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Introduction

Autism spectrum disorder is a term used to describe a constellation of early-appearing social communication deficits and repetitive sensorymotor behaviors associated with a strong genetic component as well as other causes.







Epidemiology



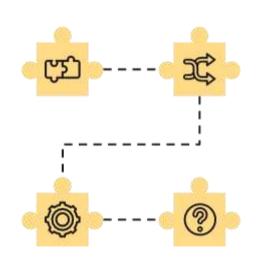


Epidemiology



About 1 child every 100 has autism

Characterstics appear in early childhood before the age of 2 but usualy dignosed later



he prevalence of autism is over four times greater among boys than girls

The abilities and needs of autistic people vary and can evolve over time



Etiology







Etiology



Both genetics and environmental factors early in development play a vital role in the etiology of autism



Current research has not identified clear neuropathological markers of autism that can provide a basis for diagnostic criteria



Growing evidence suggests disturbances in the neurotransmitter system may be associated with ASD, mainly GABA





Autism spectrum disorder DSM-5 diagnostic criteria



A. Persistent deficits in social communication and social interaction across multiple contexts, as manifested by the following, currently or by history:

1Deficits in social-emotional reciprocity, ranging, for example, from abnormal social approach and failure of normal back-and-forth conversation; to reduced sharing of interests, emotions, or affect; to failure to initiate or respond to social interactions.

2Deficits in nonverbal communicative behaviors used for social interaction, ranging, for example, from poorly integrated verbal and nonverbal communication; to abnormalities in eye contact and body language or deficits in understanding and use of gestures; to a total lack of facial expressions and nonverbal communication.

3Deficits in developing, maintaining, and understanding relationships, ranging, for example, from difficulties adjusting behavior to suit various social contexts; to difficulties in sharing imaginative play or in making friends; to absence of interest in peers.









B. Restricted, repetitive patterns of behavior, interests, or activities, as manifested by at least two of the following, currently or by history

1Stereotyped or repetitive motor movements, use of objects, or speech (e.g., simple motor stereotypies, lining up toys or flipping objects, echolalia, idiosyncratic phrases).

2Insistence on sameness, inflexible adherence to routines, or ritualized patterns or verbal nonverbal behavior (e.g., extreme distress at small changes, difficulties with transitions, rigid thinking patterns, greeting rituals, need to take same route or eat food every day).

3Highly restricted, fixated interests that are abnormal in intensity or focus (e.g, strong attachment to or preoccupation with unusual objects, excessively circumscribed or perseverative interest).

4Hyper- or hyporeactivity to sensory input or unusual interests in sensory aspects of the environment (e.g., apparent indifference to pain/temperature, adverse response to specific sounds or textures, excessive smelling or touching of objects, visual fascination with lights or movement).







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









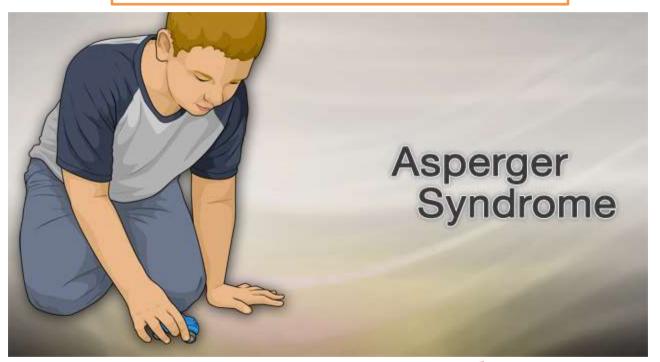


- •Disturbances in Language Development and Usage: no longer considered a core feature of autism spectrum disorder, Language deviance, as much as language delay, difficulty putting meaningful sentences together, even when they have extensive vocabularies.
- intellectual Disability.
- Irritability.
-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





ASPERGER SYNDROME



Mild autism



Also known: schizoid disorder of childhood, autistic psychopathy, level 1 autism spectrum disorder.

1-Usual onset: before two years old with long term duration

2-Causes: poorly understood.

3-considered high functioning form of autism.

4Has high heritability, genatics has not determined conclusively, environmental factors play a role.

5Ht is neurodevelopmental disorder characterized by significant difficulties in social interaction and non-verbal communication, along with restricted and repetitive patterns of behavior and interest.

6-Differs from other forms of ASD by relatively unimpaired language and intelligence .momotouns speech (not speeking same as his peers)

ASPERGER'S CHARACTERISTICS







Delayed Motor Development



Poor Social Skills



Development of Harmful Psychological Problems



Detail Oriented



Persistence



Not Socially Driven





Masters of Routine

RETT SYNDROME

What is Rett Syndrome?

Rett syndrome affects roughly 1 in 10,000 to 15,000 females born globally. In boys, the disease is considerably less common.



Guess what!!!! not included anymore In ASD according to DSM5

- * 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.
- *Genatics: x-linked dominant (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









Differences of ASD

Table 28-1	IVE DEVELOPMENTAL DISORDERS AND AUTISM SPECTRUM DISORDERS			
AUTISM	ASPERGER'S SYNDROME	RETT'S SYNDROME	CHILDHOOD DISINTEGRATIVE DISORDER	PERVASIVE DEVELOPMENTAL DISORDER—NOT OTHERWISE SPECIFIED
Delayed and disordered communication Atypical social interaction Restricted range of interests Onset before 3 yr of age	Similar to autism except language skills relatively intact Usually not cognitively delayed	Almost always affects girls Regression in skills between 6 and 18 mo of age	Clinically significant regression in skills (language, social skills, bowel and bladder control, play motor skills) before 10 yr of age	Features of 1 of the other autism spectrum disorders, but insufficient for a specific diagnosis



Prognosis and Managment





PROGNOSIS

34 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.

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







treatment



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. Most important(applied behavioral analysis)
- 4) Cognitive-Behavioral Therapy
- 5)Low-dose atypical antipsychotic medications (e.g., risperidone, aripiprazole) may help reduce disruptive behavior, aggression, and irritability.





Thank You!

