior is common in children with anxiety and conduct disorders. Severe oppositional behavior is common in children with language disorders (particularly receptive
disorders), cognitive deficits, limited problem-solving skills, and other neuropsychological deficits, and in children with narcissistic features. Many children with oppositional behaviors have a history of abuse, significant parental inconsistency, and exposure to parental discord or family violence.

**Evaluation of Substance Abuse**

Substance use or abuse may occur comorbidly with other psychiatric disorders. For example, ODD may coexist with, have an etiological influence on, or be a consequence of substance use disorder (Szobot and Bukstein 2008). Usually, a person’s first drug contact starts in adolescence; commonly, adolescents begin to experiment with so-called licit psychoactive substances such as alcohol and nicotine. Some youth go on to experiment with illicit drugs (Szobot and Bukstein 2008). Certain psychopathologies (before age 13 years) precede drug experimentation or the regular use of drugs. A strong association exists between experimentation with psychoactive substances and ODD; the presence of a mental disorder in childhood is associated with a greater likelihood of regular marijuana use in adolescence. Substance dependence is higher in children and adolescents with conduct disorder; the risk of substance dependence is also increased in children and adolescents with ODD, affective disorders, anxiety disorders, and bipolar disorder. Although the role of ADHD in substance use disorder is controversial, persons who have experienced trauma in childhood are at a higher risk of substance use disorder (Szobot and Bukstein 2008). Youth with substance use disorder may have a dysfunction in the brain reward system involved in motivation, salience, and delaying capacity (Szobot and Bukstein 2008).

When assessing drug abuse in adolescents, the examiner should 1) assess the severity of the drug abuse problem (preferred drugs, past and present use, age at onset of abuse, frequency, quantity, consequences from use, treatment experience and response); 2) determine risk factors and protective factors; and 3) assess mediating factors (i.e., reasons for the substance use, drug preference, expectations, readiness to change behavior, self-efficacy; Kaminer 2008). Self-reporting of drug use by adolescents is generally valid and detects more drug use than laboratory tests or collateral reports (Kaminer 2008; see Note 4).
Notes

1. The most frequently used structured instruments for the “actuarial” assessment of violence are the HCR-20, the Classification of Violence Risk, and the Violence Risk Appraisal Guide. Although the HCR-20 was created for adults, this protocol has significant implications for assessment of violence in youth. The HCR-20 (Webster et al. 1997) includes 20 ratings addressing historical, clinical, and risk management. The 10 historical items are 1) previous violence, 2) age at onset of first violent episode, 3) unstable relationships, 4) employment [school] problems, 5) substance use problems, 6) major mental illness, 7) psychopathy [enduring conduct disorder behaviors], 8) early maladjustment, 9) personality disorder, and 10) supervision failure. The five clinical factors are 11) lack of insight, 12) negative attitudes, 13) active symptoms of mental illness, 14) impulsivity, and 15) no response to treatment. The five risk management factors are 16) the plan lacks feasibility, 17) exposure to destabilizers, 18) lack of personal support, 19) noncompliance with remediation attempts [medications, therapies], and 20) stress.

The Classification of Violence Risk (Monahan et al. 2005) is an interactive software program designed to estimate the risk that an acute psychiatric patient will be violent toward others in the coming months. The program measures 40 risk factors. Three categories of risk factors are generated: 1%, 26%, and 76% likelihood of violence.

The Violence Risk Appraisal Guide (Quinsey et al. 1996), which measures 12 risk factors designed to predict violence in offenders with mental illness, has impressive predictive validity. The authors of the assessment do not allow for any clinical review of the structured risk estimate generated by the instrument (Monahan 2008).

Two scales have the greatest psychometric support for adolescents. The Hare PCL: Youth Version (Forth et al. 2003) requires a 60- to 90-minute expert interview and provides a score but has no cutoff values for categorical diagnosis or risk of violence. The Structured Assessment of Violence Risk for Youth (Borum et al. 2005) guides trained evaluators in a systematic assessment of risk factors associated with violence. A final determination of risk as minimal, moderate, or high is reached. Prospective validity of these scales has not been demonstrated (Ash 2008).
2. An interplay exists between genetics and environment: a genetic susceptibility for antisocial behavior may remain latent in the absence of negative environmental factors, such as harsh parenting or living in a criminal neighborhood. Certain genotypes may be protective against or increase vulnerability for antisocial behavior; thus, maltreated children with a genotype conferring high levels of monoamine oxidase A (MAOA) expression were found to be less likely to develop antisocial problems than were maltreated children with a genotype conferring low levels of MAOA expression (Popma and Vermeiren 2008).

3. When attitudes of parents of high-risk offspring were queried about how early they would approve intervention in their children, 60% thought that acute medication interventions were warranted at the onset of moderate symptoms in offspring of hypothetical very high risk (70%); the approval rate increased to 80% at the onset of severe symptoms and to 99% if a definite diagnosis was made. For long-term treatment, the rates are lower: 45% of parents would approve medication use for the onset of moderate symptoms, 65% for onset of severe symptoms, and 93% for a definite diagnosis. Only 7.1 of the parents would wait for the occurrence of multiple episodes or a definite diagnosis (Post et al. 2002).

4. Administration of screening instruments for the assessment of violence is essential as a first step in assessing drug abuse. Reliable and valid screening tools include Personal Screening Experience Questionnaire; CRAFT, a brief test named for the first letter of key words in six questions; Substance Abuse Subtle Screening Inventory; Drug Use Screening Inventory—Revised; and Problem Oriented Screening Instrument for Teenagers. Measures for the assessment of drug abuse severity include Teen Addiction Severity Index, Adolescent Drug Abuse Diagnosis, and Personal Experience Inventory (Kaminer 2008).

References
Evaluation of Externalizing Symptoms


Pliszka S: Bipolar disorder and ADHD: comments on current controversy. The ADHD Report 7:9–11, 1999


Recommended Readings


Evaluation of Symptoms of Abuse

Key Points

- The assessment of trauma resulting from physical and sexual abuse is complex.
- A skillful exploration includes consideration of any abusive experiences and the psychological consequences of abuse.
- The examiner needs to be sensitive and thorough throughout the inquiry.
- The examiner needs to assess the patient’s truthfulness during the diagnostic examination.

In this chapter, I discuss a number of abuse-related symptoms that do not fit well into the categories of either internalizing symptoms (see Chapter 8, “Evaluation of Internalizing Symptoms”) or externalizing symptoms (see Chapter 9, “Evaluation of Externalizing Symptoms”). The assessment of these symptoms may involve agencies such as child protective services and the legal system.

Evaluation of Symptoms of Abuse

The psychiatric evaluation of children who have been physically or sexually abused focuses predominantly on the psychological consequences of the abuse. The examiner attempts to ascertain the deleterious influences on the
child’s developmental process and on the psychological and interpersonal functioning of the child and his or her family. The goals of this evaluation are to comprehensively assess the child and the family, to determine an accurate psychiatric diagnosis, and to develop a comprehensive treatment plan.

The examiner’s first step in evaluating children who have been abused is to clarify his or her role in the overall assessment process. The purpose of the evaluation determines the examiner’s approach and the information he or she will gather. The selected approach depends on whether the examiner is performing a forensic or a clinical examination. Because of legal implications, the examiner must pay careful attention to the facts in a forensic assessment. Ascertaining the facts in allegations of sexual abuse is a delicate, difficult, and uncertain enterprise (Benedek and Schetky 1987a, 1987b). One would think that the medical pelvic examination would be more effective as a fact-finding examination; however, even the pelvic examination is fraught with uncertainties and controversy (Coleman 1989).

Benedek and Schetky (1987b) warned that sexual abuse treatment should not be initiated without confirming that such abuse happened in the first place. These authors recommended a comprehensive psychological evaluation as an important part of the total assessment and emphasized the need for a comprehensive psychiatric evaluation of the child and the family, as well as extensive collateral corroboration from school, other families, and other relevant sources. The clinician needs to focus his or her attention equally on the child’s narrative and on historical truths: “Clinicians should not attempt to be detectives in search of historical truth, but neither should they blur narrative and historical truth” (Allen 1995, p. 90).

**Special Considerations in Interviewing Abused Children**

Clinicians should always keep in mind their legal responsibilities when dealing with abusive situations. They are obligated to report abuse (even suspected abuse) to the child protection agencies.

When interviewing children who may have been abused, the examiner must be particularly careful to avoid asking leading questions (Goodman and Saywitz 1994). Because leading questions sometimes are unavoidable, the examiner must carefully assess how such questions may bias the information gathered.
Engagement is very important in assessments of this nature (see Chapter 1, “Diagnostic and Therapeutic Engagement”). Engagement helps to improve the child’s sense of trust and comfort; good rapport decreases the degree of defensiveness and apprehensiveness that the child may exhibit in communicating these sensitive, often secretive experiences. The examiner should use the same vocabulary that the child uses, no matter how incorrect such terms may seem to the examiner. This is not the time to instruct the child on correct anatomical terms.

Questions such as “Have you ever been physically or sexually abused?” are of uncertain value because the child may have been told not to tell, or the child may feel a duty to protect his or her family. The examiner should begin the evaluation by exploring how the child is disciplined. The following questions may be helpful: When you have done something wrong, how do your parents discipline you? Have you ever been spanked? Have you ever been punished? Has your father or your mother ever lost control when disciplining you? Has anyone ever used a belt on you? Have you ever been whipped? When asking these questions, the examiner needs to be sensitive to different cultural attitudes toward physical discipline.

The sensitive exploration of the topic of sexual abuse may begin with the following questions: Has anyone ever touched you where they shouldn’t? Where? When did that happen? Did you tell anyone? Did you tell your mom? If the child answers “no” to this question, the examiner should ask whether there was a reason why the child couldn’t tell the parent. If the child reports that “nasty” acts were done to him or her, the examiner should encourage the child to provide details of what happened, but the examiner must be careful not to suggest answers or to ask leading questions. The examiner must note the events narrated by the child in the child’s own words (i.e., using the child’s own language and expressions). Opinion is firmly established that open-ended questions produce the most reliable information. Interviewers are advised against asking questions that may be accusatory; that have erroneous content; or that may introduce elements of threat, coercion, or bribe (Mantell 2008).

Most sexually abused children have been threatened by the perpetrators of the abuse and have been told not to talk about it. Often, these children have been told that horrible things, including death, will happen to them or their family if they disclose the abuse. The examiner should remember that the child is aware of the possible repercussions of disclosure. The examiner’s empathic
understanding of the child’s fear should reassure the child. When a child reveals sexual abuse, the examiner may tell the child that he or she knows that when things like that happen to children, they are often told not to say anything to anyone. The examiner can then ask the child to tell him or her about any threats the perpetrator may have made. The examiner should explore the nature of the threats and reassure the child about any fears and anticipated retaliation. If the child has active symptoms of posttraumatic stress disorder, the fear of retaliation may reach psychotic proportions. When needed, the examiner should reassure the child that he or she will be safe and protected and that the examiner will make every possible effort to avoid any negative consequences for making the disclosure. If the examiner concludes that the child’s safety cannot be guaranteed or that the traumatization is likely to continue, he or she should arrange with child protective services to place the child temporarily in a safe environment until the concerns with safety are resolved.

All forms of psychological manipulation of the child and any form of cajoling or pressuring of the child are absolutely proscribed. Pressure from the examiner to remember traumatic events may promote confabulation (Allen 1995). Confabulation is discussed in more detail in the last section of this chapter, “Assessment of Truthfulness in Abused Children.”

A child’s ability to remember traumatic events may vary. Some memories may be clear, and some may be clouded; some memories may be corroborated, and others may not. Four of the categories in Allen’s (1995) classification of memories regarding sexual abuse are of particular clinical and legal relevance: category 4 includes clouded memories for which corroborating evidence is lacking, category 5 includes memories of trauma that are highly exaggerated or distorted, and categories 6 and 7 include memories of trauma that may or may not have occurred in individuals who believe they were abused (Allen 1995). Memory distortion may occur if the patient has been exposed to suggestive techniques or has had experience with therapists who erroneously believed that the patient’s symptoms were the result of childhood sexual abuse (Allen 1995).

Examiners should remember the moral and legal implications of accepting the patient’s disclosures at face value. They must exercise caution and attempt to substantiate the truthfulness of the patient’s revelations. Frankel (1996) stressed this point: “Those therapists who emphasize that what is recalled is a previously disconnected and accurate memory of a childhood event
that has never before been recognized might be correct in some instances; however, these therapists should not underestimate the consequences of such material, which has been regarded as truth but is actually the product of imagination, becoming the basis of either accusations within the family or litigation” (p. 96). Children may “remember” things that they have not experienced. In a discussion of research on memory retrieval in small children, Terr et al. (1996) commented, “If children are coached...the incorrect suggestion that they have heard may turn up as memories. Using strong and repeated suggestions, [one group of researchers] was able to impart episodes that never took place into some preschoolers’ minds” (p. 619). The examiner should also be aware that the act of reporting previous experiences modifies the nature of the child's narrative memory (Allen 1995; Lewis 1995). These issues are described in further detail in the last section of this chapter, “Assessment of Truthfulness in Abused Children.”

The use of sexual drawings and anatomically correct dolls should be postponed until after the child has revealed the abuse; using those props before disclosure increases the rate of false reports (Mantell 2008). The following are inappropriate uses of the dolls: presenting the doll unclothed, encouraging play with the dolls, naming the sexual parts of the doll for the child, probing the dolls' genitals or breasts, using the dolls to demonstrate sexual behavior, failing to elicit a verbal description of the abuse before presenting the dolls, and incorrectly clarifying what the child demonstrated (Mantell 2008).

The use of anatomically correct dolls to elicit information regarding possible sexual abuse is a controversial practice. Anatomically correct dolls should be considered as part of a set of stimuli that can function as communication and memory aids for children and other individuals who have immature language, deficits in cognitive or emotional development, or impaired communication skills (Koocher et al. 1995). The American Psychological Association (1991) listed the benefits of using these dolls (see Table 10–1). Britton and O’Keefe (1991), however, found that compared with the use of dolls without anatomical details, the use of anatomically detailed dolls had no effect on the outcome of the assessment of children who were thought to be victims of sexual abuse.

Abused children are prone to future psychopathology, and they are liable to repeat abusive behavior with peers and, later, with spouses and their own children. The idea that physical abuse may be repeated with others is com-
monly accepted, but the tendency of abused children to act out the experience of sexual abuse with other children should also be explored (see Carlos’s case example in Chapter 14, “Diagnostic Obstacles or Resistances”). Children who have experienced sexual abuse should be asked whether they have done or have attempted to do the same thing to other children.

In assessing the validity of a child’s report, the examiner needs to consider that no factors are thought to conclusively validate or invalidate an abuse report. Table 10–2 lists the elements that need to be considered in the validation of a sexual abuse report.

**Developmental Consequences of Abuse**

The examiner should attempt to identify any developmental deviations created by physical and sexual abuse. Cicchetti and Toth (1995) described specific mechanisms by which abusive experiences disrupt or interfere with the formation of fundamental functions or psychological structures. These developmental deviations create or contribute to the development and maintenance of psychopathology (see Table 10–3).

Examiners encounter a variety of psychopathological syndromes in children who have been abused. For example, van der Kolk et al. (1996) suggested that posttraumatic stress disorder does not occur in isolation. Frequently, it is associated with dissociation, somatization, and dysregulation of affect, including difficulties with anger modulation, sexual involvement, and aggression against self and others. These symptoms are found together in the same individuals, and their co-occurrence is at least in part a function of the age at

---

**Table 10–1. Benefits of using anatomically correct dolls**

<table>
<thead>
<tr>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolls are unlikely to distress or overstimulate the child.</td>
</tr>
<tr>
<td>Dolls assist in the identification of idiosyncratic naming of body parts.</td>
</tr>
<tr>
<td>Dolls increase verbal productivity during the examination.</td>
</tr>
<tr>
<td>Dolls may be useful as communication and memory props.</td>
</tr>
<tr>
<td>Dolls are helpful in working with immature children and with children who have cognitive deficits or impaired language.</td>
</tr>
</tbody>
</table>

Table 10–2. Issues that need to be resolved in the validation of sexual abuse

1. Are there other plausible explanations?
2. Are the child’s statements spontaneous?
3. Are the child’s statements consistent?
4. Is the child’s sexual knowledge incongruous with his/her developmental age?
   Examples:
   - Does the child put the mouth on another’s sexual part?
   - Does the child request engagement in sexual acts?
   - Does the child masturbate with an object?
   - Does the child insert an object into the anus or the vagina?
   - Does the child imitate intercourse?
   - Does the child make sexual sounds?
   - Does the child French kiss?
   - Does the child talk about explicit sexual acts?
   - Does the child undress others?
   - Does the child invite others to watch explicit television or sexual movies?
   - Does the child enact sexual acts with the dolls?
5. Does the child use appropriate developmental language?
6. Does the child indicate in play or by gestures that he or she was abused?
7. Does the child give personalized, experiential detail?
8. What is the content and context of the child’s statements?
9. What is the child’s manner and emotional display?
10. Does the child have motives or reasons to fabricate an allegation?
    Is this something that really happened, or is this make-believe?
    Are you saying this to get [the accused] in trouble?
    Are you saying this because you are mad at [the accused]?
    Does somebody else think this happened even though you don’t?
    Are you saying this because you want to live with…?
    **For older children:**
    Are you saying this to get out of the house?
    Are you saying this because [the accused] was not nice to you or was not paying enough attention to you?
    Are you saying this because you wanted to cover up the fact that you wanted to do it (to have sex)?
Table 10–2. Issues that need to be resolved in the validation of sexual abuse (continued)

11. The child corrects the interviewer
12. Presence of medical evidence
13. Presence of forensic evidence
14. Statements of the accused


Table 10–3. Developmental disruptions fostered by physical and sexual abuse experiences

Affect regulation (by promoting affect dysregulation—e.g., low tolerance for frustration, anger dyscontrol)
Normative attachment (by promoting atypical attachments—e.g., avoidant, resistant, and disorganized types)
Self-system (by promoting a defective self-concept and lower self-esteem, deficits in internal state language, and lower capacity for symbolic play)
Supportive peer relationships (by disrupting social competence and promoting a tendency to physical and verbal aggression in peer interactions)
Positive adaptation to school (by contributing to school maladaptation secondary to deficits in social cognitions and limited academic achievement)


which the trauma occurred and the nature of the traumatic experience. Table 10–4 lists psychiatric disturbances commonly found in sexually abused children and adults.

Dissociative Symptoms

Dissociative disorders, including dissociative psychoses, are frequent complications of severe childhood abuse; unfortunately, these disorders are often incorrectly diagnosed. Dissociative psychoses are frequently misdiagnosed as schizophrenia (Hornstein and Putnam 1992; Putnam 1991). Otnow Lewis
Evaluation of Symptoms of Abuse

Table 10–4. Psychiatric disturbances commonly observed in sexually abused individuals

<table>
<thead>
<tr>
<th>Disturbances in children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety disorders, including posttraumatic stress disorder</td>
</tr>
<tr>
<td>Depression and suicidal behaviors</td>
</tr>
<tr>
<td>Dissociative and hysterical symptoms</td>
</tr>
<tr>
<td>Disturbances in sexual behavior</td>
</tr>
<tr>
<td>Anger control difficulties</td>
</tr>
<tr>
<td>Promiscuous behavior</td>
</tr>
<tr>
<td>Conduct problems</td>
</tr>
<tr>
<td>Eating disturbances</td>
</tr>
<tr>
<td>Self-esteem and self-image conflicts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disturbances in adults</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety disorders, including posttraumatic stress disorder</td>
</tr>
<tr>
<td>Substance abuse</td>
</tr>
<tr>
<td>Borderline personality disorder</td>
</tr>
<tr>
<td>Multiple personality disorder</td>
</tr>
<tr>
<td>Revictimization</td>
</tr>
<tr>
<td>Sexual dysfunction</td>
</tr>
<tr>
<td>Sexual offending</td>
</tr>
</tbody>
</table>

Source. Adapted from Green 1993.

(1996) reviewed complex dissociative symptomatology—that is, dissociative identity disorder/multiple personality disorder (DID/MPD)—and the difficulties of differentiating it from normal fantasy life, schizophrenia, mood disorder, seizure disorder or narcolepsy, borderline personality disorder, conduct disorder, or antisocial personality disorder. According to Otnow Lewis (1996), “The command auditory hallucinations, the experience of hearing voices speaking to each other in one’s head, the sense of being controlled by these voices, the delusional system of hierarchies of imaginary companions, the blocking, and the illogical thinking of children with DID/MPD often lead to a misdiagnosis of schizophrenia” (p. 307).

In the evaluation of children suspected of having dissociative disorders, the examiner needs to recognize that a number of symptoms are secretive and that children invariably are unaware of these disorders or of the switches from
one state of mind to another that occur in association with them. The examiner should explore the presence of behaviors such as getting lost in fantasy, spacing out, losing track of time, or disconnecting from what is going on in the real world. The examiner may ask the child the following questions: Are you able to go into a world of your own? Do you have a pretend world of your own? Is there any special place in your mind or in your imagination where you go when things get too painful, or a place where you go to seek comfort? The examiner should ask about the presence of depersonalization, out-of-body experiences, premonitions, or feelings of being controlled from outside.

Another important part of the evaluation of dissociation is the examination of memory disturbances, gaps in time, lack of recollection of important personal or family events, and fugue state experiences. Recurrent somatization, pseudoseizures, and self-abusive or self-mutilating behaviors may be indicators of dissociative states. The same could be said about precocious sexual behaviors. More obvious and more suggestive of the presence of these states are behaviors indicating that the child uses different names, that he or she has subjective experiences of being like two or more people, or that he or she experiences a sense of being possessed or a sense of unfamiliarity with the self.

Other issues that need to be explored in abused children with dissociative symptoms are the presence of imaginary companions and the presence of auditory hallucinations. In these hallucinations, the voices are of a variable nature: some console, some counsel, some give orders, and some intimidate. The examiner may have difficulty differentiating these perceptual experiences from other psychotic states, from fantasy play, or from malingering. The examiner can differentiate these experiences through extended and sensitive questioning, the gathering of collateral information, and the use of other techniques (e.g., writing and drawing), or through specific procedures such as psychological testing.

**Other Symptoms of Abuse**

**Pervasive Refusal**

Lask et al. (1991) described a potentially life-threatening, extreme form of posttraumatic stress disorder, which they termed *pervasive refusal*. This avoidance variant is characterized by a refusal to eat, drink, walk, talk, or care for oneself. Children with this disorder demonstrate willfulness in their symptoms and great fear of disclosing the nature and extent of their trauma. Chil-
dren adopt this behavior as a way of escaping an intolerable situation. The examiner should differentiate this condition from catatonia.

**Self-Abusive Behavior**

Calof (1995a, 1995b) described chronic self-injury in adult survivors of childhood abuse. Similar symptomatology is often observed in children and adolescents with abusive backgrounds. When a child exhibits self-abusive behavior, the examiner should ask about prior sexual or physical trauma.

**Mood Disorders and Bipolar Disorder**

Traumatic experiences, already bad by themselves, have a detrimental role in the vicissitude of bipolar illness. Goodwin and Jamison (2007) stated that a particularly dramatic example of family and environmental dysfunction concerns physical and sexual abuse. Early trauma experience is associated with a worse course of bipolar disorder, including early onset, suicidality, and rapid cycling.

**Assessment of Truthfulness in Abused Children**

If the patient’s truthfulness is uncertain, the examiner should be particularly careful about the types of questions he or she asks. Leading questions must be avoided at all times. The examiner should use the same language that the patient uses; the examiner must use the patient’s words and expressions, no matter how incorrect or inappropriate they may sound. The introduction of different words or expressions may change the patient’s intended meaning. These recommendations are even more important in forensic interviews, regarding allegations of physical or sexual abuse. The following case example illustrates a situation in which the examiner respected these principles.

Mary, a 14-year-old white adolescent, claimed that she was raped by a 21-year-old man. When describing what the man had done to her, she said that the man had “perpetrated” her. When Mary was asked to explain, she said that the man had “gone all the way.” She added that he had put his “thing” inside of her. Mary reported her story consistently when she was asked about the incident. This was compatible with a truthful story. The examiner understood that Mary wanted to say “penetrated” and that “thing” meant “penis,” but he did not correct her. Instead, the examiner asked Mary to explain what “perpetrated” and “thing” meant.
Bernet (1993) clarified many important concepts regarding the identification of false statements of sexual abuse. Allegations of sexual abuse are true in about 90% of complaints. As a result, the examiner’s first assumption should be that the allegations may be true. Bernet organized the mechanisms of false statements of sexual abuse into three groups:

1. The false statement arises in the mind of the parent or other adults and is imposed on the mind of the child. This may be due to several mechanisms:
   
a. *Parental misinterpretation and suggestion.* The parent takes an innocent remark or a neutral piece of behavior and inflates it into something worse and inadvertently induces the child to endorse his or her interpretation.
   
b. *Misinterpreted physical condition.* A vindictive or anxious parent or a health professional jumps to the conclusion that the child’s injury or illness is due to sexual abuse rather than accepting a more benign explanation.
   
c. *Parental delusion.* The parent is paranoid, is very disturbed, and shares the distorted view of the world with the child, who comes to share the same delusion. The parent and child may have a shared delusion, or the child may give in to the parent’s contention that abuse occurred.
   
d. *Parental indoctrination.* The parent fabricates the allegation and instructs the child in what to say.
   
e. *Interviewer suggestion.* Previous interviewers may have contaminated the evidence by asking leading or suggestive questions.
   
f. *Overstimulation.* The parent lacks modesty or discretion and exposes the child to nudity or sexual activity.
   
g. *Group contagion.* The child and parent fall victim to epidemic hysteria

2. The false statement is caused primarily by mental mechanisms in the child that are not conscious or purposeful.
   
a. *Fantasy.* The child may confuse fantasy with reality.
   
b. *Delusion.* Delusions about sexual activities may occur in children and adolescents in the context of a psychotic illness.
c. Misinterpretation. The false belief is based on an actual happening.

d. Miscommunication. The false allegation arises out of simple verbal misunderstanding.

e. Confabulation. The person fabricates statements or stories in response to questions about events that the person does not actually recall.

3. The false statement is caused primarily by mental mechanisms in the child that are usually considered conscious and purposeful.

a. Pseudologia phantastica, also called fantasy lying and pathological lying. The person tells stories without discernible motive and with such zeal that the subject may become convinced of that “truth.”

b. Innocent lying. Young children may make false statements because that seems to be the best way to handle a current situation.

c. Deliberate lying. The person makes self-serving, intentional fabrications.

Bernet (1993) distinguished between confabulation and pseudologia phantastica:

1. The social context is different: Confabulation is evoked by questions raised by another person. Pseudologia phantastica is created to impress and influence others.

2. The form of the statement is different: Whereas confabulation is usually a short statement in response to a specific question when the person has no real memory for the answer, in pseudologia [phantastica] there is a lengthy, complex story that goes beyond the question raised and is delivered with zest and in an engaging manner.

3. Confabulation and pseudologia [phantastica] differ in the way the person responds when confronted with contradictory evidence: The confabulator sticks to his or her story, whereas the individual with pseudologia drops the story and moves on to another one.

Bernet (1993) also distinguished between confabulation and misinterpretation:
A misinterpretation may cause a false belief but is derived from something that actually happened. A child with a misinterpretation may say that two people were fighting when in reality they were having sexual intercourse. A confabulating child may say that two people were fighting when they were having an unremarkable conversation. Confabulation is also different from deliberate lying in that the child who is lying knows that he or she is trying to deceive. The confabulator does not realize what he or she is doing. Pseudologia is different from deliberate lying in that the delinquent liar intends to deceive and knows exactly what he or she is doing. In pseudologia phantastica, the fabulist, intending to enhance an interpersonal relationship or influence another person, does so by embellishing the stories and may be so involved in the deception that he or she comes to believe it. (p. 908)

The following case example is an intriguing illustration of pseudologia phantastica in a disturbed adolescent.

Victor, a 15-year-old white adolescent, presented with a prolonged history of psychiatric problems, including a profound inability to establish and maintain interpersonal relationships, lying, stealing, destructiveness with lack of remorse, severe enuresis, difficulties at school, sexually inappropriate behaviors, aggression toward peers, and a lack of interest in participating in treatment. He had been in state custody for 8 years because his family had abandoned him. His natural mother had a history of a neurological disease and polysubstance abuse. Victor had a history of multiple placements and multiple psychiatric hospitalizations. At birth, Victor was thought to have fetal alcohol syndrome. On earlier testing, Victor was found to have borderline level of intelligence.

Victor was evaluated when he was readmitted to an acute psychiatric program for aggressive and inappropriate behaviors, including the difficulties already mentioned. Victor exhibited involuntary movements of the mouth and jaw. These dystonic signs had been erroneously considered as the “bizarre mannerisms of an elderly man.” When Victor was asked his name, he said, “I’m a third-degree Nijitsu.” The examiner asked Victor what a Nijitsu was. He replied, “We’re licensed to carry weapons. Nobody else carries weapons in America.” The examiner asked, “What kinds of weapons?” Victor replied, “Swords, knives, stars, nunchakus, sticks, slingshots.” He reported that his father was a Ninja and asserted that he was not an American. “I’m Japanese-Indian, second generation of Americans,” he said. He stated that he had studied with a samurai who had been stabbed to death with a sword. He claimed that his father had died in combat and insisted that he was not an American.

Victor’s verbalizations could be considered megalomanic delusions. He did not strongly uphold any of his beliefs: when the examiner would chal-
lenge one confabulated idea, Victor would create a new one. What was intriguing was the lack of emotion he displayed when he presented his fantastic background.

A pediatric neurologist determined that Victor had tardive dystonia and other neurological problems. Neuropsychological testing was positive for multiple neuropsychological deficits, including bilateral fine motor deficits, receptive and expressive language disorder, poor verbal learning, memory and attention difficulties, and executive dysfunction. Multiple factors, then, contributed to Victor’s pseudologia phantastica.

References


Coleman L: Medical examination for sexual abuse: have we been misled? The Champion, November 1989, pp 5–12


Recommended Readings

Neuropsychiatric Interview and Examination

Key Points

• The neuropsychiatric examination includes the assessment of attention; language; cognition; memory; visuospatial, motor, and sensory functioning; and executive functions.
• In contemporary psychiatric thinking, the neurobiological bases of behavior are taking increasing preeminence. The reader, no matter his or her field of expertise, needs to be familiar with basic neurobiological and neuropsychological concepts.
• Clinicians need to be informed of the basic tenets of the most common neuropsychiatric conditions and be able to detect signs and symptoms indicative of neuropsychological or neuropsychiatric conditions.

In this chapter, I offer a practical and clinically oriented approach to the neuropsychiatric interview and examination of children and adolescents. In addition to discussing the various parts of the examination, I describe the most common neuropsychiatric symptoms found in children and adolescents.

For most of the neuropsychiatric disorders of childhood, the diagnosis of “brain damage” is incorrect. Instead, the examiner should refer to “brain dysfunction” or “brain impairment.” The concept of brain damage is associated with two erroneous assumptions: 1) that the brain was developing well until
something damaged it and 2) that brain damage is irreversible. The first assumption is true in certain situations, such as when hydrocephalus follows tuberculous meningitis or when epilepsy follows a penetrating head injury. Most commonly, however, brain development may have been abnormal from the very beginning, perhaps as a result of an inherited disorder, chromosomal abnormality, or chromosomal mutation. Also, intrauterine insults (viral, vascular, or others) may negatively affect brain development (Laplante et al. 2008). The second assumption is not entirely true; some children do grow out of disorders such as epilepsy and even cerebral palsy (Goodman 1994).

The neuropsychiatric evaluation is a structured, specialized, and orderly examination of a number of specific functions and is aimed at determining or ruling out brain dysfunction or impairment that may underlie behavioral, emotional, cognitive, or interpersonal disturbances. The field of neuropsychiatry correlates performance on specific tasks with certain neuroanatomical areas and specific neurophysiological and neuropsychological events. The neuropsychiatric evaluation probes the integrity of neuropsychological functioning of many cortical association areas and of certain subcortical functions. This evaluation includes the assessment of attention; language; cognition; memory; visuospatial, motor, and sensory functioning; and executive functions. More specifically, the neuropsychiatric examination assesses functioning of the frontal, temporal, parietal, and occipital lobes and of subcortical regions. It also explores so-called soft neurological signs.

Cummings (1995b) classified the behavioral disturbances associated with neurological disorders in adults into two groups. The first group, called the neurobehavioral syndromes (or deficit disorders), includes dysfunctions such as aphasia, amnesia, apraxia, agraphia, aprosody, acalculia, frontal lobe disorders, neglect, and anosognosia. These dysfunctions are correlated with injury to the cerebral cortex, deep hemispheric nuclei, or white matter tracts. The second group, called the neuropsychiatric syndromes (or productive disorders), encompass idiopathic psychiatric symptom complexes such as delusions, hallucinations, depression, mania, personality alterations, anxiety, obsessive-compulsive disorders, and paraphilias.

In general, neuropsychiatric syndromes are not associated with focal, or precise, anatomical lesions. In these syndromes, the lesion must be present in the appropriate location for the disorder to occur; that is, the existence of the lesion by itself is often insufficient to produce the disorder. Other factors con-
tribute to the expression of the disorders, such as age, unilateral or bilateral lesions, genetic factors, comorbidity, gender, premorbid personality, environmental stress, coping skills, and social supports (Cummings 1995b).

In contrast to such conditions in adults, in children and adolescents, neurodevelopmental disorders encompass a group of complex disorders that result from abnormal development of the central nervous system (CNS). This abnormal development results in delays, deviations, or a lack of emergence or progression in the acquisition of certain capacities or skills.

The field of pediatric neuropsychiatry is in its infancy. This emerging field has borrowed a significant body of knowledge from the field of adult neuropsychiatry, but extensions and generalizations from one field to the other may not be appropriate. Pediatric neuropsychiatry is beginning to rely on its own body of knowledge, experience, and research methodology with pediatric subjects. Longitudinal developmental observations are needed and are being made to elucidate the nature of skill emergence and to determine atypical developmental pathways. These studies are needed to make adequate outcome prognostications regarding a variety of neurodevelopmental disorders. Impressive gains in the understanding of a number of neuropsychiatric conditions and technological advances in diagnostic testing make possible what in previous years would have been considered fantasy or science fiction (Gothelf 2007; see Note 1).

Broadly conceived, the pediatric neuropsychiatric examination is based on a multidisciplinary approach that involves developmental pediatricians, pediatric neurologists, speech pathologists, developmental psychologists, geneticists, neuropsychologists, neuroradiologists, electrophysiologists, neurosurgeons, educators, and other specialists. The field of pediatric neuropsychiatry deals with the assessment and treatment of congenital or acquired neurodevelopmental disorders. The field of behavioral neurogenetics studies etiologically defined and relatively homogeneous genetic syndromes (e.g., fragile X syndrome, Williams syndrome, Prader-Willi syndrome, Rett syndrome, Turner syndrome; see Chapter 6, “Evaluation of Special Populations”). These syndromes have identified genetic alterations and neural mechanisms underlying maladaptive cognition, psychiatric symptoms, and abnormal behaviors that can be systematically investigated (Gothelf 2007). Many neuropsychiatric syndromes that occur in childhood or in adolescence require timely diagnosis and treatment. Therefore, complete pediatric physical and neurological
examinations are essential components of the neuropsychiatric evaluation of children.

In general, adult clinical neuropsychiatry focuses on the loss of neurological function and the process of its recovery (rehabilitation). In contrast, pediatric clinical neuropsychiatry focuses on the emergence and developmental deviations of function (skill acquisition), the process of functional habilitation, and the psychological and psychosocial consequences of neurodevelopmental disorders. Kim et al. (2008) present a relevant and comprehensive review of the use of laboratory, imaging, and other testing in adult psychiatry; the discussion has obvious relevance for the child and adolescent psychiatrist.

Elements of the Neuropsychiatric History

Gold (1992) asserted that the patient’s history is the cornerstone of neurological or neuropsychiatric diagnosis. The patient’s history often suggests whether the condition is static or progressive and whether it has an organic cause. The neuropsychiatric assessment involves a comprehensive maturational and developmental history, and the emphasis is on systematic data gathering. If at all possible, the examiner should obtain the history from the child, even from young children, before obtaining historical data from the parents. This approach may generate information that is free of parental bias, which is often invaluable in making a diagnosis and in determining how the condition affects the child. A comprehensive neuropsychiatric history includes a systematic exploration and evaluation of the areas listed in Table 11–1.

Beyond the so-called hard neurological signs, such as seizures and paralysis, the most frequent complaints of neuropsychiatric patients are attention-concentration difficulties, cognitive impairments, impulse control problems, impairments of judgment, affect dysregulation, language disorders, learning difficulties, memory impairments, interpersonal difficulties, and regressive behavior. Table 11–2 lists conditions in which a neuropsychiatric investigation should be indicated.

Neuropsychiatry and Psychosocial Factors

Neuropsychiatric conditions are susceptible to environmental influence. Favorable conditions facilitate early detection and prompt habilitation or rehabil-
iteration of emerging deviations or developmental arrests. In contrast, symptoms may unfold unaltered, or they may be maintained or worsened by adverse psychosocial circumstances (e.g., infantilism, inappropriate parenting).

