

# AUTISM

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## AUTISM

**Primary Disciplinary Field(s):** Psychiatry, Neurology, Psychology, Developmental Science

### 1. Core Definition and Diagnostic Context

**Autism**, now formally classified as **Autism Spectrum Disorder (ASD)**, is defined as a complex, lifelong neurodevelopmental condition characterized by a pervasive behavioral syndrome stemming from underlying neurological dysfunction. The defining features of the disorder involve persistent deficits across two primary domains: social communication and social interaction, coupled with restricted, repetitive patterns of behavior, interests, or activities. This condition significantly impairs an individual's ability to engage in reciprocal social interactions and utilize both verbal and nonverbal communication effectively across various contexts.

The concept of a spectrum highlights the vast heterogeneity in presentation, severity, and associated features across individuals diagnosed with ASD. Symptoms must manifest early in the developmental period, typically becoming noticeable by the age of three, as noted in previous diagnostic systems such as the DSM-IV-TR. The clinical criteria mandate that these characteristics result in clinically significant functional impairment in social, occupational, or other crucial areas of life. Historically, when diagnosed under the DSM-IV-TR, the more severe presentation was designated as **autistic disorder** and categorized within the broader group of Pervasive Developmental Disorders.

The deficits observed in ASD are not merely delays but qualitative differences in the fundamental processes of social cognition and sensory integration. This includes difficulty processing emotional cues, understanding intentions, and integrating different streams of social information. The resulting behavioral profile often involves challenges in establishing and maintaining relationships, difficulty adjusting behavior to suit specific social contexts, and limited capacity for imaginative play, which relies heavily on abstract social understanding.

### 2. Historical Background and Conceptual Shifts

The term **autism** was first introduced into psychiatric nomenclature in 1910 by the Swiss psychiatrist Eugen Bleuler (1857-1939). Bleuler originally coined the term, derived from the Greek *autos* (self), to describe one of the primary, fundamental signs of **schizophrenia**. In this context, autism referred to a pathological form of abnormal introversion and egocentricity, where the patient retreated from the external world into a subjective, internal reality dominated by their own desires and fantasies. This early usage focused on a symptom of adult psychosis, distinct from its modern definition as a developmental condition.

The modern understanding of autism as a distinct syndrome began in the 1940s. In 1943, Leo

Kanner published his landmark paper detailing a group of children exhibiting "early infantile autism," characterized by an extreme desire for sameness and profound isolation. Kanner separated this condition from existing diagnoses, emphasizing its onset in infancy. A year later, Austrian pediatrician Hans Asperger described children with similar social deficits and intense, focused interests but often with preserved or superior linguistic and cognitive abilities, a condition later recognized as Asperger's Syndrome.

The conceptual framework evolved significantly throughout the late 20th century, moving away from discredited theories linking autism to poor parenting and toward a robust appreciation of its biological basis. This transition culminated in the inclusion of autism as a formalized category in the DSM series, solidifying its place as a neurodevelopmental disorder. This historical trajectory illustrates a progressive refinement of the concept, shifting from a symptom of severe adult mental illness to a primary developmental diagnosis affecting the core architecture of social and communicative processing.

### 3. Primary Characteristics: Social and Communicative Impairments

Impairments in reciprocal social interaction represent a critical diagnostic feature of ASD. These deficits manifest as observable difficulties in initiating or sustaining back-and-forth social exchanges. An individual with autism may struggle to engage in mutual sharing of interests, emotions, or affect, often appearing unresponsive to or disinterested in the social world. This difficulty extends to nonverbal communication behaviors used for social interaction, such as making appropriate eye contact, utilizing or interpreting facial expressions, and understanding body postures that convey meaning. The impairment is qualitative, meaning it reflects a difference in the manner of social engagement rather than merely a refusal to engage.

The domain of communication is equally affected, encompassing both verbal and nonverbal skills. Verbal impairments can range from complete absence of speech to highly sophisticated but atypical language use. For example, some individuals may display difficulties with prosody (the rhythm and tone of speech) or exhibit immediate or delayed echolalia, where phrases or sentences are repeated without communicative intent. A key issue is often the deficit in pragmatic language--the ability to use language effectively and appropriately in diverse social contexts, such as taking turns in conversation or understanding implicit meanings.

Furthermore, the capacity for imaginative activity and the development of theory of mind--the ability to attribute mental states (beliefs, intents, desires) to oneself and others--is often compromised. This diminished imaginative activity, particularly in social play, restricts the ability to understand and predict social behavior, contributing significantly to challenges in peer relationships. These core deficits mean that basic social concepts that are often intuitive to neurotypical individuals require explicit teaching and structured learning for individuals on the spectrum.

## 4. Repetitive Behaviors and Restricted Interests

The second primary set of criteria defining ASD involves the presence of restricted, repetitive patterns of behavior, interests, or activities. This domain is crucial for diagnosis and often includes a noticeable adherence to routines and a marked resistance to change. Individuals may exhibit extreme distress or behavioral outbursts when minor changes are introduced to established schedules or environments. This insistence on **sameness** provides a sense of predictability and security in a world that can otherwise feel overwhelming or chaotic.

