



ASD Demographics

- > Prevalence is 1 in 36 children
- > ASD is reported to occur in all racial, ethnic, and socioeconomic groups.
 - Prevalence is measured higher in white children than children of color, but this gap is reducing
- ASD is about 4 times more common among boys than among girls
- > A genetic component has been found
 - Identical twins: 36-95% likelihood of both being diagnosed if one is
 - Non-identical twins: 0-31% likelihood of both being diagnosed if one is
 - Parents who have a child with ASD have a 2%–18% chance of having a second child who is also affected
- About 10% of children with autism are also identified as having Down syndrome, fragile X syndrome, tuberous sclerosis, or other genetic and chromosomal disorders
- Almost half (44%) of children identified with ASD has average to above average intellectual ability



Diagnostic Criteria for F84.0 Autism Spectrum Disorder

- A. Persistent deficits in social communication and social interaction across multiple contexts, as manifested by <u>all of</u> the following, currently or by history (examples are illustrative, not exhaustive; see text):
 - Deficits 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.
 - Deficits 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.
 - Deficits in developing, maintaining, and understand 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.

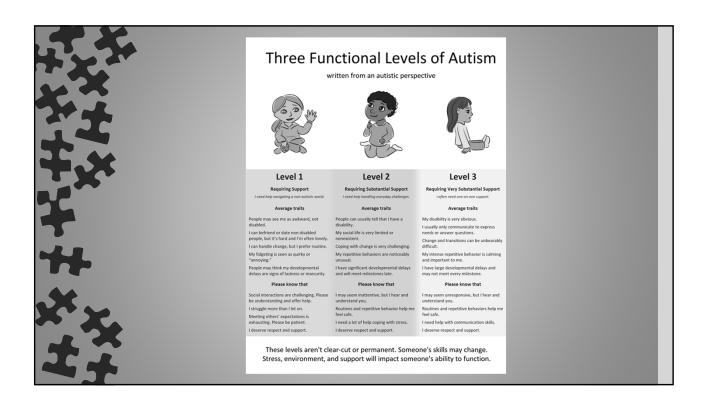


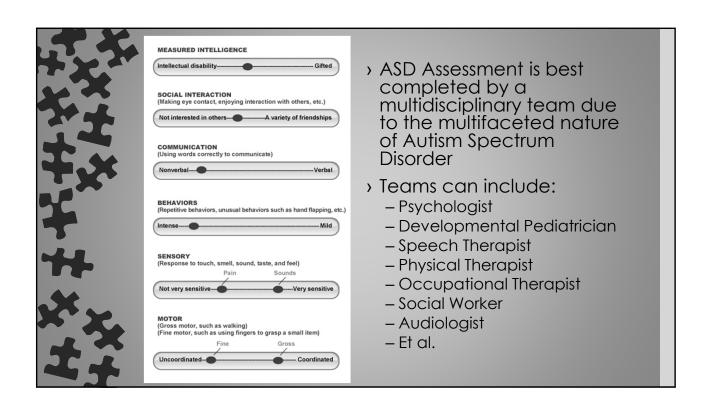
- B. Restricted, repetitive patterns of behavior, interests, or activities, as manifested by at least two of the following, currently or by history (examples are illustrative, not exhaustive; see text):
 - 1. Stereotyped or repetitive motor movements, use of objects, or speech (e.g., simple motor stereotypes, lining up toys or flipping objects, echolalia, idiosyncratic phrases).
 - 2. Insistence on sameness, inflexible adherence to routines, or ritualized patterns of verbal or nonverbal behavior (e.g., extreme distress at small changes, difficulties with transitions, rigid thinking patterns, greeting rituals, need to take same route or eat same food every day).
 - 3. Highly restricted, fixated interests that are abnormal in intensity or focus (e.g., strong attachment to or preoccupation with unusual objects, excessively circumscribed or perseverative interests).
 - 4. Hyper- or hyporeactivity to sensory input or unusual interest 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).

Diagnostic Criteria for F84.0 Autism Spectrum Disorder Continued

- C. Symptoms must be present in the early developmental period (but may not become fully manifest until social demands exceed limited capacities, or may be masked by learned strategies in later life).
- Symptoms cause clinically significant impairment in social, occupational, or other important areas of current functioning.
- E. These disturbances are not better explained by intellectual disability (intellectual developmental disorder) or global developmental delay. Intellectual disability and autism spectrum disorder frequently co-occur; to make comorbid diagnoses of autism spectrum disorder and intellectual disability, social communication should be below that expected for general developmental level.