Cook and Leventhal (1992) described two key findings related to the increased morbidity associated with neuropsychiatric disorders in childhood.
and adolescence. First, children with neuropsychiatric disorders substantially affect their parents and siblings. Second, children with these disorders are often disabled for a long time. Frequently, the parents’ response to a neurological problem creates additional handicaps for the child. Williams et al. (1987) articulated this concern: “Another common and more clearly psychological theme occurring throughout the spectrum of neuropsychiatric disorders in childhood and adolescence is the problem of dependency and its many permutations. While some degree of augmented parental solicitude and support is a natural and, indeed, healthy response to the sequelae of a chronic neurological dysfunction in a child, frequently this pattern becomes exaggerated as

### Table 11–2. Conditions indicating need for neuropsychiatric investigation

<table>
<thead>
<tr>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developmental delays</td>
</tr>
<tr>
<td>Language delays</td>
</tr>
<tr>
<td>Learning problems</td>
</tr>
<tr>
<td>History of cerebral palsy</td>
</tr>
<tr>
<td>Presence of movement disorders</td>
</tr>
<tr>
<td>History of perinatal insult</td>
</tr>
<tr>
<td>History of meningitis, meningoencephalitis, or seizures</td>
</tr>
<tr>
<td>Dementing conditions</td>
</tr>
<tr>
<td>Head trauma accompanied with prolonged loss of consciousness</td>
</tr>
<tr>
<td>Sensorium impairment</td>
</tr>
<tr>
<td>Recent onset of neurocognitive signs</td>
</tr>
<tr>
<td>Loss of intellectual capacity or acquired skills</td>
</tr>
<tr>
<td>Sudden onset of regressive behavior</td>
</tr>
<tr>
<td>Developmental arrests or regression</td>
</tr>
<tr>
<td>Delirium</td>
</tr>
<tr>
<td>Psychotic conditions or visual, olfactory, gustatory, or other perceptual disorders</td>
</tr>
<tr>
<td>Catatonic features</td>
</tr>
<tr>
<td>Recurrent impulsive behavior</td>
</tr>
<tr>
<td>Psychiatric symptomatology that does not fit specific categories</td>
</tr>
<tr>
<td>Lack of progress in the treatment of a disorder</td>
</tr>
</tbody>
</table>

*Note.* This is not an exhaustive list of conditions in which neuropsychiatric factors need to be investigated.
a by-product of features of anxiety, guilt, or demoralization in the patient, the parents or both” (p. 366).

Individuals with mental retardation and other developmental disorders are at greater risk for psychiatric disorders due to CNS dysfunction, peer rejection, and decreased coping strategies (Cook and Leventhal 1992). The psychological disability associated with a neuropsychiatric condition can be worse than the handicap itself: “In effect, the patient can be tempted, either unconsciously or consciously, to exploit the sick role with its associated dependency gratifications when feeling overwhelmed by ongoing life stresses” (Williams et al. 1987, p. 366). In general, the secondary gain from the illness occurs because the parents become inconsistent with limit setting, usually due to parental guilt that interferes with appropriate and consistent discipline and appropriate consequences. The parents feel somehow responsible for the child’s neuropsychiatric condition and, as a result, become inconsistent in discipline and in boundary enforcement.

**Mental Status Examination of Child With Neuropsychiatric Disorder**

The neuropsychiatric examination starts as soon as the examiner greets the child in the waiting area (see Chapter 7, “Documenting the Examination Using the AMSIT”). The following observations are relevant in this regard: What is the child’s appearance and overall complexion? What is the preliminary gestalt or impression? Are any dysmorphic features present?

As the examiner guides and follows the child toward the office, he or she should observe the child’s gait, movement of upper and lower extremities, balance, and coordination and the child’s sense of space orientation. After the child enters the office, the examiner should complete the mental status examination—including a neurodevelopmental evaluation (described in the next section of this chapter)—and physical and neurological examinations. I agree with Gold (1992) regarding the importance of inspection: “Observations may be more rewarding than examination, encouraging the clinician to acquire and use observational skills that may result in a diagnosis by inspection. This is obviously preferred to the performance of diagnostic studies that can be anxiety producing, painful, invasive and expensive” (p. 4).
Elements of Neurodevelopmental Evaluation

Areas that need to be assessed in the neurodevelopmental evaluation are listed in Table 11–3 and are described in more detail in this section.

Dysmorphic Features

The examiner should describe the child’s stature (e.g., small or large), head size (e.g., microcephaly, macrocephaly), and any abnormalities of the skull structure. Young et al. (1990) highlighted the importance of the identification of dysmorphic features: “The detection of minor congenital anomalies during the physical and neurologic examination may be clinically pertinent. These stigmata are correlated with a variety of behavioral and intellectual deviations, even in children with no major physical pathology who do not fall into the conventional diagnostic categories. They also may have value in suggesting a chromosomal abnormality or an insult to the fetus during the first trimester of pregnancy” (p. 455).

The examiner should note any signs of readily identifiable syndromes (e.g., Down syndrome, fragile X syndrome, fetal alcohol syndrome, Prader-Willi syndrome), neurocutaneous disorders (e.g., ataxia-telangiectasia, neurofibromatosis, tuberous sclerosis, or Sturge-Weber-Dimitri syndrome), or neurogenetic disorders.

Abnormal Posture and Involuntary Movements

The examiner should note the presence of tics, chorea, athetosis, or any other involuntary movements. He or she should also note whether the child stands or sits erect and whether the child displays stiffness, hypotonia, dystonia, or other unusual movements or abnormal postures. The examiner should look for acute extrapyramidal symptoms in children recently exposed to neuroleptic medications and for chronic extrapyramidal symptoms, such as chronic akathisia or chronic dystonia (tardive dyskinesia), in children with extended exposure to these medications.

Gross Motor Skills

The examiner should pay attention to the child’s motor function, considering whether it is smooth, spastic, choreic, dystonic, or athetoid. As the child
Table 11–3. Elements of the neurodevelopmental evaluation

<table>
<thead>
<tr>
<th>Elements of the neurodevelopmental evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dysmorphic features</td>
</tr>
<tr>
<td>Abnormal posture and involuntary movements</td>
</tr>
<tr>
<td>Gross motor skills</td>
</tr>
<tr>
<td>Fine motor skills</td>
</tr>
<tr>
<td>Sensory functioning</td>
</tr>
<tr>
<td>Midline behaviors</td>
</tr>
<tr>
<td>Laterality and dominance</td>
</tr>
<tr>
<td>Cerebellar functions</td>
</tr>
<tr>
<td>Praxis</td>
</tr>
<tr>
<td>Receptive and expressive language functions</td>
</tr>
<tr>
<td>Information</td>
</tr>
<tr>
<td>Orientation to time and place</td>
</tr>
<tr>
<td>Abstraction ability</td>
</tr>
<tr>
<td>Writing and reading</td>
</tr>
<tr>
<td>Calculating ability</td>
</tr>
<tr>
<td>Immediate, short-term, and long-term memory</td>
</tr>
<tr>
<td>Executive functions</td>
</tr>
</tbody>
</table>


walks, the examiner should observe the child’s stance and gait. Is the child’s standing base either broad or variable? The examiner should note associated involuntary movements. Does the child display a normal steppage? Does the child limp, waddle, or tiptoe? Is the child’s gait stiff? When the examiner throws a ball to the child, is the child able to catch it? Is the child able to throw or roll the ball back?

In a child with a history of cerebral palsy, the examiner should explore for signs of spasticity, rigidity, paralysis, dystonia, athetosis, chorea, or tremor. Spasticity and athetosis are the most frequent neurological sequelae of cerebral palsy, followed by rigidity and ataxia.

**Fine Motor Skills**

The examiner should observe how the child grasps an object and how he or she manipulates toys. After offering the child a pencil or a crayon, the exam-
The examiner should observe how the child picks it up and should note whether the child’s grasp is normal or unusual. Pencil grasp is an important indicator of motor control: this hard-to-change motor habit is acquired early and may represent a residual indicator of the maturation of the child’s motor system at the time the child began to use a pencil. The quality of the grasp does not “stigmatize” the current motor repertoire but may be an early snapshot of past status during the period of motor skill learning (Denckla 1997). The examiner should ask the child to copy a circle, a cross, a square, a triangle, and a diamond. A 2-year-old child will be able to copy the circle, a 3-year-old child the cross, a 5-year-old child the square, a 6-year-old child the triangle, and a 7-year-old child the diamond.

**Sensory Functioning**

To assess sensory functioning, the examiner begins by asking the child to close his or her eyes. Then the examiner touches the child, first on one limb and then another, each time asking the child to identify the body part and laterality of the area touched. After this, the examiner simultaneously touches either ipsilateral or contralateral limbs and again asks the child to identify where he or she has been touched. The examiner can test the child for graphesthesia (ability to recognize symbols drawn onto parts of the body) by tracing numbers or letters onto the back of each of the child’s hands and asking the child to identify them (see Note 2). To test for stereognosis (ability to recognize objects by touch), the examiner can ask the child to identify, without looking, items such as a coin, a paper clip, a key, or a stamp. The examiner should first ensure that the child has these items in his or her vocabulary. The child needs to identify these items with each hand. These tests explore parietal lobe functioning. Stereognosis is well developed in early childhood, and graphesthesia is well established by age 8 years (Swaiman 2006).

**Midline Behaviors**

The examiner should observe whether the child uses both hands coordinately and supportively and whether the child transfers any given item from one hand to the other. The examiner should also note whether the child is able to cross the body’s midline (e.g., the examiner should note the extent to which the child’s right hand is able to cross the midline and operate on the left side
of the body, and vice versa). These behaviors reflect the functional integrity of the corpus callosum (Spreen et al. 1995). For example, one mother reported that her 8-year-old child, who had no evidence of motor difficulties, used only one hand, even when he combed his hair or when he put on his belt. He also had attention problems, difficulties with learning, and problems with impulse control.

**Laterality and Dominance**

Lewis (1996) clarified the concepts of laterality, preference, and dominance. **Laterality** is a measurable, specialized, central function of a paired faculty, such as eyes, ears, hands, and feet; **preference** is the subjective, self-reported experience of an individual, as opposed to laterality, which may be objectively measured; and **dominance** is a term used for the concept of cerebral hemisphere specialization, such as language and speech. Clinically, the examiner may merely be testing preference, which depends more on a peripheral organ than on a central mechanism (Lewis 1996). Handedness is consolidated by age 5 years, footedness by about age 7, eye lateralization by age 7 or 8, and ear lateralization by about age 9.

The examiner should observe which hand the child uses predominantly when manipulating objects and when asked to write or to draw. The examiner should also observe which foot the child uses when asked to kick a ball. The child’s eye preference is tested by asking the child to look into a particular item in the office using a “telescope” (a rolled-up piece of paper).

A useful test to assess right-left discrimination consists of asking the child to follow some ipsilateral and contralateral commands. For example, for ipsilateral discrimination, the examiner tells the child, “With your right hand, touch your right ear” or “With your left hand, touch your left knee.” For contralateral discrimination, the examiner says, “With your right hand, touch your left ear” or “With your left hand, touch your right knee.” A child can identify right and left hands by age 5 years; ipsilateral double orientation (e.g., left hand on left ear) should be possible by age 6 years; contralateral orientation is achieved by age 7 years. Problems in these areas are common in children who have learning disorders. Confusion of laterality should be suspected when the examiner extends a hand for a handshake and the child does not seem to know which hand to respond with.
**Cerebellar Functions**

To assess cerebellar functions, the examiner asks the child to stand up, put both hands out in front, and close both eyes; the examiner should then observe whether the child sways to the sides (Romberg’s sign). The child should be asked to walk in a straight line, and the examiner should observe the child’s balance and coordination. Next, the child should be asked to stand on one foot and then on the other and then to hop on one foot and then on the other. The examiner should observe the child’s sense of equilibrium and the smoothness and proficiency with which the child accomplishes these tasks. The examiner also should assess the child’s muscle tone and determine whether the child is hypotonic, normal, or hypertonic.

The finger-to-nose test is sensitive to cerebellar defects. The examiner asks the child to abduct one of the arms with the index finger of that hand extended. The child is asked to touch the tip of his or her nose with that finger three times. The examiner observes for precision and smoothness of movements (metria) or the presence of dysmetria, which is evident when the child hesitates before the finger reaches the tip of the nose or when the impact is brusque or unsmooth. The examiner then asks the child to do the same challenge with the other hand.

The role of the cerebellum in higher cortical functions, including language, has been recognized. A syndrome of mutism and subsequent dysarthria has been identified. This syndrome is not related to cerebellar ataxia and is characterized by a complete loss of speech that resolves into dysarthria (Dennis 1997). Dysarthria relates to a group of speech disorders resulting from disturbance in the muscular control of the speech mechanisms due to damage to the central or peripheral nervous system (Pryse-Phillips 2003). The cerebellum is being progressively recognized as having an important role in attentional processes.

**Praxis**

Ideokinetic, or ideomotor, praxis is the ability to perform an action from memory on request without props or cues. The child should be asked to demonstrate how he or she would use a key, a toothbrush, and a comb. The child’s nonpreferred hand should be tested first. The child’s kinesthetic praxis can be tested by asking the child to mimic the examiner’s finger and hand move-
ments. Difficulties with finger sequencing correlate with graphomotor dyspraxia and with poor handwriting (Denckla 1997). To test for finger sequencing, the examiner raises his or her dominant hand and asks the child to imitate the following movements: touching the tip of thumb to tip of index finger, then to middle finger, then to fourth finger, then to little finger. The examiner then reverses the order (which is more challenging): touching the thumb to fifth finger, followed by the fourth finger, and so on. Then the examiner proceeds to test the other hand.

The examiner may ask the child to perform more complex tasks, such as unbuttoning and buttoning the child’s shirt and untying and then retying the child’s shoelaces. The latter task involves complex functions, out of reach of children who have impairments in interhemispheric integration.

Receptive and Expressive Language Functions

The examiner should attempt to differentiate among speech, language, and communication disorders. Speech disorders relate to difficulties in the production of speech. They relate to output problems and the utterance of meaningful and communicative sounds. Language is the organized and retrievable view of the self and the world; phonemics, morphemics, syntactics, and semantics relate to different aspects of integrated language. Communication relates to the social use of language—to the transmission of meanings between and among persons. The process of communication is regulated by a number of norms, so-called communication pragmatics (e.g., eye contact, turn taking, topic continuity). Delays in language acquisition may be global or may appear in only selected aspects of language acquisition. The latter are the most common language disorders.

When evaluating the child’s language, the examiner should observe the child’s capacity to understand verbal communication and to utter verbalizations. When interviewing the child, the examiner will have multiple opportunities to observe the child’s understanding of verbalizations. The examiner should note whether he or she has to repeat questions frequently, use redundant and simple language, or supplement utterances with gestures or with deliberate nonverbal language. The examiner should also observe whether the child is unable to understand even simple expressions. As the child speaks, the examiner should note the child’s fluency and pronunciation; prosody and ges-
turing; vocabulary, grammar, and syntax; and capacity for abstract thinking (see Chapter 7, “Documenting the Examination Using the AMSIT”).

The capacity to name objects may be tested by asking the child to name a number of body parts. The examiner should point to his or her own eyebrow, chin, wrist, or other body areas and ask the child to name the part. The examiner may also point to his or her own jacket, belt, collar, shoe, or tie, and ask the child to name those items. In adults, dysnomia (disturbance in the capacity to name objects) may result from dominant temporal or parietal lobe lesions. In children, the disturbance is related to significant developmental delays in language. For example, a 6-year-old child with significant developmental delays in language was retained in kindergarten. The examiner asked the child to name some body parts. When the examiner pointed to his ear, the child said “head”; when the examiner pointed to the child’s foot, she said “leg.”

In adults, disturbances of prosody and gesturing in which spontaneous gesturing and emotionality of speech are lacking could be related to frontal lesions; disturbances in the understanding of the prosody and gesturing of others could be related to temporal lesions (M.A. Taylor et al. 1987). The neuropathology of developmental language disorders is poorly understood, but it has been associated with mild neuronal migration disorders in the left inferior frontal cortex (Kinsbourne and Wood 2006).

**Information**

The child should be asked to narrate recent events. If the child demonstrates no awareness of or interest in recent news, he or she should be asked to talk about a favorite sport, favorite team, or favorite players. The following questions are commonly used in this part of the assessment: What town do you live in? What state do you live in? What is the state capital? Name the biggest cities in your state. Name the states that border your state. What is the capital of the United States? Who was the first president of the United States? Who is the current president? Do you know the vice president’s name? Other factors to be considered when assessing this area are the child’s level of intelligence and the child’s cultural and socioeconomic background.
Orientation to Time and Place

The child should be asked to identify where he or she is, including the name of the place, the floor number, and so on. The examiner should ask the child to indicate on a map where north or south is. He or she may also ask the child to point to directions on a wall picture; for example, “In this picture, where is north?” The examiner should ask the child to indicate the day of the week and the date, including the month and the year. The child may also be asked to identify the season and the most recent holiday. Children with nonverbal learning disabilities and children with cognitive deficits have difficulty with time tasks.

Abstraction Ability

The examiner should note the child’s complexity of thought as the child responds to the examiner’s questions during the interview. When assessing an adolescent or intelligent child, the examiner can test for abstraction ability by testing for similarities or by asking the individual to interpret proverbs.

Writing and Reading

The child should be asked to write his or her name and the date. If the child is old enough, he or she should be asked to use cursive script because this type of writing is the most sensitive for detecting dysgraphia (difficulty in writing). The child should be asked to read and to carry out a written command, such as “Go to the table, pick up the pencil, and bring it back to me.”

Calculating Ability

For the assessment of calculating ability, see Chapter 7, “Documenting the Examination Using the AMSIT.” Acalculia is a common developmental disorder and is a frequent sequela of acute and progressive left posterior hemispheric lesions in children and adults (Grafman and Rickard 1997).

Immediate, Short-Term, and Long-Term Memory

As the examiner asks questions, he or she should observe the child’s recall. Children who ask their parent (or other caregiver) either for assistance or to respond for them may have memory problems. Immediate memory can be tested by
asking the child to repeat a number of digits forward and backward. By age 8 years, a normal child is expected to recall five digits forward and two or three digits backward; by age 10 years, the child should be able to recall six digits forward and four digits backward (Lewis 1996). Short-term memory can be tested by giving the child three words and asking the child 5 minutes later to recall the words. This challenge is increased when one of the words is abstract.

**Executive Functions**

Executive functions could be defined as a number of higher cognitive activities (in an information-processing model), such as strategic planning, impulse control, organized search, flexibility of thought and action, and self-monitoring of one’s behavior and activities; these functions help the child to maintain an appropriate mental set to achieve a future goal (Spreen et al. 1995). Such functions are thought to be localized in the prefrontal cortex, an area that is not functionally mature until young adulthood (Spreen et al. 1995). Executive dysfunctions may be developmental in nature (e.g., due to attention-deficit/hyperactivity disorder [ADHD], autism, Tourette’s disorder) or acquired (e.g., due to traumatic brain injury). These dysfunctions may be manifested as problems with attention, impulse control, perseveration, apathy, and emotional dysregulation. Students with learning disabilities tend to display executive function difficulties, such as problems with initiation, inhibition, and shifting (Lajiness-O’Neil and Beaulieu 2006).

To assess executive functions, the examiner should ask the child to do a puzzle, for instance. The examiner should observe the child’s behavioral organization and his or her capacity to maintain and to shift attention while performing the task. The examiner also should observe the child’s degree of planning for and persistence with the given task and his or her approach to problem solving. The examiner should note the presence of impulsiveness, disinhibition, or perseverance.

**Indications for Consultation and Testing**

A variety of consultations may be useful in evaluating neuropsychiatric conditions. Pediatric neurological consultation may be requested to ascertain the presence of neurological deficits and to pursue, when indicated, further neu-
Neuropsychiatric Interview and Examination

Neuropsychiatric workup, including neuroimaging studies (e.g., computed tomography [CT] scan, magnetic resonance imaging [MRI]) (see Note 3) or electrophysiological studies (e.g., electroencephalogram [EEG], evoked potentials). Consultation with a speech-language pathologist is mandatory when a child demonstrates language and communication deficits. This evaluation helps the clinician to diagnose the nature of the language pathology and to determine an appropriate treatment. A geneticist should be consulted when chromosomal or genetic factors are suspected.

Assistance from psychologists and neuropsychologists is indispensable for both the evaluation and the treatment of neuropsychiatric conditions. The psychologist provides invaluable assistance in determining the child’s intellectual abilities and achievement levels. Intellectual assessment scales, such as the Wechsler Intelligence Scale for Children—4th Edition (WISC-IV; Wechsler 2003), indicate the child’s verbal IQ, which measures language-based reasoning abilities, and the child’s nonverbal performance IQ, which measures visuospatial abilities. Test results may also suggest deficits that need further exploration through neuropsychological testing or speech and language assessment. When a discrepancy exists between the child’s achievement level (i.e., grade placement in reading, spelling, or math) and the child’s level of intelligence, the determination of learning disabilities, for purposes of psychoeducational programming, should be made. This general determination does not address the specific factors that contribute to the child’s underachievement; elucidation of such factors requires neuropsychological testing.

The psychologist assists in the determination of subjective and interpersonal issues that are associated with neuropsychiatric disorders. These issues may precede, follow, or be concomitant with the evolution of neuropsychiatric pathology. Projective testing (e.g., Thematic Apperception Test, Rorschach Inkblot Test, Sentence Completion Test) helps the examiner to understand the child’s ongoing psychological conflicts; to determine whether reality testing is intact; to establish the presence of thought disorder; to evaluate the child’s relatedness (object relations), coping mechanisms, and psychological resources; and to establish the degree of the child’s depression or anxiety and the nature of the child’s impulse control. The psychologist also helps the examiner to determine whether secondary gain is present.

According to Berkelhammer (2008), “Neuropsychological assessment is a hypothesis-driven assessment of higher brain functions resulting in an inte-
Neuropsychological testing has unique importance and relevance in the
diagnosis and treatment of neuropsychiatric disorders. According to Harris
(1995a, p. 20), neuropsychological testing is “particularly helpful in appreci-
atng those mental status items that deal with speech/linguistic functions,
memory, attention, executive functions (vigilance, set maintenance, plan-
ning, and inhibitory motor control), praxis (learned motor behavior), and
visuomotor and visuospatial functions. In addition, the processing/produc-
tion of social-emotional signals (including vocal tone, facial expression, and
‘body language,’ or gesture)” are also amenable to testing. Harris emphasized
that “the linking of test findings to adaptive function is crucial because chil-
ren may compensate for the brain dysfunction in a way that the overall func-
tioning is ‘better than they look’ on the tests applied” (p. 20).

Neuropsychological findings assist psychiatrists in the process of devising
optimal rehabilitation programs for children who are recovering from brain
injury or brain disease. Such findings also help child psychiatrists to con-
struct—with the assistance of experts in special education, speech-language
pathology, and other specialties—optimal psychoeducational and remedia-
tion programs for children who have neuropsychological deficits. Contempo-
rary neuropsychological testing is used to help understand the cognitive and
behavioral phenotypes of a multitude of neuropsychiatric disorders, with the
goals of aiding in diagnosis and treatment and of deepening the neurobiolog-
ical knowledge of these disorders (Lajiness-O’Neal and Beaulieu 2006). The
data obtained from such testing provides the clinician with a profile or pat-
tern of strengths and weaknesses from which to generate diagnoses, as well as
compensatory, remedial, therapeutic, and rehabilitation recommendations
(Lajiness-O’Neal and Beaulieu 2006).
**Indications for Neuropsychological Testing**

Neuropsychological testing is not a uniform examination. Testing varies in scope and depth, and there are many schools and methods of neuropsychological assessment. Pendleton Jones and Butters (1991) explained one major difference:

A major dichotomy in the field of neuropsychological assessment is characterized by the use of either a uniform battery for all patients or an individualized approach. Practitioners of an individualized approach usually administer a small, core group of tests to all patients, and then select further tests for the optimal elucidation of the referral questions or issues that may have been arisen during testing. Batteries undoubtedly have some advantages. These include comprehensiveness in the range of functions they sample. They greatly facilitate the combination of research with clinical objectives in that the same data-base will automatically be compiled for all patients. A serious disadvantage of batteries is that they may be providing redundancy of information in some areas of functioning while achieving insufficient exploration of other areas. (p. 413)

Despite variations, a comprehensive neuropsychological evaluation attempts to measure all domains of neuropsychological functioning believed to be important for supporting the child’s abilities for a successful interaction with environmental demands (Lajiness-O’Neal and Beaulieu 2006).

A number of indications for neuropsychological testing are listed in Table 11–4. In general, neuropsychological batteries are reliable for children ages 6 years and older. For younger children, neuropsychological testing involves combining a variety of age-appropriate motor, language, and cognitive tasks with various standardized assessments somewhat similar to those used in neuropsychological batteries administered to older individuals (Hartlage and Williams 1997).

Table 11–5 summarizes the advantages and disadvantages of commonly used neuropsychological batteries and individualized approaches. One of the shortcomings of neuropsychological testing is the lack of ecological validity, meaning that the results do not predict how the patient will perform in the real world (Hartlage and Williams 1997). Table 11–6 summarizes the most common misconceptions about neuropsychological testing (regarding the testing process or its interpretation) that may lead to inaccurate expectations
of the testing results in real-world settings (Sbordone 1997). These misconceptions are equally applicable to neuropsychological testing and its interpretation in children and adolescents.

### Table 11–4. Indications for neuropsychological testing

<table>
<thead>
<tr>
<th>Indications for neuropsychological testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation of developmental disorders</td>
</tr>
<tr>
<td>Evaluating dysfunctional domains related to cognitive or behavioral disorders</td>
</tr>
<tr>
<td>(nonverbal disabilities are the most challenging)</td>
</tr>
<tr>
<td>Detecting conditions not demonstrated on standard neurodiagnostic testing</td>
</tr>
<tr>
<td>Defining specific learning disorders</td>
</tr>
<tr>
<td>Identifying subtle brain trauma</td>
</tr>
<tr>
<td>Monitoring neuropsychological status</td>
</tr>
<tr>
<td>Assessing baseline and measuring recovery associated with therapies/interventions</td>
</tr>
<tr>
<td>Characterizing patient strengths for planning rehabilitation programs</td>
</tr>
<tr>
<td>Determining suitability for educational or vocational programs</td>
</tr>
<tr>
<td>Assisting in medico-legal situations</td>
</tr>
<tr>
<td>Determining responsibility in forensic examinations</td>
</tr>
<tr>
<td>Assisting in research</td>
</tr>
</tbody>
</table>

*Source.* Adapted from Harris 1995a and Tranel 1992.

### Interviewing Children With Learning Disabilities and Other Neuropsychiatric Deficits

An inner language is necessary for the formation of self-concept and for the understanding of self in relation to others. Inner language also facilitates self-awareness and conceptualization of problem solving. It permits transmission of mental contents such as thoughts, memories, and emotions in ways that can be understood in interpersonal communication. Inner language allows trial action and planning, a prerequisite for understanding psychological and interpersonal problems. Verbalization or the capacity to communicate inner experience is necessary for the process of change.

Children with learning disabilities have problems processing information and difficulties in encoding or decoding affects. As a consequence, mood disorders in this population may have a different clinical outlook, in particular in their nonverbal display. This difference may mislead diagnosticians.
### Table 11–5. Advantages and disadvantages of commonly used neuropsychological batteries and individualized approaches

<table>
<thead>
<tr>
<th>Battery or approach</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batteries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halstead-Reitan</td>
<td>Has been adapted for use with children: the Reitan-Indiana Test Battery for Children may be used with children ages 5–8 years; the Halstead-Reitan Neuropsychological Test Battery for Children is used with children ages 9–15 years.</td>
<td>As with other batteries, the accuracy of detecting structural brain damage declines when applied to psychiatric patients.</td>
</tr>
<tr>
<td></td>
<td>Samples a wide range of functions.</td>
<td>Lacks measures of memory assessment.</td>
</tr>
<tr>
<td></td>
<td>Can be used to make inferences as to lesion localization and chronicity.</td>
<td>Lengthy and costly to administer.</td>
</tr>
<tr>
<td>Luria-Nebraska</td>
<td>Brief and comprehensive.</td>
<td>Contains a large element of subjective evaluation.</td>
</tr>
<tr>
<td></td>
<td>Complex functions are divided into simple components so that more information is gleaned about the precise nature of the deficits.</td>
<td>Does not reflect progress in neuropsychological assessment during the past 40+ years.</td>
</tr>
<tr>
<td></td>
<td>Can discriminate between brain-injured and control subjects and between brain-damaged patients and schizophrenic patients.</td>
<td>Serious questions exist regarding standardization, validity, and reliability.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>It has been questioned whether the assessment method developed by Luria can be operationalized as a fixed battery.</td>
</tr>
</tbody>
</table>
### Table 11–5. Advantages and disadvantages of commonly used neuropsychological batteries and individualized approaches (continued)

<table>
<thead>
<tr>
<th>Battery or approach</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Individualized Approaches</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boston process approach</td>
<td>Emphasizes higher cortical assessment and is flexible.</td>
<td>Standardization and validation are incomplete. Testing requires a high level of training and experience.</td>
</tr>
<tr>
<td></td>
<td>Focuses on the patient’s successes and failures.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Emphasizes process and strategy; similar deficits may reflect very different underlying processes.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Comprehensive in the areas of language and memory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Useful and sensitive in rehabilitation planning.</td>
<td></td>
</tr>
<tr>
<td>Muriel D. Lezac approach</td>
<td>An individualized approach that emphasizes patient’s successes and failures.</td>
<td>Test selection is critical. May require 6–9 hours of administration time.</td>
</tr>
<tr>
<td></td>
<td>Contains the most comprehensive list of individual tests.</td>
<td></td>
</tr>
<tr>
<td>Arthur Benton approach</td>
<td>An individualized and patient-oriented approach. Sequential process leads to a diagnostic decision. In 80% of cases, experienced neuropsychologists may complete testing in 60–90 minutes.</td>
<td>Tester requires a high level of training and experience.</td>
</tr>
</tbody>
</table>

A detailed clinical history and interviews of collateral sources are not necessary because such information may bias test interpretation. The neuropsychologist can simply rely on the patient’s medical records to arrive at an understanding of the type of brain injury the patient sustained.

Defective performances on neuropsychological testing indicate cognitive dysfunction and/or brain damage, and defective performances on particular tests indicate dysfunction or damage to specific areas of the brain. The neuropsychologist does not need to test or interview a particular patient if he or she has access to the patient’s raw test data.

Collecting reliable test data is the neuropsychologist’s primary goal. Careful interpretation of test data, using appropriate norms, is essential in arriving at accurate opinions about the patient’s cognitive impairments or the localization of brain dysfunctions.

Changes in cognitive functioning are best determined by careful examination of serial neuropsychological test data.

It is unwise to continue testing a brain-injured patient if the patient becomes fatigued because the test data will become unreliable.

Brain-damaged patients should be tested in relatively quiet settings that are free from distractions or extraneous stimuli.

The neuropsychologist’s primary responsibility is to record the patient’s specific responses to specific test stimuli during testing. It is not necessary to record the amount and type of practice, cues, prompts, or various strategies given to or used by the patient during testing, because the raw test data are sufficient to determine the patient’s cognitive impairments.

Test data can be interpreted accurately in the absence of information from other sources (e.g., historical information, medical records, academic records). Interpretations based on test data alone can predict the patient’s ability to function at work, school, home, or in other real-world settings. It is not essential to observe the patient functioning outside the testing (laboratory) environment because careful interpretation of the test data will provide a sufficient basis for predicting how the patient is likely to respond in real-world settings.

Patients who sustain traumatic brain damage will make most of their recovery during the first 6 months and continue to recover for up to 2 years after the injury. Intact performance on a standardized neuropsychological battery (e.g., Wechsler Intelligence for Children—4th Edition, Halstead-Reitan Neuropsychological Battery, Luria-Nebraska Neuropsychological Battery) rules out the likelihood that the patient has cognitive deficits or sustained a brain insult.
Children with language disorders or learning disabilities lack the capacity to use language as an efficient and reliable information-processing tool; they cannot use language for verbal, conceptual planning prior to action. These problems contribute to the child’s sense of isolation, personal inhibition, diminished sense of competence, and poor self-concept. Rarely are these children able to convey their inner lives satisfactorily. For children with language disorders, communicating (or attempting to communicate) with others demands great effort, generates anxiety, and brings disappointing results. For these children, putting thoughts together and organizing thinking—in a relevant and meaningful manner—is usually a difficult, laborious, and frustrating task.

The challenge in the diagnostic assessment of these children lies in the timely identification of their communication difficulties. The examiner must open communication channels that compensate for the child’s language limitations. By creating such pathways, the examiner facilitates the child’s expression of his or her psychological and interpersonal problems. Although verbalization is the most efficient modality for self-revelation, the diagnostic assessment of children with language impairments must be aided by a variety of expressive, nonverbal techniques (e.g., drawing, playing, puppetry, kinetic or mimetic enactments). In cases of receptive language deficits, the examiner has the added challenge of ensuring that the child understands what the examiner is attempting to communicate.
aminer says or wants to convey. The examiner must use simple, deliberate, and redundant language. The examiner also needs to verify on an ongoing basis that he or she is being understood.

Many children with language difficulties use pragmatic adaptational behaviors (e.g., nodding to imply assent) to please others and to secure acceptance. The naive interviewer may misunderstand this adaptive nonverbal body language. For example, when the examiner is talking, the child may be nodding as if conveying that he or she follows the examiner’s verbalizations. The nodding misleads the examiner because it is a learned behavior the child has incorporated to fit into the social milieu; nodding does not guarantee that the child understands. The examiner needs to break through this adaptive facade by repeatedly asking for feedback until certain that the child is processing or understanding what is being communicated. I have evaluated children who have been referred because of apparent psychotic features. These children were said to “talk to themselves” and so on. Careful observations revealed that these children were thinking aloud or trying out the ideas they wanted to convey or were about to express. This self-talk was a trial speech.

The following case example involves a child with aphasia, profound neuropsychological problems, and global cognitive deficits whose interpersonal behavior baffled her teachers.

Frances, an 11-year-old white girl, was referred by the school district for assessment of “psychotic behavior,” specifically because “the child talks to herself frequently, she talks to imaginary friends, she laughs inappropriately.” Frances had been diagnosed with global aphasia and was known to have global cognitive deficits. She attended a special education program because of demonstrated serious learning difficulties.

Frances’s mother alleged that Frances had developed satisfactorily until age 2 years, at which time she sustained a severe head injury when her father, who had been holding Frances on his back, lost his grip, and she fell on her head. Frances forgot how to speak after the accident. Her mother spent a great deal of time and effort teaching her to speak again and later to read.

Frances was born at full term, and the delivery was uncomplicated; however, she was delivered by forceps and may have been oxygen deprived at birth. Frances’s mother described her as an easy-tempered baby. She indicated that early developmental milestones had emerged at the expected times. She reported that developmental delays began after her fall. She had no history of seizures or of any other medical problems, and she had no psychiatric history.
At the time of the evaluation, Frances’s parents were separated. Frances’s father had abandoned the family some time earlier, but her parents’ marital relationship was poor even before her father left. Frances’s mother alleged that her husband was mentally ill and that there was significant mental illness on his side of the family. The family was experiencing significant economic stress and received assistance from charity organizations.

The mental status examination revealed an attractive and engaging pre-adolescent female who appeared her chronological age. Frances was appropriately dressed and well groomed. She exhibited a significant degree of anxiety, and although she appeared euthymic, she demonstrated some social-adaptive but inappropriate smiling. Her affect was increased in range and in intensity.

As Frances began to talk, her dysprosody became apparent. Her voice was hoarse and rasping, like that of an old woman. She had difficulties initiating speech and frequently showed hesitancy and significant problems in the flow of expressive language. Frances tended to perseverate, and the examiner frequently needed to repeat questions because Frances seemed to have problems understanding speech. Frances’s sentences were short and simple, and she had frequent problems with grammar and syntax, including improper use of prepositions and conjunctions. The examiner noted that Frances had recent and remote memory problems. Although she was coherent, she also displayed dysnomia and some illogical thoughts. The examiner found no evidence of a mood disorder, suicidal or homicidal ideation, or psychosis.

Summary of positive findings (see Note 4 for other findings):

Physical examination. Findings were unremarkable.

Neurological screening. Frances showed evidence of receptive and expressive language disorders; she also exhibited some ataxia and frontal release signs.

Neurological consultation. Frances’s left ear was mildly malformed, and mild facial asymmetry was observed. There was no evidence of dysarthria, but word usage and syntax problems were noted. Frances could not read at her grade level, and her reading comprehension was poor. Visual perceptual deficits were also observed. When she was challenged with commands of medium complexity, Frances’s speech comprehension was below the expected level. The diagnostic impression was of dysphasia (expressive-receptive speech deficits). A tic disorder was also suspected. The examiner recommended a speech evaluation and a sleep-deprived EEG.

Cognitive testing. Frances obtained a full-scale IQ of 75, a verbal IQ of 66, and a performance IQ of 87. Frances’s scores on tasks requiring elaborate explanations were quite impaired, reflecting her significant aphasic deficits. Her scores on subtests associated with perceptual organization showed scatter (i.e., a large spread in subtest score values). She had borderline scores for the arrangement of pictures to tell a story and the reproduction of designs using
patterned blocks. She exhibited an average ability to scan for visual incongruities and a high average ability to assemble puzzles. Her scores associated with attention and freedom from distractibility were average (repetition of digit strings) and borderline (mental arithmetic). Processing speed scores were average (visual target detection) and borderline (copying of symbols from a key). The pattern was consistent with a significant language deficit in the presence of better-developed visuoperceptual abilities.

**Projective testing.** Findings were consistent with the diagnosis of schizotypal personality disorder. Frances exhibited significant evidence of deficits in perceptual accuracy but no evidence of a thought disorder. Frances’s behavior during the evaluation aptly depicted her internal confusion: she had difficulties interpreting the actions of others in a positive and caring way, and she was uneasy in interpersonal relationships, expecting that she would be misunderstood or that she would misunderstand others. Although she said that she was unwilling to participate in the evaluation, Frances’s behavior was generally cooperative and pleasant, but she had a tendency to become disorganized under stress.

**Neuropsychological testing.** The neuropsychologist reported that Frances was an attractive, slim girl who was somewhat small for her age. She was adequately groomed and appropriately dressed. Her speech and language were unusual in several regards. Frances’s word usage was quite concrete; she frequently used the word “thing” to refer to objects or made paraphasic errors (e.g., “eyelashes” for eyebrows). Frances talked almost continuously and at a rapid rate. Her spontaneous comments and questions appeared to reflect her personal concerns and anxiety (e.g., she frequently expressed fear of punishment) and were frequently off topic. Frances tended to ask repetitive questions, such as asking what time it was every few minutes. Her receptive language appeared impaired; she often had difficulty understanding spoken instructions and needed more explanation and demonstration than expected based on her age.

