

AUTISTIC SPECTRUM DISORDER

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61

PERVASIVE DEVELOPMENTAL DISORDER

- refers to a group of disorders characterized by abnormalities in communication and social interaction and by restricted repetitive activities and interests.
- These differed by the level of severity, specific symptoms, and in some cases underlying pathology
- Usually development is abnormal from infancy, and most cases are manifested before the age of 3 years

AUTISM SPECTRUM DISORDER:

- ? Autism
- ? Asperger's disorder
- ? Childhood disintegrative disorder
- Rett's syndrome
- Pervasive developmental disorder not otherwise specified

EPIDEMIOLOGY

• The 4:1 ratio of diagnosis in males: females.

• Symptoms typically recognized between 12 and 24 months old, but varies based on severity.



ETIOLOGY

- Etiology of ASD is multifactorial:
- •■ Prenatal neurological insults (e.g., infections, drugs), advanced paternal age, and low birth weight.
- Fifteen percent of ASD cases are associated with a known genetic mutation.
- •■ Fragile X syndrome = most common known single gene cause of ASD.
- Other genetic causes of ASD: Down syndrome, Rett syndrome, tuberous sclerosis.
- High comorbidity with ID.
- Association with epilepsy

What is the DSM-5?

DSM-5 collapses the core diagnostic impairments into two domains(A and B):

A. Problems with social interaction and communication:

- 1)Impaired social/emotional reciprocity (e.g., inability to hold conversations).
- 2) Deficits in nonverbal communication skills (e.g., decreased eye contact).
- 3)Interpersonal/relational challenges (e.g., lack of interest in peers).

B. Restricted, repetitive patterns of behavior, interests, and activities:

- 4)Intense, peculiar interests (e.g., preoccupation with unusual objects).
- 5)Inflexible adherence to rituals (e.g., rigid thought patterns).
- 6) Stereotyped, repetitive motor mannerisms (e.g., hand flapping).
- 7) Hyperreactivity/hyporeactivity to sensory input (e.g., hypersensitive to particular textures).

C. Abnormalities in functioning begin in the early developmental period

D. Not better accounted for by ID or global developmental delay. When ID and ASD co-occur, social communication is below expectation based on developmental level

E. Causes significant social or occupational impairment

ASSOCIATED BEHAVIORAL SYMPTOMS THAT MAY OCCUR IN AUTISM SPECTRUM DISORDER

- •Disturbances in Language Development and Usage: no longer considered a core feature of autism spectrum disorder, Language deviance, as much as language delay, difficulty putting meaningful sentences together, even when they have extensive vocabularies.
- intellectual Disability.
- Irritability.
- Instability of Mood and Affect.
- Response to Sensory Stimuli.
- Hyperactivity and Inattention.
- Precocious Skills.
- Insomnia.
- Minor Infections and Gastrointestinal Symptoms.

ASPERGER SYNDROME (AS)

- ? Also known: schizoid disorder of childhood, autistic psychopathy, level 1 autism spectrum disorder.
- Usual onset : before two years old with long term duration
- ? Causes : poorly understood .
- ? considered high functioning form of autism.
- Has high heritability, genatics has not determined conclusively, environmental factors play a role.
- It is neurodevelopmental disorder characterized by significant difficulties in social interaction and non-verbal communication, along with restricted and repetitive patterns of behavior and interest.
- Differs from other forms of ASD by relatively unimpaired language and intelligence.

RETT SYNDROME

- Rare, non inherited, genatic, postnatal neurological disorder that occurs mainly in girls (in contrast with autism which primarily happens in males).
- [] Slow onset of symptoms, starts around 1-2 years of age (similar to autism).
- ? Hallmark: regression of cognitive or motor skills.
- Provided the significant expression in brain (only in female –fatal in male), mutation in MECP2 gene (significant expression in brain).

? Clinical manifestations :

- * deceleration of head growth * loss of purposeful hand skills
- * gait and motor abnormalities * loss of spoken language
- * sterotypic hand movement (hand to mouth licking , grabbing)

CHILDHOOD DISINTEGRATIVE DISORDER (CDD)

- Also known as HELLERS SYNDROME and DISINTEGRATIVE PSYCHOSIS.
- Rare condition characterized by late onset of developmental delays or sever and sudden reversals in language, social function and motor skills.
- Usual onset 3 4 years of age .
- Causes of CDD is unknown CDD has some similarity to autism and considered low functioning form of it
- •S and S: between the ages of two and ten skills acquired are lost almost completely in at least two of the follwing six functional areas: * expressive language skills * social skills and self care skills * control over bowel and bladder * motor skills * plays skills
- lack of normal function also occurs in two of the following areas: * social interaction * communication * repattive behavior and interest patterns
- •Treatment involves both behavior, environmental therapy and medication.

PDD-NOS

. The term atypical autism denotes a residual category for pervasive developmental disorders that resemble ASD but do not meet the diagnostic criteria for any of the syndromes within this group

PROGNOSIS

? ASD is a chronic condition. The prognosis is variable,

but the two most important predictors of adult outcome

are level of intellectual functioning and language impairment.

Only a minority of patients can live and work independently in adulthood.

TREATMENT

There is no cure for autism, but various treatments are used to help manage symptoms and improve basic social, communicative, and cognitive skills:

- 1) Early and Intensive Behavioral Intervention (EIBI)
- 2) Social Skills Training.
- 3) Behavioral therapy.
- 4) Cognitive-Behavioral Therapy
- 5)Low-dose atypical antipsychotic medications (e.g., risperidone, aripiprazole) may help reduce disruptive behavior, aggression, and irritability.