Note: Individuals with a well-established DSM-IV diagnosis of autistic disorder, Asperger's disorder, or pervasive developmental disorder not otherwise specified should be given the diagnosis of autism spectrum disorder. Individuals who have marked deficits in social communication, but whose symptoms do not otherwise meet criteria for autism spectrum disorder, should be evaluated for social (pragmatic) communication disorder.







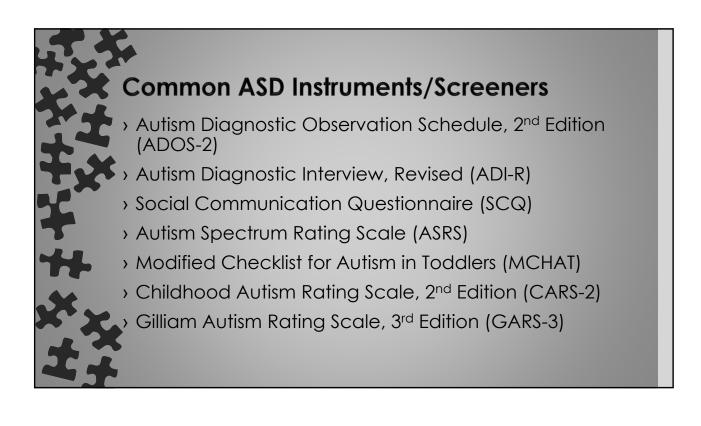
When can we diagnose ASD?

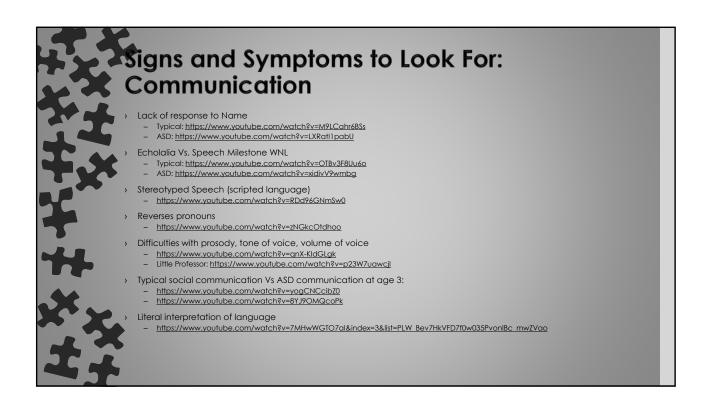
- A diagnosis of ASD at age 2 can be reliable, valid, and stable
- Even though ASD can be diagnosed as early as age 2 years, most children are not diagnosed with ASD until after age 4 years
- The ADOS-2 is able to be administered to children as young as 12-month-old
- > Parents of children with ASD notice a developmental problem before their child's first birthday
 - Concerns about vision and hearing were more often reported in the first year
 - Differences in social, communication, and fine motor skills were evident from 6 months of age

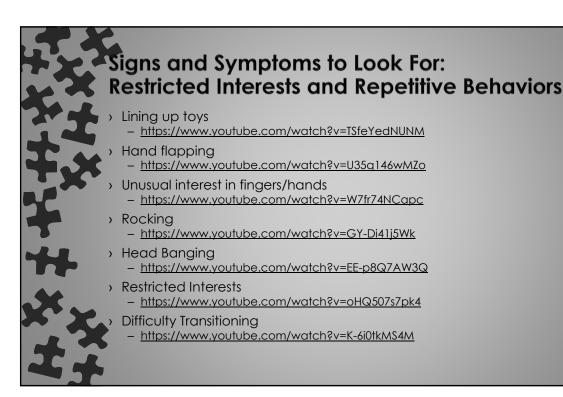
etcī ADOS-2

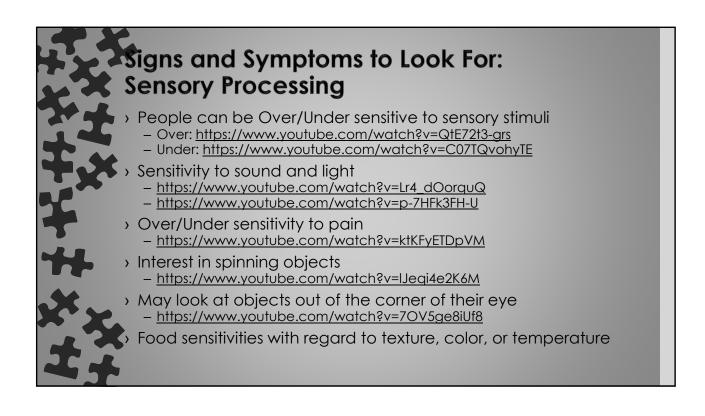
ASD Assessment Components for a Psychologist