Frances’s motor activity and energy level were significantly increased. She fidgeted, squirmed, and attempted to get out of her chair and explore the room. Her motor activity increased every time she was faced with a task she found difficult. She had significant problems maintaining attention. Frances got off task frequently and required a great deal of redirection. Her approach to various tasks was inefficient; for example, she often indicated that she was finished with a task without checking it for accuracy. Her mood was anxious and her affect incongruent. For example, even when obviously frustrated and having protested that a task was too difficult, Frances continued smiling. Her cooperation fluctuated. She was most cooperative on tasks she enjoyed, and she appeared quite responsive to praise and encouragement. On tasks she found difficult, she protested verbally or responded in a random or silly manner until redirected. On one task, she simply refused to continue.
**Visuospatial skills.** Right-left confusion and poor visuospatial construction skills were revealed.

**Language.** Frances exhibited mild impairment in all aspects of language. Her receptive vocabulary was in the first percentile: Frances had problems understanding spoken questions and directions. Her expressive vocabulary was in the impaired range, and her abstraction skills were in the borderline range. Findings were consistent with a significant aphasic disorder.

**Memory.** Frances exhibited impairments in immediate memory recall and learning. Her pattern of performance indicated poor initial encoding. On a task of learning and recall for a set of spatial coordinates, Frances became extremely frustrated, responded randomly, and refused to complete the task. The pattern of errors suggested inconsistent attention.

**Executive functions.** Frances exhibited severe deficits in executive functions.

**Diagnostic impression.** Tests were consistent with multiple neurological deficits, most notably in receptive and expressive language, psychomotor coordination, and executive functions. These deficits significantly impeded Frances’s ability to problem solve verbally or organize novel information, leading to a reliance on repetitive and often inappropriate behavior. Frances’s neurocognitive problems were exacerbated by anxiety. Frances was not considered mentally retarded. Her symptoms were consistent with pervasive developmental disorder and appeared to be secondary to her neurocognitive deficits.

Regarding localizing principles of aphasia in children, Cummings (1995b) wrote, “Children often exhibit nonfluent aphasia regardless of the lesion localization in the left hemisphere” (p. 181). Severe linguistic deficits are rarely isolated. These deficits are frequently associated with other neurocognitive and neuropsychological deficits. Understandably, depression, anxiety, and psychotic disorders are frequent comorbid conditions in children with language disorders and neuropsychological deficits. Receptive language disorders are frequently misdiagnosed as oppositional defiant disorders. In reality, children with these disorders do not understand the oral commands they are given. Impulse control difficulties are common in these children.

Children with severe expressive language disorders display surface thought disorders that are similar to those of individuals with schizophrenia (e.g., looseness of associations, incoherence, circumstantiality, neologisms). The main differences are in the areas of relatedness and affective expression. In general, children with language disorders are likable, have a strong interest
in people, and frequently display broad and congruent affect, as well as interest in communicating. Children with schizophrenia usually have schizoid behaviors and display blunt or inappropriate affect. Elaborate delusions and multisensory hallucinations are characteristic of schizophrenia.

Both Frances and Ruben (see case example in "Specific Neuropsychiatric Symptoms" later in this chapter) demonstrated significant mixed language impairment and moderate to severe memory deficits, reflecting the close connection between language and memory functions. Surprisingly, parents and even teachers failed to recognize these communication problems.

Patients with severe neuropsychiatric problems often grow up with deep-seated doubts about their competence and intellectual capacity. Because of their communication difficulties, they develop a sense of defectiveness and a poor self-concept. They may be demoralized or chronically depressed. Language limitations also interfere with their social relationships. These children have problems making friends and gaining acceptance from their peer groups; usually they are isolated and insecure. Neuropsychiatric impairments interfere with school and vocational achievement. Lack of achievement further interferes with these children’s overall adaptation (i.e., sense of competence, self-esteem, and attitude toward life problems). Serious behavioral and attitudinal difficulties develop in children in whom these disorders are not properly diagnosed and treated. In general, learning disabilities and related neuropsychological impairments represent cortical association disconnections or cortical-subcortical disconnections caused by a variety of noxae.

Specific Neuropsychiatric Symptoms

Attention and Concentration Deficits

According to Barkley (2005), ADHD relates to a developmental delay in or acquired impairment of the behavioral inhibition networks of the brain that control self-regulation; this theory links behavioral inhibition and executive functions. Behavioral inhibition is a foundation of the relationship of self-control and four executive functions (discussed in following paragraph). Self-regulation is defined as self-directed action to change one’s own behavior to alter the probability of a delayed (future) consequence; executive functions are forms of behavior to the self—that is, the actions one uses to change oneself so as to change the future (Smith et al. 2007).
The four executive functions (forms of self-directed actions) are as follows:

1) **Nonverbal working memory** (covert self-directed sensing) represents hindsight of the retrospective function of working memory; this contributes to subjective estimation of psychological time involved in forethought or prospective function of working memory. 2) **Verbal working memory** (internalized self-directed speech) is involved in self-control, planning, and goal-directed behavior. 3) **Self-regulation of affect-motivation-arousal** (self-directed emotion) is inner speech that is important in managing motivational states. By privately manipulating and modulating emotional and motivational states, the child can induce drive or motivational states that may be required for initiating and maintaining goal-directed behavior. 4) **Planning and reconstitution** (self-directed play) involves inner speech and imagery that permit analysis (deconstruction) and synthesis (recombination) of the world. Action-to-the-self is based on play in childhood that progresses from manual-verbal play to private mental manipulations of images and words that generate new ideas and related behaviors to use in goal-directed problem solving (Smith et al. 2007).

Attention processes are fundamental executive and neurocognitive functions that entail a variety of capacities, including sustained attention, selective attention, intensity of attention, and inhibitory control (E. Taylor 1994). Alertness, target detection, and vigilance are major components of the attention processes. **Alertness** refers to the readiness to process information and depends on the intactness of the right hemisphere. **Target detection**, or selection, depends on parietal lobe functioning and involves selective attention of a specific stimulus. The disengagement of attention from a given stimulus seems to be even more specific for intact parietal functions. **Vigilance** refers to the mental effort needed to maintain attention. This higher aspect of attention involves effortless problem solving, motivation, and commitment to memory.

Attention disturbances are implicated in a variety of psychopathologies (e.g., ADHD, traumatic brain injury, schizophrenia). Disorders of attention are not unitary disturbances but “rather a loose association of symptoms affecting alertness or arousal, selective or focused attention, distractibility, sustained attention, and span of apprehension” (Spreen et al. 1995, p. 365). Up to 20% of children with ADHD may also have a severe social disability (i.e., profound deficits in interpersonal and social functioning).

ADHD is a primary disorder that can occur without other psychopathology; however, the disorder may accompany many neurological, psychiatric,
and psychosocial conditions. Although distractibility and hyperactivity are the predominant features of ADHD, these symptoms are also found in many medical and neurological conditions. Garfinkel and Amrami (1992) consider the following conditions in the differential diagnosis of ADHD.

- Organic disorders (e.g., lead intoxication; sensory disorders, especially deafness; frontal lobe lesions, such as abscesses and neoplasms; medication-induced attention deficit; antihistaminic, beta-agonists; substance abuse; mental retardation; seizure disorder; learning disabilities; pervasive developmental disorder)
- Functional disorders (e.g., conduct disorder, oppositional defiant disorder, affective disorder with manic characteristics, Tourette’s disorder and multiple tic disorder, adjustment disorder with disturbance of behavior, personality disorder, anxiety disorder, obsessive-compulsive disorder)
- Developmental disorders (e.g., age-appropriate hyperactivity) and situational, environmental, and family problems (e.g., inappropriate school placement involving gifted, learning disabled, or developmentally delayed children being placed in regular classrooms; a chaotic family setting; abuse or neglect)

**Delirium**

Delirium is a transient and usually reversible dysfunction in cerebral activity that has an acute or subacute onset and is clinically manifested by a wide range of neuropsychiatric abnormalities causing a confusional state. Intrinsic predisposing factors for delirium include a previous delirium episode, a preexisting cognitive impairment, a CNS disorder, blood-brain barrier permeability, and the following environmental factors: social isolation, sensory extremes (sleep and sensory deprivation and sensory overload), visual and hearing deficits, immobility, and environmental novelty or stress (Williams 2007). Although delirium occurs in children, it is seldom identified. Delirium is potentially life threatening and requires immediate medical attention. Patients are inattentive and disoriented and display incoherent or rambling speech. They may appear to be in a stupor or a state of restless agitation. Perceptual disturbances (e.g., illusions and visual, auditory, or haptic hallucinations) are common. In addition, sleep-wake cycle disturbances or memory impairments may occur. Characteristically, the patient’s level of alertness waxes and wanes: the patient may
by oriented and alert at one moment and become disoriented and confused the next. This is the so-called sundowning effect. Autonomic instability (e.g., changes in heart rate and blood pressure, sweating, and pupillary changes) and mood and emotional alterations are common in delirium. Delirium should be suspected in patients who are taking psychotropic medications. Neuroleptic malignant syndrome and serotonin syndrome are life-threatening complications of psychotropic use.

Williams (2007, p. 649) used the mnemonic PLASTRD for the signs and symptoms of delirium:

**Psychosis**
- Perceptual disorders (visual): illusions, hallucinations, metamorphopsias.
- Delusions, paranoid (poorly formed).
- Thought disorder: circumstantiality, tangentiality, loose associations.

**Language impairment**
- Word finding difficulties, dysnomias, paraphasia, dysgraphia.
- Altered semantic content; severe forms may mimic expressive or receptive aphasia.

**Altered labile affect**
- Moods incongruous to context, mood lability.
- Hypoactive delirium confused with depression.

**Sleep-wake disturbance**
- Fragmented throughout 24-hour period, reversal of normal diurnal cycle. Sleeplessness.

**Temporal course**
- Acute, abrupt onset; fluctuation of symptom severity during 24-hour period.
- Usually reversible. Subclinical syndrome may precede or follow the episode.

**Reactivity altered**
- Hyperactivity, hypoactivity, mixed.

**Diffused cognitive deficits**
- Inattention, disorientation (time, place, person); amnesia (short and long term), verbal and visual.
- Impairment of visuoconstructional ability; executive function deficits.
The most common causes of delirium in children are physical trauma, CNS infections, and intoxication. In adolescents, the most common culprits are CNS injuries caused by serious suicide attempts (e.g., from hanging, carbon monoxide poisoning, psychotropic drug overdoses) and side effects associated with abuse of hallucinogenic drugs and medications (including psychotropic medication side effects). For the differential diagnosis of delirium, see Cepeda (2007). Mortality from delirium in childhood could be as high as 20% (Williams 2007).

**Soft Neurological Signs**

Soft neurological signs have nonspecific neuropsychiatric significance. They are not localizing and are not invariably associated with specific structural lesions. Their clinical significance has been variably interpreted by different clinicians, and arbitrary hierarchical attributions have been assigned. They are closely related to the child’s developmental status, because many of these signs are present at an early age. Soft neurological signs are often considered as evidence of developmental immaturity or of a developmental lag as they persist in older children. Soft signs are slightly more common in children who have several different types of psychiatric disorders. Attaching a well-defined clinical significance to soft signs is impossible. Within a specific diagnostic group, soft signs may have some predictive value (Young et al. 1990). The Physical and Neurological Examination for Soft Signs (PANESS) is the preferred assessment instrument for soft neurological signs.

**Seizure Disorders**

The psychopathology related to seizure disorders has multiple causes: “Psychiatric morbidity related to seizure disorders is determined by several factors including underlying neuropathology, neural effects of ictal and interictal states, psychological effect of loss of consciousness or altered consciousness, family reaction to epilepsy, and psychotropic effects of anticonvulsant treatment” (Cook and Leventhal 1992, p. 652). Commenting on Lindsay’s studies (Lindsay et al. 1979), Cook and Leventhal (1992) wrote, “As many as 85% of children with temporal lobe epilepsy had psychiatric disorders including mental retardation (25%) and disruptive behaviors (including ‘hyperkinetic syndrome’ and catastrophic rage), but only 30% had psychiatric disorders
when followed to adulthood” (p. 652). Memory and attention are especially disturbed in patients with complex partial seizures, even in those with subclinical epileptiform discharges, particularly if the left hemisphere is affected (Spreen et al. 1995).

Aggressive behavior, mood disturbances, intolerance to frustration, poor integration into social groups, and marked dependency are common in children with seizures. Psychoses are more prevalent in children with left-hemispheric seizure foci. The following case example illustrates psychiatric consequences (i.e., aggressive behaviors and psychosis) in a child with poorly controlled seizures (see also Ralph’s case example in Chapter 7, “Documenting the Examination Using the AMSIT”).

Ricardo, a 6-year-old Hispanic boy, was evaluated for oppositional and aggressive behaviors at home and at school. His mixed seizure disorder (grand mal and complex partial) was poorly controlled, primarily because of poor compliance with the neurologist’s recommendations. Ricardo was in the care of his maternal grandmother, who was frail, forgetful, and psychiatrically ill. The school had reported Ricardo’s grandmother to the department of social services because Ricardo had gone to school overmedicated on several occasions. When the school nurse checked on how much medication the grandmother had given Ricardo, it did not match the doctor’s prescription.

The grandmother reported that Ricardo often stared into space and appeared confused. He would become unresponsive, his mouth would foam, and he would become cyanotic. The grandmother was more alarmed than the child; he often expressed fears that somebody was going to harm him. He had plucked out his teddy bear’s eyes because, he reported, the teddy was “staring at me funny.” Ricardo’s sleep-deprived EEG confirmed the diagnosis of partial seizure symptomatology. Appropriate anticonvulsant medications and close monitoring ensured seizure control and produced marked improvement in Ricardo’s aggressive behavior, paranoid symptoms, and overall symptomatology.

Regressive Behavior

The loss of cognitive abilities or of acquired personal, social, or behavioral skills should call into question the integrity of the child’s CNS. Clinicians should be cautious in making diagnostic closures in the assessment of regressive behavior. The following case example is illustrative.
Roger, a 7-year-old white boy, was referred for a psychiatric evaluation for regressive behavior. He had stopped talking and had problems eating. At school, he seemed listless and had limited academic progress. Roger also had problems with enuresis and encopresis. When Roger's mother was asked about a history of similar problems in the family, she casually commented that many boys in her family had died at a very early age. Because the neurological examination was positive for equivocal Babinski’s signs bilaterally, and because Roger displayed feeding difficulties, he was referred to a pediatric neurologist. At first, the pediatric neurologist found no reason to consider a neurological disorder; she suspected a functional disorder. A pediatric psychiatric consultation established that Roger had a psychotic disorder. Serendipitously, the neurologist later noticed hyperpigmented creases in Roger's hands, after which adrenal gland involvement (Addison's disease) was confirmed. A brain CT scan showed extensive demyelination in the frontal and temporo-parietal areas. A diagnosis of adrenoleukodystrophy was made. The dementing and deteriorating course of the illness continued unremittingly until Roger became bedridden a few years later.

What was initially interpreted as a lack of academic progress was early evidence of a progressive loss of cognitive faculties, and what was initially called enuresis and encopresis was a loss of voluntary sphincter control, a sign of frontal lobe dysfunction.

Child psychiatrists have a key role in assisting in the identification of dementing disorders of childhood. Some of these disorders (e.g., Wilson's disease) are potentially treatable. Prompt identification is important for timely clinical management, including timely genetic counseling.

Goodman (1994) recommended initiation of investigations to detect organicity and appropriate referrals 1) if the child loses well-established linguistic, academic, or self-help skills and performs below previous levels; 2) if features emerge that are suggestive of brain disorder; or 3) if risk factors for genetic or infectious disease are present. According to Goodman (1994), the following are the most common disorders presenting with dementing symptoms in child psychiatric practice: Batten disease, Wilson’s disease, Huntington’s disease, adrenoleukodystrophy, juvenile-onset metachromatic leukodystrophy, subacute sclerosing panencephalitis, HIV (human immunodeficiency virus) encephalopathy, Rett syndrome, pervasive developmental disorders (e.g., disintegrative disorders, autism), convulsive disorders (e.g., Lennox-Gastaut syndrome, Landau-Kleffner syndrome), cerebral palsy, and head injury.
Some severely regressive patients may exhibit complex and confusing clinical pictures that mimic neurodegenerative disorders. For example, an 11-year-old preadolescent developed progressive speech difficulties and stopped eating. He was referred to a university hospital. The neurological workup (including neuroimaging) was negative. Under amytal sodium, he began to talk about his history of severe physical abuse. Acute regressive pictures with complex psychiatric symptomatology have been observed in children with complex partial seizures who did not have a history of seizures.

Traumatic Brain Injury

Birmaher and Williams (1996) have highlighted risk-taking behavior as one of the causes of traumatic brain injury:

Implicitly, the issue of risk-taking behavior as an etiologic contributor to traumatic brain injury among children and adolescents is an important consideration....A number of studies...point to the elevated incidence of documented alcohol use, preexisting cognitive deficits, preexistent deviant behavior, and diminished parental emotional stability among youngsters suffering traumatic brain injury....Children with head injuries have tended to be impulsive, aggressive, attention-seeking, and behaviorally disturbed, engendering a greater probability of being in dangerous situations likely to result in accidents. The families of children experiencing accidents also show more parental illness and mental disorder, more social disadvantages of various kinds, and less adequate supervision of children’s play activities than is found in the general population. (pp. 370–371)

It is not a simple matter to disentangle the sequelae of traumatic brain injury from antecedent deficits. Bennet et al. (1997) classified the sequelae of traumatic brain injury into four categories (see Table 11–7).

Many of the complications and sequelae of brain injury are illustrated in the following case example.

Abe, a 13-year-old white adolescent and the son of two physicians, was evaluated for depression, suicidal behavior, and increasingly aggressive dyscontrol. He had hit a child with a rock, and on another occasion he had to be separated from the same child. Eighteen months earlier, on the first day of a vacation, he was “accidentally hit” with a golf club in the left frontotemporal area. X rays demonstrated a depressed frontotemporoparietal skull fracture. Abe was coma-
tose for 10 days. He sustained an intraparenchymatous hematoma (bleeding within the brain) and lacerations of the frontal and temporal lobes. After neurosurgical intervention, Abe experienced expressive aphasia and right-side hemiplegia (paralysis). He also had difficulties swallowing and controlling his bowel functions. By the time of the psychiatric evaluation, Abe had achieved a “wonderful recovery”: most of the overt aphasia and hemiplegia had resolved. However, subtle impairments remained: he had difficulty writing due to loss of a fine motor coordination of the right hand, and he had episodic difficulties in word finding. Problems with concentration had also been observed.

Abe had been an honor student but was struggling to catch up at school and complained that the school’s demands were harder to meet than before. Abe’s parents noticed that he was painfully aware of his limitations and func-

Table 11–7. Sequelae of traumatic brain injury

<table>
<thead>
<tr>
<th>Major cognitive sequelae</th>
<th>Decrease in speed and efficiency of information processing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Difficulties with attention and concentration</td>
</tr>
<tr>
<td></td>
<td>Learning and memory problems</td>
</tr>
<tr>
<td></td>
<td>Perception difficulties</td>
</tr>
<tr>
<td></td>
<td>Language and communication problems</td>
</tr>
<tr>
<td></td>
<td>Problems with executive functions</td>
</tr>
<tr>
<td></td>
<td>Decrease in level of intelligence</td>
</tr>
<tr>
<td>Major affective and personality sequelae</td>
<td>Organic personality changes</td>
</tr>
<tr>
<td></td>
<td>Reactive personality changes</td>
</tr>
<tr>
<td>Noncognitive sequelae</td>
<td>Sensory complaints</td>
</tr>
<tr>
<td></td>
<td>Posttraumatic headaches</td>
</tr>
<tr>
<td></td>
<td>Posttraumatic epilepsy</td>
</tr>
<tr>
<td></td>
<td>Sleep disturbances</td>
</tr>
<tr>
<td></td>
<td>Psychotic features</td>
</tr>
<tr>
<td>Psychological reaction to the brain injury</td>
<td>Adjustment to adaptive impairments</td>
</tr>
<tr>
<td></td>
<td>Changes in self-concept and body image</td>
</tr>
</tbody>
</table>

tional loss. They also noticed significant personality changes. Abe had become more irritable, and he was prone to angry outbursts and frequent confrontations with his father. On one occasion, he pushed his father and hit him on the chest. He also became destructive and self-abusive (e.g., he engaged in head banging). Abe became progressively more demoralized and began to show evidence of withdrawal and loss of motivation and interest.

The mental status examination showed a handsome teenager who was small for his age and was uncooperative and unfriendly during the interview. When Abe talked, he seemed to be making a deliberate effort to communicate. His difficulties with word finding and his loss of fluency of speech emerged intermittently. His sensorium was intact, and his intellectual function was assessed as above average. No disturbance in thought processes was detected. Abe endorsed auditory hallucinations in the form of voices that talked to him and put him down; he denied other hallucinatory experiences. Abe denied paranoid ideation and denied suicidal thinking at the time of the evaluation. His judgment and insight were considered fair. Abe tended to argue and disagree with most of his parents’ concerns.

Eighteen months after the trauma, a neuropsychological assessment before the psychiatric assessment showed a dramatic recovery from most of the cognitive, language, and motor deficits seen 15 months earlier. Abe demonstrated some speech hesitancies but none of the dysfluencies and paraphasias observed earlier. He had motor-related problems in writing, but his problems with spelling and reading (e.g., pronunciation) had resolved. Motor coordination in his right hand had improved to the point that he could write slowly and perform many fine motor tasks. His measured intelligence had increased to the superior range on subtests that did not require fine motor responses. The tactile response in Abe’s right hand was mildly reduced. Abe was cooperative and easy to manage during a full day of testing, in contrast to problems seen earlier. Rapport with the tester was appropriate even though Abe had reported auditory hallucinations. The neuropsychologist suggested that the hallucinations could be related to the lesion of the temporal lobe and that the lack of motivation for reading could be related to residual language impairments.

Abe received the diagnosis of a mood disorder with psychotic features associated with a medical (i.e., neurological) condition. He was referred to a residential therapeutic program to help him to handle frustration and anger with more appropriate and adaptive behaviors and to help him to deal with issues of chronic demoralization and ongoing problems with his parents.

Recovery from brain injury does not stop after the first year of the injury. Patients have shown significant improvements in cognitive functioning between two and five years and even 5–10 years after the injury. Patients who sustained severe traumatic brain injuries have demonstrated significant improvement in
social, physical, and emotional functioning 2 years after an injury (Sbordone 1997).

In the case examples of Frances and Abe, postnatal brain injuries involving neurocognitive and linguistic sequelae had a prominent role in each patient’s dysfunction. In general, the prognosis after traumatic brain injury depends on the degree of intactness of the CNS (or on the degree of structural damage) as demonstrated by neuroimaging studies and to a certain extent on the integrity and resources of the family environment.

**Cognitive Impairments**

Cognitive impairments are either congenital or acquired. Congenital impairments contribute to mental retardation. Children with congenital cognitive impairments exhibit delays in neuromuscular and postural milestones and disturbances in attachment and social-relational behaviors, in language acquisition, and in communication competence. Children with congenital cognitive impairments demonstrate academic difficulties and problems in the rate of acquisition of new skills. Because a number of congenital cognitive impairment syndromes are potentially treatable (e.g., phenylketonuria), early identification is essential.

Ninety-five percent of genetic mental retardations are associated with the X chromosome. The most common causes of mental retardation are Down syndrome, fragile X syndrome, and fetal alcohol syndrome. These causes account for as many as 30% of the identified cases of mental retardation (King et al. 1997).

Because of diagnostic overshadowing, many psychiatric disorders are unrecognized in children with mental retardation. Those that go unrecognized include psychotic, mood, and anxiety disorders; ADHD; and stereotyped habit disorders.

**Learning Difficulties**

Learning difficulties are rarely the primary reason for initial consultation with a child psychiatrist; however, they are common comorbid conditions for a number of psychiatric disorders (e.g., ADHD, Tourette’s disorder, conduct disorder, mood disorders). Language disorders are commonly associated with learning problems, and some experts believe that language deficits are the underlying cause of most learning disabilities.
Positron-emission tomography studies in men with persistent developmental dyslexia demonstrated a failure to activate “the left temporo-parietal cortex during a phonological and rhyme-detection task and the right temporo-parietal cortex during a non-language task” (Rumsey 1998, p. 12). These abnormalities are in contrast to “robust activation of the left inferior frontal regions during a syntax task involving sentence comprehension” (p. 12). The posterior portion of the large-scale language networks may be affected in dyslexia. Convergent findings indicate that the posterior temporal and nearby occipital and parietal regions are involved in dyslexia and in phonological deficits (Rumsey 1998).

Language Disorders

Because language disorders have far-reaching implications for children’s cognitive, social, and learning competencies, early identification and treatment are of the utmost importance (Bishop 2002). Speech apraxias, dysnomias, and other production or expressive disorders need proper and timely identification. Among the expressive disorders, the examiner must distinguish dysfunctions secondary to neuromuscular control and coordination (i.e., dysarthria), defects at the motor level of speech production (i.e., apraxias), and defects in the production of language at the semantic level (i.e., lexical and syntax deficits; Spreen et al. 1995). Receptive language disorders include a congenital word deafness (verbal auditory agnosia), which entails an inability to differentiate speech sounds from other environmental sounds (so-called auditory imperception). Neologisms and idioglossia (unintelligible verbal utterances) are common problems in individuals with receptive language disorders (Spreen et al. 1995). Receptive language disorders have the worst prognosis among the language disorders.

The diagnosis of aphasia needs special consideration. The consequences of childhood-acquired aphasia appear to be long lasting and extend in time far beyond the disappearance of aphasic symptoms. Even when clinical signs of aphasia abate, full and functional pragmatic language will not necessarily be acquired or restored. Academic achievement continues to be poor, and failure to accrue new knowledge may be more pronounced over time, perhaps because of the increasing demands in higher academic grades (Dennis 1997).

A close association exists between language disorders and psychopathology. At least 50% of children with language disorders have associated psycho-
pathology. In a study by Cohen and Horodezky (1998), teachers and parents rated children with unsuspected language impairments as having more ADHD symptoms and more severe problems with aggression and delinquency than children with previously identified language impairments or children with normal language development. Parents of children with unsuspected language impairments rated their children as more delinquent than did the parents of children with previously identified language impairments across all ages. The parents of children with previously identified language impairments appeared to make accommodations for their children’s communication difficulties, which apparently protected these children from being blamed unnecessarily for some of their behaviors (Cohen and Horodezky 1998). Early identification is important because it seems to improve the parents’ level of empathy toward the child and may decrease the frequency of negative interactions.

**Memory Impairments (Amnesias)**

Harris (1995b) commented that various forms of memory are mediated by separate brain systems. Conscious memory (i.e., declarative or explicit memory) and nonconscious memory (i.e., nondeclarative or implicit memory—involved in acquisition of skills, habits, and other procedures) use different neuroanatomical systems. The hippocampus and its related structures are essential for declarative or explicit memory. Other structures are necessary for nondeclarative or implicit memory. The hippocampus and related structures are needed for the establishment of enduring memory, although long-term memory storage is believed to involve the neocortex. Nondeclarative memory appears to be stored in specific sensory and motor pathways. The cerebellum seems to be an important site for classical conditioning of skeletal musculature (Harris 1995a). The role of the hippocampal region (medial temporal lobe) in amnesia is defined by Zola (1997): “The findings show that circumscribed bilateral lesions limited to the hippocampal region are sufficient to produce amnesia. Additional findings indicate that the cortical regions adjacent to and anatomically linked to the hippocampal region—i.e., the perirhinal, entorhinal, and parahippocampal cortices—are also important for memory function” (p. 458).

Heindel and Salloway (1999) expanded on the above concepts: “Studies have convincingly demonstrated that memory should not be thought of as a
single, homogeneous entity, but rather as being composed of several distinct yet mutually interacting memory systems that are mediated by specific neuroanatomical substrates” (p. 19). The authors integrate four memory systems: 1) *working memory*, involving information that is stored and manipulated for a very short period of time (20–30 seconds), which is under central executive control and neuroanatomically based in the prefrontal cortex; 2) *episodic memory*, involving information that is remembered within a temporal or spatial context, which is mediated by the medial temporal lobe and the diencephalon; 3) *semantic memory*, involving the fund of general knowledge not dependent on contextual clues for retrieval, which is mediated by the temporoparietal association cortex; and 4) *procedural memory*, an unconscious way of remembering that is expressed through the performance of specific operations comprising a particular task, which is mediated by the basal ganglia (Heindel and Salloway 1999).

Children with static encephalopathies or with anomalies in brain embryogenesis may experience serious memory dysfunction. Learning or language disorders in some children may be the result of memory difficulties. These deficits can be demonstrated with careful testing and must be confirmed with pertinent neuropsychological testing. Memory difficulties are caused by encoding difficulties or by retrieval problems. The following case example illustrates a predominant encoding memory disturbance in a child who has multiple neuropsychiatric and neuropsychological problems.

Ruben, a 12-year-old Hispanic boy, was evaluated after his teacher overheard him saying that he had a person inside him who talked to him and told him to harm himself and others. During the evaluation, Ruben claimed he had this person inside him since he was 4 years old. He claimed that the person had asked him not to tell anyone and had even threatened to throw him in front of cars or trains if he were to do so. Ruben’s mother learned about the “person” 2 days before the psychiatric evaluation, when Ruben had been intercepted running toward railroad tracks, intending to kill himself. Apparently, he was responding to commanding hallucinations telling him to get run over by the train.

Ruben had a history of self-abusive behavior and had also displayed suicidal behavior. About 3 months earlier, Ruben’s self-abusive behavior took a turn for the worse. He had a number of unexplained accidents over the previous months. These incidents included cutting his finger, burning his left forearm, and falling frequently.
Ruben revealed that he had hurt a baby and another boy and that he had sexually abused a 7-year-old boy. He also disclosed episodes in which he had sexually molested his 9-year-old brother and had displayed sexual behavior toward his babysitter.

Ruben had been retained in school for 4 years in a row because “he didn’t seem to be able to learn anything,” according to his mother. He attended a special education program for second grade.

When Ruben was born, doctors discovered that he had a heart murmur and operated on him, after which he remained in an incubator for 3 months. He also had three eye surgeries. He had no history of seizures but had a history of significant neurodevelopmental delays: he sat at age 12–14 months, walked at age 3 years, and began talking between ages 3 and 4 years. He had been toilet trained by age 3 years. He had no history of enuresis. When Ruben was asked to do a chore, such as taking the trash out, he repeatedly came back to ask what he was supposed to do. Any expectation of him had to be repeated many times.

Ruben’s mother had attempted suicide previously, had a history of psychiatric hospitalizations, and had ongoing problems with alcohol. Ruben’s father had never cared for or provided for Ruben or his brother. During the family interview, Ruben and his mother related positively.

The mental status examination revealed a child who appeared his chronological age. Ruben wore glasses and displayed a serious countenance. He endorsed auditory and visual hallucinations, saying that he heard and saw Robert, or Robbie, the person inside him. He also acknowledged hearing voices telling him to do bad things to himself and to others. He said that 2 days earlier, he had seen Robbie: he was all red and had horns. Ruben said that Robbie had always been like that. Ruben also heard people other than Robbie; these people were with Robbie. Robbie was real to Ruben, but Ruben acknowledged that at times his actions were the result of his own thoughts. He claimed that sometimes he was able to put Robbie away from his mind for a little while. Ruben disclosed sexual excitement and preoccupation. He was oriented to time, place, and person. As Ruben began to relax, he became more pleasant. Ruben also exhibited expressive and receptive language problems and a limited vocabulary. The examiner had to repeat many of the questions more than once before Ruben could attempt to answer them. Ruben’s intelligence, insight, and judgment were considered impaired.

Summary of positive findings (see Note 5 for additional findings):

Physical examination. Ruben exhibited synophrys (eyebrows meeting in the middle) and hyperthelorism (eyes appreciably more separated than normal). A periscapular surgical scar, related to the neonatal heart surgery, was present. Heart auscultation was unremarkable.
Neurological consultation. Ruben exhibited dysmorphic features (e.g., hypertelorism, prominent ears, fragmented and abnormal palm creases). He had global difficulties with reading, writing, and mathematics, and had multiple perceptual deficits, including sequential memory deficits (auditory and visual) and right-left disorientation. His human drawing showed a lack of detail, consistent with important body-schema deficits. Cranial nerves, muscle power, tone, deep tendon reflexes, gait, and stance were all normal. Multiple scars were noted, as was a birthmark on the left side of the neck. The diagnostic impression was of static encephalopathy (rule out chromosomal abnormalities, to rule out a genetic disease) and possible fragile X syndrome. Chromosomal studies, a sleep-deprived EEG, and an MRI were recommended. The chromosomal analysis showed a normal chromosomal count (46XY) and no fragile X abnormality. The EEG showed no focal or paroxysmal abnormalities. The MRI showed evidence of striking cell migration deficits, a fissure in the right temporoparieto-occipital area, another milder cleft toward the central fissure, and evidence of pachgyria (abnormal clustering of gyri) and microgyria (gyri smaller than normal). Diagnosis: schizencephaly and cell migration defects.

Cognitive testing. Ruben’s scores on the Wechsler Intelligence Scale for Children—3rd Edition (WISC-III) were as follows: full-scale IQ 73, verbal IQ 58 (intellectually deficient range), and performance IQ 93 (average range).

Projective testing. Ruben’s performance was consistent with an affective psychosis with depressive features; significant organic impairment was present. He exhibited no psychosis at the time of testing, but his reality testing showed a propensity to deteriorate under minor stresses. Schizotypal personality features were suggested.

Neuropsychological testing. The neuropsychologist elicited a history of head trauma at age 6 years when Ruben fell from the monkey bars at school; Ruben did not lose consciousness. Ruben’s speech and language were remarkable for problems of syntax, grammar, word usage, and content organization. He used the word “thing” when he did not know the correct name for something or substituted a less accurate term (e.g., he called lightbulb filaments “needles”). Ruben’s expressive language suggested occasional loosening of the thought processes secondary to tangential thinking. His receptive language also appeared impaired. Ruben frequently did not understand instructions and questions. For example, when asked how many things make a dozen, he replied “eggs.” Ruben appeared to have difficulty remembering previously attempted combinations when using a trial-and-error approach. He lost points on timed tasks because of task behavior (e.g., stopping to rub his forehead), and he appeared overly concerned with noncritical aspects of his performance (e.g., perfectly lining up cards on a timed sequencing task).
Language. Ruben's language skills were generally impaired. His sentence construction was below average. His overall verbal abstraction and expressive skills were within the intellectually deficient range, and his receptive vocabulary was below expectations based on age.

Attention and memory. Significant auditory and visuoperceptual deficits interfered with Ruben's concentration and encoding into memory. Ruben persisted at tasks; however, his distractibility score on the WISC-III was in the intellectually deficient range, reflecting his perceptual processing problems. Ruben's immediate recall of digits was substantially below average, and his immediate recall of sentences was in the second percentile. His delayed recall for a story was below the first percentile; however, the difference between Ruben's immediate and delayed memory for the story was minimal, indicating a problem with encoding rather than with retrieval. Ruben's learning and recall for a word list was also below expectations; he did not appear to use organizational strategies to enhance learning. This pattern of performance further indicated encoding problems. Ruben's short-term memory for spatial coordinates was impaired. His visual reproduction memory, as assessed by drawing geometric designs, was in the ninth percentile for immediate reproduction.

Executive functions. Ruben's executive functions were mildly impaired. He had some difficulty maintaining a cognitive set and generating new strategies when needed. His cognitive flexibility was mildly impaired.

Diagnostic impression. In summary, Ruben's memory difficulties were more related to encoding difficulties secondary to attention-concentration deficits. Ruben also had broad language and cognitive impairments. These neuropsychological disorders were probably related to impairment of cell migration and other disturbances during cortical embryogenesis.

Although problems of retrieval are a common cause of memory difficulties, deficits of encoding need to be ruled out in children who demonstrate memory impairments. Ruben is a case in point (see also the case of Frances in "Interviewing Children With Learning Disabilities and Other Neuropsychiatric Deficits" earlier in this chapter).

Antisocial Behavior

Several studies have related antisocial behavior to low serotonin levels, high testosterone, and low epinephrine. Low arousal is related to antisocial behavior, and sensation seeking is conceived as a means to increase arousal to a normal or optimal level (fearless individuals such as bomb disposal experts have particularly low heart rate levels and reactivity). Lack of fear of socializing
punishment in early childhood may contribute to disturbed fear conditioning and lack of conscience development (Popma and Vermeiren 2008).

Low heart rate is the most frequently replicated biological correlate of antisocial behavior in children and adolescents. Low heart rate predicts antisocial behavior. One study showed that the resting heart rate as early as age 3 years related to aggressive behavior at age 11 years (Popma and Vermeiren 2008). Social factors also play a role. Boys with low heart rate were more likely to become violent adult offenders if they had poor relationships with their parents and if they came from a large family. Also, boys with low heart rate were more likely to be rated as aggressive by teachers if their mother was a teenager, if they came from a low socioeconomic background, and if they were separated from the parent by age 10 (Popma and Vermeiren 2008).

The psychophysiological response patterns among aggressive girls with conduct problems are dissimilar from those of aggressive boys with conduct problems. Conduct disorder behaviors in females, compared with males, may be driven by stronger socioenvironmental influences (Beauchaine et al. 2008).

Lack of empathy response to the suffering of others is related to antisocial behavior. This deficit appears to reflect structural and functional deficits in neural circuits, such as the amygdala and the anterior insular cortex, that are involved in the recognition of emotional distress in other people. A structural study in adolescents showed a significant reduction in gray matter in bilateral anterior insular cortex and left amygdala in subjects with conduct disorder. Furthermore, the orbitofrontal cortex and the anterior cingulate cortex seem to be involved in the regulation of emotional behavior (Popma and Vermeiren 2008). Amygdalar dysfunction may be a key neurodevelopmental etiological factor in understanding callous-unemotional traits, and callous-unemotional symptom severity may reflect reduced connectivity between the amygdala and the ventromedial prefrontal cortex (Dolan 2008).