Another common manifestation involves stereotyped or repetitive motor movements, often referred to as self-stimulatory behavior or **stimming**. These may include complex whole-body movements like spinning, or simple acts like hand-flapping, rocking, or toe-walking. While the functions of these behaviors vary, they often serve regulatory purposes, helping individuals manage sensory input or anxiety. These movements are defined as clinically significant when they are highly repetitive, interfere with functional activity, or persist beyond developmentally typical periods.

Finally, the restricted repertoire of interests is characterized by fixated interests that are abnormal either in their intensity or focus. An individual might develop an overwhelming preoccupation with a highly specific topic--such as historical dates, specific mechanical details, or scientific phenomena--to the exclusion of other age-appropriate pursuits. This intense focus contrasts sharply with the broader range of interests typically seen in peers and often dominates their conversational output, reflecting a deep-seated cognitive rigidity in attention and focus.

## 5. Pervasive Developmental Disorder Classification (PDD)

Prior to the introduction of the DSM-5 in 2013, the official diagnostic term for autism was **Autistic Disorder**, which fell under the umbrella category of Pervasive Developmental Disorders (PDDs) in the DSM-IV-TR. The PDD category included conditions characterized by pervasive impairments in social interaction and communication, alongside the presence of stereotypic behaviors. The classification required that the symptoms become evident before the age of three years. This system structured the diagnostic landscape by recognizing several distinct, though related, conditions.

The PDD grouping included five specific diagnoses: Autistic Disorder, Asperger's Disorder, Rett Syndrome, Childhood Disintegrative Disorder, and Pervasive Developmental Disorder Not Otherwise Specified (PDD-NOS). Autistic Disorder was diagnosed based on meeting specific threshold counts across the triad of deficits (social interaction, communication, and restricted behaviors). The existence of PDD-NOS reflected the substantial number of individuals who exhibited significant autistic traits and functional impairment but did not meet the full, strict numerical criteria for Autistic Disorder, highlighting the inherent spectrum nature of the condition even within the categorical framework.

The PDD framework, however, faced growing criticism regarding its reliability and validity, particularly concerning the inconsistent application of criteria for Asperger's Disorder and PDD-NOS. The perceived boundaries between these categories were often artificial, leading to variations in diagnosis depending on geographical location or clinical setting. This ambiguity necessitated the conceptual restructuring that led to the development of the unified Autism Spectrum Disorder framework in the subsequent diagnostic manual.

## 6. Modern Diagnostic Frameworks (DSM-5)

The DSM-5 unified all previous PDD diagnoses into the single category of **Autism Spectrum Disorder (ASD)**. This foundational change recognized that autism is a dimensional condition, with variations in severity rather than distinct, separate disorders. The diagnostic criteria were streamlined from a triad of impairments to a dyad: persistent deficits in social communication and social interaction (combined into one domain) and restricted, repetitive patterns of behavior, interests, or activities (the second domain).

The current framework requires clinicians to specify the level of severity based on the amount of support required by the individual, ranging from Level 1 (requiring support) to Level 3 (requiring very substantial support). This severity rating must be applied independently to both the social communication domain and the restricted behavior domain, allowing for a far more nuanced functional assessment than was possible under the previous categorical system. The emphasis on required support helps bridge the gap between diagnosis and appropriate intervention planning.

Another crucial change was the removal of the requirement for onset before age three, replaced by the stipulation that symptoms must be present in the early developmental period. This acknowledges that while the underlying neurological differences are congenital, the functional deficits may not become fully apparent until the child faces increasing social demands, such as those encountered in school. This modern approach ensures that the diagnosis accurately reflects the complexity and continuity of the autistic phenotype across the lifespan.

## 7. Etiology and Neurological Basis

Autism Spectrum Disorder is overwhelmingly understood to be a condition of neurological origin, characterized by profound differences in brain development and function, consistent with the source definition of a **behavioral syndrome of neurological dysfunction**. Research confirms that ASD is highly heritable, with genetic factors accounting for a significant portion of risk. However, the genetic architecture is highly complex, involving interactions between hundreds of genes, many of which influence synaptic function, neuronal growth, and brain connectivity.

Neuropathological investigations have identified several consistent atypicalities, including differences in brain overgrowth during infancy followed by slower growth, altered cortical thickness,

and structural anomalies in regions vital for social cognition, such as the amygdala and the superior temporal sulcus. These differences in brain wiring are thought to underlie the observed difficulties in processing and integrating complex information, particularly social cues and sensory input, leading to the behavioral symptoms.

The concept of **fundamental principles** related to sensory processing is also essential to understanding the neurological basis of ASD. Many individuals exhibit hypo- or hyper-reactivity to sensory stimuli, which means they may be either overwhelmingly sensitive to ordinary sounds or lights, or, conversely, under-responsive to pain or temperature. This atypical sensory processing is intrinsically linked to the neurological function and contributes significantly to the restricted and repetitive behaviors often used for self-regulation.

## 8. Further Reading

[Autism Spectrum Disorder \(Wikipedia\)](#)

[Diagnostic and Statistical Manual of Mental Disorders \(DSM-5 Official Site\)](#)

[Eugen Bleuler and the History of Autism](#)

[Autism Speaks: Understanding ASD](#)