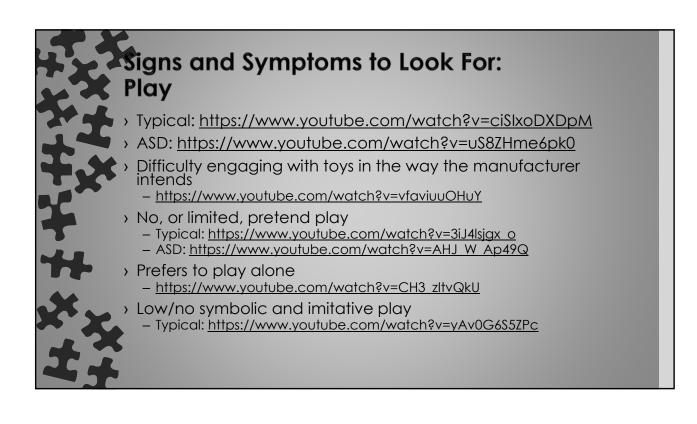
- > Biopsychosocial interview
- Developmental interview
- Adaptive functioning measure (Vineland-3, ABAS-3, etc.)
- Cognitive testing (Bayley-3, WISC-V, WAIS-IV, DAS-2, WJ-IV,
- Behavioral/Emotional/Sensory Processing measures (BASC-3, Conners CBRS, SP2, etc)
- > ASD specific measures (ASRS, SRS-2, ADOS-2, BAPQ, ADI-R,
- Informal play-based assessment (if not completing an