Blazei et al. (2008) reported strong evidence for the transmission of antisocial behavior from father to child. In both preadolescence and late adolescence, a father’s antisociality significantly predicted all measures of a child’s externalizing behaviors. The presence of an antisocial father in the child-rearing environment had a particularly detrimental role on a child’s antisociality in late adolescence, whereas the correlation was week during preadolescence. When the father was not present for most of the child’s life, no association
was found between his antisociality and the child’s antisocial behavior; how-
ever, when the father was present for most of the child’s life, a strong positive
association was found between father’s and child’s antisociality, suggesting
that the transmission of antisocial behavior from father to son is not entirely
genetic. The study only explained 11% of the variance at age 11 and 21% of
the variance at age 17, leaving 79%–89% of the variance unexplained (Blazei
et al. 2008).

**Impulse Control Difficulties**

Many children with neuropsychological deficits demonstrate impulsive be-
haviors and a low tolerance for frustration. They become readily aggressive
when things do not go their way; they demand immediate gratification and
are intolerant of postponement of any of their wants. When not gratified,
they throw tantrums or lose control. The extent and duration of the tantrums
or the length of the dyscontrol depends on the child’s capacity to modulate
dysphoric states. Because of their aggressive behavior and lack of other social-
interpersonal skills (e.g., sharing, empathy, reciprocity), these children have
problems making and maintaining long-term friendships.

Impulsive behaviors reflect deficits in executive functions, and they may
be a consequence of disinhibition (secondary to brain impairment). These
children show no sense of propriety or judgment regarding sexual, aggressive,
or appropriate social behaviors. Impulsive behavior is common in children
who have ADHD, conduct disorder, or psychotic disorders. Impulsiveness is
also a prominent feature of bipolar disorders, particularly mania.

**Mood and Affect Dysregulation**

Impairments in the expression, stability, and appropriateness of affect are
common disturbances in neuropsychiatric patients. Moria (an abnormal ten-
dency to joke), apathy, and brain-stem emotional lability are several examples
of well-known adult emotional disturbances that are associated with specific
neuropsychological or neuroanatomical impairments.

Depression and mania can be secondary to brain disorders (see Note 6).
Explosive or blind rage in great disproportion to the eliciting situation is a
common complication after lesions of the frontal or temporal lobes. Damage
to the medial aspects of the frontal lobes renders the person incapable of ini-
tiating even primitive behaviors, such as getting out of bed or eating; the person also becomes devoid of affect or emotional responsivity. Even mild damage to this region produces a loss of spontaneity and creativity, accompanied by flattening of affect; these symptoms may be misinterpreted as depression by well-meaning but uninformed psychotherapists (Bennet et al. 1997).

**Bipolar Disorder**

Children with bipolar disorder show significant neurocognitive impairment in areas of attention, working memory, verbal memory, and executive function (Pavuluri and Bogarapu 2008; see Note 7). The neurocognitive deficits are present during the acute state and remain during remission. Cognitive flexibility is greatly impaired in children with narrow-phenotype bipolar disorder. Children with bipolar disorder also display social cognitive deficits in facial emotion recognition and emotional processing. Youth with bipolar disorder were particularly prone to misread peers’ but not adults’ expressions of happiness, sadness, or fearfulness as being angry (Pavuluri and Bogarapu 2008). Children of mothers with bipolar disorder, when compared with children of mothers with major depressive disorder and psychiatrically healthy controls, demonstrated impairment in executive function and selective deficits in spatial memory and attention (Klimes-Dougan et al. 2006). Children of mothers with bipolar disorder differed from psychiatrically healthy controls in that they had a greater number of ADHD symptoms and depression, as well as lower IQ scores. Deficits are unrelated to the presence of manic or depressive symptomatology (Klimes-Dougan et al. 2006). Neuropsychological deficits may be a trait factor (Klimes-Dougan et al. 2006).

In a study by Brotman et al. (2008), children at risk for bipolar disorder (i.e., those with a parent or a sibling with the illness) and children with confirmed bipolar disorder made more errors than control subjects when identifying emotions on children’s and adults’ faces. The authors concluded that deficits in facial emotion labeling may be a risk marker for bipolar disorder.

**Depression**

Of high relevance in the expression of depression are a variety of psychosocial factors. The inner and outer stability of the child’s role model is influenced by that person’s chronic history of medical or psychiatric illnesses, including substance abuse or history of alcohol abuse, anxiety disorders, psychosis, and per-
sonality disorders. In addition, intrafamilial interactions and communication is important in the development of affective disorders. Emotional and physical deprivation, physical and sexual abuse, parental divorce, disharmonic communication in the family, sibling density, and family stresses such as change of employment, migration, and poverty increase the risk of depression. Personality factors such as emotional instability, interpersonal dependency, and aggressiveness indicate a high risk for depression (Bark and Resch 2008). All of these negative factors increase the allostatic load (Kapczinski et al. 2008). A traumatic experience in early childhood produces an increased risk of a depressive syndrome and an increased risk of suicide at a later stage of development (Bark and Resch 2008). The highest rate of depression occurs in traumatized children without social support and with S polymorphism rather than in individuals with LL genotype (Bark and Resch 2008). An association exists between the short allele and the hyperactivity of the amygdala, as well as between the hippocampus and the stimuli of anxiety (Bark and Resch 2008). Children have a high risk of a major depressive episode if they have poor or unreliable psychosocial support, in addition to a high number of mistreatments. The risk is higher if the amygdala is high in response to adverse stimuli and a high release of adrenocorticotropic hormone occurs as a reaction to experiences of separation (Bark and Resch 2008).

Regarding mood disorders in adults, depression is most common in disorders that produce dysfunction of the left frontal lobe, the temporal lobes, and the left caudate nucleus (Cummings 1995a). Most of the focal lesions that produce mania involve the right hemisphere: the inferior frontal lobe, the temporobasal region, or the thalamic-perithalamic areas. Degenerative and infectious illnesses that affect the frontal lobes or frontal-subcortical systems are also associated with mania (Cummings 1995a). Analogous lesions and symptom expression in children await substantiation.

Depressive symptoms are frequent precursors of or a common trait at the beginning of adolescent schizophrenia. About 20% of adolescent schizophrenia cases are preceded by a depressive episode (Remschmidt 2008).

Anxiety

Early manifestations of anxiety are conceptualized through the presence of a temperamental trait called behavioral inhibition. Behavioral inhibition refers to the inherent tendency in young toddlers and children to display withdrawal
and autonomic arousal in the face of novel situations and unfamiliar persons. Behavioral inhibition is a well-known precursor of later anxiety and is a rather specific antecedent of social phobia. When toddlers with behavioral inhibition are followed over time, they develop separation anxiety, performance anxiety, and an increase of social anxiety by adolescence. In studies of children at high risk, agoraphobia/panic in the parents was associated with the same disorder in children, and major depression in parents increased the risk for social phobia in children. Parents’ panic and depression were also associated with increased risk for separation anxiety disorder and anxiety disorders in children. An important realization is that a substantial number of at-risk children will not develop anxiety disorders in adulthood, whereas another group will develop mood disorders in adulthood (Grados 2008a). Threats of smothering and smothering sensations are associated with panic disorder in adults and anxiety in children. This physiological reflex is more common in separation anxiety disorder than in social phobia. A recent study of high-risk children demonstrated that children with early separation anxiety disorder led to specific phobias, agoraphobia, panic disorder, and major depression, whereas early agoraphobia led to generalized anxiety disorder (Grados 2008a).

Fear conditioning is a basic underlying mechanism in pathological anxiety. A conditional fear response may develop to a neutral conditioned stimulus. The basolateral complex and the central nucleus of the amygdala play a role in the generation and perpetuation of a conditional fear response (Grados 2008a). The orbitofrontal cortex is likely part of the neural circuitry that underlies the manifestations of anxiety in children and adolescents. The insula plays an important role in the process of body orientation and subjective emotional experience and may play a role in processing visceral states important for feelings and emotions (Grados 2008a). Hippocampal structures appear to play a central role in the contextual modulation of the acquisition of conditioned fear and of its renewal or reinstatement following extinction (Grados 2008a).

To encompass the range of anxiety reactions in children, Grados (2008a) described three processes: attentional systems, threat appraisal, and learning. For the pathological anxiety response sequence to become established, an initial vigilant-monitoring tendency (automatic reactivity) needs to occur, determining a lower threshold for the appraisal of the threat. The attentional bias toward threatening stimuli occurs automatically, with little regard to the organismic conscious goals. Most studies that associate measures of threat ap-
praisal to clinical anxiety in both adults and children find that anxious subjects have a lower threshold for classifying stimuli as dangerous (Grados 2008a). Learning influences anxiety by adapting the organism to repeated content so that threat is anticipated and neutral stimuli are perceived as dangerous. Conflict monitoring, ascribed to the anterior cingulate cortex, may play a role in adapting to future threatening stimuli so that increasing conflict augments performance monitoring. In this respect, error-related negativity amplitude measures are increased in the anterior cingulate in children with anxiety disorders. These findings support the notion that a stable general hypersensitivity to environmental stimuli in children with behavioral inhibition exists in the form of an enhanced reactivity of the fear circuitry of the brain to novel stimuli (Grados 2008a).

Elevated level of corticotrophin-releasing hormone in early age may be involved in the reduction of hippocampal volume found in early trauma-related posttraumatic stress disorder. This is not a consistent finding—other studies have demonstrated that patients with posttraumatic stress disorder show small intracranial volumes, cerebral structures, and corpus callosum, but no differences in the hippocampus or the amygdala (Monk and Pine 2009). Alterations in the circuit involving the amygdala, stria terminalis, and the hypothalamic-pituitary-adrenal axis are implicated in the fear response and in the elicitation of anxiety symptoms. On the other hand, anxiety is related to difficulties of disengaging attention from threatening stimuli; thus, children’s amygdala activation does not appear to discriminate between fearful and neutral facial expressions. Patients with generalized anxiety disorder display enhanced activation in the ventrolateral prefrontal cortex, and adolescents with generalized anxiety disorder and social phobia show enhanced engagement of the amygdala when viewing negative-valence face emotion photographs, and rate experiencing level of fear. This enhancement is also observed in the medial and ventral areas of the prefrontal cortex when attention is directed toward experienced levels of fear (Monk and Pine 2009).

**Aggressive Behavior**

Aggressive behaviors may have a neurological cause when 1) the patient shows personality change and dyscontrol not shown prior to the event; 2) the individual’s aggressive behavior is extreme in intensity and frequency; or 3) the
patient’s rage, violence, or destructive behaviors are unprovoked. Sometimes, aggressive patients have a history of or indication of brain injury (e.g., children who have been physically abused may have sustained a brain injury). More than 2,000 children sustain hemispheric damage every year as result of physical abuse. If the patient is remorseful and expresses disbelief about the loss of control, a neurological cause is likely. Although complex partial seizures are frequently implicated in intermittent aggressive dyscontrol, limited evidence is available to support this proposition.

Posttraumatic stress disorder, childhood bipolar disorder, borderline personality disorder, and intermittent explosive disorder are associated with an increased risk for reactive aggression, and disorders associated with reactive aggression are also associated with a dysfunction of the frontal systems involved with affect regulation. There are four systems that allow the control of emotional responding and, consequently, reactive aggression: 1) frontal cortex, via excitatory projections on inhibitory interneurons within the amygdala; 2) attentional manipulation of emotional responses; 3) detection of reinforcement of contingency changes mediated by the ventromedial prefrontal cortex; and 4) social response reversal mediated by the ventrolateral and other regions of the prefrontal cortices (Blair 2009).

Social and Interpersonal Difficulties

Some children have selective deficits in social behavior secondary to an inability to process and understand affective cues or nonverbal behavior. These deficits produce the so-called social and emotional learning disabilities (Voeller 1997). Children with receptive aprosody cannot read affect or other nonverbal cues in social contexts and thus do not respond appropriately in social situations. Children with expressive aprosody are unable to express emotion concordant with the meaning they want to convey or the social circumstances in which they find themselves. These children also have difficulties understanding jokes and metaphorical language.

Children with affective aprosody may have problems with the motor programming of affective gesturing and, as a result, exhibit an emotional flatness, robotic speech, and an array of atypical social behaviors (Voeller 1997). They may be inappropriately affectionate and “sticky.” Their lack of normal affective expression, their gaze disturbances, their tendency to violate social space,
and their “stickiness” all contribute to their oddness. These children likely do not understand the perspective of others and are apt to make disastrous social faux pas (Voeller 1997). In adults, these deficits frequently represent non-dominant hemispheric dysfunction. The situation in the developing brain may not be as straightforward. These deficits may be dissociated from other academic and neuropsychological deficits associated with right-hemisphere impairments.

Psychosis

Psychotic symptoms are commonly observed in child and adolescent psychiatric practice. A variety of hallucinatory and delusional symptoms are caused by demonstrable neurological dysfunctions. Temporal lobe epilepsy (complex partial symptomatology), although elusive in its detection, must be considered in the differential diagnosis of psychotic disorders. M.A. Taylor et al. (1987) stressed this issue in adult psychiatry: “Even in the absence of a classic epileptic picture and course, temporal lobe disease should be considered in the differential diagnosis of psychosis” (p. 10). This is equally true in the differential diagnosis of psychosis in children and adolescents (see the case examples on Ralph in Chapter 7, “Documenting the Examination Using the AMSIT”; Myra in Chapter 8, “Evaluation of Internalizing Symptoms”; and Ricardo in "Specific Neuropsychiatric Symptoms," earlier in this chapter). Rick’s and Troy’s case examples, also in Chapter 8, involve a variety of neuropsychological deficits. See also Abe’s case example in "Specific Neuropsychiatric Symptoms," earlier in this chapter, for a connection between temporal lobe injury and psychosis.

When performing the perception portion of the mental status examination (see Chapter 7, “Documenting the Examination Using the AMSIT”), the examiner should go beyond the customary questions regarding the presence of auditory and visual hallucinations and inquire about the presence of olfactory, gustatory, haptic, sensory, somatic, and other perceptual disturbances (e.g., out-of-body experiences, derealization, premonitions, déjà vu, jamais vu) and delusional symptoms.

Remschmidt (2008) recommended multiple sources to validate the diagnosis of schizophrenia, recalled using the acronym PLASTIC: Prospective, Longitudinal, All Source, Treatment, Impairment, and Clinical presentation. When considering the clinical presentation of very early onset schizophrenia
or early onset schizophrenia, Remschmidt recommended a dimensional approach that attends to the following areas:

- **Cognitive symptoms**: distortions of thinking, delusions, hallucinations, thought distortions (thought insertion, breaks and interpolation in the train of thought, thought echo, incoherent or vague thinking).
- **Delusions**: ideas of reference, persecutory beliefs, bodily changes, delusions of control, and others. Systematized delusions are uncommon in childhood but become more frequent in adolescence.
- **Hallucinations**: threatening voices, command hallucinations, hallucinations without a verbal structure (humming, laughing, or whistling). Auditory hallucinations are by far the most frequent. Visual hallucinations are more common below age 13. They are also common in intoxicaions/delirium.
- **Emotional issues and changes in social functioning**: blunted affect, mood disturbances (irritability, fearfulness, and suspicion), negative symptoms (apathy, paucity of speech), or incongruity of emotional responses resulting in social withdrawal and lowering of social performance. Positive and negative symptoms may be present years before overt manifestations of the disorder.
- **Disturbances of speech and language**: paucity of speech or logorrhea, perseverations, speech stereotypes, echolalia and phonographism, neologisms.
- **Motor disturbances**: clumsiness, motor dysharmony, strange postures, stupor or catatonia, bizarre movements or motor stereotypes (finger stereotypes), compulsive acts or rituals.

According to Remschmidt (2008), various disorders should be considered in the differential diagnosis: autism, disintegrative disorder, multiple complex developmental disorder, multiple developmental impairment, affective psychosis (psychotic depression, bipolar disorder), Asperger’s syndrome, drug-induced psychosis, and organic brain disorders. Remschmidt’s constructs of multiple complex developmental disorder and multiple developmental impairment appear to be similar to the concepts of pervasive developmental disorder and schizophrenia, respectively. About 20% of patients with multiple complex developmental disorder develop schizophrenia later in life (Remschmidt 2008).
Cummings (1995a) implicated the limbic system and the temporal lobes in some delusional disorders in adults: “Although lesions associated with delusions occur in diverse brain locations, they commonly involve the limbic system. Lesions of the temporal lobes have the highest frequency of associated delusional disorders, and bilateral lesions are more likely to produce delusions than unilateral disorders” (p. 124). For a summary of the structural abnormalities in childhood and adolescent schizophrenia as described by Remschmidt (2008), see Table 11–8.

### Autistic Behavior

Autistic disorder, or autism, is one of the most severe psychiatric disturbances and a particularly dehumanizing neuropsychiatric condition. Autism is characterized by 1) a lack of communication language, 2) a lack of interpersonal relatedness, 3) an unusual preoccupation with inanimate objects, and 4) a need for sameness. Cook and Leventhal (1992) asserted that the abnormal development of social reciprocity is one of the most striking features of autism and that the social, communicative, imaginative, and cognitive elements of the disorder are inextricably linked. Autism is usually accompanied by a variety of profound neurodevelopmental problems. Brain anomalies and brain dysfunction(s) are considered the main cause of this perplexing syndrome. Kinsbourne and Wood (2006) stated that autism spectrum disorders are a behaviorally defined set of developmental disorders that result from diverse biological, genetic, and ecogenetic factors. Research in autism spectrum disorders is complicated by the broad heterogeneity in clinical and biological characteristics. Mental retardation is present in about 80% of patients with autism, and neurological findings are present in about 60%–70% of autistic children. By adolescence, up to 30% of autistic children develop a seizure disorder. Autism is associated with conditions such as phenylketonuria, fragile X syndrome, varicella infection in utero, toxoplasmosis, cytomegalovirus infection, and many other identifiable illnesses.

Controversy exists regarding the diagnostic differences between high-functioning autism and Asperger’s syndrome. Individuals with Asperger’s syndrome outperformed individuals with high-functioning autism on tests of comprehension and expressive language ability, but no differences were found in executive functioning (cognitive flexibility and planning; Toth and King
Subjects with Asperger’s syndrome had better imaginative and creative abilities and more circumscribed interests. Subjects with high-functioning autism showed a greater insistence for sameness. Asperger’s syndrome and high-functioning autism appear to be on the same spectrum, differing primarily in severity of developmental course. Differences between the two disorders largely disappear by adolescence, indicating that the prognosis for high-functioning autism may be better than previously thought. However, recent studies show that subjects with Asperger’s syndrome tend to be active but odd in social presentation, whereas those with autism are aloof and passive, supporting the view that the social impairment of the two groups differs both quantitatively (in severity) and qualitatively (Toth and King 2008).

The discovery of the mirror neurons (localized in the inferior parietal lobe and inferior frontal lobe—areas related to speech, theory of mind, and imitation)—has placed autism’s characteristic deficits of empathy and social reciprocity on a new neurobiological and evolutionary foundation. Mirror neurons are a group of cortical neurons that discharge when one executes a movement, as well as when one observes another individual’s actions. The en-

---

**Table 11–8. Structural brain abnormalities in very early onset and early onset schizophrenia**

Patients with childhood onset schizophrenia have smaller total brain volume, especially of the left hemisphere in males. A reduction of left hemisphere volume in males and a decrease of the rightward hemispheric asymmetry in females correlate with decreased IQ.

Siblings of patients with childhood onset schizophrenia have smaller total cerebral volume and smaller total frontal and parietal gray matter volumes.

Minor physical anomalies are associated with ventricular enlargement and may be an indicator of early prenatal central nervous system developmental pathology.

In childhood onset schizophrenia, a progressive loss of cerebellar volume occurs during adolescence.

Disorder-specific abnormalities in childhood onset schizophrenia include smaller brains, smaller amygdala and thalamus, and larger caudate.

Progressive brain volume loss is correlated with premorbid impairment and baseline symptom severity.

Gyrification abnormalities are more common in childhood onset schizophrenia than in controls.

Source. Adapted from Remschmidt 2008.

2008)). Subjects with Asperger’s syndrome had better imaginative and creative abilities and more circumscribed interests. Subjects with high-functioning autism showed a greater insistence for sameness. Asperger’s syndrome and high-functioning autism appear to be on the same spectrum, differing primarily in severity of developmental course. Differences between the two disorders largely disappear by adolescence, indicating that the prognosis for high-functioning autism may be better than previously thought. However, recent studies show that subjects with Asperger’s syndrome tend to be active but odd in social presentation, whereas those with autism are aloof and passive, supporting the view that the social impairment of the two groups differs both quantitatively (in severity) and qualitatively (Toth and King 2008).

The discovery of the mirror neurons (localized in the inferior parietal lobe and inferior frontal lobe—areas related to speech, theory of mind, and imitation)—has placed autism’s characteristic deficits of empathy and social reciprocity on a new neurobiological and evolutionary foundation. Mirror neurons are a group of cortical neurons that discharge when one executes a movement, as well as when one observes another individual’s actions. The en-
engagement of these cells is thought to reflect an understanding of others’ intentions. Abnormalities in the development of mirror neurons have been proposed as the cause of autism (Moura et al. 2008).

Evolutionary theory posits the development of empathy as one of the most important abilities developed by human beings; empathic relationships strengthen interpersonal connections and permit more complex social organizations (Moura et al. 2008). The social brain is formed by the amygdala, which contributes to the expression of normal socioemotional behaviors, and other temporal regions (Moura et al. 2008). Autism, therefore, is a disorder of the social brain. Consistent with this theory, as well as the observation of an increase of brain mass in individuals with autism, is the finding of increased neuronal packing density in the hippocampus, subiculum, entorhinal cortex, medial septal nuclei, and several amygdalar nuclei. Cerebellar abnormalities are also involved in a number of autistic features (Moura et al. 2008).

**Obsessive-Compulsive Disorder**

Obsessive-compulsive disorder (OCD) is not a unitary disorder; a number of studies have indicated that OCD is a heterogeneous disorder with many possible subgroups. Epidemiological studies reveal that OCD has two peaks of incidence: one peak in childhood with male predominance and a second peak in early adulthood with female predominance (Rosario et al. 2008). The course of OCD is also heterogeneous. Onset may be insidious with a chronic waxing and waning course, and although symptoms may change with time, they keep an enduring thematic consistency (Rosario et al. 2008).

OCD in childhood is possibly more biologically driven or more genetic than its adult onset form (see Note 8). The four-factor categorization—contamination/cleaning, aggressive/sexual/religious obsession, ordering/symmetry, and hoarding—is similar to that in adults, except that hoarding is comingled with checking symptoms in children. Hoarding is correlated with OCD measures of slowness, responsibility, and indecisiveness; doubt and higher depression severity are more common in girls (Grados 2008b; see Note 9.)

Developmentally, most children and adolescents engage in a significant number of ritualistic, repetitive, and compulsive-like activities. For example, young children need to repeat certain behaviors until the behaviors feel “just
right,” and the children often feel uncomfortable when these behaviors are not performed the same way every time. During their school years, children commonly collect items (e.g., coins, stamps, pens). For many adolescents, grooming rituals take a long time. It is not clear how these normal obsessive-compulsive behaviors relate to OCD (Rosario et al. 2008).

Research indicates that the earlier the onset of obsessive-compulsive symptoms in probands, the higher the morbid risk for first-degree family members to develop obsessive-compulsive symptoms, OCD, tics, or Tourette’s disorder (Rosario et al. 2008). Family aggregation of OCD was largely concentrated among families of early onset probands with a very high comorbid risk (Rosario et al. 2008).

Clinically, children and adolescents show higher rates of aggressive and harm obsessions than adults, but they have a lower frequency of sexual obsessions. Religious obsessions are more frequent in adolescents than in children and younger adults. Hoarding compulsions were the only symptoms that were more frequent in children and adolescents. Also common in children and adolescents were the fears of losing one’s parents and the need to perform rituals, such as reassurance seeking and asking the same questions repeatedly. Younger children are more likely to suffer from compulsions than from obsessions and to display higher frequencies of repetition, hoarding, ticlike compulsions, and sensory phenomena. The compulsions commonly precede the obsessions by about 2 years. In patients with late onset OCD, obsessions and compulsions start at the same time (Rosario et al. 2008).

Sensory phenomena are defined as uncomfortable, disturbing sensations, perceptions, feelings, or urges that precede or accompany repetitive behaviors (compulsions or tics). Patients with OCD feel driven to repeat the compulsions until they experience a sense of relief from the uncomfortable sensations. The sensory phenomena could be physical or mental (sensations in the skin, the “just-right” perception, feelings of incompleteness, etc.). Evaluation of the sensory phenomena is relevant because some studies report that patients with early onset and tic-related OCD have a higher frequency of sensory phenomena and that these symptoms might cause more distress than do compulsions for these patients (Rosario et al. 2008).

The following case example illustrates the development of OCD in a child.
Donald, a 12-year-old white boy, was evaluated for possible ADHD and for behaviors that included stealing, lying, and cross-dressing. He had also voiced suicidal thoughts but had made no suicide attempts. Learning disorders and expressive language difficulties were identified.

Donald was an adopted child. He lived with his mother and brother, 4 years older, who was his parents’ natural child. Donald’s parents had been divorced for 7 years prior to the evaluation; they maintained a hostile relationship. Each parent spoke badly about the other in front of the children. Donald’s mother had been sexually abused as a child and had a mood disorder. She was in poor health and at the time of the evaluation was receiving medical, psychiatric, and psychotherapeutic treatment. She was frustrated with the uncertainties of Donald’s diagnosis.

Donald had been mainstreamed at school. Teachers had made no serious complaints about his behavior in the classroom. At home, however, Donald created a great deal of distress: he procrastinated about his homework and chores; irritated his brother by getting into his “things”; and frustrated his mother by his persistent argumentative, oppositional, and defiant behavior. Donald also had a history of fascination with fires.

The mental status examination revealed a small, meek, nonspontaneous male. He had an air of immaturity. He displayed frequent tics in the upper left side of his face. His speech was marked by significant hesitation and a considerable degree of stuttering. The examiner observed occasional grunting and throat clearing. Donald’s mood appeared mildly depressed. His affect was appropriate but constricted. There was no evidence of thought disorder or of any perceptual disorder. Donald denied suicidal or homicidal ideation. He indicated no concerns about his cross-dressing. His sensorium was intact, and he was of average intelligence. He displayed no insight into his problems and demonstrated marked passivity about what was going on with him and around him.

One year after the initial evaluation, Donald’s mother reported that he was becoming progressively more preoccupied with sex. She suspected that he masturbated frequently using stuffed animals. There were indications that he used the dolls for his sexual practices because his mother frequently found the dolls with openings that corresponded to the genital areas. On more than one occasion, Donald’s brother and mother had seen him wearing feminine undergarments. Donald’s mother often could not find some of her pantyhose, panties, brassieres, or shoes. Furthermore, when trying on her shoes, she would sometimes notice that they were stretched out. She suspected that Donald had worn them.

When Donald’s mother received her latest telephone and credit card bills, she realized that Donald had charged thousands of dollars in calls to various sex lines. Donald seemed obsessed with sex. At this point, the examiner sus-
pected OCD. Donald was experiencing powerful sexual compulsions. He started taking fluoxetine with very positive response; his sexual preoccupation lessened, and his compulsion to call the sex lines decreased.

In general, OCD accrues significant comorbidity both in breadth and in severity. Common associated conditions include mood disorders, anxiety disorders, oppositional defiant disorder, intermittent explosive disorder, ADHD, and psychotic disorders. Rosario et al. (2008) reported that of children and adolescents with OCD, 60%–80% had a comorbid disorder: 51% had ADHD, 47% had oppositional defiant disorder, and 5% had pervasive developmental disorder. ADHD was more common in boys (53%) than in girls (24%). Non-OCD comorbid anxiety disorders were common in all age groups but occurred more frequently in children (56%) and adolescents (35%) than in adults (17%). However, major depressive rates were higher in adults (78%) than in adolescents (62%) and children (39%). Rates of tics in children ranged from 20% to 60%, compared with 9% in adolescents and 6% in adults; 48% of subjects with early onset OCD presented with tics or Tourette’s syndrome, compared with 10% of subjects with late onset OCD. A tic-related OCD subgroup has been identified: higher risk of transmission of both OCD, subclinical OCD and tics among first-degree relatives of OCD probands, higher male frequency, early onset, and a different treatment response (Rosario et al. 2008). OCD occurs in conjunction with diseases of the basal ganglia. The caudate nucleus or the globus pallidus may be involved. In adults, most disorders that produce OCD symptoms affect the basal ganglia bilaterally (Cummings 1995a).

Tourette’s disorder is associated with OCD in 20%–30% of cases. Besides group A beta hemolytic streptococcus (GABHS), other infectious processes are involved in the etiology of Tourette’s disorder, including Lyme disease and Mycoplasma pneumoniae. Family studies show that first-degree relatives of children with pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections (PANDAS) have higher rates of Tourette’s disorder and OCD, as well as an expanded expression of a trait marker for susceptibility to rheumatic fever, the monoclonal antibody D8/17. Having multiple infections with GABHS during 1 year was associated with an increase of Tourette’s disorder, but the data concerning antibiotic prophylaxis have not been compelling (Roessner and Rothenberger 2008). Two longitu-
neurological studies failed to show an association between GABHS infections and exacerbations of tics or OCD. The presence of antistreptococcal and antineuronal antibodies is inconsistent. However, immunological mechanisms seem to be involved: proinflammatory cytokines (tumor necrosis factor-α and interleukin-12) are elevated and regulatory T cells are decreased at baseline and during exacerbations (Roessner and Rothenberger 2008).

In a large sample of children and adults with Tourette's disorder, ferritin and serum iron were significantly lower but still within the normal range (Roessner and Rothenberger 2008). Ferritin correlated positively with volumes of the sensorimotor, midtemporal, and subgenual cortices (Roessner and Rothenberger 2008). Lower iron stores appear to contribute to the hypoplasia of the caudate and putamen, increasing the vulnerability to developing or having more severe tics. Lower iron may also contribute to smaller cortical volumes, decreasing control of the tics. "In a group of treatment-naïve boys with [Tourette's disorder], volumetric MRI revealed significantly larger left thalamus in [Tourette's disorder] whereas no group difference was observed for the right thalamus. The boys with [Tourette's disorder] also showed a significant reduction in rightward asymmetry in thalamic volume compared with healthy subjects" (Rossner and Rothenberger, 2008, p. 107). Children with Tourette's disorder have an increase in the volume of the dorsal prefrontal, parieto-occipital, and inferior occipital cortices and a decrease in the volume of the premotor, orbitofrontal, and subgenual cortices (Roessner and Rothenberger 2008).

OCD in childhood is a severe condition that rarely responds to single treatments. OCD response to psychotropic medications is modest. Multidimensional treatments are a necessity.

**Paraphilia and Hypersexuality**

Regarding abnormal sexual behavior in adults, Cummings (1995a) indicated that paraphilias have been associated with frontal lobe disorders (e.g., frontal degeneration, multiple sclerosis), basal ganglia diseases (e.g., Huntington's disease, Tourette's disorder, or Parkinson's disease following treatment with dopaminergic agents), and epilepsy. Hypersexuality may be attributed to secondary mania, Klüver-Bucy syndrome, and septal lesions (Cummings 1995a). Similar neuroanatomical correlations in children need substantiation.
Notes

1. Gothelf (2007) described the following scenario:

A 15-year-old male is referred for a neuropsychiatric evaluation because of academic and behavioral problems at school. Psychiatric evaluation reveals that the adolescent presents with psychotic features and an indiscriminate, overfriendly approach to strangers. Upon neuropsychological evaluation, he exhibits deficits in working memory and in object recognition processes. Functional magnetic resonance (fMRI) evaluation reveals increased activation in the cingulate gyrus and dorsolateral prefrontal cortex during performance of a Go/NoGo task. There is also decreased activation in the region of the intraparietal sulcus when performing a two-dimensional puzzle task. Based in the multimodal assessment, the child psychiatrist suspects that variants of several genes including COMPT, PRODH, elastin, LIM domain kinase1 (LIMK1) are mediating the patient’s neuropsychiatric and neurocognitive deficits. Consequently, a blood sample is drawn and a molecular work-up reveals that the patient’s profile is consistent with the suspected high-risk genetic variants. Variations in the COMPT and PRODH genes explain the prefrontal cognitive deficits and psychotic symptoms, whereas variations in the LIMK1 explain the dorsal visual processing stream deficits and the overfriendly approach of the patient. The child psychiatrist presents the results of the clinical evaluation and laboratory tests to the patient and his family, and suggests medications that will regulate the activity of the COMPT enzyme and that will normalize the expression of the LIMK1 gene. (Gothelf 2007, p. xvii)

2. Denckla (1997) has reservations about the diagnostic validity of graphesthesia in children. She thinks this may be an inefficient test because little is known about the firmness of the association between mental image or visual memory of a letter, the name of the letter, and the dynamic-tactile experience of graphesthesia. The implication is that for these tests to be valid, a certain cognitive developmental level is required. Tactile sensory loss is common in children with cerebral palsy. Astereognosis and dysgraphesthesia are specific agnosia deficits observed in children with cerebral palsy. Denckla’s reservations about the validity of graphesthesia in children may also be applicable to related tests.

3. According to Harris (1995a), “Neuro-imaging technology attempts to correlate specific aspects of information processing with specific brain re-
regions. Structural imaging methods are used to link damage in particular brain regions with behavioral deficits; functional brain imaging investigates physiological changes associated with brain activity. Links to brain structure or physiology may validate neuropsychological assumptions for the developmental disorders” (p. 24).

4. Other findings in Frances:

**Cognitive testing.** Verbal test scores were below average; the highest was 8. Performance test scores were higher than the verbal scores. One subtest score was 9, whereas another was 13 (object assembly). These scores indicated that Frances’s abilities based on visuoperception and some forms of motor response were substantially better than were her language-based abilities. Because of the large discrepancy between Frances’s verbal and performance IQ scores, the full-scale IQ was not considered a meaningful descriptor of her cognitive abilities. Frances had below-average (borderline) scores on tasks requiring verbal comprehension, reasoning, and expression.

**Sensory-perceptual functions.** Mild difficulty in maintaining fixation during visual-field tests was revealed.

**Motor functions.** Moderate to severe bilateral impairments were noted.

5. Other findings in Ruben:

**Physical examination.** Ruben had multiple self-inflicted bruises on the right arm and right foot, plus an old irregular scar in the lateral aspect of the right arm, corresponding to a self-inflicted burn.

**Neurological screening.** Ruben was left handed; he exhibited marked right-left disorientation and dysnomia (e.g., he called a cross “two lines,” called a triangle “a rectangle,” and didn’t know the name of the diamond). This naming difficulty also reflected problems with abstract perception and thinking.

**Psychological testing.** Verbal tests scores were very poor; all were below 4 (10 is average). Performance test scores were below average, except object assembly, which was 11. Academic test scores were below third-grade level in reading, spelling, and arithmetic. Ruben’s reading performance met criteria for a diagnosis of a learning disability. His performance in spelling and arithmetic was substantially below expectations based on age and grade placement.
Neuropsychological testing. Ruben wore glasses throughout the testing. His fingernails showed signs of severe nail biting; otherwise, he was well groomed and appropriately dressed. When approached initially, Ruben was concerned he would receive an injection and said, “He is gonna kill me,” but he didn’t appear nervous or frightened. He willingly accompanied the examiner and was polite and cooperative throughout the test session. Ruben related to the examiner in a friendly and outgoing manner. Ruben’s sentence organization was somewhat poor, although he managed to communicate his meaning. For example, he defined a thief by saying, “A thief is he’s stealing stuff.” Word usage problems contributed to his difficulty organizing his verbalizations. For instance, when attempting to communicate that a boy in the story wanted to be a violinist, Ruben said, “He just wants to be a violin. He wants to be a musical instrument thing. He wants to learn, I guess.” Through such attempts to restate his thoughts, Ruben demonstrated awareness that his verbal communications were ineffective.

Although Ruben fidgeted and occasionally got out of his seat, he was able to sit and attend for long periods of time. His mood was cheerful and his affect congruent. Ruben’s approach to the testing was varied but generally systematic and efficient. He appeared to use analysis when solving visuoperceptual problems and worked systematically back and forth across rows when doing a target detection task.

Visuospatial skills. Evaluation of visuospatial skills revealed impairment of orientation judgment, spatial target detection, and visuomotor integration. Speed and accuracy for detecting spatial targets was below normal limits for all symbols except complex embedded figure. Performance on constructional tasks using paper and pencil revealed very poor preservation of the spatial elements of the designs; Ruben’s approach to this task was hurried and notably impulsive. Construction using puzzles and patterned blocks was within average range.

6. Permanent stress induces a long-term increase in glucocorticoid levels (hypercortisolism), leading to toxic effects on the pyramidal cell in the CA3 hippocampal region affecting dendritic arborization and the formation of dendritic spines. It also reduces the birth of new granular cell neurons in the adult hippocampus. These phenomena impair memory and cognitive functions. Patients with depression evidence a small decrease in
the volume of the hippocampus (Bark and Resch 2008). Early psychosocial stress, separation, and sexual abuse induce an increase in the levels of adrenocorticotropic hormone. Hyperactivity of the hypothalamic-pituitary-adrenal axis is influenced by corticotropin-releasing factor (Bark and Resch 2008). Neurotoxic effects also lead to a decrease in the neuroprotective peptides: brain-derived neurotrophic factor. There is evidence that antidepressants increase the hippocampal level of brain-derived neurotrophic factor regulated by the transcription factors cyclic adenosine monophosphate (cAMP) and cAMP response element-binding protein (Bark and Resch 2008).

Patients with major depression and psychosis show greater hippocampal and amygdalar volume reduction than do patients with major depression without psychosis (Keller et al. 2008). Smaller amygdalar volume may be a risk factor for future psychotic depression, and smaller hippocampal volumes seem to indicate a risk factor for stress-related psychopathology and therefore a greater likelihood of posttraumatic stress disorder (Keller et al. 2008).

