

Developmental Disorders – Chapter 14

Attention Deficit/ Hyperactivity Disorder: Clinical Description

- Symptom clusters:
 - Inattention
 - Doesn't seem to listen when spoken to directly
 - Often loses things necessary for tasks or activities
 - Often fails to give close attention to details or makes careless mistakes in schoolwork, work or other activities
 - Hyperactivity
 - Often fidgets with hands or feet or squirms in seat
 - Often leaves seat
 - Often is "on the go" or acts as if "driven by a motor"

- Impulsivity
 - Often blurts out answers before questions have been completed
 - Often has difficulty awaiting turn
- Must have 6 or more symptoms of Inattention or Hyperactivity–Impulsivity
- Secondary problems
 - Poor academic performance
 - Unpopular and rejected by peers
 - Negative feedback from parents & teachers
 - Low self-esteem
 - Increased risk for substance abuse & conduct problems

AD/HD: Statistics

- Prevalence
- Developmental Progression

Causes

- There appears to be a hereditary factor
- Brain damage
- Very little evidence supporting association of allergens or food additives with AD/HD
- Smoking during pregnancy

AD/HD: Treatment

- Biological Interventions
 - Psychostimulant medication (e.g., Ritalin & amphetamines; Cylert; Adderall)
- Psychosocial Interventions
 - Behavioral interventions
 - Parent training
 - Stop & Think

Learning Disorders: Clinical Description

- Reading disorder (Dyslexia)
 - Achievement below expected performance
 - Significant discrepancy between reading achievement & predicted achievement based on age, intellectual ability, & education
- Mathematics disorder
- Disorder of written expression
- Communication Disorders are closely related

Learning Disorders: Statistics

- Incidence & Prevalence
- Secondary problems
 - Dropping out of school
 - Low employment rates

Causes

- Diverse & complex origin including genetic neurobiological & environmental factors
 - Possible genetic basis
 - Subtle brain damage
- Reading disorders more common in English-speaking countries due to complexity

Learning Disorders: Treatment

- Educational intervention
 - Efforts to directly remediate the underlying basic *processing* of problems
 - Efforts to improve *cognitive* skills through general instruction in listening, comprehension, & memory
 - Targeting the *behavioral* skills needed to *compensate* for specific problems with reading, mathematics, or written expression

Pervasive Developmental Disorders Autistic Disorder: Clinical Description

- Impairment in Social Interaction
 - Nonverbal communication Peer interaction
 - Joint attention
 - Emotional reciprocity
- Impairment in Communication
 - Delay in language development
 - Impaired ability to have conversations
 - Stereotyped & repetitive or idiosyncratic language
 - Impaired development of pretend play

- Restricted Behavior, Interests, & Activities
 - Encompassing preoccupations & interests
 - Adherence to nonfunctional routines or rituals
 - Motor stereotypies
 - Preoccupations with parts of objects

Features

- A Spectrum Disorder
- Diagnosis is Developmental
- Diagnosis is Retrospective

- Early diagnosis with M-CHAT
 - The earliest signs of autism or PDD are the failure of these behaviors to develop:
 - Joint Attention
 - Protodeclarative pointing (indicating interest in something)
 - Following a point
 - Bringing objects to show a parent
 - Social Relatedness
 - Interest in other children
 - Imitation
 - Communication
 - Responding to name

Autistic Disorder: Statistics

- Prevalence
- Gender differences
- Universal phenomenon
- There are people with autism along the continuum of IQ scores

Causes

- Psychological & Social Dimensions
 - Not the result of refrigerator moms
- Biological Dimensions
 - Genetic Influences
 - Neurobiological Influences
 - CT scan & MRI findings

- **Asperger's Disorder**

- Similar to Autistic Disorder, but the individual usually has IQ scores within the average range & does not have language delays

- This may represent a form of Autistic Disorder that falls at the upper end of the spectrum, rather than representing a separate disorder

Autistic Disorder: Treatment

- **Applied Behavior Analysis (ABA)**
 - Discrete trial method (Lovaas)
- **Developmental Intervention**
 - Floortime (Greenspan)
 - Continuous “circles of communication” rather than stimulus–response
- **Other psychosocial interventions**
 - Social skills / pragmatic teaching
 - Peer training
 - Parent training
 - Inclusion

- **Biological Treatments**

- Medical intervention has had very little success
- Some medications can play a very limited role in improving social interaction & communication and decreasing hyperactivity, impulsivity, aggression, and obsessive preoccupations

- **Experimental Approaches**

- Sensory integration
- Facilitated communication

Mental Retardation: Clinical Description

- People with MR display a broad range of abilities & personalities
- Included on Axis II of DSM–IV
- **Diagnostic criteria**
 - Significantly subaverage intellectual functioning (IQ at about 70 or below)
 - Concurrent deficits or impairments in adaptive functioning
 - Communication, self–care, home living, social/interpersonal skills, use of community resources, self–direction, functional academic skills, work, leisure, health, safety
 - Onset before age 18

- **Almost all classification systems differentiate individuals with MR in terms of their ability. In DSM–IV:**

- Mild: IQ between 50 or 55 to 70
- Moderate: IQ between 35-40 and 50-55
- Severe: IQ between 20-25 and 35-40
- Profound: IQ below 20-25

Mental Retardation: Statistics

- Incidence & Prevalence
- Gender Differences
- Chronic course
- Prognosis varies considerably

Causes

- **Hundreds of known causes including**
 - Environmental
 - Prenatal
 - Perinatal
 - Postnatal

- Genetic influences
 - Dominant
 - Tuberous sclerosis
 - Recessive
 - Phenylketonuria (PKU)
 - X-linked
 - Lesh-Nyhan syndrome
- Chromosomal influences
 - Down Syndrome
 - Trisomy 21
 - Most common chromosomal form of MR
 - Incidence is tied to maternal age

- Chromosomal influences
 - Fragile X syndrome
 - Williams syndrome
 - Caused by microdeletion involving 16-20 genes on one copy of chromosome 7q.11.32
 - First identified as a syndrome in 1961
 - Physical phenotype – insufficient elastic
 - Cardiovascular problems
 - Gastrointestinal problems can appear in late adolescence or early adulthood
 - Extreme oversensitivity to sounds
 - Premature aging
 - Elfin faces
 - Average IQ is 55-60 with a normal distribution
 - Speech & language
 - Language is at age level
 - Very expressive & articulate; good narrative & discourse skills; initially appear bright

- Psychological & Social Dimensions
 - Cultural–familial retardation
 - Presumed cause of up to 75% of cases of MR
 - Tend to score in the mild range of MR & have relatively good adaptive skills
 - Contributions include abuse, neglect, & social deprivation
 - Two views:
 - Difference View
 - Developmental View

Mental Retardation: Treatment

- Involves teaching these individuals the skills they need to become more productive & independent
- Early intervention can target those who are at risk for developing cultural–familial retardation because of inadequate environments, e.g., Head Start
- Behavioral interventions
 - To teach basic self–care as dressing, bathing, feeding, & toileting
 - Task analysis
 - Chaining
 - Reinforcement

- Behavioral interventions
 - Communication training: teaching them to make their needs & wants known for personal satisfaction & participation in most social activities
 - To address behavior problems such as aggressive or self–injurious behavior
 - Punishment
 - Alternatives to punishment – functional analysis
- Supported employment
- Inclusion