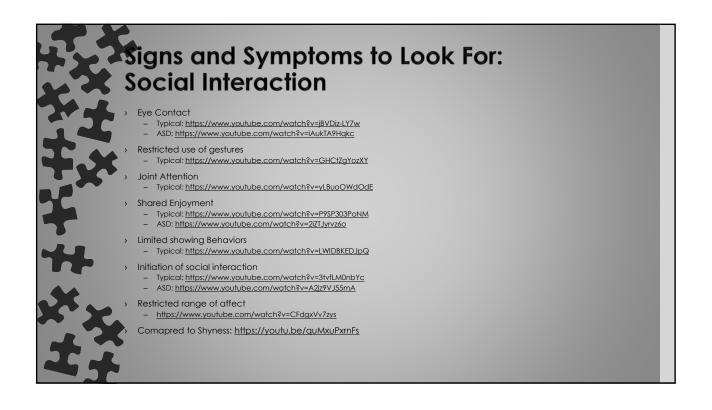


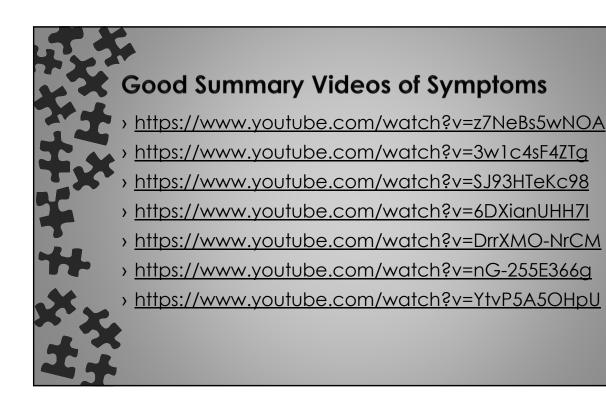


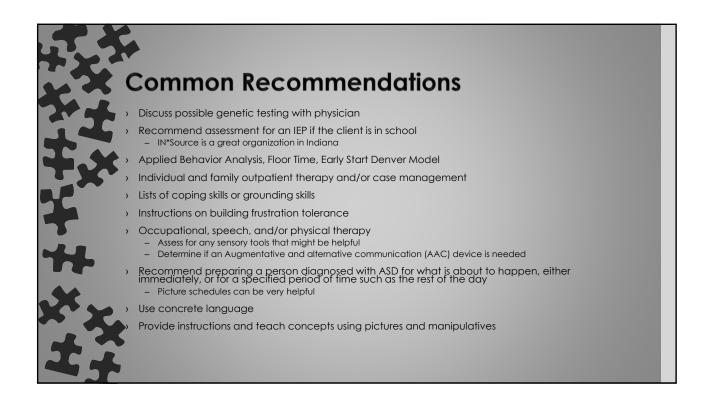


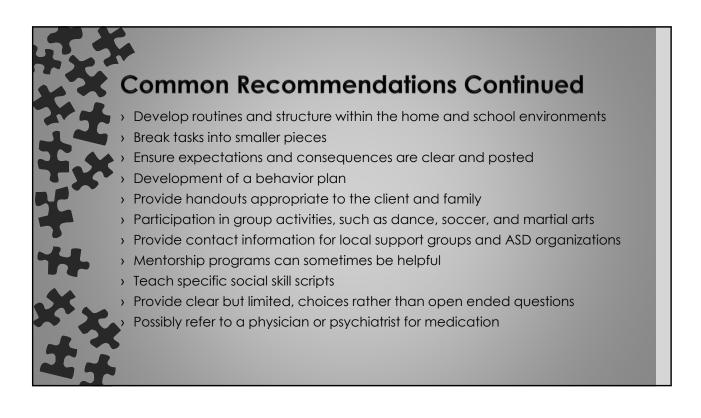
















Works Cited

American Psychiatric Association. (2022). Neurodevelopmental disorders. In Diagnostic and statistical manual of mental disorders (5th ed., text rev.).

Baio J, Wiggins L, Christensen DL, et al. Prevalence of Autism Spectrum Disorder Among Children Aged 8 Years — Autism and Developmental Disabilities Monitoring Network, 11 Sites, United States, 2014. MMWR Surveill Summ 2018;67 (No. SS-6):1–23. DOI: http://dx.doi.org/10.15585/mmwr.ss6706a1

Ha, V., Whittaker, A., & Rodger, S. (2017), Assessment and diagnosis of autism spectrum disorder in hanoi, vietnam, Journal of Child & Family Studies, 26(5), 1334-1344, doi:10.1007/s10826-017-0655-2

Johnson, C.P. Early Clinical Characteristics of Children with Autism. In: Gupta, V.B. ed: Autistic Spectrum Disorders in Children. New York: Marcel Dekker, Inc., 2004;85-123.

Kanne, S. M., Randolph, J. K., & Farmer, J. E. (2008). Diagnostic and assessment findings: A bridge to academic planning for children with autism spectrum disorders. Neuropsychology Review, 18(4), 367-384.

Kleinman, J. M., Ventola, P. E., Pandey, J., Verbalis, A. D., Barton, M., Hodgson, S., . . . Fein, D. (2008). Diagnostic stability in very young children with autism spectrum disorders. Journal of Autism & Developmental Disorders, 38(4), 606-615. doi:10.1007/s10803-007-0427-8

Langmann, A., Mingebach, T., Weber, L., Schmidt, H., Smidt, J., Stehr, T., Stroth, S., Kamp-Becker, I., Albertowski, K., Roessner, V., Kucharczyk, K., Wolff, N., Becker, J., Ghahreman, M., & Poustka, L. (2018). Diagnostic accuracy of the ADOS and ADOS-2 in clinical practice. European Child & Adolescent Psychiatry, 27(9), 1193–1207. https://doi.org/10.1007/s00787-018-1143-y

Lord, C., Risi, S., DiLavore, P. S., Shulman, C., Thurm, A., & Pickles, A. (2006). Autism from 2 to 9 years of age. Archives of General Psychiatry, 63(6), 694-701.

McClain, M. B., Otero, T. L., Haverkamp, C. R., & Molsberry, F. (2018). Autism spectrum disorder assessment and evaluation research in 10 school psychology journals from 2007 to 2017. Psychology in the Schools, 55(6), 661–679. https://doi.org/10.1002/pits.22133

Penner, M., Anagnostou, E., Andoni, L. Y., & Ungar, W. J. (2018). Systematic review of clinical guidance documents for autism spectrum disorder diagnostic assessment in select regions. Autism: The International Journal of Research & Practice, 22(5), 517-527. doi:10.1177/1362361316685879

Simek, A. N., & Wahlberg, A. C. (2011). Test review: Autism spectrum rating scales. Journal of Psychoeducational Assessment, 29(2), 191-195. doi:10.1177/0734282910375408

https://www.cdc.gov/ncbddd/actearly/autism/video/