7. Pavuluri and Bogarapu (2008) described three pathways associated with bipolar disorder: two anterior—the frontostriatal cognitive circuitry and the frontolimbic affective circuitry—and one posterior—the face response visual circuitry. The anterior circuits modulate affect and cognition, whereas the posterior regulates the emotional facet. The frontostriatal circuit proceeds from the dorsolateral prefrontal cortex and projects majorly into the anterior cingulate cortex with further relays into the basal ganglia, and vice versa. The frontolimbic circuit is composed of projections from the ventrolateral prefrontal cortex into the limbic areas of the amygdala, hippocampus, and cingulate and insular cortex. A significant amount of information from the anterior pathways is relayed into the thalamus, “the relay station.” The deployment of the affective circuitry shuts down the cognitive circuitry. The posterior pathway has its origins in the primary visual area and in the visual association areas. Different emotional and expressive submodalities are relayed by feed-forward projections through different lobes en route to the prefrontal cortex, with particular projections to the amygdala and the superior temporal sulcus. Deranged development and/or deviant inputs and outputs from these circuits, present in some patients with bipolar disorder, could be considered
as the neuroanatomical and neurophysiological basis for the dysfunctional disturbances in the affective, cognitive, and emotional areas common in this illness (Pavuluri and Bogarapu 2008).

8. Structural and functional neuroimaging studies in both pediatric and adult OCD subjects suggest a dysregulation of the fronto-cortical-striatal-thalamic circuitry (Rosario et al. 2008). Morphometric studies in children and adolescents with OCD show reduced striatal volumes. Volumetric abnormalities in the frontal and anterior cingulate cortices appear to be specific to the gray matter in pediatric patients with OCD, whereas both gray matter and white matter are affected in adult subjects with OCD. The anatomical findings are consistent with anterior cingulate hypermetabolism, demonstrated in neuroimaging studies. Functional neuroimaging studies suggest that the metabolism of the orbitofrontal cortex, anterior cingulate, and caudate nucleus is abnormal in both pediatric and adult patients. Growing evidence indicates that the dopamine system may be involved in the pathogenesis of OCD. OCD frequently occurs as a comorbid condition with Tourette’s disorder, Parkinson’s disease, and Huntington’s chorea, diseases in which dopaminergic neurons play an important role. Oxytocin might play an important role in late onset OCD; neuropeptides may also play a role. Extensive interactions have been identified in the brain between neuropeptidergic and monoaminergic systems (Rosario et al. 2008).

9. Recent factor analytic studies have reduced obsessive-compulsive symptoms to four fairly consistent and clinically meaningful symptom dimensions: contamination/cleaning, obsessions/checking, symmetry/ordering, and hoarding. Studies demonstrate that these dimensions are temporarily stable and correlate meaningfully with genetic, neuroimaging, and treatment response variables.

References


Grados MA: Two times four is four: OCD dimensions, classes and categories. J Am Acad Child Adolesc Psychiatry 47:731–733, 2008b


Lajiness-O’Neil R, Beaulieu I: Neuropsychological and psychoeducational testing, in Pediatric Neuropsychiatry. Edited by Coffey CE, Brumback RA. Philadelphia, PA, Lippincott Williams & Wilkins, 2006, pp 75–95


Recommended Readings


Lajiness-O’Neil R, Beautieu I: Neuropsychological and psychoeducational testing, in Pediatric Neuropsychiatry. Edited by Coffey CE, Brumback RA. Philadelphia, PA, Lippincott Williams & Wilkins, 2006, pp 75–95


Comprehensive Psychiatric Formulation

Key Points

• The comprehensive psychiatric formulation is an indispensable skill in clinical practice.
• The examiner should understand the concept of formulation and recognize common problems that are encountered in the formulating process.
• The psychiatric formulation helps the examiner reach diagnostic conclusions and understand the nature of psychosocial stressors.

The ultimate objectives of the diagnostic interview are the development of a psychiatric formulation and the creation of a comprehensive treatment plan. These involve determining a categorical diagnosis and understanding the nature of psychosocial stressors that influence psychopathology. The formulation process is an indispensable conceptual aid in the overall understanding of and treatment planning for psychiatric conditions in children and adolescents. Skills in comprehensive psychiatric formulation are fundamental in clinical practice. This chapter focuses on the psychosocial aspects of the psychiatric assessment.

Achenbach (2008) clearly explained that the diagnostic formulation involves the putting together of various kinds of information about a case into a comprehensive picture of the case. For children and adolescents, the information may include developmental history, family dynamics, physical liabil-
Psychiatric Interview of Children and Adolescents

Psychopharmacological interventions presented in Diagnostic and Statistical

ities, stressors, formal diagnosis, and prospects for change. In clinical practice, the diagnostic formulation may say more about the child’s needs and the indications for particular treatments than formal diagnosis does.

Child psychiatry is by definition a contextual enterprise. By necessity, the field is attentive to developmental issues and incorporates explanatory concepts related to psychological and interpersonal evolutions (its origins, vicissitudes, and conflicts) and the ecology in which these functions operate.

The formulation process is a deliberate conceptual organization of the interview data with the purpose of understanding and explaining the different perspectives of the child as a biological system, as a developing individual, as a person, as a member of a family, as a school member, and as a member of larger social systems (e.g., cultural and religious organizations). Formulations have an implicit philosophical grounding and are biased toward preferred points of view and therapeutic practices; because of these and the lack of a unifying language, formulations are constructed with conceptual preferences and according to academic traditions.

Kratochwill et al. (2008) explained the situation well:

Tremendous amounts of data have been accumulated concerning the origins, development, influences, and variations of human behavior. Nevertheless, the wealth of information has clearly not resulted in an integrated view of human performance. Indeed, the current state of knowledge generated from the various conceptual models has not only resulted in the lack of an integrated view of human functioning, but has yielded various conceptual positions that are diametrically opposed and has spawned debate in the evidence-based practice movement.….Because our understanding of human behavior is influenced by the basic assumptions concerning the “why” of behavior, assessment and treatment practices often become inextricably interwoven with the particular conceptual model of human functioning held by the psychologist [or psychiatrist]. (p. 13)

The formulation process is a baffling exercise for beginners in the field of child and adolescent psychiatry. This is due in part to a progressively widening schism between 1) the expectation—as espoused by a sound ethical practice—that clinicians should have a comprehensive understanding of the child and his or her family and 2) the pragmatics of contemporary practice, based primarily on the descriptive psychiatric pathology and the emphasis on psychopharmacological interventions presented in Diagnostic and Statistical
Manual of Mental Disorders, 4th Edition, Text Revision (DSM-IV-TR; American Psychiatric Association 2000). Even though the child psychiatrist may not be involved directly in providing individual or family therapies or other psychosocial interventions, he or she should have an overarching understanding of the patient’s case and should offer appropriate input or guidance when required by the clinical course.

Some biologically oriented child psychiatrists pay lip service to individual dynamic and systemic issues involved in child psychopathology. In this regard, Muller (2008) argued that the concept of mind has been diluted in the DSM-IV-TR classification system and that at the most extreme pole of reductionism, all psychopathology is explained as a result of a dysfunction or disease of the brain.

Many psychodynamically oriented child psychiatrists disregard hereditary, constitutional, and organic factors that contribute to the child’s dysfunction. A conceptual polarity also exists between individual- and family-oriented theorists. The former emphasize individual psychopathology with some disregard for family and other systemic factors; the latter overlook individual characteristics (i.e., temperamental, hereditary, constitutional, and developmental factors) and focus exclusively on family systems points of view. Fortunately, the family field has begun to incorporate developmental thinking in its theoretical concepts.

Advances in developmental psychopathology will force integration between and among these schisms. Research indicates, for instance, that children of depressed mothers are more likely to develop psychiatric illnesses, including depression, anxiety, and externalizing disorders (Gunlicks and Weissman 2008), and that improvements in parental depression from either medications or various forms of psychosocial therapies are positively correlated with child gains (i.e., reductions in psychopathology and improvements in the level of functioning; Hinshaw 2008).

In this chapter, I introduce guidelines that attempt to bridge the gap between descriptive psychiatry and the practice of psychosocial interventions. More specifically, I consider developmental, psychodynamic, and systemic conceptualizations to be important components of overall diagnostic assessment and treatment planning.
The child and adolescent psychiatric literature contains limited references to the topic of formulation. Anna Freud contributed greatly to the process of child and adolescent assessment. She developed the *metapsychological profile*, an exhaustive inventory of mind functioning from drive, structural, and ego perspectives. The recommendations based on such an evaluation focus specifically on psychoanalytic psychotherapy. Of particular importance, in the area of developmental assessment, is Anna Freud’s concept of developmental lines (Freud 1977, 1980). I discuss the relevance of these concepts later in this chapter (see also Rick’s case example in Chapter 8, “Evaluation of Internalizing Symptoms”).

According to Cohen (1979), “When that ‘special moment’ arrives which leads the clinician(s) to conclude that there are now enough objective data with which to formulate diagnostic judgments and make recommendations, then a careful and deliberate cognitive exercise must ensue” (pp. 633–634). Cohen added, “In order to formulate and to make recommendations, obviously, one does not need to know everything. Indeed a good part of the information collected may not necessarily be relevant to decision making and recommendation” (p. 634).

Cox (1994) defended the need for the formulation process and described its conceptual and therapeutic roles as follows: “A further process of diagnostic formulation is required to bring the qualities which are different and distinctive about the individual child and family. The formulation puts forward ideas and suggestions about which psychological mechanism might be operating, about underlying causes and precipitants of the disorder of this child, about factors leading to a continuation of the disorder and the potential strengths and ameliorating factors that could be used in formulating a treatment plan” (p. 26; italics added). This conceptualization dovetails with Henderson and Martin’s (2007) discussion of the four Ps: Predisposing factors render the child vulnerable to the presenting symptoms; Precipitating factors relate to eliciting or inciting factors of the presenting symptoms; Perpetuating factors favor endurance of the symptoms or condition; and Protective factors address strengths, resilience, and supports. The simplicity of this model’s mnemonic betrays the heuristic value of its concepts because this model, more than any
other, addresses head on the issues of the origin of pathology and symptom maintenance.

Cox (1994) stressed what the formulation should or should not be: “It's quite inadequate merely to collect a lot of facts in the hope that some sense will come of them when they're put together. Rather the clinician must be formulating hypotheses to be tested from the very first moment he [or she] meets the family. These hypotheses may concern family interactions or the nature of the child’s problems” (p. 26; italics added). He also recommended that the interview and observations be specifically tailored to the relevant issues in each child’s problems. He further advised that the interview should systematically cover a range of situations and difficulties.

Shapiro’s (1989) contribution to the conceptual aspects of the formulation is valuable because he attempted to integrate developmental psychoanalytic thinking with descriptive psychiatry. He reviewed the misconceptions applied to adult and child formulations. His comments regarding reservations about formulation included the idea that “the clinician will become too invested in the formulation to permit change” (p. 675). Shapiro also stated there’s a misconception that “a formulation is only useful for those who are planning to do a dynamic therapy with a child” (p. 675). He asserted that “dynamic understanding may guide the clinician towards other therapies as well” (p. 675). In creating a formulation, Shapiro stressed the importance of psychoanalytic developmental psychology, particularly the three subsystems of ego psychology, developmental lines, and separation-individuation theories. These points of view are of immense value in the developmental assessment component of a comprehensive formulation.

According to Harris (1995), “The clinical case formulation is not a list of difficulties but is a synthesis that describes the interplay and relative importance of various issues” (p. 15). He included biological and psychosocial considerations (e.g., psychodynamic, social, and phenomenological issues, and commentary on the protective factors) and connected them with the “developmental life tasks important for a child at this particular age” (p. 14).

Relevant to the child psychiatry field is Henderson and Martin’s (2007) discussion of the biopsychosocial model. This model is the best known and most accepted comprehensive conceptual explanatory model and the one that has gained application in a variety of medical fields: “Regardless of anatomical lesions, or clear psychological or social etiologies, this model insists that all
three [realms] be accounted for, and in doing so has been a powerful and successful model for physicians in all fields of medicine” (p. 378). However, the model does not guide the clinician regarding how to weigh or measure the relative contributions of each realm in any given patient.

Pruett (2007) issued a warning about conceptual dissections: “It...[is] extremely shortsighted to dissect out the child—even intellectually—from the family for diagnostic studies, economics of time, convenience of intervention or cost containment” (p. 2). Unfortunately, the DSM-IV-TR taxonomy does that to a very large extent. The same reservations could be expressed about dissecting the family from the social milieu and from its cultural environment.

**Theory of the Comprehensive Psychiatric Formulation Process**

The comprehensive psychiatric formulation deals with the integrative part of the child or adolescent psychiatric evaluation. The goal is to synthesize the collected information (e.g., referral information, patient and family interviews, testing) to reach an integrated understanding of the data. The formulation creates hypotheses that need to be tested in clinical practice.

The formulation considers endogenous factors (hereditary, constitutional, biological, developmental, intrapsychic) and exogenous factors (familial, interpersonal, social) related to the chief complaint of the disorder under consideration. Consideration and assessment of each factor are essential in the diagnostic formulation and are relevant for the delineation of a rational and comprehensive treatment program. Rarely is an illness or disorder produced by one factor alone. Maladaptation and illness are frequently the result of an interaction of forces.

According to Kratochwill et al. (2008), “the medical model is a disease-based model, the pathology is assumed to be within the individual, although the cause may be environmental. Some theorists consider biological deviations to be necessary and sufficient factors in the development of pathology; others claim that chemical or neurological anomalies are necessary but not sufficient for pathogenesis. Here environmental conditions may or may not catalyze a constitutional predisposition to pathology” (p. 14). Applications of the medical model influence assessment and treatment in various ways. Or-
ganic factors may not always be the cause of an observed medical or physical problem. There is growing recognition that psychological factors may affect a physical condition and that physical symptoms may have no known organic or physiological basis (Kratochwill et al. 2008).

In contrast to the medical model, the comprehensive formulation attempts to explain the problems or issues of the child as an individual and as a member of a family and other systems. A complex dynamic interaction occurs among the factors that contribute to the expression of an illness. All factors need not be addressed in the formulation of every case; each factor plays a role to a greater or lesser degree. In a given patient, certain factors are more relevant than others, and factors combine in unique ways to express or maintain a disorder. Factors cannot be understood in isolation, and for most disorders, research does not yet support granting central etiological status to any single risk or causal factor (Mash and Dozois 1996).

A satisfactory formulation stresses both protective and risk factors. Protective factors are those that promote normative development and optimal adaptation; resilience allows a child to respond and to recover from stress without significant or enduring loss of developmental acquisitions or adaptive functioning. Risk factors create vulnerability to developmental psychopathology.

The diagnostic formulation has two objectives: one is diagnostic and the other therapeutic. A comprehensive descriptive (syndromic) diagnosis is essential for a comprehensive psychiatric formulation and a valid treatment plan (I focused on DSM-IV-TR-guided diagnoses in Chapters 8, 9, and 10, “Evaluation of Internalizing Symptoms,” “Evaluation of Externalizing Symptoms,” and “Evaluation of Symptoms of Abuse,” respectively). The evaluator should consider how the identified syndromes (e.g., mood disorders, psychosis) organize and distort the patient’s perceptions about his or her internal and external worlds. Table 12–1 summarizes the objectives of the diagnostic formulation.

Finally, the formulation should be written in flexible format and as a working hypothesis; by no means should the formulation represent a fixed conceptualization or a negative prognostication. There is no such a thing as a hopeless case, because the psychiatrist could contribute to improving the quality of life and the level of functioning of any given patient. The psychiatrist will make any effort “to help families grow with their vulnerable [impaired] children” (Pruett 2007, p. 2).
Assessment of Internal (Intrinsic) Factors

Developmental Assessment

Psychoanalytic developmental psychology concepts are relevant in the developmental assessment. This assessment addresses the degree to which the child is mastering the developmental tasks associated with his or her developmental phase. For instance, in assessing a preadolescent, the examiner notes the child’s adaptation to the extrafamilial environment (e.g., school, neighborhood), the child’s progressive immersion in same-sex peership, the child’s involvement in fantasy-oriented play, and the child’s progressive internalization of rules, among other tasks. When evaluating an adolescent, the examiner explores how the adolescent is coping with adolescent developmental tasks, such as separation-individuation, sexual exploration, identity consolidation, career orientation, formation of supportive groups in the extrafamilial social milieu, and so on.

The concept of developmental phases is broad and nonspecific; more relevant and specific is the concept of developmental lines, which addresses the developmental vicissitudes of important ego-psychosexual and object relations functions. The assessment of developmental lines provides clinical focus and assists in the identification of areas of disturbance. Anna Freud added to Sig-
mund Freud’s implicit developmental lines (i.e., psychosexual development, maturation and development of ego defense mechanisms, and anxiety transformation) the following developmental lines: from individual dependency to self-reliance, from egocentricity to peer relationships, from inability to manage the body and its functions to the child’s control of them, and from play to work. She also suggested a developmental line from anaclitic (i.e., needs-satisfying) relationships to object constancy. The number of developmental lines is not complete, and the lines are not independent of one another. Future progress in developmental psychology and child psychoanalysis may bring forward new developmental lines and conceptual refinement of the ones already described.

Anna Freud (1977, 1980) suggested that the examiner pay attention to the harmony or disharmony of the progression of the developmental lines. The following case example illustrates disharmony in the developmental lines.

Steve, a handsome 14-year-old white adolescent who weighed 250 pounds and was over 6 feet tall, was evaluated for suicidal behavior. He was in conflict with both of his divorced parents but had received a great deal of nurturing from his maternal grandfather, who died less than 1 month before the psychiatric examination. Steve felt that there was no point in living after his grandfather died. Steve appeared older than his stated age, was intelligent, was a very good student, and was successful on his school’s football team. Steve’s mother had limited emotional sources of support and attempted to lean on him for emotional support.

Steve’s physical development contributed to a major disharmony in the developmental lines: because he looked older than his chronological age, his mother and other people had expectations of him that were not congruent with his emotional or psychological development. The misperception promoted pseudo-maturity and precocious ego development. Steve had strong, ungratified dependency needs. He had ongoing power-control fights with his mother; he opposed her rules, saying that he was too big to depend on her. Because both parents were insensitive to his dependency needs, Steve found a group of troubled adolescents to gratify his unmet narcissistic needs and to provide him with modeling, guidance, protection, support, and a sense of belonging he so much longed for. Behind Steve’s robust adolescent body was a big “needy baby.” His body size made him feel that experiencing dependency needs was proper only of a smaller or younger child. In contrast, because of his large size, his parents overlooked that he was still in need of tender and loving care.
Circumstances in which developmental disharmony is present (e.g., in precocious puberty, delayed sexual development, precocious cognitive development, chronic medical illness) bring about psychopathological risks (see Rick's case example in Chapter 8, “Evaluation of Internalizing Symptoms”). If the child is at variance with developmental expectations, this variance needs to be explained. The developmental assessment will determine areas of developmental progression, regression, or arrest.

The diagnostic formulation distinguishes between normative developmental conflicts of a transitory nature (i.e., those commonly found at a given developmental stage) and internalized conflicts or character (personality) traits of an enduring nature. The latter indicate problems in the mastery of previous developmental tasks.

**Psychodynamic Assessment**

In the psychodynamic assessment, the examiner evaluates the child’s internal mental operations and corresponding dysfunctions. He or she also evaluates the psychological forces that motivate the child’s behavior. This assessment aids in the understanding of the quality and strength of the child's personality traits.

Pertinent questions in assessing internal factors or developmental areas include the following: Is the child mastering the tasks appropriate to his or her developmental state? Is the child progressing in the different developmental lines? Does the child show evidence of internalized conflicts? Does the child demonstrate lags in development from previous phases?

In the following sections, I discuss the dominant psychodynamic points of view: ego psychology, object relations theory, separation-individuation theory, self psychology, attachment theory, and interpersonal theory.

**Ego Psychology**

As its name implies, ego psychology emphasizes the ego. According to Sigmund Freud’s (1923) tripartite conception of the mind, commonly known as structural theory, the ego perceives the physical and psychic needs of the self and the qualities and attitudes of the environment (including objects), and it evaluates, coordinates, and integrates these perceptions so that internal demands can be adjusted to external requirements. The ego accomplishes these goals by utilizing the so-called conflict-free ego functions of perception, mo-
Comprehensive Psychiatric Formulation

The ego also deploys defensive mechanisms to protect the individual against the conscious awareness of the conflictive demands of the id (e.g., primitive urges, impulses, biological needs) and the superego, insofar as these may arouse intolerable anxiety (Moore 1990).

Examiners who use ego psychology as the basis for the dynamic formulation should pay attention to the following ego functions:

- Ego boundaries
- Reality testing and preponderant ego defenses
- Impulse control and superego functioning
- Capacity for sublimation, insight, and verbalization
- Intelligence and other adaptive ego strengths
- Motivation and long-term planning
- Capacity to develop a therapeutic alliance

Object Relations Theory

Object relations theory bases its psychological explanations on the premise that the mind is concerned with elements (issues) taken from the outside, primarily aspects of the functioning of other persons (objects). The processes of internalization are emphasized. This mind model explains mental functions in terms of relations between the various internalized elements (Moore 1990).

Examiners who use object relations theory as the basis for the dynamic formulation should pay attention to the following functions:

- Quality of object relations
- Integration and stability of self and object representations
- Degree of guilt, envy, and reparation
- Degree of projective identification and splitting in psychological functioning

Separation-Individuation Theory

Separation-individuation concepts apply to a developmental theory, to a process, and to a complex stage of development. In the development of the individual, Mahler (1974) proposed normal, autistic, and symbiotic phases and the separation-individuation process, which comprises differentiation, prac-
ticing, rapprochement, and object constancy subphases (Moore 1990). Mahler’s autistic phase has been severely criticized. “Contemporary developmental scientists are, by contrast, amazed by how early and successfully the young child begins to grasp the mental states of other people, even when those emotions, beliefs, and desires are different from the child’s own… even infants begin to comprehend that subjective mental states are the key to understanding people’s behavior…” (Thompson et al. 2006, p. 4).

Examiners who use separation-individuation theory as the basis for the dynamic formulation should pay attention to the following functions:

- Evidence of progression throughout the separation-individuation process
- Evidence of a rapprochement crisis
- Evidence of object constancy

**Self Psychology**

Self psychology emphasizes the vicissitudes of the structure of the self and the associated subjective, conscious, preconscious, and unconscious experiences of selfhood. This point of view recognizes as the most fundamental essence of human psychology the individual’s needs to organize his or her psyche into a cohesive configuration, the self, and to establish self-sustaining relationships between the self and its surroundings; these relationships evoke, maintain, and strengthen the coherence, energy, vigor, and harmony among the constituents of the self (Moore 1990).

Examiners who use self psychology as the basis for the dynamic formulation should pay attention to the following functions:

- Self-concept and self-esteem regulation
- Self-esteem stability
- Self-cohesion versus self-fragmentation
- Role of affirmation and twinship
- Nature of narcissistic injuries
- Nature of grandiose and exhibitionistic needs

**Attachment Theory**

Attachment theory has gained a great deal of interest because it has a strong empirical foundation and its principles can be subjected to research, charac-
Comprehensive Psychiatric Formulation

John Bowlby (1969) proposed that children have an innate (evolutionary) predisposition to become attached to a primary figure, usually the biological mother. The concept of attachment describes both the underlying psychological constructs and the selective patterns of proximity seeking that a young child strives to maintain at times of stress. Although the process of attachment is clearly reciprocal, the term *attachment* usually refers to the behavior of the child in relation to the primary figure. Although patterns of selective attachment develop during the first year of life, the notion of attachment is applicable throughout the life cycle (Volkmar 1995). In the research arena, the development of valid and reliable instruments for assessing attachment patterns and psychological constructs such as alexithymia (failure of symbolization and mentalization) have led to many empirical investigations that have confirmed that interpersonal relationships can influence illness behavior and physical health (Taylor 2008).

Examiners who use attachment theory as the basis for the psychodynamic formulation should pay attention to the following functions (Bacciagaluppi 1994; Belsky and Cassidy 1994):

- Quality of the attachment experience provided to the infant
- Attachment-exploration balance
- Hierarchy of attachment to major caregivers
- Presence of a secure base
- Nature of internal working models
- Presence of a secure or insecure attachment

**Interpersonal Theory**

Interpersonal theory, originated by Herbert "Harry" Stack Sullivan, postulates that a person’s impulses, strivings, and personality patterns need to be understood in the context of interpersonal relationships. Interpersonal relationships are a human concern from the very beginning of existence. The primary striving of the mind is the satisfaction of physical and emotional needs, especially the need for human contact and the achievement of a sense of security. Anxiety is aroused when these needs are threatened. Anxiety is an interpersonal experience and the primary motivator of human behavior (Weiner and Mohl 1995). Specific therapeutic interventions based on Sullivan’s concepts have
been effective in the treatment of depression (Mohl 1995) and other disorders.

Examiners who use interpersonal theory as the basis for the dynamic formulation should pay attention to the following functions:

- Sense of security or evidence of anxiety and loneliness
- Predominance of modes of experience
- Nature of the security operations
- Presence of consensual validation

Alternatively, other conceptual frames such as family therapy, cognitive-behavioral therapy, and other behavioral or ecological models may be used as the basis for the conceptualization of the formulation.

**Other Internal or Intrinsic Factors**

The examiner must consider 1) other factors that influence the way the personality becomes organized and 2) the manner in which the primary caregivers respond to the developing child (e.g., temperamental traits, other individual qualities; see Note 1). The psychiatrist also must explore other developmental acquisitions (e.g., psychosexual development, social and interpersonal functioning) and, when pertinent, other levels of functioning (e.g., physical functioning, motor coordination, cognitive and moral development). Other skills and abilities that affect the child’s sense of competence, adaptive capacity, and self-concept should also be surveyed.

Competence in developing peer relations requires special attention. This capacity is a good measure of a number of intrapersonal and interpersonal skills such as self-concept, level of self-esteem, problem-solving skills, and capacity for reciprocity and empathy. Children’s peer relations serve vital functions, have important short-term and long-term consequences, are linked to children’s competence in coping with major social tasks, and can be facilitated by systematic interventions aimed at increasing social competence (Asher et al. 1994). Poor peer relations predict school dropout, whereas aggressive behavior predicts criminality (Asher et al. 1994).

When intellectual impairment, learning disabilities, or other handicaps are present, the examiner must evaluate how these impairments affect the child’s self-concept and self-esteem regulation. For example, how do the child
and the family cope with the limitation and what adaptive compensatory mechanisms are called into play? Denial of a handicap is a common phenomenon; often, the denial in the parent is far greater than that in the child.

Adolescents with behavioral and academic difficulties require careful assessment. A number of psychiatric syndromes—including developmental language and learning disorders and other neuropsychological deficits—need to be identified. Frequently, emotional and behavioral difficulties at school are merely surface behaviors caused by those unidentified problems. Adolescents with academic and learning disorders have low self-esteem and a deficient sense of competence, among other problems. These children require speech and language assessment, psychological or neuropsychological testing, a pediatric evaluation, and other appropriate testing.

**Assessment of External (Extrinsic) Factors**

**Parental and Family Dynamics Assessment**

Parental and family dynamics assessment relates to the degree to which the parents or family as a whole promotes normative child development (e.g., through provision of basic care, nurturing, love, consistent limit setting, gratification of healthy narcissistic needs, support for autonomy, identity formation) and the degree with which the parents or family provides a warm and supportive environment with reliable and consistent boundaries. Issues related to social learning, modeling, conditioning, and other behavioral aspects within the family are relevant in this area (Mash 1989; see Note 2).

When assessing difficulties in the area of family dynamics, the following issues could be addressed: Where is the preponderance of the dysfunction—in the parenting function, in the marital subsystem, or in the family system as a whole? Are the parents allied in the provision of discipline? How cohesive are the marital system and the sibling subsystems? Do any of the parental figures have identifiable problems? Do any of the parents exhibit overt psychiatric pathology? Is alcohol or drug abuse a problem in the family? What are the family’s strengths?

Psychopathology in the parents (i.e., mood disorders, substance abuse) is recognized as having a deleterious effect on the development of the child. Because important gains in the child’s symptomatology and level of functioning
have been demonstrated when the parent improves, it behooves the psychiatrist to identify parental psychopathology and to implement a prompt intervention.

**Assessment of Developmental Interferences**

The concept of developmental interference relates to factors within the rearing environment that are outside the child’s control and that have a negative influence on the child’s psychological development. In addition to marital or family dysfunction, such interference commonly includes other adverse events such as illness, trauma, or loss, as well as persistent stresses in the physical, psychological, educational, or cultural environment. If the adversity is too intense or prolonged (see related concept of allostatic load in Chapter 13, “Symptom Formation and Comorbidity”), it may be internalized and transformed into an internalized conflict, which then becomes part of the child’s psychopathological organization (Nagera 1966). A developmental interference occurs when the child does not receive the care needed at a given developmental phase or when the gratification goes beyond what a particular phase requires. Each developmental stage, or each developmental line, may be interfered with as a result of deprivation or overgratification.

Research suggests a strong link between early trauma, loss, and family disturbance and later interpersonal dysfunction (Pruett 2007). Parents create developmental interference by omission or by commission. Interference due to omission is associated with situations of neglect, abandonment, or undue permissiveness, at one extreme, or with the inability to set consistent limits (i.e., to enforce rules and monitor boundaries through appropriate discipline and consistent limit setting) at the other extreme. Interference due to commission is secondary to physical or sexual abuse, to reversals of the child and parent roles, or to overindulgence. Physical and sexual abuse, overindulgence, and lack of appropriate and consistent discipline are common developmental interferences.

**Other External or Extrinsic Factors**

Chronic illness in children has a major negative effect on the boundaries between children and their parents, and it interferes profoundly with the process of separation-individuation. Compensatory overdependency may develop be-
cause of frequent separations (due to hospitalizations) or fear of death (see Rick’s case example in Chapter 8, “Evaluation of Internalizing Symptoms,” and Cory’s case example in "Pragmatics of a Comprehensive Psychiatric Formulation" later in this chapter). Parents may overindulge or overprotect the child, thus impinging on the child’s autonomy and self-concept. This behavior has a negative effect on the child’s sense of competence and on other adaptive functions. Parents of handicapped children often feel guilty and responsible for their children’s limitations. These parents have problems with letting go and with setting consistent limits.

School refusal problems have multiple causes, including separation anxiety. Many children are afraid to attend school because they fear intimidation by older children, pressure to join gangs or use drugs, and so on. For example, an intelligent 12-year-old boy began to skip school. After an intense exploration of the reasons for his behavior, he confided that he had been beaten up regularly by a group of children belonging to a gang.

Pertinent questions in assessing external factors include the following: Is the school milieu favorable to learning and positive development? Is the school system meeting the child’s psychoeducational and psychosocial needs? What kind of influence does the peer group have on the child’s behavior? Is the neighborhood safe, or is it infested with drugs and crime? Are the child’s and the family’s behaviors culturally syntonic?

When a psychiatric syndrome is present, the formulation should postulate what developmental factors and environmental circumstances are facilitating the expression of the disorder in question. Precipitating and perpetuating factors are important concerns.

No assessment of external factors is complete without an examination of the child’s and family’s areas of strength. The assessment should include observations on the regulatory functions within the child and within the family. Answers to questions such as these are important: When the child or family members are involved in a crisis, how do they attempt to solve it? What do they do? Whom do they call for help? Is there any organized way of solving the problem? What soothing mechanisms help the child or family to get back on track? What mechanisms does the child activate to stop escalation of the problem and to initiate its resolution?
Pragmatics of a Comprehensive Psychiatric Formulation

There is no standardized way to complete a comprehensive psychiatric formulation. Adherence to a particular explanatory model will influence the way the formulation is conceptualized. The model used (e.g., biopsychosocial, psycho-dynamic, cognitive, behavioral, family based) will influence the emphasis of the formulation. The details and emphasis of some aspects of the formulation vary, depending on the circumstances at the time the formulation is done.

Coherence and comprehensiveness are two important elements in the formulation. The formulation needs to be relevant to the presenting problem(s) and to the most important developmental aspects of the case.

In this section, I suggest a format for a comprehensive psychiatric formulation. I suggest six sections, or components, each of which is illustrated with case examples of three children of different ages.

1. A succinct explanatory statement that indicates the major psychopathological issues. This statement answers the question, “What is this case about?”

John is an 8-year-old white boy with a history of suicidal behavior, aggressiveness, and disorganized thinking.

Andrew is a 13-year-old black adolescent with a long history of impulse control difficulties and a recent history of violence, depressive affect, and suicidal behavior.

Maria is a 17-year-old Mexican American adolescent with a long history of major depressive disorder and borderline personality traits.

2. A succinct explanatory statement that indicates the perceived main problem (i.e., core issue or conflict). This statement answers the question, “What are the main issues of the case?”

John’s main conflicts seem to be related to his perception of rejection and the threat of abandonment by his very ill adoptive mother. He perceived this threat as a psychological death; because of this, in his own words, “There is no reason for me to live anymore.”
Andrew’s main conflict was confusion over his primary maternal object.

Maria struggled with developmental issues of autonomy and individuation in a very pathological, nonsupportive environment: her father was psychotic, and her mother (who also had psychiatric problems) was controlling and lacked empathy for Maria.

3. A succinct explanatory statement indicating the hereditary, constitutional, or organic factors related to the main problem. Any medical or neurological difficulties may be included here. This statement answers the question, “What are the contributory biological factors of the case?”

John’s natural mother was a drug abuser. He was exposed to drugs in utero. Previous psychological assessments had shown a disparity between his verbal and performance abilities. He also exhibited language deficits and electroencephalographic abnormalities, and possibly had poor nutrition. John had asthma and inconsistent bladder control.

Andrew’s mother had a background of alcohol and polysubstance abuse, and she probably abused drugs during pregnancy. Genetic factors were probably involved, because Andrew’s mother had a chronic psychiatric disorder and his maternal grandmother had an affective disorder.

Maria had a severe depressive disorder and strong anxiety disorder features. Management of the depressive syndrome with antidepressants was difficult because of cardiovascular complications.

4. A succinct explanatory statement of the dominant intrinsic factors that contribute to the problem(s). This statement answers the question, “What are the predominant developmental and psychodynamic factors of the case?”

For John, the threat of parental loss had precipitated significant regression, including impairment of thought organization and reality testing. He also displayed prominent somatization, which represented an affective regression and identification with his very sick adoptive mother (she had severe diabetes with multiorgan complications). Recurrent somatic symptoms ensured gratification of John’s unmet narcissistic needs. John sometimes expressed intense ambivalence toward his mother and family as a whole. His self-concept was very negative. He felt hopeless and showed marked desperation and torment. He attempted to take responsibility for the perceived rejection by psychotic guilt,
the latter secondary to his intense aggression. Anger against his rejecting objects taxed his ego capacities and stimulated regression and serious compromise of his adaptive capacity. John's capacity to bond emotionally to other people was also a concern.

Andrew's loyalty conflicts were strong. His mother and grandmother competed for his love and affection. Andrew displayed impairment in the development of object constancy and lacked stable object and self-representations. Competition for Andrew's love had blocked the resolution of infantile omnipotence and facilitated the creation of manipulative interpersonal traits. Lack of object constancy rendered him vulnerable to separations and impaired the separation-individuation process; these difficulties also contributed to an unstable self-concept and to a faulty superego development. Parent-child role reversal was a prominent feature in Andrew's development; he worried continuously about his mother.

Maria struggled with identity consolidation issues; she had a rigid system of defenses and had very high expectations for herself. Her strong defenses against sexuality appeared to be eroding. Control was a major coping defense for Maria. Anger and hostility were pervasive maladaptive features and highly valued coping mechanisms.

5. A succinct explanatory statement of the relevant extrinsic factors (e.g., developmental interferences and other risk factors). This statement answers the question, “What are the detrimental factors (developmental interferences) in the child or in the rearing environment that have a bearing on the case?”

John had a history of multiple placements and ongoing rejection by his adoptive mother (she had made explicit threats to reverse the adoption). Questions regarding abuse and neglect were ongoing. His adoptive mother was very sick, and his adoptive father had been given the diagnosis of organic affective disorder, secondary to a stroke. Other siblings also had emotional problems: a younger sister had a history of psychiatric problems and had been hospitalized previously.

Andrew's family situation was extremely chaotic and confusing. His mother was dysfunctional and had alcohol and drug abuse problems. He had never had a male parental figure as a source of masculine identification and as an appropriate model for aggressive expression.

Maria's family was highly dysfunctional: violence, scapegoating, and rejection were common.
6. A succinct explanatory statement of the protective factors—in the child, within the family, or in the rearing environment—that promote normative development and adaptive resolution of the problem(s) or conflict(s). Issues related to resilience and self-regulatory functions for the child or the family may be mentioned here. This statement answers the question, “What are the strengths of the child or the family?”

John was likable and engaging; he was verbal and intelligent. He did well in supportive and structured environments. He was attached, though ambivalently, to his adoptive sister. Finally, John had a strong bond with his natural sister, who had been adopted along with him.

Andrew was handsome and very intelligent and had some degree of insight. His grandmother was genuinely involved with him. Appropriate placement of Andrew and stabilization of his rearing environment were considered essential to regulate his inner world and to ameliorate his pervasive psychological turmoil.

Maria was a likable, honest individual who displayed integrity. She was tenacious and determined. She was intelligent, insightful, and very committed to helping herself and her family. Although her father was prone to intermittent psychotic functioning, he was the main source of affection for the children.

While advancing in the formulation process through sections 1–6, the clinician should gain a progressive understanding of the child and his or her circumstances. Note that sections 2–6 address areas or factors that could become the target of specific therapeutic interventions. These sections could be considered to represent circumscribed or specific formulations themselves.

After the examiner has identified the factors that contribute to the creation and maintenance of symptoms, he or she should go one step further in the formulation by making conceptual or explanatory bridges among the different factors. As the examiner advances through the six sections, he or she should attempt to make relevant connections among the components of the formulation. According to the clinical evidence and the examiner’s theoretical bias, any of these sections could receive particular emphasis or amplification; the format is flexible.

Brevity in the presentation of the formulation is stressed. A very long and elaborate write-up renders this exercise impractical and clinically cumber-
some. Because the formulation is offered as a conceptual guide to clinicians who have different levels of sophistication and expertise, it should be written without technical language.

The following case example demonstrates the six-step format for a comprehensive psychiatric formulation of an adolescent with a definitive neuropsychiatric disorder.

1. Cory was a 15-year-old black adolescent who had significant difficulties with anger control (she pulled a knife on her brother twice and had done the same to her father 2 years earlier). She had poor interpersonal relationships and was oppositional and unruly toward her mother.

2. The main issues in Cory’s case were 1) lack of stabilization of a partial seizure disorder secondary to poor compliance with anticonvulsant medications and 2) frequent power-control struggles with her mother.

3. Hereditary and constitutional factors were involved. Cory’s mother made a suicide attempt in her youth, and Cory’s brothers had problems with aggression and impulsiveness. At birth, Cory almost died and underwent major abdominal surgery. More fundamental was the presence of complex seizure symptomatology (i.e., a positive electroencephalogram with right-temporal spiking). Furthermore, features of a receptive aphasia were present. Other symptoms, such as paranoia and perceptual distortions, were compatible with psychomotor seizures. Cory would become disoriented in space; a number of times, she lost her way home and became helpless. She would wander around and start crying.

4. Salient issues regarding Cory’s internal developmental factors centered on massive denials and pervasive externalization of blame for her persistent and recurring problems. She did not take any responsibility for her aggressive and impulsive behaviors and was prone to blame others when she lost control. Cory defended against strong dependency needs toward her mother with hostility and was very ambivalent about her. Her feelings toward her mother vacillated from open rebellion to regressive behavior characterized by baby talk and the need for frequent body contact with her mother. Somewhat aware of her perceptual inaccuracies, Cory relied on her mother a great deal for consensual validation. Seizure phenomena and twilight states contributed to her idiosyncratic experiences and her conviction that what she felt and experienced was real. Cory felt that everyone misunderstood her, and she was very suspicious of most people. Her lack of insight was remarkable.
5. Cory’s mother had been overprotective and lenient with Cory because she feared for Cory’s life. Her mother was also inconsistent with discipline. Cory’s mother was a single parent with a limited support network. Because of strong denial, Cory didn’t comply with her medications, which were essential to control her seizure disorder, the main cause of a great deal of her psychopathological functioning.

Cory needed her mother’s supervision and tighter controls because she was very impulsive, misjudged situations, and was prone to distort interpersonal events. She regularly broke her mother’s rules and failed to meet her mother’s expectations. Cory was sexually active and had sneaked some of her partners into her bedroom. She believed that people were out to get her.

6. Cory was a tall, attractive, and intelligent adolescent. In spite of her neuropsychological problems, which affected her learning, she liked school and was motivated to do schoolwork.

Cory’s developmental features and her conflicts with her mother were major factors in her dysfunction. No progress was possible with Cory until the therapist understood and validated Cory’s idiosyncratic experiences.

The case examples provided in this section could have been written with a different emphasis or from other theoretical perspectives, or with a different systemic or ecological focus. The proposed model allows alternative conceptualizations. No single theory supports the psychodynamic aspects of the formulation. Each theory has an explanatory richness that needs to be exhausted before using alternative theories to fill the conceptual gaps. Knowing one theory in depth is preferable to knowing a variety of theories superficially. The clinician needs to know the explanatory power and the limits of a chosen theory, as well as the advantages of choosing one theory over the others. When the limits of a theory are reached, the clinician can appeal to other theories to satisfy explanatory gaps.

In the following case example, the examiner attempted to explain the patient’s symptoms from a self psychology psychodynamic perspective.

Rudolf, a 19-year-old Asian American adolescent, exhibited poor self-concept and chronic self-esteem difficulties. His compulsive sexualization reflected evidence of an ongoing narcissistic disturbance and a lack of affirming and supportive self-objects. His compulsive anal masturbation reflected the
transformation of body functions into soothing self-objects when supportive self-objects were not available to him. This autoerotic involvement represented a substitutive restorative (reparative) self-object. His fantasies during masturbation expressed exhibitionistic gratification of his arrested primitive grandiose self. His feeling that people were looking at him during his compulsive activities was another manifestation of his projected grandiose self.

Rudolf’s need for a heating pack on his back at night represented a longing for a restorative self-object (it stood for the absent grandmother who used to warm his back as a child). A body sensation was transformed again into a soothing self-object. Suicidal ideation emerged when his sense of self was at risk of fragmentation. Because he had not internalized his supporting self-objects, he was hopelessly dependent on others for his self-esteem regulation. Rudolf’s drug use was an additional method with which he attempted to avert fragmentation of his enfeebled self.

This explanatory alternative is interesting; there is a sense of coherence in the systematic application of self psychology concepts, even though other psychodynamic propositions could be equally useful.

**Common Problems in the Elaboration of a Comprehensive Formulation**

The following common deficiencies may be encountered in reviewing formulations:

1. Some formulations recite or agglomerate the data without integration.
2. Some formulations lack an orderly presentation of the explanations. They mix concepts and lack clarity or internal consistency.
3. Some formulations do not “grasp” or represent the core problem.
4. Some formulations overlook the patient’s subjective issues (i.e., internal factors). They overemphasize external factors at the expense of developmental, intrapsychic, and interpersonal conflicts.
5. Some formulations are psychodynamically incoherent. Clinicians new to the formulation process may use a confusing mixture of concepts or explanatory models to explain internal factors.
6. Some formulations fail to explain the presenting problem.
7. Some formulations are not comprehensive.
Reformulation

The formulation is a dynamic process. The psychiatrist needs to change the formulation when new clinical data emerge, when a negative development occurs in the clinical course, or when no progress is made after the treatment plan has been implemented. Theresa A. Piggot’s (personal communication 1996) approach to refractory obsessive-compulsive disorder is relevant in cases that need reformulation as a result of lack of progress. She advised the following:

1. Review the accuracy of the diagnosis.
2. Review the comorbid conditions.
3. Review the adequacy of the treatment trials.
4. Review the integration of the treatment modalities.
5. Review compliance.
6. Review whether expectations about the therapeutic objectives are realistic.

To the preceding list, I add several additional recommendations:
7. Review the status of the developmental interferences.
8. Review the status of the therapeutic alliance.
9. Consider the possibility of countertransference factors (see Chapter 15, “Countertransference”).

At times, a reinterview may provide data or observations that have previously been missed and may allow a reconceptualization of the formulation.

Notes

1. Cloninger et al. (1996) defined temperament as “the dynamic organization of the psychobiological systems that regulate automatic responses to emotional stimuli. Individual differences in temperament are known to be moderately heritable and stable throughout life regardless of culture or ethnicity” (p. 3). Cloninger (1987) proposed “three dimensions of personality that are genetically independent and that have predictable patterns of interaction in their adaptive responses to specific classes of environmental stimuli. The three underlying genetic dimensions of per-
2. Concepts such as “the average expectable environment” or “good enough mother” do not do justice to the role of the rearing environment. They imply that the developmental environment plays a passive, unimportant, and often detrimental role. Rarely is there an explicit articulation or recognition of the positive contributions of the environment in the developmental process; the whole issue of the nature of the developmental environment (the role of the mother or caregiver, in particular) seems to be taken for granted. Neuroscience and developmental research are seeking to elucidate the specificity of factors that promote optimal development. Schore (1994) presented the following summary of evolving views on this subject:

We now know that the early environment is fundamentally a social environment, and that the primary social object who mediates the physical environment to the infant is the mother. Through her intermediary action environmental stimulation is modulated, and this transformed input impinges upon the infant in the context of socioaffective stimulation. The mother’s modulatory function is essential not only to every aspect of the infant’s current functioning, but also to the child’s continuing development. She thus is the major source of the environmental stimulation that facilitates (or inhibits) the experience-dependent maturation of the child’s developing biological (especially neurobiological) structures. Her essential role as the psycho-biological regulator of the child’s immature psychophysiological systems directly influences the child’s biochemical growth processes which support the genesis of new structure. (p. 7)
References


**Recommended Readings**

Symptom Formation and Comorbidity

**Key Points**

- Diagnosis of comorbidity is important because comorbid symptoms may be more influential in maladaptation than the explicit presenting symptoms that prompt the psychiatric evaluation.
- Comorbidity complicates the diagnosis and treatment of any given disorder.
- Diagnosis of comorbidity enriches the evaluation and has a positive influence on fostering engagement and therapeutic alliance.

Certain clinical syndromes are commonly associated with particular psychodynamics or psychosocial contexts. For example, patients who have panic attacks display traits of helplessness, dependency, passivity, and behavioral avoidance; similarly, patients who are depressed feel unmotivated, devalued, and hopeless. When these syndromes are clinically active, certain dynamic traits are expected to be present. These traits are considered *state dependent*, meaning that the traits are present when the patient becomes panicky, depressed, or the like. Those personality traits submerge or are less salient when the syndromes (depression, anxiety, etc.) are under control. The intimate relationship between certain syndromes and associated psychodynamics is such that clinicians are advised to defer making Axis II diagnoses when dealing with active syndromes.
Do psychodynamic constellations unleash clinical syndromes? This does occur. The most common example is a person’s response to a loss. People have different thresholds for and different ways of responding to loss. Many factors, including constitutional and temperamental factors, determine this variability. In the so-called psychosomatic disorders, an intimate connection is assumed between the somatic and mind realms. In these illnesses, people become ill in response to a variety of stresses.

The concept of *allostatic load* is germane to the present discussion. Allostatic load is related to the cumulative, multisystemic impact (the physiological toll) that is required for adaptation. Allostatic (adaptive) systems enable individuals to respond to a variety of situations other than strictly physiological changes. *Allostasis* is defined as the capacity to achieve stability through multisystemic change. A price is paid for the forced resetting of parameters as a result of stress adaptation, particularly if the process becomes extreme, persistent, or inefficient. The cost of these processes is called *allostatic load*. It is the “wear and tear” of the body and brain resulting from chronic overactivity or inactivity of physiological systems that are involved in adaptational change. When a person experiences too many unpredictable events, the allostatic load can increase dramatically, causing an allostatic overload that is associated with pathological conditions (Kapczinski et al. 2008). From this perspective, comorbidity could be considered as the exhaustion or spilling over of the adaptive organismic failures.

Apparently, psychiatrists are failing to diagnose comorbidity, which is important because patients often want help not for the primary condition but instead for the associated comorbidities (Zimmerman 2008). Detecting comorbidity may not be critical, but a logical assumption is that increased diagnostic accuracy will improve outcome, and a better diagnostic practice may result in greater patient satisfaction, improved alliance with the treating clinician, and, consequently, improved treatment adherence and a better outcome (Zimmerman 2008).

The vulnerability to stress probably depends on response thresholds and on individual organ stress targets. The coping dysfunction, or breakdown, may be in the “somatic” realm or in the “mental” realm; either diathesis may have an underlying genetic predisposition. When children break down, they do it in different ways: one child may become depressed, another may become psychotic, a third may activate a psychosomatic illness, and a fourth may evolve a mysterious inhibition of the release of growth hormone.
What happens when a chronic syndrome, such as anxiety or depression, improves or remits? Common clinical observations show that control of chronic mood disorders may produce only partial improvement in personality functioning. Although the depression or anxiety may be controlled, many areas of the patient’s personality dysfunction may remain. In chronically anxious patients, patterns of avoidance or inhibition, pervasive doubting, and strong dependency traits may remain. In chronically depressed patients, patterns of passivity, inhibition, low self-esteem, and fear of failure outlast the improvement of the affective disorder symptoms. In either situation, patients have a greater vulnerability to stress. The lasting dysfunctional traits are impervious to further psychopharmacological treatment. These observations have made mandatory the combination of treatment modalities. On the other hand, the presence of a major depressive disorder, disruptive disorder, or substance use disorder in childhood or adolescence increases the odds for personality disorder in adulthood (Schulenberg et al. 2008).

In persons with chronic conditions such as bipolar disorders, the concept of allostatic overload is useful for understanding apparently unrelated findings, such as vulnerability to stress, cognitive impairment, and high rates of physical morbidity and mortality (Kapczinski et al. 2008). The model of allostatic load predicts that increased vulnerability to environmental stress would bring about an increased allostatic reaction: hypothalamic-pituitary-adrenal axis and circadian rhythm disturbances, abnormalities in the immune-inflammatory systems, and structural and functional brain changes (Kapczinski et al. 2008).

What is the relationship between dysfunctional personality traits and affective dysregulation? One could postulate that chronic mood disorders promote maladaptive patterns of coping that gain stability or even functional autonomy. One could also argue that affective dysregulation and associated personality traits have different but parallel origins. Alternatively, the affective disorder could interfere with adaptive processes of learning and skill development in interpersonal relationships and in other areas; the unresolved symptoms could represent lags in adaptational learning (see Note 1).

The precise nature of the phenomenon of comorbidity is a challenge in the ongoing elucidation of the origin and expression of psychopathology. Is comorbidity a real phenomenon? Is it an artificial result of the DSM-IV-TR taxonomy (American Psychiatric Association 2000)? The concept has impor-
tant implications for the understanding of illness and symptom formation, and of course for treatment. Without a doubt, the concept of comorbidity is the major culprit for the polypharmacy epidemic that is ongoing in contemporary clinical psychiatric practice. There are many critics and detractors of this concept. According to Achenbach (2008), DSM-IV-TR does not have well-validated markers for distinguishing each childhood disorder from each other disorder, and apparent comorbidity may reflect a lack of clear boundaries between disorders. In other words, the diagnostic criteria for different nosological categories may not accurately represent true different disorders. The controversy notwithstanding, the notion of comorbidity has become reified in clinical practice (see Note 2).

Puig-Antich and colleagues made interesting observations concerning the association of major depressive disorder and the concomitant manifestation of anxiety and conduct disorder (Puig-Antich and Gittelman 1982; Puig-Antich et al. 1978). For the latter association, they noted that in a group of depressed preadolescents, the conduct disorder features waxed and waned, according to the reactivation or improvement of the affective disorder. When the depression was active, the conduct disorder features were active, and when the depression was in remission, the conduct features were also in remission. In the same vein, a strong association exists between conduct disorder and bipolar disorder: the conduct disorder may precede, be concurrent with, or follow the onset of bipolar illness. According to Kovacs and Pollock (1995), conduct disorders are equally likely to antedate or postdate the onset of the first episode of bipolar disorder.

Several studies suggest that certain psychopathologies precede early drug experimentation (before age 13 years) or regular drug use. For example, oppositional defiant disorder in children is strongly associated with drug experimentation with a psychoactive substance, and the presence of a mental disorder in childhood is associated with marijuana abuse in adolescence. Dependency on psychoactive substances is higher in children and adolescents with conduct disorder, oppositional defiant disorder, affective disorder, anxiety disorder, and bipolar disorder. Debate is ongoing about the role of attention-deficit/hyperactivity disorder in psychoactive substance abuse (Szobot and Bukstein 2008). The diagnosis of conduct disorder between ages 11 and 14 years was found to be a strong predictor of substance use disorders by age 18, and children and adolescents exposed to trauma (physical or sexual) were
found to have a higher prevalence of substance use disorders (Szobot and Bukstein 2008).

The factors that stabilize a syndrome or that are important in symptom expression or maintenance may not have anything to do with the origin of the disorder. The complexity of interactions in the process of symptom formation and symptom maintenance can be observed in the following case example.

Kirk, a 16-year-old white male, was evaluated for depression and suicidal ideation. Kirk’s mother had a history of chronic depression; she was chronically suicidal and episodically self-abusive. His father, a scientist, qualified for the diagnosis of obsessive-compulsive disorder. He would repeatedly check his laboratory door to ensure that it was locked, and in the parking lot, he would walk around his car several times, checking all the door locks. On occasion, he would return to the laboratory at night to ensure that it had been securely locked.

Kirk’s parents were involved in an ongoing conflict over issues of power and control. Kirk’s mother complained that her husband was tyrannical and very controlling. When tension in the marriage increased, Kirk’s mother would become depressed, self-abusive, and suicidal. At these times, Kirk and his 13-year-old sister (who exhibited regression) would come to their mother’s rescue and unite against their domineering father. Kirk’s father found himself progressively isolated and felt rejected and undermined. At those times, the father’s insomnia and symptoms of obsessive-compulsive disorder would worsen, and Kirk’s acting-out behaviors would escalate.

Kirk’s mother undermined his father’s efforts to set limits on the children. Kirk, in spite of superior intelligence, was flunking most of his school classes. School authorities earmarked Kirk as a problem child; he was very unconventional in his manner of dress, associated with troubled peers, and used drugs.

The preceding case example illustrates the additive influences of negative factors. For Kirk, some psychiatric features (e.g., depression) had biological-hereditary contributory factors (probably coming from both parents). These factors, added to prolonged exposure to parental psychopathology and marital discord, created significant developmental interferences, promoting negative social learning and ultimately negative internalizations and a defective self-concept formation.

A caregiver’s affective disorder may have multiple effects on his or her parental functioning. Maternal depression is a very important diagnostic clue. Keitner and Miller (1994) agreed with this conceptualization: “It is not cer-
tain whether problematic family relationships predispose to or facilitate the emergence of depressive illness or whether the depressive illness and its attendant impact on patients’ interpersonal styles create family difficulties in coping. There is evidence to support both points of view. In addition, the combination of a number of different stressors can obviously have an additive effect in leading to family dysfunction” (p. 22).

Kirk’s case example also demonstrates the formation and stabilization of psychopathology in a developing child through concomitant parallel systems. Although Kirk’s affective disorder improved, the developmental, internalized conflicts and the negative learning persisted. A protracted course of family therapy was required to disentangle Kirk from maternal enmeshment and to facilitate a closer relationship between Kirk and his father. The improved relationship was necessary for the consolidation of Kirk’s masculine identity. The case example also showed mutual balancing, or stabilization, of the parents’ individual pathologies: the mother’s chronic affective disorder with periodic acute reactivations and the father’s obsessive-compulsive disorder and unremitting insomnia.

I have followed a number of adolescent patients who exhibited chronic, stable, maladaptive regressions. Crucial in the stabilization of the psychopathology is the symbiotic link of these children to their mothers. Positive steps in the treatment have been achieved every time the symbiosis has been fractured. A positive sign in this respect is the development of depression in mothers when their children begin to separate from the enmeshed relationship.

Negative factors in the development of psychopathology, as in Kirk’s case example, may act additively or may potentiate themselves by synergism. An example of the latter is that a criminal outcome at age 18 years is more likely when two conditions occur together in a male infant: 1) complications at birth and 2) maternal rejection by age 1 year. Neither condition in isolation produced the adverse development (Raine et al. 1994). The aggregate of negative factors may unfortunately have combined results that are far more negative than the mere addition of the individual factors.

Contemporary conceptualization of the nature-nurture relationship establishes a mutual influence between the factors. Pike and Plomin (1996) explained:
Environmental factors, both shared and nonshared, were found to be important to varying degrees. Parents who are negative cast a shadow over their families and put all children in these families at risk for depression in adolescence. Nonetheless, nonshared family environment also appears to have some effect. Nonshared environment is a fresh way of thinking about the environment of the family. It suggests that important experiences lie within the families, not just between families. For example, adolescents who are the object of more maternal negativity than their sibling are more likely to be depressed, independent from the effects of genetics or shared family environment. (p. 568; see also Note 3)

Notes

1. Kandel (1998) proposed that behaviors that characterize psychiatric disorders are disturbances of brain function, even in those cases in which the causes are clearly environmental in origin. Genes and their protein products are important determinants of the patterns of interconnection of the neurons and the details of their functioning. Learning, including learning that results in dysfunctional behavior, produces alteration in gene expression. Kandel discussed the gene’s template and transcriptional (phenotype) functions. The template function can be altered only by mutation and is not regulated by social experience of any sort. The transcriptional function, in contrast, is highly regulated, and this regulation is responsive to environmental factors. This epigenetic regulation is influenced by internal and external factors, including brain development, hormones, stress, learning, and social interaction. The regulation of gene expression by social factors makes all bodily functions, including those of the brain, susceptible to social influences. In humans, the modifiability of gene expression through learning in a nontransmissible way is particularly effective and has led to a new kind of evolution: cultural evolution (Kandel 1998; see also Note 3).

2. According to Achenbach (2008),

“If formal diagnosis of behavioral, emotional, social, and thought problems validity discriminate between disorders that are as distinct as physical diseases such as cancer, measles and diphtheria, it would make sense to use multiple specific treatments for children who qualify for multiple...”
diagnoses. However, because neither physical etiologies nor other physical abnormalities have been identified as underlying nosological categories for children's behavioral, emotional, social, or thought problems, treatments cannot be aimed at different physical abnormalities marked by different formal diagnoses. Instead, treatments are aimed at altering behaviors, feelings, and thoughts that may overlap among nosological categories. Consequently, research is needed not only in the effectiveness of specific treatments for specific diagnoses but also on the effectiveness of treatments for the many children who qualify for multiple diagnoses.” (p. 443)

3. Pike and Plomin (1996) summarized a number of concepts related to behavioral genetic research: quantitative genetic theory postulates that variation observed among individuals in a population can be ascribed to genetic and environmental sources; this stems from individuals' genetic variability and the variability of the environments experienced by the individuals. Genetic effects can be either additive or nonadditive. Additive genetic influence refers to genetic effects that add up linearly in their effect on the phenotypic variance. Nonadditive genetic influence refers to effects caused by interactions among the genes. Environmental influences consist of two categories: those shared by siblings reared in the same family (i.e., shared environment) and those not shared by siblings in the same family (i.e., nonshared environment). Environment in behavioral genetics is defined more broadly than is typically the case. It includes all sources of variations not explained by heritable genetic effects. In addition to psychosocial experiences, the environment includes perinatal factors, accidents, illnesses, and even chromosomal events, such as chromosomal anomalies, that are not inherited.

References


Raine A, Brennan P, Mednick SA: Birth complications combined with birth maternal rejection at age 1 year predispose to violent crime at age 18 years. Arch Gen Psychiatry 51:984–988, 1994


Recommended Readings


Raine A, Brennan P, Mednick S: Birth complications with maternal rejection at age one year predispose to violent crime at age eighteen years. Arch Gen Psychiatry 51:984–988, 1994


Diagnostic Obstacles or Resistances

Key Points

- During psychiatric examinations, children (and families) are often defensive or wary about revealing personal information; commonly, these apprehensions are resolved when a positive engagement is achieved.
- During the diagnostic assessment, a number of obstacles and resistances imperil the objectives of the psychiatric examination.
- Examples of good and inadequate management can help the examiner learn how to approach difficult situations during the psychiatric examination.

When an examiner encounters difficult or complex situations during a psychiatric examination, he or she might appeal to the concept of resistance. Only by making a dedicated effort to understand the patient’s circumstances, no matter how complex, intractable, frightening, or hopeless they may appear, will the examiner learn to deal with issues surrounding difficult and complex diagnostic presentations. If the examiner simply appeals to the concept of resistance every time difficulties are encountered during the psychiatric examination, he or she will lose many opportunities for both professional and personal growth. The statement “the child was resistant” could easily be transformed into “the examiner was unable to engage the child.” In the same way that a good chess player knows different openings and knows how to re-
spond to the opponent’s moves, the psychiatrist should know different strategies for responding to diverse clinical presentations (see Chapter 3, “Special Interviewing Techniques”). The psychiatrist needs to have a variety of engagement skills and other rapport-enhancing strategies readily available to meet difficult clinical challenges during the diagnostic examination.

Katz (1990) suggested a number of skills or qualities the examiner needs to have at his or her disposal. These include knowledge, understanding, empathy, and a positive and warm approach toward patients. To these, I add equanimity and a solid awareness of the child’s developmental level.

The psychiatrist should remember that challenging or difficult children (and their families) are not creating difficulties anew for the examiner; the pathology that children and their families display during the psychiatric examination represents enactments or scripts of long-standing patterns of maladaptive behaviors (e.g., internalized conflictive relationships). These patterns require clarification and understanding.

The concept of resistance relates to intrinsic protective factors that block an individual from self-awareness of patterns of behavior or internal conflicts and from willingness to change. Because the concept of resistance puts the burden of the diagnostic difficulties on the patient (discounting the contextual factors or the examiner’s shortcomings in the interview process), and because this concept somehow conveys that the patient is deliberately opposing the psychiatrist’s efforts, I prefer the terms interviewing difficulties and interviewing obstacles.

A child who is not verbally productive is not necessarily resistive. Conditions such as deafness, elective mutism, schizoid disorders, and developmental learning disorders interfere with optimal communication. Language and communication disorders, intellectual limitations, or other neuropsychological deficits also impair receptive or expressive communication processing.

If a child indicates that he or she does not want to participate in an interview, the examiner should review with the child what the examiner knows about the reasons for the evaluation (i.e., the so-called contractual aspects of the examination) and should invite the child to explain what he or she thinks is the reason for the evaluation. Children are often cajoled or manipulated into a psychiatric evaluation by deceptive means. For example, parents may say to a child, “Let’s go see a doctor” or “We’d like you to see a counselor.” Correspondingly, the child may come to the evaluation intending to “get
mom and dad off my back.” In circumstances of passive compliance, the examiner is uncertain whether the child is aware of a problem or acknowledges any feeling of internal distress.

In each diagnostic interview, the examiner needs to ascertain how the child was prepared for the examination. If the examiner suspects deception, he or she should attempt to understand why the family needed to manipulate the child. If deception has been identified, the examiner should attempt to discover other patterns of manipulation or communication deviancy within the family; family deception may be secondary to the power and control the child has gained over the family.

The challenge with a defensive and uncooperative child is to transform the child’s mistrust and defensiveness into a working alliance so the examiner can conduct a productive diagnostic interview. If the examiner may need to release information to the authorities (e.g., police, school officials, abuse investigators), he or she needs to let the child and family know the need for such a disclosure. The examiner should also convey that he or she is working on the child and family’s behalf and that no step in the evaluation process will be taken without their participation.

The examiner needs to continually safeguard the purpose of the interviewing process. If the patient is uncooperative or plainly resistive, the examiner may be greatly tempted to plead for cooperation. Pleading is not recommended; the patient will likely react by providing only partial or even deceptive information, which will leave the nature of the difficulty unclarified and unresolved and the obstacles of the communication unexplored. A better approach is for the examiner to attempt to understand every obstacle presented. Clarifications and interpretations are the optimal means for dealing with any difficulties with communication or rapport or any obstacles in building an alliance.

The following vignette illustrates a novice examiner’s inadequate management of interviewing obstacles.

A 14-year-old white adolescent with a history of conduct problems, self-abuse, suicidal behavior, and polysubstance abuse entered the interviewing room and sat facing away from the examiner. The examiner asked the patient to “sit more appropriately”; she complied. The examiner then pleaded for cooperation and received passive compliance on a number of occasions. The
quality of the ensuing interaction was bland and detached; no rapport was established.

In this vignette, the emotional tone of the evaluation could have been different if the examiner had addressed the resistance from the very beginning by saying, for example, “It seems you do not want to talk to me” or “It doesn’t seem that you want to participate in the interview.” This approach also addresses negative affects that motivate the patient’s lack of cooperation. The same approach should be taken when a patient acts out during the interview. Novice examiners take what seems to be the easiest approach when they simply ask the child to stop misbehaving. The preferable approach is to say to the child, “Now I am beginning to understand why your parents are concerned about your behavior” or “Now you are showing me why you are getting into trouble.”

Effective and therapeutic interventions connect the child’s acting out with the presenting problem and appeal to the child’s adaptive ego (the part of the ego struggling for optimal adaptation). These approaches help the child to improve his or her participation in the examination by increasing the patient’s self-awareness of what he or she is doing and by stimulating the patient’s internal self-controls. A better intervention than asking the child to stop misbehaving would be for the examiner to make the child aware of an overall pattern of maladaptation by saying, for example, “The way you are behaving during this examination makes me wonder if this is the way you behave in other situations. I am beginning to understand why people complain about you.” Demanding passive acquiescence or taking over the patient’s controls is an intervention of last resort. Occasionally, the interviewer has no alternative but to take over the control of the situation for the sake of the patient’s or the examiner’s welfare.

**Classification of Interviewing Obstacles**

Interviewing obstacles may be classified as either pseudo-resistances or true resistances. The latter category may be subdivided further into categories of superficial, moderate (approachable), or severe (insurmountable) interviewing obstacles.
Pseudo-Resistances

Pseudo-resistances are obstacles to the interviewing objectives that are not created by the child’s defensiveness or unwillingness to participate. Pseudo-resistances can be considered from both the examiner’s and the child’s perspectives. A failure in the interviewing process may occur secondary to the examiner’s inability to engage the child, lack of skill, lack of sensitivity to the child’s problems, or lack of attunement to the child’s developmental level. For example, the examiner may not be attentive or sensitive to the presence of language disorders or neuropsychological deficits. In these cases, the obstacles are apparent only because the communication deficits interfere with the child’s ability to participate in the diagnostic interview. An attentive examiner should notice the child’s efforts or attempts to communicate.

When the child obviously does not understand what he or she hears or seems to have a hearing deficit, the examiner should attempt to ascertain the child’s communication intent by paying special attention to the child’s nonverbal behavior (e.g., pointing, signaling, gesturing) or to the child’s use of elementary vocabulary. If the examiner concludes that the child has communication difficulties, he or she should try to maximize the use of nonverbal media (e.g., play observation, drawing) to attain access to the child’s internal world.

Other pseudo-resistances may occur in psychiatric practice. Abused children often act “dumb” and learn not to say anything that might bring the family in contact with the law or other agencies. These children appear superficially resistant; they have learned that being silent prevents them from getting into further trouble. Children who are very anxious frequently become inhibited and freeze in the presence of strangers. Elective mutism should also be considered in the category of pseudo-resistances (see Pedro’s case example in Chapter 3, “Special Interviewing Techniques”).

The examiner needs to be sensitive to each child’s inner sense of internal disorganization and chaos. A child who is on the verge of a psychotic breakdown displays strong denials and avoidance, with all the external appearances of resistance; this is the patient’s attempt to cope with impending psychological fragmentation.
True Resistances

Superficial Interviewing Obstacles

Interviewing difficulties that are readily amenable to cognitive, educational, or reassuring interventions are classified as superficial. They may be approached in the following ways:

1. The examiner clarifies the reasons for the evaluation (i.e., the contractual elements), if these reasons are unclear.
2. The examiner stresses the importance of the child’s participation.
3. The examiner deals with deceptive issues and openly and honestly explains to the child what the evaluation entails, what may be gained by it, and how the examination may help the child.
4. The examiner expresses concern and empathy for the child’s plight.

Children and adolescents who display superficial obstacles commonly use a number of avoidant strategies. For instance, they commonly or repeatedly say, “I don’t know,” “I don’t remember,” “I forgot,” and so on. In general, these responses indicate a deliberate decision not to participate in the interview or not to tell the truth. The examiner should not take these statements at face value. Suggested responses to these evasive and avoidant statements are “Tell me what you know,” “Tell me what you remember,” or “Let’s talk about what you’ve forgotten.” Frequently, the child may give an opening after these simple interventions, and the interview may be elevated to a more productive level; the child may become more revealing or more straightforward, and the new material may improve the diagnostic alliance.

Children who respond to prompts or questions with repetitive and unproductive answers such as “I forgot” and “I don’t remember” are frequently lying or hiding or distorting the truth. The examiner should attempt to transform lying into a problem for the child or into an issue that may cause problems for the child. For example, the examiner could ask the child, “What happens when you don’t tell the truth?” or “What happens to you when you lie?” When children respond with meaningless shrugs or other nonverbal behaviors, the examiner can respond by saying, for example, “My ears cannot understand what your shoulders are trying to say” or “Can you tell me what your shoulders are trying to say?”
Sometimes children become evasive and selective about information shared because they do not want to say anything that may jeopardize their significant others. They do not want to get anybody into trouble. Some children have been ordered not to disclose what is going on in their homes or in their lives. Abused children may have been threatened by the perpetrators not to tell anybody about the abuse. The examiner needs to be aware of this possibility.

**Moderate Interviewing Obstacles**

Moderate interviewing obstacles involve situations characterized by a great deal of externalization of blame and responsibility, overt oppositional stance, bullishness, scapegoatism, and intimidating and aggressive behaviors. These obstacles may be approached as follows:

1. The examiner should follow steps 1–4, listed above in the “Superficial Interviewing Obstacles” section.
2. The examiner attempts to help the child gain insight into his or her current behavior. In a calm, nondefensive manner, the examiner asks the child what happens at home, at school, or in other places when the child behaves as he or she is behaving in the office. The examiner also asks how the child feels while behaving this way and how other people react. The child may gain some awareness of how much he or she enjoys upsetting people. The child may also state that he or she likes to be in control or that he or she protects himself or herself against the anticipation of being controlled by others. These new observations may provide an understanding of the child’s problems and may provide new opportunities to establish or further the diagnostic alliance.
3. If the previous approaches do not work, the examiner uses the oppositional behavior (bullishness, etc.) to make connections between the child’s problems in the real world and the examiner’s observations of the behavior during the interview. The examiner attempts to connect the provocative enactment with the presenting problem. For example, if a provocative and oppositional child becomes defiant or evasive and keeps externalizing blame and responsibility onto others, the examiner should make the child aware of the similarities between the presenting problem that others complain about and the provocative enactment during the interview.
As the oppositional patterns of behavior unfold or begin to be enacted during the interview, the examiner must attempt to deal with such behavior by saying, for instance, “I’m having a hard time trying to understand you” or “You are giving me a very hard time.” Comments like these usually elicit some affective response—a smile, a gesture of satisfaction, a sense of control, or verbalizations indicating that the child likes to be provocative or give people a hard time. When this issue is brought into the open, the examiner interprets the child’s characterological trait or enactment and then attempts to make the child aware of how acting out in that way can create problems for him or her. The examiner can also attempt to connect the enactment with the presenting problem, by saying, for example, “I imagine that when you act like this, you may bring problems upon yourself,” or “What happens to you when you act like this?” The first statement is more empathic, the second more confrontational. These reflective statements place the examiner in the child’s realm, in the sphere of the child’s subjective state.

A similar approach can be taken in dealing with openly aggressive, provocative, or seductive children. The examiner can say, for example, “I am beginning to see why you are here. If you behave like this at school (or at home), it’s no wonder that your teachers (or parents) are getting so upset or so mad at you!” This approach is the most risky because it is the most confrontational; however, if done with compassion or tenderness, it may have a powerful effect. The following case example illustrates a moderate but approachable interviewing obstacle.

Carlos was a 14-year-old Hispanic adolescent with a history of severe neurodevelopmental problems, including Tourette’s disorder and developmental aphasia (with speech apraxia and fluency difficulties). Carlos also displayed psychotic features and had become aggressive at home. On several occasions, he had threatened to kill his mother and her boyfriend(s). Carlos was interviewed because of complaints that he had molested a 5-year-old boy and had attempted to bite the boy’s penis. In the past, allegations had been made of homosexuality and inappropriate sexual behaviors.

During the interview, Carlos displayed a great deal of shame: he tried to cover his face with either his T-shirt or his hands. Carlos was extremely self-conscious of his expressive language problems but had been able to respond to most of the questions until the examiner chose to explore the molestation. The examiner started by saying, “Let’s discuss what you did to the boy.” Carlos exhibited signs of shame or embarrassment. The examiner proceeded,
saying, “I understand you bit his penis.” Carlos took a defensive stance and said, “I don’t remember what happened.” The examiner quickly replied, “I don’t see any reason why you can’t remember. You don’t want to discuss this. There is no reason why you can’t remember what happened.” The examiner asked again, “What happened?” Carlos began to report what happened with the boy. He said that he had tried to molest a number of children before, adding, “I was going to do to other kids what was done to me.”

Carlos then reported that when he was 7 years old, five or six men had raped him on a number of occasions. He said that no one knew; he had not told his mother, fearing that the disclosure could send her to the hospital. He showed significant relief after revealing this victimization. The examiner’s confrontations and challenges to Carlos’s defensive denials were effective and quite productive. Issues related to sexual abuse, posttraumatic stress disorder, and enactment of sexual abuse with other children had been previously missed.

The following case example illustrates the management of a moderate to severe interviewing obstacle through the use of confrontation, interpretation, and humor.

Jackie, a 12-year-old white girl with cerebral palsy, was evaluated for suicidal behavior. She had been living in a group home for a number of months prior to the assessment. During the 48 hours preceding the psychiatric evaluation, Jackie had put a knife, a screwdriver, and a fork to her neck. She had tried to kill herself many times before.

Jackie was not living at home because of her violent behavior toward her mother and younger sister. She also had attempted to fall from her wheelchair in an effort to harm herself. The staff at the group home felt they could no longer take care of Jackie because she was very disruptive to other children and to the program in general. Jackie claimed that she was hearing voices telling her to kill herself. She had been hospitalized a number of times previously for similar suicidal and aggressive behaviors. Jackie also had mild cognitive impairment and some degree of language disorder—in particular, expressive language difficulties related to cerebral palsy.

Jackie came to the evaluation accompanied by her mother and two female staff members from the group home. She had dictated a suicide note to one of the staff members the night before. When a child psychiatry fellow entered the room, just before the attending examiner arrived, Jackie gave the suicide note to her. The fellow advised Jackie to give the note to the examiner, at which time Jackie crumpled up and destroyed the note.

As soon as the examiner entered the evaluation room, he was aware of the
small, spastic child in a big wheelchair. The examiner had many feelings and
intuitions about Jackie’s situation and about how much Jackie hated to be a
person with disabilities.

After the examiner sat down and began the interview, Jackie kept making
eye contact with one of the group home staff members, ignoring the exam-
iner. When the examiner called her attention to this behavior, Jackie said that
she was hearing voices and added that the voices were telling her not to listen
to the examiner. She told one of the staff members that she could not under-
stand the examiner because of his accent. To this, the examiner replied that
he also had problems understanding Jackie (because of her expressive lan-
guage difficulties), saying, “We are in the same boat.” Jackie smiled and made
direct eye contact with the examiner. The examiner realized that the child was
very manipulative and that she could be deceptive or tricky.

As the examiner began to explore Jackie’s suicidal behavior, Jackie said
again that the voices were telling her not to pay attention. The examiner said,
“The voices do not want you to get any help. I expect you to block the voices
so we can go ahead with understanding what is the matter with you!” The
voices stopped interfering.

When the examiner asked Jackie why she was not living with her family,
she ignored the examiner again. The examiner said to Jackie in a humorous
manner, “You are full of tricks” and “You are a tricky girl.” Jackie smiled and
began to talk about her violent behavior, emphasizing with emotion that this
was why she was not living with her mother.

When the examiner asked Jackie why she was mad at her mother, Jackie
became evasive and turned her head away. The examiner proposed that Jackie
was mad at her mother for a number of reasons. The examiner suggested that
Jackie blamed her mother for being in the wheelchair. Jackie smiled and
renewed eye contact. By this time, she had begun to use the word “trick” in a
playful and insightful manner. For example, she said, “My mind plays tricks
on me,” to which the examiner replied, “Like when your mind tells you that
the reason you aren’t living with your mom is because she doesn’t love you?”
Jackie said that she wanted to go home. The examiner asked Jackie what was
expected of her before she could go home, and Jackie said she didn’t know.
The examiner then advised Jackie that she could ask her mother what she was
supposed to do. Jackie’s mother said that they had already discussed this issue
and that she expected Jackie to control her temper before returning home.

The examiner then focused on why Jackie wanted to kill herself. The
group home staff members indicated that they had the distinct impression
that Jackie believed that if she were to be expelled from the group home, she
would be returned home automatically. “That’s not the right way to return
home,” the examiner told Jackie, adding, “You need to learn to control your-
self first.”
The examiner explored Jackie’s problems with self-concept and her sense of hopelessness. He said, “You probably feel that you’re worthless and not good for anything because you’re in a wheelchair.” He then asked Jackie, “What kinds of things are you good at?” Jackie immediately replied that she liked to take care of plants. The examiner praised her for that. The staff members added that Jackie liked listening to the radio and watching television, especially a couple of comedy programs. The examiner asserted that the reason Jackie felt worthless and suicidal was that she blocked the positive qualities she had and paid attention only to her limitations. The examiner added that in the same way that Jackie was able to block the voices, she would have to learn to block bad feelings about herself. The examiner continued, saying that instead of focusing mainly on her limitations and bad aspects of herself, Jackie needed to pay more attention to her positive qualities and the things she could do.

Humor was used a number of times during the interview, especially when the examiner discussed how “tricky” Jackie could be and when he discussed Jackie’s current use of blocking and the other kinds of blocking she needed to do. Although this interview started out with a negative, resistive, and aversive tone, it changed into a very productive exchange. Major gains were made in the therapeutic alliance. The examiner’s active stance against a variety of resistances (e.g., avoidance, denial, opposition, manipulation, dissociation, and activation of psychotic symptoms) was very productive.

After Jackie was admitted to an acute psychiatric program, her case was assigned to another psychiatrist. Jackie’s mother complained about the change and asked that the attending examiner be in charge of the case. The examiner thought the mother was satisfied with the way he had conducted the evaluation, but he felt that Jackie should have a say in this matter. The examiner went to the unit to speak with Jackie and told her that her mother was upset because of the change of doctors. The examiner asked Jackie, “What do you have to say about this?” Jackie replied, “I kind of…want you to be my doctor.” The examiner responded with humor, “But I gave you a hard time!” To this Jackie replied, “You helped me!” This response seemed to confirm that the interview had been effective and had promoted insight.

Clinicians are very apprehensive about using confrontational techniques (see Chapter 3, “Special Interviewing Techniques”). Clinical observations are reassuring in this regard. Hopkinson et al. (1981) quoted Anderson (1968) as stating, “Confrontations given by warm, empathic interviewers increased self-exploration, whereas this was not the effect with the interviewers who lacked these qualities” (p. 413). Turner and Hersen (1994) agreed with the value of confrontation during the clinical interview: “Mild confrontation,
when accomplished with skill and interviewer openness, will also prove to be beneficial in cutting through patient denial and defensiveness. However, the clinician will realize, with increasing experience, how far to push a given patient. Of course with aggressive patients, the issue may become one of safety for the interviewer and those others in the surroundings” (p. 16).

Confrontational techniques are usually contraindicated in children with severe oppositional traits and in those with very strong passive-aggressive features. In these cases, there is a risk of a hostile withdrawal, or worse, an unleashing of overt aggressive behaviors. In either situation, the diagnostic alliance will be lost. Attempts to reengage these children after an episode of dyscontrol are very trying. Confrontation should not be used in working with children who have psychosis or prominent organicity.

Children with a long-standing history of encopresis use marked denial, splitting, omnipotent control, isolation of affect, and dissociative defenses to deal with this humiliating symptom. Confrontation should be avoided with these children, as the following case example illustrates.

Billy, an intelligent 14-year-old white adolescent, presented for clinical consultation at the local state hospital. The consultation was requested because of Billy’s lack of progress in the adolescent acute program and because of conflicts between the program staff and Billy’s mother regarding discharge criteria. Billy had been admitted to the program due to suicidal behavior and serious conflict with his siblings. Encopresis had been a significant complaint, and both Billy’s mother and his siblings were upset over the offensive smell and the associated behaviors. Billy had been in the hospital for almost 4 months, an unusually long stay for an acute admission. Two weeks before the consultation, Billy had been furloughed home; he was returned to the hospital 1 week later because of the encopresis. During the time that Billy stayed in the hospital, encopresis had not been active and he had denied having such a problem.

The examiner had difficulty engaging Billy during the individual interview; Billy came across as passive and distant. He denied knowing why he had been in the hospital in the first place and denied knowing why he was back. The examiner’s efforts to find out what was going on at home were unsuccessful. The only thing Billy was clear and explicit about was that he didn’t like the hospital and wanted to go home. During the interview, Billy’s only active behavior was frequent glancing at his watch. Sensing major resistance, the examiner promised that Billy would be allowed to leave in about 15 minutes. Billy responded by turning around his chair to face away from the ex-
aminer. He slouched and stretched out in his chair, clearly conveying that he was going to sleep and that he did not want to be bothered. As Billy started to withdraw, he began to breathe deeply.

The examiner interpreted these behaviors as avoiding self-regulating mechanisms and acknowledged to Billy that he understood that he was trying to calm himself down. The examiner began to direct Billy’s breathing, asking him to breathe deeply in and out. The examiner also periodically informed Billy how soon he could leave. Billy remained calmed. When the time was over, he stood up and left right away. The examiner stayed calm throughout the session and did not respond to or confront Billy’s passive-aggressive and provocative behaviors.

Patients with encopresis are very passive-aggressive and markedly oppositional. In discussing the case with the staff, the examiner agreed that the best way to deal with Billy’s encopresis and denial was for Billy’s mother to take him on leaves of absence, making it explicitly clear to Billy that he would be taken back to the hospital every time he became encopretic. It would thus be very hard for Billy to hold to his tenacious denial and blame the hospital for his separation from his family.

**Severe Interviewing Obstacles**

Children and adolescents with major behavioral and emotional problems display severe resistances. These children externalize blame and responsibility for their actions and defend themselves with very strong denials and projections. They are also mistrustful, if not overtly paranoid. The following is an example of a patient with severe resistance.

Johnny, a white adolescent, was 14 years old at the time of his diagnostic psychiatric evaluation. He had been in an unending conflict with his parents during the previous year, and the situation had deteriorated during the previous 4 months. In spite of ongoing outpatient therapy for Johnny and his family, no significant progress had been achieved. Johnny had been in a child psychiatric hospital twice when he was 8 years old. He had received antidepressants in the past but had stopped taking medications 3 months earlier.

A couple of days before the evaluation, Johnny announced to his family that he was going to orchestrate his getting kicked out of school, and he accomplished this goal a day before the examination. Johnny had been extremely provocative at school; he had a history of multiple school suspensions for behavioral and aggressive problems. At home, he was unruly: during the previous week, he had come and gone at his own will. He was defiant and had threatened to kill his mother and father many times. Two months earlier, he
had taken his grandparents’ van without permission and had stolen a gun from them.

During the previous 3 months, Johnny’s parents had carried out the following routine before retiring at night: they unplugged the phones, collected their money and other valuables, and put a theft-deterrent device on the car to ensure that Johnny would not call gang members to steal it during the night. Johnny’s parents suspected that he was associating with gang members. His mother had discovered aerosol cans in his room, and the day before the psychiatric examination, he was found with evidence of spray paint around his mouth and nostrils. When confronted, he cried and appeared remorseful, claiming that this had been the first time he had done something like this.

At age 10 years, Johnny had sustained a brain injury in a car accident. After the accident, Johnny forgot and had to relearn many things.

At the time of the evaluation, Johnny was very angry and contemptuous. He constantly externalized blame for his conspicuous acting out, not taking responsibility for his multiple transgressions. He pinned all the blame for his problems on his parents, accusing them of not loving him. He had felt unloved all his life and was quite jealous and hostile toward his younger sister; he was convinced that his parents favored her. His parents were at their wit’s end and didn’t know what to do about their son’s behavior. They felt totally helpless in the face of Johnny’s provocative and defiant behaviors. They also feared for their lives.

Johnny’s father had been a peripheral figure in the family and in Johnny’s life. He had delegated all forms of discipline to his wife, and to make matters worse, she had been incapacitated because of a fractured foot. Doctors were not optimistic about her prognosis for unassisted walking. Johnny believed that his father was his ally, and he boasted that he could manipulate his father. Johnny’s father undermined his wife’s efforts to provide consistent discipline. Partly because of this perception, Johnny’s hostility, antagonism, and vicious verbal attacks and intimidations of his mother had no limit.

The family’s financial situation had worsened since Johnny’s mother became ill. She had a highly paid skilled job before becoming incapacitated. Johnny seemed oblivious to economic realities and continued making demands the family couldn’t meet. Finally, Johnny’s parents were concerned that he was turning into a delinquent and anticipated that he would end up in jail.

One might suspect that this child was anxious to leave home and that he would welcome any placement recommendations, but that was not the case. Johnny strongly rejected any suggestion of placement. Whenever placement was suggested, Johnny would blame his parents for wanting to get rid of him; obviously, this reaction baffled his parents. He threatened suicide when placement was discussed, because he wanted to continue living at home.

Johnny said that the examiner didn’t like him either. From the start, he didn’t believe that the examiner was on his side. He doubted the examiner
could help him. The examiner sensed that Johnny wanted to get into a conflict with him from the very beginning.

Johnny seemed angry; he was also depressed and labile. He denied suicidal ideation but acknowledged homicidal intentions against his parents. Johnny displayed a very rigid projective system, refused to acknowledge any responsibility for his behavior, and perseverated in blaming everything on his parents. The examiner was unable to engage Johnny and couldn’t undermine his projective system.

This is a severe example of a child caught up in a very conflictive, deeply ambivalent relationship with his parents. Strong dependency and regressive tendencies opposed separation-individuation strivings. Jealousy of paranoid proportions was present. Furthermore, the previous brain trauma had left Johnny cognitively impaired, which was reflected in his rigid and narrow cognitive coping style and in his primitive defense mechanisms. Other discord within the family and stressors in the marriage, as well as the mother’s recent incapacitation, contributed to Johnny’s maladaptation. In spite of the examiner’s efforts, the child rejected his suggestions of help.

The following example illustrates another adolescent’s marked denial and severe resistance.

Robert, a 17-year-old white adolescent, was being evaluated after making a suicidal gesture. He had cut his right wrist, expressing a desire to kill himself. Six months before the evaluation, Robert had undergone an above-the-knee amputation of his left leg to prevent the spread of bone cancer (osteosarcoma). The cancer had been discovered when he was examined in an emergency room after his left foot was run over by an all-terrain vehicle. X rays taken at the time revealed the malignancy. Robert had received chemotherapy treatment, and he was using a prosthesis at the time of the psychiatric examination.

Robert had been very athletic and had participated in track and field events at school. He dropped out of school after the surgery. According to Robert, the school objected to his presence because a boy on crutches “could pose liability risks.” Robert had always been in special education classes for learning disabilities. When he was 10 years old, his brother (5 years his senior) “accidentally” shot Robert in the abdomen with a gun. The circumstances surrounding the accident were unclear. One year before the evaluation, Robert’s father had left home. Robert explained that his father was gay.

Robert limped into the interviewing room, sat quietly, and displayed a polite, pleasant demeanor. When Robert was asked to explain why he was in the hospital, he said that he had tried to cut his wrist “to stop his mother from
threatening suicide.” He displayed an anxious and peculiar smile that had an inappropriate quality; this smile resurfaced frequently throughout the evaluation. He denied any previous suicide attempts. He added that his mother was “crazy,” reporting that she yelled at herself in the mirror and had threatened suicide many times before. He made all of these statements while exhibiting bland affect and his peculiar smile.

Because the loss of his leg seemed to be such an important issue, the examiner asked Robert to describe what it was like for him to hear about the cancer. He responded in a nonchalant manner, “It was okay.” When the examiner encouraged him to discuss the loss of his leg or the changes that it brought to his life, he blandly answered, while smiling, that he could no longer run or do a number of things he used to do. The examiner’s multiple attempts to draw from Robert any emotional reaction regarding the loss of his leg and the impact that it had on his self-concept and self-image were met with strong denials. The examiner’s use of countertransference (e.g., the sense of loss, of being handicapped, of being unattractive to the opposite sex) met with no success.

The examiner was not surprised, then, that his attempts to explore with Robert the accidental shooting by his brother, having a gay father, having a “crazy” mother, and other potentially emotion-laden experiences were met with the same blandness encountered when the examiner probed Robert’s emotional response to the loss of his leg. Robert displayed massive denials, marked isolation of affect, affect reversal or reaction formation, and repression (of aggression). He was also a very immature adolescent. Factors that may have contributed to Robert’s affective disturbance were severe learning disabilities and cognitive impairments, plus major developmental problems associated with defective parenting (Robert’s mother had alcoholism and had abused alcohol throughout her pregnancy with him).

Building a diagnostic and therapeutic alliance is impossible with patients who show intense mistrust (and are unable to believe in the goodness, or at least in the neutrality, of the examiner) as a result of strong psychopathology (e.g., severe trauma, fears of psychotic disintegration, or suspicious-paranoid behavior). When sensing panic of fragmentation in prepsychotic children, the examiner should respect the adaptive defenses and support reality testing and any efforts at self-control. Abused adolescents are very apprehensive about psychological evaluations, making any trustful engagement difficult. The examiner should empathize with the adolescent’s feelings about previous betrayals of trust and should encourage verbalizations regarding misuse (or abuse) of prior psychological or psychiatric evaluations.
If an adolescent persists in being resistive and remains uncooperative, the examiner would be wise to “lose a battle” rather than to “lose the war.” When the accounts about the adolescent do not raise questions regarding safety to self or others, the examiner should concede that no understanding or conclusions can be reached without the adolescent’s participation. The examiner should indicate to the adolescent that without his or her participation, there is no point in continuing the process. The examiner should tell the adolescent that as soon as he or she is willing, the examiner will be available for further contact and work. However, when the examiner is dealing with an uncooperative adolescent who is suicidal or homicidal or who has severe functional impairment secondary to mental illness, the examiner is obligated to pursue involuntary commitment.

## Obstacles in Interviewing Families

Families and other complex systems also present obstacles to interviewing. The next case example illustrates the phenomenon of defensiveness within the family system.

Marta, a 15-year-old Mexican American adolescent, was referred to an acute psychiatric program after an almost successful suicide attempt. She had decided to hang herself with a dog chain after a fight with her boyfriend. She was unconscious for an undetermined amount of time before she was found. Marta had neither a history of suicide attempts nor a psychiatric history. She was admitted to a pediatric ward for a complete neurological assessment. A computed tomographic scan of the brain was unremarkable, and a cervical spine series was normal. The extent of the neuronal damage caused by hypoxia was uncertain. A psychiatric consultation in the pediatric ward indicated severe thought disorganization and severe impairment of the sensorium, compatible with delirium.

After Marta was stabilized, she was referred to the acute psychiatric unit. The referring physicians met a significant obstacle when they requested family permission for the transfer. The family insisted that there was nothing wrong with Marta, that this was an accident, that she didn’t mean to try to kill herself, and so on. Only by using strong persuasion were the physicians able to convince the family to agree to the transfer.

Marta spoke blandly about the events preceding the suicide attempt. She referred to the incident nondefensively and without any emotion. The most striking results of the mental status examination were abnormal findings in
mood and affect: her affect was markedly blunted, and she was not dysphoric in any significant way. Her thought processes were unremarkable, but Marta was concrete. She denied suicidal ideation and denied that she would ever try to kill herself again. Marta did not endorse any feelings of sadness or any other depressive feelings. Her sensorium was intact at the time of the assessment.

When the family came to the acute unit, they demanded that Marta be released. They stressed once again that nothing was wrong with her. They said that if she were to need treatment, they would take her to the local mental health center. Any attempt to diminish the family’s resistance was unsuccessful. Marta was discharged from the acute program against medical advice.

Marta’s family is by no means exceptional. In this case, denial within the family was as prevalent and as impervious as it was within the child. In severe family resistance, the identified or symptomatic child is likely a stabilizing figure in the dysfunctional family. In such cases, the family will interfere with any change in the child that may jeopardize the family’s homeostasis. Gross denials are common in dysfunctional families in which the family’s parental subsystem is impaired and the child is necessary to keep the family together. In severe cases of family resistance (see Johnny’s and Robert’s case examples in “Classification of Interviewing Obstacles” earlier in this chapter), the examiner often encounters families that are chaotic and have multiple problems.

References


Recommended Readings


This page intentionally left blank
Countertransference

Key Points

• *Countertransference* can be defined as any emotional state or thought process that diverts the examiner from helping the patient and his or her family in the diagnostic process.

• Countertransference responses occur in any psychiatric diagnostic encounter. For the most part, the examiner can identify the emotional responses elicited during the diagnostic evaluation.

• The examiner can benefit from learning introspective approaches to gain insight and to help avoid intruding emotional states during the diagnostic process.

The topic of countertransference is discussed last in this book because it is the most subjective and probably most complex area of the psychiatric examination. Although the ideas presented here are tentative, I hope they will stimulate examiners to think about these difficult, intriguing, and interesting factors of the diagnostic interview. These suggestions may help evaluators to improve their introspection and insight while conducting diagnostic interviews, which undoubtedly will result in improved interviewing skills.

The diagnostic interview is a transactional process between the child and family and the examiner. During the interview process, the examiner may be stimulated by a number of emotions or affective states. Sometimes, patients can “infect” examiners with positive or negative emotions. At other times, the examiner unexpectedly experiences unwelcome emotions or negative ideation during the diagnostic assessment.
Countertransference difficulties are at the root of many diagnostic and therapeutic mistakes. The experienced interviewer uses the understanding and articulation of his or her own personal affective or cognitive responses during the interview to increase diagnostic information and to further the diagnostic and therapeutic alliance.

A professional attitude, the wish to help, and compassion, sensitivity, and other empathic emotions are positive affective states that aid or assist the interview process; technically, these positive emotions would not be termed countertransference. In this book, I define this term as the emotions or affective states that interfere with the goals of gathering diagnostic information, developing a treatment plan, or helping the patient or family. Any emotional state or thought process that diverts the examiner from helping the patient and family in the diagnostic process will be designated as countertransference.

Countertransference occurs, for instance, when the examiner, out of frustration with the child or family, makes a hasty diagnostic closure, overlooking important diagnostic data; when the examiner assigns a poor prognosis to a child due to an aggressive counterresponse to the child or family; or when the examiner interrupts the diagnostic process and dismisses the child and family.

For the purposes of this chapter, I consider the concept of countertransference in a broader sense, paralleling Khan’s (1981) definition of the term, as a nonpathological incapacity of the interviewer’s affectivity, intelligence, and imagination to comprehend the total reality of the patient (and family). Khan’s definition of the concept corresponds to a contemporary meaning of the term.

Nersessian and Kopff’s (1996) considerations regarding the analytic process are applicable to the psychiatric diagnostic examination. A broader definition of countertransference is considered advantageous. It is now assumed that the entire array of an examiner’s emotional responses—those specifically induced by the child and the family and those brought by the examiner from his or her personal background—must be taken into account in studying the diagnostic and therapeutic process.

Children with aggressive, provocative, and defiant behaviors tend to elicit primary responses in examiners; the same is true of children who are callous and narcissistic. Parents who are physically or sexually abusive and those who are overtly neglectful also elicit strong affective responses in examiners. Parents who are provocative and challenge the psychiatrist’s expertise and expe-
perience, questioning any advice or suggestions given, elicit defensiveness and annoyance in the interviewer.

Simplistic notions of the psychopathological process increase the risk of countertransference. The examiner may attribute the child’s problem to the parents, thinking, for example, that the parents are bad. Alternatively, the examiner might think that the child is constitutionally defective (i.e., “a bad seed”). However, psychopathology is complex and multidetermined. Another conception that promotes primary responses is the attribution of linear causality. In examinations of interpersonal psychopathology, circular causality has a better heuristic value.

The emotions that most frequently interfere with the diagnostic interview are anger, frustration, boredom, and dislike toward the patient or family. These emotions are not difficult to identify and could be transformed and worked through productively for the benefit of the patient and family; however, these same emotions may interfere with the thoroughness of the diagnostic process and may contribute to diagnostic and therapeutic mistakes.

Other emotions (e.g., sexual feelings, desires to obtain gratification from the patient) are more insidious and subtler to detect, and their negative influence may be more difficult to identify, understand, and transform. The examiner has more difficulties acknowledging and working through these emotions, which may be ego-syntonic—that is, related to the pathology of the examiner.

Lewis (1996) discussed a number of issues that may elicit countertransference in clinicians working with children and adolescents; he also indicated common difficulties in these transactions. Aggressive children tend to mobilize strong defenses (or counterresponses) in clinicians. Children with mental retardation are often overlooked and inadequately served, and children with physical deformities may repel some examiners. Lewis listed a number of diagnostic circumstances in which the examiner's countertransference may become problematic (see Table 15–1). The list by no means exhausts the range of complexities or potential complications of countertransference responses.

The management of countertransference responses is complex. Good introspective capacity and self-awareness, equanimity, and extended supervision are fundamental requirements to master this problematic area. In this chapter, I sketch only a few practical ideas for dealing with countertransference responses that may occur during the interview process.
Beginning interviewers tend to avoid or put aside any feelings or emotional reactions that patients evoke in them. When emotional reactions are stimulated, these reactions are commonly disregarded because the interviewer finds these feelings unacceptable to his or her professional or moral standards. The feelings thus evoked are dissociated from the diagnostic process.

In contrast, experienced interviewers pay close attention to their subjective responses and attempt to use them to gain further information about the patient’s problems. In this manner, the experienced examiner deepens his or her emotional understanding of the patient or family and increases his or her knowledge of the patient’s pathology.

### Table 15–1. Diagnostic circumstances in which countertransference may be problematic

<table>
<thead>
<tr>
<th>Circumstances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistent difficulties in understanding the child’s point of view</td>
</tr>
<tr>
<td>Failure to recognize the child’s developmental level</td>
</tr>
<tr>
<td>Expectations that are not commensurate with the child’s developmental level</td>
</tr>
<tr>
<td>Regressive pull; identification with the child’s acting out; wishes to encourage the adolescent to act out against parents or other authority figures</td>
</tr>
<tr>
<td>Failure to understand the child’s transference enactments (i.e., misperceiving the child’s relationship with the examiner or failure to detect the child’s seductive behavior toward the examiner)</td>
</tr>
<tr>
<td>Reactivation of previous conflictive areas in the examiner’s life (i.e., problems with aggression or sexuality or prior problems with parents)</td>
</tr>
<tr>
<td>Reactivation of affective states in the examiner (e.g., depression or activation of affective states such as frustration, boredom, or anger)</td>
</tr>
<tr>
<td>Projection of prior psychological or interpersonal problems onto the child or the family</td>
</tr>
<tr>
<td>Need for approval from the child or the parents and repeated arguing or competing with the child or parents</td>
</tr>
<tr>
<td>Negative response to children with certain personality traits (e.g., conduct problems, drug abuse, promiscuous behavior)</td>
</tr>
<tr>
<td>Negative reaction toward children with deficits or handicaps</td>
</tr>
<tr>
<td>Lack of understanding or dislike for parents who are abusive or neglectful</td>
</tr>
<tr>
<td>Lack of sensitivity to gender, racial, cultural, or religious differences</td>
</tr>
</tbody>
</table>

For the examiner to be able to accomplish this process in an effective and sensitive manner, he or she needs to have a good level of self-awareness and satisfactory emotional self-knowledge. The examiner must be familiar with his or her usual affective range and emotional tone so that when this range or tone changes, the examiner will register the change and note that a particular emotional or affective state has been activated during the examination.

The examiner masters the countertransference through introspection. When the examiner’s emotional tone changes in quality or intensity, the examiner needs to wonder whether he or she is taking part in a patient’s emotional enactment. The examiner may suspect, then, that the patient is dramatizing or enacting an emotional transaction with the examiner. The patient may be unaware of this interpersonal influence on the examiner. In other words, the patient may be completely unaware that he or she is reliving an emotional script (a pattern of interaction) with the examiner. In these circumstances, the patient attempts to provoke particular emotional responses from the examiner. This occurs most frequently because the child or the family project certain emotional states onto the examiner (i.e., projective identification).

The examiner attempts to integrate the information gathered from his or her subjective response and introspective awareness with the data obtained throughout the interview process; this is accomplished by bringing the elicited emotions into a contextual understanding. When the examiner takes into account the context in which these emotions have been activated, he or she may gain an understanding of the patient’s conflictive emotions and may gain further meaning from the intruding affective states.

Countertransference feelings are helpful in aiding the patient to verbalize and to understand certain emotional problems. Some patients are unable to verbalize their emotional problems for a variety of reasons; they enact or dramatize them instead. Technically, they act out the emotional conflict with the examiner rather than expressing it verbally. By verbalizing the way the examiner feels when the patient talks about a given problem, the examiner helps the patient become aware of affects or emotional states that the patient may be unaware of or be disconnected (dissociated) from. The examiner may state openly that he or she feels a particular way when the patient talks about a given subject. The patient usually responds productively to this intervention, abreacting an emotion that had been difficult to put into words, making con-
nections with other aspects of his or her life, bringing forward new material, or reaching a new depth in understanding.

Whatever feeling is evoked during the interview (e.g., fear, anger, anxiety, sexual arousal), the examiner should attempt to make sense of it within the context of the interview. Frequently, the examiner is able to feel or experience affects that the patient has difficulties acknowledging and verbalizing.

Several situations present an opportune time for the examiner to use subjective responses to help patients find meanings or connections that have eluded them. These include instances when the examiner notices that the patient is struggling to find the words to verbalize a problem or to express what he or she feels, or when the patient does not make connections that are rather obvious to the examiner.

If the experienced interviewer becomes aware of a change in his or her normal affective tone, he or she begins to ask a number of private questions: Why am I feeling angry or anxious now? What is it about what the patient is saying or attempting to say that makes me feel fearful or bored? In trying to make sense of these questions, the examiner gains important information about the patient’s inner conflicts.

How does the interviewer move from his or her subjective realm to the interaction and reality of the interview? When the examiner is contaminated or infected by the patient’s prevailing affect, a simple sharing of the examiner’s emotional state may be productive. Thus, if the examiner begins to experience depression or hopelessness, he or she may disclose these feelings to the patient and may wonder aloud what they have to do with the patient’s circumstances, with what the patient is talking about, or with the way the patient is feeling. The patient’s response may help illuminate his or her conflicts or the source of his or her emotional problems. If the examiner feels drawn to the patient’s emotional state, senses compassion for the patient’s situation, or experiences a need to save or to rescue the patient, the examiner may wonder about the patient’s sense of helplessness and dire need for help. If this protective feeling is activated by preschoolers or by children who have difficulties verbalizing their needs, the examiner needs to consider deprivation, neglect, or abuse in the rearing environment.

At times, the understanding and handling of the countertransference responses is more complex, requiring careful introspection, discrimination of the examiner’s affective state(s), assessment of the context of the examiner’s re-
responses, and choosing of an appropriate language to stimulate the patient's own introspective abilities.

If, for example, an interviewer begins to feel scared, and this feeling represents a change from his normal affective tone, he can take one of the following approaches to dealing with this emotional response. In the first, an indirect, approach, the interviewer reflects on his fear, becoming aware that the patient has limited control over her aggressive impulses. The examiner proceeds with the interview, inquiring whether the patient feels any sense of control when she becomes angry, how close she feels to losing control when she gets upset, what things would help her to stay in control, and so on.

In the second approach, which is a direct approach, the interviewer becomes aware of his fear and tells the patient the feeling he is experiencing by saying, for example, “As you talk about this, I am feeling scared” or “You are making me feel scared.” Depending on the patient’s response, the examiner may connect his response with the presenting problem or with responses that people have when they feel scared or intimidated by the patient. For example, the examiner could say, “I wonder if this is the way some people feel about you” or, better, “I wonder if that is the way you make people feel.” These first two approaches are helpful when the patient is provocative or is acting out during the interview.

An even better direct approach, which is applicable when the patient has difficulties connecting her feelings with her thoughts, is for the examiner to pay close attention to his own emotional reactions and attempt to link those responses to the patient’s narrative. For example, if the patient begins to talk about problems with her father and the examiner senses fear, he may approach the awareness of his emotional response in the following manner: “As you begin to talk about the problems you have with your father, I began to feel fearful. Is that the way you feel about him?” Or the examiner might say, “I am feeling fearful. Is that the way your father makes you feel?” Notice that both responses are very empathic; they connect with the patient’s emotional responses. Interventions like these improve the patient’s trust and engagement with the examiner and build the therapeutic alliance. This tentative exploration could be continued in many alternative ways.

When the intervention is correct and timely, the patient’s response or the information that follows may validate the interviewer’s assumptions through the emergence of new data. Such data may provide new diagnostic evidence, which, of course, enriches the interview process.
Sometimes, the examiner is overcome by subjective responses with meanings that may be somewhat familiar. The following is an example of an examiner’s drowsiness response to an overwhelming, probably hopeless, clinical situation.

Martin, a 14-year-old Hispanic adolescent, was brought for a psychiatric evaluation because of progressively worsening difficulties at school, including academic and behavioral problems. According to Martin’s mother, school officials were fed up with Martin’s lack of response to progressively harsher disciplinary measures. Martin was now scheduled to attend an alternative middle school, the most restrictive and structured form of special education programming. According to his mother, this was the last step the school would impose on him prior to expulsion. Martin’s mother believed that her son was no longer welcome at school because he had been relentlessly provocative and didn’t seem to care about the consequences of his behavior. He had earned such a poor reputation that whenever something bad happened at school, his name was at the top of the list of suspects. Martin also had a problem with stealing, and the school had pressed theft charges against him; due to the latter, he was on probation. In one of the walls of her home, Martin’s mother had found a hiding place where Martin kept money he had taken from her. To complicate matters, Martin was dabbling in drugs, the extent of which his mother was unaware. He also was running around with troublesome peers and was failing most of his classes.

Martin continually argued with his mother about her rules. He told the examiner, “I would be better off if my mother stopped bothering me.” His mother was concerned that he had become more isolated, that he stayed in his room a great deal, and that he appeared withdrawn and sad. He cried when he talked about his father’s death. His father had died in a plane crash 3 years prior to the examination. Apparently, his father was an experienced pilot and was giving flying instructions at the time of his death. The circumstances of the crash were unclear and were the subject of ongoing litigation. Martin had been a marginal student before his father’s death, and he and his father reportedly had a close relationship. After his father’s tragic death, Martin’s life began a progressive decline: he was asked to leave a private school because of poor academic achievement, and he was placed in the public school with the expectation that more psychoeducational resources would help him with his learning difficulties. Instead, he developed behavioral problems.

Understandably, Martin’s father’s death had been a shocking experience for the whole family. Martin’s parents had marital difficulties and had been separated prior to the accident. Martin’s mother had been devastated by the accident; she struggled with the loss and had attempted to reorganize her life
by going to college. She also had started working on a law degree. Martin’s only sibling was his 21-year-old sister, who was married and doing well.

Martin had a limited grief reaction after his father died. His mother had complained that Martin had not cried during the funeral and that he was averse to talking about his father’s death.

The examiner had evaluated Martin 6 months earlier for oppositional behaviors and limited interest in schoolwork. At that time, his symptoms were not as severe as they appeared during the reevaluation.

Martin’s mother was very confused and was feeling overwhelmed by her son’s problems and by his lack of response to the school’s and the family’s efforts. She had some unrealistic academic expectations for him and was hoping that putting Martin back in a structured private school would get him on the right path. Martin had told his mother that he wanted to quit school. At some point during the interview, Martin’s mother started crying; she confessed that she feared Martin could end up in jail.

At the time of this examination, Martin and his mother displayed behaviors that had been observed during the previous assessment: Martin sat impassively and quietly, offering no comments about any of his mother’s concerns. His mother cried frequently, conveying a sense of helplessness and confusion. She was puzzled over Martin’s lack of any interest to change. This small adolescent’s passivity, his silent opposition, and his lack of introspective capacity had struck the examiner before. After hearing about the worsening of the overall symptomatology, the examiner asked Martin’s mother to leave. The examiner then made an effort to engage Martin.

Soon after beginning the individual interview, the examiner began to feel so drowsy that he had difficulty staying awake. He was aware that he was prone to experience drowsiness when 1) the clinical situation was overwhelming (hopeless) or 2) the patient was actively opposing or resisting his efforts. After the examiner recognized his drowsiness, he attempted to understand and to mobilize the drowsiness to continue with the clinical reexamination. The examiner said to Martin, “You don’t want to be here.” Martin responded, “I’d rather be at home playing.” The examiner asked, “What is your view? What is going on?” Martin said, “If only my mother were to leave me alone, everything would be okay.” The examiner asked, “How come you are getting into so much trouble?” Martin said that he didn’t know. There was a pause, after which Martin displayed a brief smile. The examiner wondered what had made him smile, what had gone through his mind. He said, “It was funny the way you are looking at me.” Martin responded, “Maybe I am running around in circles, maybe I’m confused.” The examiner praised Martin for saying this. He told Martin, “This is the most honest and positive thing you have said today.”

When the examiner recognized the emerging drowsiness and began to connect it to Martin’s passive-resistive behavior, his drowsiness started to
clear. He began to refocus his cognitive, diagnostic, and therapeutic functions on the case. In this manner, by dealing with the overt obstacle to the examination (i.e., Martin’s resistance), he was able to resolve his drowsiness and regain his optimum level of awareness. The examiner was able to proceed with this difficult examination.

Patients with obsessional personalities have difficulties communicating emotions and often display marked isolation of affect during the psychiatric examination. They evoke a variety of countertransference responses from the examiner, as illustrated in the following case example.

Amy, a 15-year-old white adolescent, was evaluated for aggressive and destructive flare-ups. She had a history of suicidal behavior at age 11 years, and before the evaluation she had overdosed on fluoxetine. Amy was intelligent and had been in the gifted and talented program at school; however, her academic performance had deteriorated during the preceding year. When Amy was 3 years old, her 8-month-old brother survived a near-drowning experience; he was comatose for 18 months, sustained permanent brain damage, and continued to require intensive daily care. She was 8 years old when her parents divorced. She believed her father divorced her mother because he couldn’t stand to see his “brain-damaged child.” Apparently, Amy’s father complained that after the accident, his wife focused so exclusively on the injured child that he and their other children were neglected. Amy had displayed some antisocial acting out during the previous year.

Amy was an attractive and articulate adolescent. She elaborated her thoughts with extreme ease, used sophisticated language, and described events with great detail. After interacting with her for a while, the examiner began to feel bored and became aware that he was not listening. The examiner realized that the patient was not expressing any emotions (the examiner considered that his boredom was a sign that the patient was not communicating affectively). Her productions were filled with rationalizations, marked isolation of affect, displacements, intellectualizations, and strong denials, common defense mechanisms in patients with obsessional character disturbances.

When the examiner became aware of his boredom, he began to pay closer attention to the process of Amy’s communications and commented on it. He told Amy that she had problems expressing emotions. Amy responded positively to this simple intervention: the emotional tone of the interview changed. She began to place less emphasis on factual issues and began to verbalize more affect-laden communication. Her stiff posture, rapid speech, and dry tone changed; her demeanor softened; and she became more at ease and more animated. Also, the quality of her speech improved, becoming more melodious and lively.
Thereafter, the examiner emphasized questions with affective content, and Amy rose to the task; however, she sometimes reverted to affectless communication and to her circumstantial verbalizations. Amy displayed no emotion when narrating her brother’s accident, her parents’ divorce, or her problematic behavior. She displayed more affect when asked what kind of help she needed. She said, with lots of emotion, that she needed individual therapy and therapy with her mother. She explained that she and her mother depended too much on each other. Amy struggled with her mother around issues of control and Amy’s increased need for autonomy.

The preceding case example demonstrates the constructive use of countertransference. The case also exemplifies the importance of providing feedback about the patient’s communication style or communication process (see the “Process Interviewing” section in Chapter 2, “General Principles of Interviewing”). This approach of indicating to the patient that she had problems expressing and verbalizing emotions helped to make the interview more productive.

In the next case example, the examiner experienced anger and transformed this dystonic feeling into a therapeutic understanding.

Britt, a 13-year-old Asian American adolescent, was experiencing hallucinations and was talking about killing herself. Her school counselor called the examiner to request an emergency evaluation. The examiner experienced anger upon the impromptu request, and instead of personally evaluating Britt, whom he had seen before, he delegated the examination to a fellow in child psychiatry. After the fellow examined Britt, she concluded that Britt needed to be in an acute psychiatric program. The fellow presented this recommendation to Britt and her mother. Upon hearing this, Britt began to cry and pleaded that she didn’t need to be in the hospital. Her mother’s demeanor was bland and passive, but she expressed concerns about Britt’s fear of hospitalization. Because Britt was so distressed about the possibility of hospitalization, the fellow presented partial hospitalization as an alternative. Britt’s mother remained impassive. Britt said that she wanted to see her classmates, hinting that she didn’t like the partial hospitalization option either. The examiner asked the fellow to write an appropriate prescription and refer Britt for outpatient therapy. The examiner remained highly aroused with anger toward Britt’s mother.

The following night at 3:00 A.M., the examiner was awakened by a call not related to Britt. After answering the call, Britt’s case came to the examiner’s mind. He began to explore why he was so angry at Britt’s mother.
The examiner had evaluated Britt for the first time 6 months earlier for severe depression and a severe obsessive-compulsive disorder. At the time of the evaluation, Britt was experiencing auditory hallucinations commanding her to kill herself. Britt had severe school difficulties centered on profound immaturity and regressive behaviors; her classmates regularly teased and ridiculed her. Britt’s mother was skeptical of her suicidal intentions and didn’t give any credence to her hallucinations. Britt made allegations of physical abuse by her father and claimed that her father abused alcohol. Her mother denied these complaints.

Britt was a small, unattractive, inhibited, anxious, and immature adolescent. She displayed a regressed demeanor and a somewhat inappropriate affect. She had marked behavior inhibition and endorsed a number of compulsive features, including nail biting and compulsive eating of the skin of the knuckles of both hands. The look of her palms was remarkable: the backs of both hands had large areas of denuded skin. The examiner reflected that Britt’s mother had rejected acute care or partial hospitalization options. The examiner had prescribed an antidepressant and a neuroleptic and arranged for Britt to report back a few weeks later.

When the examiner saw Britt the second time, Britt denied suicidal ideation, but she continued complaining of psychotic features and prominent obsessive-compulsive disorder and anxiety symptoms. No significant symptom changes had occurred, partly because Britt had not taken the antidepressant on a consistent basis and because her mother had refused to give her the neuroleptic. The examiner experienced irritation about the lack of compliance.

Britt’s school continued to express concerns about her inappropriate behaviors. School officials had also heard Britt’s complaints about her father’s alcohol abuse and physically abusive behavior. When Britt’s mother was presented with these allegations, she explained that these were a thing of the past, that her husband had stopped drinking a number of years earlier, and that he was not physically abusive. She also reported that her husband did not believe that Britt’s condition was serious or that she needed psychiatric help. Britt was seen two times more before the latest crisis.

The examiner’s introspection in the middle of the night threw light on the intense anger he had felt toward Britt’s mother. He was aware that he tended to respond with anger in situations of passivity and helplessness. He came to understand his anger and frustration at the mother as a response to her passivity and helplessness regarding her husband’s and daughter’s difficulties. The examiner recognized that Britt’s mother had been hoping that her husband’s alcohol abuse and physically abusive behaviors would go away. She was also hoping that Britt’s symptoms were not serious and that they would go away. The examiner realized that Britt’s mother had difficulties asserting
herself, and this explained her passive and ineffectual behavior with her husband and her daughter.

This insight dissipated the examiner’s anger. Armed with these understandings, he approached the mother in a constructive and positive manner. He made her aware of her passive and ineffectual behavior, of her wish that the problems with her husband and her daughter would go away, and of her fears of confronting her husband and her daughter. For some reason, she was afraid of asserting herself with her husband and hesitated to fight for what she felt her daughter needed. She gained an understanding of her difficulties in dealing with her husband’s and daughter’s problems, changed her attitude, and began to approach these difficulties in a more resolute manner.

The examiner did not direct his raw, unmetabolized anger at Britt’s mother. Instead, he used private, introspective work to transform the anger into a therapeutic tool. The transformation of a raw feeling (i.e., anger) into a therapeutic insight helped the examiner to help Britt’s mother become a more competent parent and a more effective wife.

By using subjective feelings skillfully, the interviewer learns something new and important about the patient’s problems. A similar approach may be used when attempting to understand other feelings elicited during the interview (e.g., sadness, anger, sexual feelings). The examiner needs to integrate the subjective responses evoked during the psychiatric examination and make use of the understanding of these responses in configuring the patient’s comprehensive diagnostic formulation.

References


Recommended Readings


Index

Page numbers printed in **boldface** type refer to tables or figures.

Ability calculation, 182
Abstracting ability, 193
Abuse, 26, 158–159, 220
assessment of truthfulness in abused children, 301–305
coppelation, 303
drawing, 87
evaluation of symptoms, 291–307
benefits of using anatomically correct dolls, 295, 296
bipolar disorder and, 301
developmental consequences of abuse, 296–298, 298
dissociative symptoms, 298–300 mood disorders and, 301
pervasive refusal, 300–301 psychiatric disturbances in sexually abused individuals, 298, 299 self-abusive behavior, 301 special considerations in interviewing abused children, 292–296 validation, 296, 297–298 miscommunication, 303 Acalculia, 323

ADHD. See Attention-deficit/hyperactivity disorder
ADIS-CP. See Anxiety Disorders Interview Schedule for Children for DSM-IV: Child and Parent Versions
Adolescents. See also Case studies assessment, 120–125 common obsessive-compulsive behaviors, 222–223, 224 instruments used in diagnosis of schizophrenic disorders, 234, 235 limit setting, 62–63 personality disorders, 13 process interviewing with lack of emotional reactivity, 42–43 review of psychiatric literature, 386–388 role reversal with, 71 sex and, 32 strategies for evaluation of preadolescents, 35–37, 37 strategies used in psychiatric examination, 44, 44 suicidal, 120–123. See also Suicide technical issues in evaluation, 43–44

457
Adrenoleukodystrophy, 343
Affect, 179–180
  constitutional dysregulation, 206–207
  dysphoric, 210
  self-regulation, 338
Affective aprosody, 360–361
Affective disorder
  in a caregiver, 417–418
  postevaluation feedback to families, 136–137
Affective dysregulation, 275
  in neuropsychiatric interview and examination, 355–357
Affective prosody, 188
Aggression, 272. See also Behavior
  evaluation of behavior, 257–267
  neuropsychiatric interview and examination and, 359–360
Agitation, 175
Agnosia, 348
Akathisia, 175
Akinesia, 171
Alertness, 338
Allostasis, 414
Allostatic load, 414
Amnesia, 181
  in neuropsychiatric interview and examination, 349–353
Amputee, 437–438
AMSIT, documentation of the examination, 167–195
appearance, behavior, and speech, 168–179, 169
  attention disturbances, 177
  behavioral evidence of emotion, 176
  behavioral organization, 173
  cooperative behavior, 174
  exploratory behavior, 171–172
  eye contact, 173
  gait and posture, 170–171
  involuntary movements, 175, 316
  physical appearance, 169–170
  playfulness, 172
  psychomotor activity, 174–175
  relatedness, 172–173
  repetitious activities, 176–177
  speech, 177–179
  intellectual function, 182–183
  mood and affect, 179–180
  overview, 167–168
  sensorium, 180–182
    ability calculation, 182
    concentration, 181
    memory, 181
    orientation, 180
    overall conclusion, 182
  thought, 183–193, 184
    abstracting ability, 193
    associations, 188–189
    coherence, 183
    content, 192
    delusions, 191–192
    goal directedness, 185–186
    insight, 193
    judgment, 192
    logic, 183–184
    metaphorical thinking, 184–185
    perceptions, 189–191
    reality testing, 186–188
Anger dyscontrol, 30
Anhedonia, 209
Anorexia nervosa, 190, 226. See also Self-image
  symptoms, 227
Anterograde amnesia, 181
Antidepressants, 175
Antisocial behavior, in neuropsychiatric interview and examination, 353–355
Anxiety disorders, 176, 210, 368, 416
evaluation of symptoms, 215–220
neuropsychiatric interview and examination and, 357–359
Anxiety Disorders Interview Schedule for Children for DSM-IV: Child and Parent Versions (ADIS-CP), 56
Aphasia, 333–337, 348
Apraxia, 242
Arousal, self-motivation and, 338
Asperger’s syndrome, 362, 363–364
Associations, 188–189
flight of ideas, 188, 256
loose, 188
Ataxia, 155
Ataxia-telangiectasia, 316
Attachment theory, 394–395
Attention-deficit/hyperactivity disorder (ADHD), 147, 174, 210, 347, 368, 416. See also Externalizing symptoms
in neuropsychiatric interview and examination, 337–339
symptoms, 254–256
types, 252–253
Attention disturbances, 177, 353
Autism, 173
in neuropsychiatric interview and examination, 363–365
Behavior. See also Aggression;
Obsessive-compulsive behavior advantages and limitations of behavioral rating scales, 35, 36
antisocial, 260
in neuropsychiatric interview and examination, 353–355
automatic imitative, 171
cooperative, 174
as disturbances of brain function, 419
emotion and, 176
evaluation of aggressive and homicidal, 257–267
evaluation of hyperactive and impulsive, 251–256
evaluation of oppositional, 277–282
exploratory, 171–172
genetic research and, 420
hyperactive, 174–175
inhibition, 171
listing good and bad, 67–68
midline, 318–319
nonverbal
during diagnostic assessment, 40–41
during interview, 77–79
organization, 173
process interviewing adolescent with lack of emotional reactivity, 42–43
regressive, 108–109
in neuropsychiatric interview and examination, 342–344
seductive, 13
Behavioral inhibition, 357–358
Bipolar disorder, 52, 267, 360, 373–374, 415. See also Mania
developmental factors, 269, 269
diagnosis, 275–276, 276–277
evaluation of symptoms, 268–277
in evaluation of symptoms of abuse, 301
Bipolar disorder (continued)  
identification, 213  
neuropsychiatric interview and examination and, 356  
postevaluation feedback to families, 136–137  
symptoms, 271–277, 276–277  
Body dysmorphic disorder, 190  
Borderline personality disorder, 267, 360  
Bulimia nervosa, characterization, 227  
Bullying, 258  
Burns, 144–146  
Calculating ability, in neuropsychiatric interview and examination, 323  
Carrying, psychiatric examination and, 50–51  
CAS. See Child Assessment Schedule  
CASE. See Chronological Assessment of Suicide Events  
Case studies  
aggressive behavior, 263–266  
anxiety, 215–217, 220  
aphasia, 333–336  
bipolar disorder, 225  
cerebral palsy, 151–152, 431–433  
complex partial seizures, 189–190  
confabulation, 304  
confrontation as an engagement technique, 65–67  
countertransference  
angry, 453–455  
constructive use with adolescent, 452–453  
drowsiness as response to adolescent, 450–452  
delusions, 191–192  
dependency ties, 20–21  
depression, 192, 214–217  
developmental interferences of preschooeler, 126–127  
diagnostic and therapeutic engagement, 7–9  
diagnostic resistance  
in an adolescent amputee, 437–438  
in family of suicidal adolescent, 439–440  
disharmony of developmental lines, 391  
displacement in interviewing, 68–70  
disruptive behavior secondary to seizures, 342  
double chair technique, 73–77  
drawing techniques, 80–106  
engaging defiant and confrontational, 7–8  
formulation of an adolescent, 400 early, 400  
with neuropsychiatric features, 404–405  
preadolescent, 400  
using self-psychology theory, 406  
goal directedness, 185–186  
hearing thoughts versus hearing voices, 186  
humor, 109–110  
ilness in the family, 116–117  
inadequate management of obstacles, 425–426  
language, 301  
limit setting, 62–63  
management of moderate diagnostic resistance in an adolescent, 430–431
management of moderate to severe resistance in a preadolescent with cerebral palsy, 431–433
management of resistance in adolescent with encopresis, 434–435
mania, 270–271
manipulation and trust, 22–23
memory problems, 350–353
metaphorical language, 184–185
metaphorical thinking, 184–185
mixed bipolar symptoms, 273–275
neuropsychological deficits, 333–336
nonverbal interviewing techniques, 78–79
obsessive-compulsive disorder, 224–225, 367–368
oppositional defiant disorder, 280–281
with paranoia, 9
partial seizures, 18–190, 238–239
perceptions, 189–190
physical holding of a preschooler, 64
play/playing as an interview technique, 98–106
process interviewing with lack of emotional reactivity, 42–43
prospective interviewing, 106–108
psychopathology in a conflicted adolescent, 417
psychotic guilt, 207–208
rape, 301
reality testing, 186–188
regression associated with adrenoleukodystrophy, 343
role enactment, 72–73
role reversal, 71–72
schizoid disorder, 240
schizophrenia, 231–238
severe resistance in adolescent with conflictive relationship with parents, 435–437
somatic delusions, 191–192
suicidal adolescent, 120–125
suicide, 29
thought disorder, 185–186
traumatic brain injury, 344–346
Catatonia, 171
Central nervous system (CNS) development, 311
dysfunction, 315
Cerea flexibilitas, 171
Cerebellar functions, in neuropsychiatric interview and examination, 320
Cerebral palsy, 151–152, 431–433
Chain inquiry, 192
Child Assessment Schedule (CAS), 56
Children
assessment of a preschooler, 125–128
with cerebral palsy, 151–152
chronic illness and, 398–399
common obsessive-compulsive behaviors, 222–223, 224
developmentally appropriate terms, 41
discipline and, 31
displaced and refugee, 160–161
elements of the child’s subjective world, 96, 100
evaluation
with burn trauma, 144–146
with serious acute or chronic medical illness, 143–144.
See also Death
with hearing impairments, 146–147
illegal immigrants, 162–163
instruments used in diagnosis of schizophrenic disorders, 234, 235
Children (continued)

- living in poverty, 155–156
- manipulation and trust, 22–23
- with mental retardation, 150–151
- migrants, 159–160
- minorities, 156–157
- with neurodevelopmental disorders, 149–155
- with neurogenetic disorders, 152–155
- in out-of-home placement, 157–159
- posttraumatic stress disorder related to terrorism, 161–162
- rapport with examiner/psychiatrist, 3
- review of psychiatric literature, 386–388
- safety, 18
- self-image, 152
- sex and, 32
- sleep in depressed, 209–210
- strategies for evaluation of preadolescents, 35–37, 37
- with visual impairments, 147–149
- weight gain and drugs, 140

Chronological Assessment of Suicide Events (CASE), 26–28

for evaluation of suicidal behavior, 200, 201

CNS. See Central nervous system

Cognition

- cognitive testing, 244
- impairments in neuropsychiatric interview and examination, 347
- negative, 210
- testing, 371

Coherence, 183

Communication, 321

- miscommunication, 303

Comorbidity. See Symptom formation and comorbidity

Comprehensive psychiatric formulation, 383–412

- assessment of external (extrinsic) factors, 397–399, 402
- chronic illness in children and, 398–399
- developmental interferences, 398
- parental and family dynamics assessment, 397–398
- assessment of internal (intrinsic) factors, 390–397, 401–402
- developmental, 390–393
- psychodynamic, 392–396
  - attachment theory, 394–395
  - ego psychology, 392–393
  - handicaps and, 396–397
  - interpersonal theory, 395–396
  - object relations theory, 393
  - peer relations development, 396
  - self-psychology, 394
  - psychodynamic separation-individuation theory, 393–394
- common problems, 406
- objectives, 389, 390
- pragmatics, 400–406
  - extrinsic factors, 402
  - hereditary, constitutional, or organic factors, 401
  - intrinsic factors, 401–402
  - major psychopathological issues, 400
  - perceived main problem, 400–401
  - protective factors, 403
  - reformulation, 407
- review of child and adolescent psychiatric literature, 386–388
Index 463

theory of the process, 388–389
Concentration, 181
deficits in neuropsychiatric interview and examination, 337–339
Conduct disorder, 197, 260–261, 347, 416
traits, 13
Confabulation, 303, 304
Confrontation, as an engagement technique, 65–67
Consensual validation, 189
Construct validity, 57
Content validity, 57
Corticotrophin-releasing hormone, 359
Countertransference, 443–456. See also Examiner; Transference approaches, 449–455
diagnostic circumstances where may be problematic, 445, 446
emotions and, 445
introspection and, 447
management of responses, 445–446
risk, 445
Criterion-related validity, 57
Cytomegalovirus infection, 363

Dating violence, 257–258
Death, 114–115, 202
bereavement suicidal risk after parental death, 202, 203
suicide and, 241
Deficit disorders, 310
Delirium, in neuropsychiatric interview and examination, 339–341
Delusional thinking, 191, 302
parental, 302
Delusions, 175, 191–192
Depersonalization, 190
Depression, 176
academic performance and, 210
evaluation of depressive symptoms, 206–215, 216
negative prognostic features, 215, 216
neuropsychiatric interview and examination and, 356–357
not otherwise specified, 211
as predictor of suicide, 198
role of fathers and, 213
role of mothers and, 212
Depressive disorder. See Depression
Dextroamphetamine, 140

Diagnostic interview
coherence, 54
comprehensiveness, 54
depth, 53
efficiency, 55
fluidity, 53
meaningfulness, 54
qualities, 52–55, 53
specificity, 54
toys and, 35, 37
versatility, 54
Diagnostic Interview for Children and Adolescents (DICA), 56
Diagnostic Interview Schedule for Children (DISC), 56
Diagnostic obstacles/resistances, 423–441
classification of interviewing obstacles, 426–439
pseudo-resistances, 427
true resistances, 428–439
moderate interviewing obstacles, 429–435
severe interviewing obstacles, 435–439
superficial interviewing obstacles, 428–429
obstacles in interviewing families, 439–440
Diagnostic overshadowing, 150
Diagnostic presumption, 150
DICA. See Diagnostic Interview for Children and Adolescents
DID/MPD. See Dissociative identity disorder/multiple personality disorder
DISC. See Diagnostic Interview Schedule for Children
Displacement, interviewing and, 68–70
Disruptive disorders, 242
Dissociation, 145
in evaluation of symptoms of abuse, 298–300
Dissociative identity disorder/multiple personality disorder (DID/MPD), 299
Dominance, in neuropsychiatric interview and examination, 319
Double chair interviewing technique, 73–77
Down syndrome, 153, 316, 347
Drawing as an interview technique, 79–95
81, 83, 84, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 101
in evaluation of symptoms of abuse, 295
sequence of requested diagnostic drawings, 81
Dreams, drawing, 101
Dysarthria, 320
Dysgraphia, 242
Dyslexia, 348
Dysmorphic features, in neuropsychiatric interview and examination, 316
Dysnomia, 322
Dysphoric affect, 210
Dysprosody, 178–179
Eating disorders, evaluation, 226–227
Echolalia, 171
Echopraxia, 171
Education, special, 136
Ego, 392–393
Elective mutism, 219–220
Emotions. See also Behavior
behavioral evidence and, 176
withdrawal, 208–209
Empathy, lack of, 354
Enactments, during the psychiatric examination, 51–52
Encopresis, 434–435
Engagement, diagnostic, 1–15. See also Interview; Psychiatric examination case studies, 7–9, 22–23
confrontation as an interviewing technique, 65–67
creating, 22–23
in evaluation of symptoms of abuse, 293
factors that facilitate, 4, 5
failure, 2–3
with family, 10–12
fostering, 6–7
ingredients, 3–4, 4
observations, 10
obstacles to development, 12–13
reverse, 13–14
structured versus unstructured, 10
techniques not considered helpful, 4, 5
Enuresis, 144–145
Environment, average expectable, 408
Epilepsy, 155
Episodic memory, 350
Examiner. See also Countertransference
conjoined meetings, 6
environment for the interview, 12
goals, 10
lack of attention to patient and
family, 12–13
observations of family behavior
during the family interview,
118–128
personal views, 11
postevaluation feedback to families
and, 138, 139
priorities, 11
rapport with child, 3
relationship with patient, 2
role enactment, 72–73
role reversal, 70–72
suggestions, 302
support for child, 255–256
Executive functions, 353. See also
Impulsivity
in neuropsychiatric interview and
examination, 324, 337–339
Expressive aprosody, 360
Externalizing symptoms, 251–289
evaluation of aggressive and
homicidal behaviors, 257–267
evaluation of bipolar symptoms,
268–277
evaluation of hyperactive and
impulsive behaviors, 251–256.
See also Attention-deficit/
hyperactivity disorder
evaluation of oppositional
behaviors, 277–282
evaluation of substance abuse, 282
Eye contact, 173
Family. See also Parent-child diagnostic
interviews
assessment, 111–129
areas of specific inquiry, 128
death, 114–115
financial stressors, 117
illness, 115–117
intergenerational conflict, 114
marital conflict, 113–114
observations during the
interview, 118–128
when the identified member
is an adolescent, 120–125
when the identified member
is a preschooler, 125–128
presenting problem, 112–113
conflicts with other systems,
117–118
diagnostic resistance of suicidal
adolescent, 439–440
drawings, 86, 92, 93
engagement and, 10–12
Family (continued)
evaluation of anxious symptoms within, 220
influence on child’s suicidality, 204
obstacles in interviewing, 439–440
positive history, 277
postevaluation feedback and, 131–141
Fantasies, 302
lying and, 303
Fears, 219
Fetal alcohol syndrome, 316, 347
Finance, as a stressor, 117
Fine motor skills, in neuropsychiatric interview and examination, 317–318
Finger-to-nose test, 320
Flight of ideas, 188–189, 256
Fluidity, 53
Fragile X syndrome, 153, 311, 316, 347, 363. See also Mental retardation
Freud, Anna, 391–392
Freud, Sigmund, 392–393
Gait, 170–171
Gait apraxia, 155
Generalized anxiety disorder, 359
Goals, directedness, 185–186
Grandiosity, 256, 272, 276
Graphesthesia, 318, 370
Gross motor skills, in neuropsychiatric interview and examination, 316–317
Growth hormone, 414
Guilt, 207–208
Hallucinations, 183, 189, 193–194
autoscopic, 190–191
in evaluation of symptoms of abuse, 300
Health Insurance Portability and Accountability Act of 1996 (HIPAA), 140
Health organizations, 117–118
Hearing impairments, 146–147
HIPAA. See Health Insurance Portability and Accountability Act of 1996
Homicide, 27–28
evaluation of behavior, 257–267
Hopelessness, 209
Humor, 51
as an interviewing technique, 109–110
Hyperactivity, 174–175
evaluation of symptoms, 251–256
Hypersexuality, 256, 272–273, 369
Hyperthelorism, 351
Hypochondria, 190
ICF. See International Classification of Functioning, Disability and Health
ICF-CY. See International Classification for Functioning, Disability and Health—Children and Youth
Ideas of reference, 191
Ideoaffective dissociation, 188
Idioglossia, 348
Illegal immigrants, 162–163
Illness, 115–117
Illusions, 189
Impulsivity, 52, 225. See also Executive functions
evaluation of symptoms, 251–256
in neuropsychiatric interview and examination, 355
Indoctrination, parental, 302
Information, gathering, 61
Inhibition, 171
behavioral, 357–358
Insight, 193
Intellect, function and, 182–183
Intergenerational conflict, 114
Intermittent explosive disorder, 360, 368
Internalizing symptoms, 197–249
  evaluation of anxious symptoms, 215–220
  elective mutism, 219–220
  within the family, 220
  fears, 219
  mood disorders, 220
  physical and sexual abuse, 220
  separation anxiety, 218
  social phobia, 219
  somatization, 219
  worrying, 218–219
evaluation of depressive symptoms, 206–215, 216
evaluation of eating disorders, 226–227
evaluation of obsessive-compulsive behaviors, 220–226
clusters, 222, 223
common behaviors in children and adolescents, 222–223, 224
evaluation of psychotic symptoms, 227–239
developmental events and precursors of early onset schizophrenia, 228, 229
differential diagnosis between pediatric mania and very early onset schizophrenia, 229, 230
instruments used in diagnosis of schizophrenic disorders of childhood and adolescence, 234, 235
evaluation of schizoid symptoms, 239–241
suicidal behavior evaluation, 198–205
bereavement risk after parental death, 202, 203
pertinent areas of inquiry, 200, 201
of suicide attempts, 204–205, 205
International Classification of Functioning, Disability and Health (ICF), 150
International Classification for Functioning, Disability and Health—Children and Youth (ICF-CY), 150
Interpersonal difficulties, neuropsychiatric interview and examination and, 360–361
Interpersonal theory, 395–396
Interview. See also Engagement, diagnostic
AMSIT documentation, 167–195
assessment
  of an adolescent, 120–125
  of a preschooler, 125–128
conducting the individual interview, 22
dependence ties maintenance, 20–21
diagnostic. See Diagnostic interview environment and, 12
evaluation of children
  with burn trauma, 144–146
  displaced and refugee, 160–161
  illegal immigrants, 162–163
  living in poverty, 155–156
  migrants, 159–160
  minorities, 156–157
  with neurodevelopmental disorders, 149–155
  cerebral palsy, 151–152
  hearing impairments, 146–147
Interview, evaluation of children, with neurodevelopmental disorders
(continued)
mental retardation, 150–151
neurogenetic disorders, 152–155
visual impairments, 147–149
in out-of-home placement, 157–159
posttraumatic stress disorder related to terrorism, 161–162
with sensory deficits, 146–149
with serious acute or chronic medical illness, 143–144
general principles of interviewing, 17–59
humor and, 51
length, 256
obstacles
classification, 426–439
in interviewing families, 439–440
moderate, 429–435
pseudo-resistances, 427
severe, 435–439
superficial, 429–429
parent-child, 57
pertinence and relevance, 2
physical contact, 45–48, 46, 49
process interviewing, 2, 19–20, 41–43
qualities of the diagnostic, 52–55, 53
questions and, 38
semistructured, 55–56
setting, 17–18
structured, 34–35, 36, 55–56
versus unstructured, 56
suggestions, 302
technical issues in the evaluation of adolescents, 43–44
technical issues of the diagnostic inquiry, 37–43, 41
techniques, 61–110
confrontation as an engagement technique, 65–67
double chair technique, 73–77
drawing techniques, 79–95, 81, 83, 84, 85, 87, 90, 91, 92, 95, 96, 97, 98, 99, 101
gathering collateral information, 61
humor, 109–110
interviewing in displacement, 68–70
limit setting, 62–63
listing good and bad behavior, 67–68
nonverbal, 77–79
physical holding, 63–65
play and playing techniques, 95–106, 100
prospective interviewing, 106–108
regressive behavior approach, 108–109
role enactment, 72–73
role reversal, 70–72
truthfulness, 2
unstructured, 33–34, 55–56
validity and reliability, 57
Interview Schedule for Children (ISC), 56
Involuntary movements, 175, 316
IQ, 153, 182–183, 325, 334, 352, 356, 371
Irritability, 207
ISC. See Interview Schedule for Children
Judgment, 192
impairment, 277
Klüver-Bucy Syndrome, 369
K-SADS. See Schedule for Affective Disorders and Schizophrenia for School-Aged Children

Language, 353. See also Speech developmentally appropriate terms, 41
disorders, 240, 347
in neuropsychiatric interview and examination, 332–336, 348–349
in neuropsychiatric interview and examination, 321
receptive and expressive functions in neuropsychiatric interview and examination, 321–322
social use of, 321
use of developmentally attuned with preadolescents, 39–40, 41
Laterality, in neuropsychiatric interview and examination, 319
"Leakage," 260
Learning disorders, 180
comprehensive psychiatric formulation and, 396–397
interviewing children with, 328, 332–337
in neuropsychiatric interview and examination, 347–348
Limits, setting, 62–63
Logic, 183–184
Lying, 303
Lyme disease, 368

Major depressive disorder, 416
Mania, 52, 175, 268, 270–271. See also Bipolar disorder
Marital conflict, 113–114, 212–213
postevaluation feedback to families, 132
Medical records, disclosure, 139–140
Melancholia, 176
Memory, 181, 350–353
episodic, 350
in evaluation of symptoms of abuse, 300
in neuropsychiatric interview and examination, 323–324
impairments, 349–353
nonverbal working, 338
procedural, 350
semantic, 350
verbal working, 338
working, 350
Mental retardation, 150–151. See also Fragile X syndrome
Mental status examination, 276
completion, 32–33
neuropsychiatric interview and examination, 315
Methylphenidate, 140
Midline behaviors, in neuropsychiatric interview and examination, 318–319
Migrants, 159–160
Minorities, 156–157
Miscommunication, 303
Mood, 179–180
anxious-depressive position, 220
Mood disorders, 211, 220, 347, 368
dualist model, 220
in evaluation of symptoms of abuse, 301
unitary model, 220
Mood dysregulation, 277
in neuropsychiatric interview and examination, 355–357
Motivation, self-regulation, 338
Movement, involuntary, 175, 316
Mutism
  elective, 219–220
  in neuropsychiatric interview and examination, 320
*Mycoplasma pneumoniae*, 368

Natural catastrophes, 160
Nature-nurture relationship, 418
Neologisms, 348
Neurobehavioral syndromes, 310
Neurocutaneous disorders, 316
Neurodevelopmental disorders, 149–155
Neurofibromatosis, 316
Neuroleptics, 175
Neurological screening, 242–243
Neuropsychiatric interview and examination, 309–381
  elements of neurodevelopmental evaluation, 316–326, 317
  abnormal posture and involuntary movements, 316
  abstraction ability, 323
calculating ability, 323
cerebellar functions, 320
dysmorphic features, 316
executive functions, 324
fine motor skills, 317–318
gross motor skills, 316–317
information, 322
laterality and dominance, 319
memory, 323–324
midline behaviors, 318–319
orientation to time and place, 323
praxis, 320–321
receptive and expressive language functions, 321–322
sensory functioning, 318
writing and reading, 323
elements of the neuropsychiatric history, 312
comprehensive history, 313
conditions indicating need for neuropsychiatric investigation, 314
indications for consultation and testing, 324–326, 328
advantages and disadvantages of commonly used neuropsychological batteries and individualized approaches, 329–330
misconceptions about neuropsychological testing, 331–332
indications for neuropsychological testing, 327–328
interviewing children with learning disabilities and other neuropsychiatric deficits, 328, 332–337
mental status examination of child with neuropsychiatric disorder, 315
neuropsychiatric symptoms, 337–369
  aggressive behavior, 359–360
  antisocial behavior, 353–355
  anxiety, 357–359
  attention and concentration deficits, 337–339
  autistic behavior, 363–365
  cognitive impairments, 347
  delirium, 339–341
  hypersexuality, 369
  impulse control difficulties, 355
  language disorders, 348–349
learning difficulties, 347–348
memory impairments (amnesias), 349–353
mood and affect dysregulation, 355–357
bipolar disorder, 356
depression, 356–357
obsessive-compulsive disorder, 365–369
paraphilia, 369
psychosis, 361–363
regressive behavior, 342–344
seizure disorders, 341–342
social and interpersonal difficulties, 360–361
soft neurological signs, 341
traumatic brain injury, 344–347
neuropsychiatry and psychosocial factors, 312, 314–315
Neuropsychiatric syndromes, 310–311
Neuropsychological deficits, 52
Nonverbal behavior
during diagnostic assessment, 40–41
during interview, 77–79
Nonverbal working memory, 338
Object relations theory, 393
Obsessive-compulsive disorder (OCD), 374. See also Behavior clusters, 222, 223
common behaviors in children and adolescents, 222–223, 224
evaluation, 220–226
neuropsychiatric interview and examination and, 365–369
symptoms, 222, 223
Occupational therapy, assessment, 242
OCD. See Obsessive-compulsive disorder
ODD. See Oppositional defiant disorder
Oppositional defiant disorder (ODD), 253, 368, 416
comorbid conditions, 281–282
evaluation of behavior, 277–282
productive and counterproductive approaches, 278, 280–282, 278–279
Orientation, 180
to time and place in neuropsychiatric interview and examination, 323
Overanxious disorder, 144
Overstimulation, 302
Oxytocin, 374
Pain, 146
Paranoia, 173
in adolescents, 9
Paraphilia, 369
Parent-child diagnostic interviews, 57. See also Family dynamics assessment, 397–398
parental misinterpretation and suggestion, 302
role in diagnostic process, 112
Parents
bereavement suicide risk after parental death, 202, 203
concept of bad, 208
conflictive relationship with adolescent, 435–437
postevaluation feedback to families, 131–141
psychopathology and, 397–398
Patient
physical contact and, 45–48, 46, 49
relationship with examiner, 2
Peer relations, development, 396
Perceptions, 189–191
Personality disorders
  in adolescents, 13
    harm avoidance, 408
    novelty seeking, 408
    reward dependence, 408
Pervasive refusal, 300–301
  in evaluation of symptoms of abuse, 300–301
Pharmacology, 137–138
Phenylketonuria, 363
Phobias, 143
Physical abuse, 220
  misinterpretation, 302
Physical appearance, 169–170
Physical contact, 45–48, 49, 63–65
  benefits and risks to perform a physical examination, 47–48, 49
  holding, 63–65
  principles, 46
Physical examination, 242
  benefits and risks, 47–48, 49
PLASTIC, 361–362
Playfulness, 172
Play/playing, as an interview technique, 95–106, 100
Polyvictimization, 161–162
Positron-emission tomography studies, 348
Posttraumatic stress disorder (PTSD), 144–146, 360
  related to terrorism, 161–162
Posture, 170–171, 316
Prader-Willi syndrome, 153–154, 311, 316
Praxis, in neuropsychiatric interview and examination, 320–321
Procedural memory, 350
Process interviewing, 41–43
Projective testing, 242, 243–244, 352
Prospective interviewing, 106–108
Pseudologia phantastica, 303
Psychiatric examination. See also
  Engagement, diagnostic activity, structure, and support, 48–50
  basic aspects, 23–24
  carrying, 50–51
  case studies, 20–21, 22–23, 29, 42–43
  enactments during, 51–52
  modalities, 33–35
    structured interviews, 34–35, 36
    unstructured interviews, 33–34
  phases, 24–33, 25
    beginning the interview (engagement), 24–26
    completing the mental status examination, 32–33
    extending the exploration, 30–32
    problem presentation, 26–30, 27
  preparation, 18–19
  validity, 55
Psychoactive drugs, 416
Psychological testing, 242, 243
Psychomotor activity, 174–175, 277
Psychosis, 183
  neuropsychiatric interview and examination and, 361–363
Psychotic disorders, 368
Psychotic symptoms, 277
  evaluation, 227–239
    developmental events and precursors of early onset schizophrenia, 228, 229
    differential diagnosis between pediatric mania and very early onset schizophrenia, 229, 230
instruments used in diagnosis of schizophrenic disorders of childhood and adolescence, 234, 235
PTSD. See Posttraumatic stress disorder

Questions, during the interview, 38

Rape, 51–52, 301
Rapport
   building, 4
   definition, 3
Reading, in neuropsychiatric interview and examination, 323
Reality testing, 186–188
Receptive aprosody, 360
Reformulation, 384, 407
Refugees, 160–162
Regressive behavior, in neuropsychiatric interview and examination, 342–344
Rehabilitation, 312
Relatedness, 172–173
Religious groups, family conflicts and, 117–118
Repetition, 176–177
Retrograde amnesia, 181
Rett syndrome, 155, 311
Reverse engagement, 13–14
Role enactment, 72–73
Role reversal, 70–72
Romberg’s sign, 320
Rorschach Inkblot Test, 325

Sadness, 206. See also Depression
Safety, 18
Schedule for Affective Disorders and Schizophrenia for School-Aged Children (K-SADS), 56

Schizoid symptoms, evaluation, 239–241
Schizophrenia, 183, 357
   developmental events and precursors of early onset, 228, 229
diagnosis, 235–239, 361–362
differential diagnosis between pediatric mania and, 229, 230
   instruments used in childhood and adolescent diagnosis, 234, 235
structural brain abnormalities in very early onset and early onset, 364
   symptoms, 228–234
School
   academic performance in depressed children, 210
   family conflicts and, 117–119
   postevaluation feedback to families and, 135
   special education, 136
Seizures, 189–190
   in neuropsychiatric interview and examination, 341–342
Selective serotonin reuptake inhibitor (SSRI) antidepressants, 175
Self-abuse, 261, 264–266
   in evaluation of symptoms of abuse, 301
Self-image, 152, 226. See also Anorexia nervosa
Self-psychology, 394
Self-regulation of affect-motivation-arousal, 338
Semantic memory, 350
Sensitivity, 52–53
Sensorium, 180–182
Sensory functioning, in neuropsychiatric interview and examination, 318
Sentence Completion Test, 325
Separation anxiety, 145, 176, 218
Separation-individuation theory, 393–394
Sex, 32
Sexual abuse, 202, 220
development disruptions fostered by, 296, 298
disclosure, 136, 139
postevaluation feedback to families, 135–136, 139
psychiatric disturbances commonly observed in individuals, 298, 299
validation, 296, 297–298
Sexual identity, 52
Skill acquisition, 312
Sleep, 256
in depressed children, 209–210
Smith-Magenis syndrome, 154
Social phobia, 219
Social skills, 338
neuropsychiatric interview and examination and, 360–361
Somatic delusions, 191–192
Somatization, 219
Special education, postevaluation feedback to families, 136
Speech, 177–179, 277. See also Language disorders, 321
disturbances of speech melody, 178–179
SSRI. See Selective serotonin reuptake inhibitor antidepressants
Stereognosis, 318
Stimulants, 140
Sturge-Weber-Dimitri syndrome, 316
Subaffective temperament, 207
Substance abuse, 31–32, 170, 242
evaluation of behavior, 282
postevaluation feedback to families, 136
See also Case studies adolescent, 120–125
behavior evaluation, 198–205
bereavement risk after parental death, 202, 203
pertinent areas of inquiry, 200, 201
of suicide attempts, 204–205, 205
death and, 241
diagnostic resistance in family of suicidal adolescent, 439–440
intentionality, 29
Suicidal ideation, 138
Sullivan, Herbert "Harry" Stack, 395–396
Symptom formation and comorbidity, 413–422
allostasis, 414
allostatic load, 414
Symptoms. See Externalizing symptoms; Internalizing symptoms; Symptom formation and comorbidity
Synophrys, 351
Tarasoff v. Regents of the University of California, 28, 135
Tardive dystonia, 305
Target detection/selection, 338
Temperament dysregulation, 207
definition, 407–408
Terrorism, posttraumatic stress disorder and, 161–162
Texas Commission on Alcohol and Drug Abuse, 140
Thematic Apperception Test, 325

Thought, 183–193, 184
   metaphorical, 184–185

Thought disorder, 183

Tourette's disorder, 347, 368–369

Toxoplasmosis, 363

Toys, 35, 37

Transference, 3. See also
   Countertransference

Traumatic brain injury, 344–346
   in neuropsychiatric interview and examination, 344–347
   sequelae, 345

Trichotillomania, 170, 222

Truthfulness, 2
   assessment in abused children, 301–305

Tuberous sclerosis, 316

Turner syndrome, 154, 311

Validity, 57

Velocardiofacial syndrome, 154–155

Verbal working memory, 338

Victimization, 258

Vigilance, 338

Violence, 258–259
   dating, 257–258
   history of, 262, 266–267
   risk of, 260

Visual impairments, 147–149

Visuospatial skills, 372

Wechsler Intelligence Scale for Children, 325, 352

Weight gain, 140

WHO. See World Health Organization

Williams syndrome, 154, 311

Word salad, 188

Working memory, 350

World Health Organization (WHO), 150

Worrying, 218–219

Writing, in neuropsychiatric interview and examination, 323