IN THE NAME OF GOD

Adolescent with ASD

Sara Dehbozorgi Child Psychiatrist ASD is a neurodevelopmental condition in which challenges with social communication and restrictive and repetitive behaviors manifest early in development, but may not be apparent until the social demands exceed capabilities.



There is a tremendous amount of variation (heterogeneity) in terms of both symptom presentation and functional ability in individuals with autism spectrum disorder (ASD).

The challenges faced by adolescents and emerging adults with ASD can be better understood by considering the unique sociocultural changes that most individuals experience within these stages.





Adolescents and young adults with ASD have : poor social relationships outcomes poor employment outcomes poor independent living outcomes

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In early childhood, clinical concerns revolve around communication, social and adaptive capabilities, and maladaptive behaviors associated with ASD, such as aggression, self-injurious behavior, and hyperactivity.

> In preschool and later school years, children with ASD often experience difficulties with forming relationships with peers, exacerbated by co-occurring hyperactivity or problems with emotion regulation.

> > Adolescence increased social demands.

Early challenges experienced by younger children become more pronounced as the social environment increases in complexity and as children are expected to have more autonomy.

> Many adults with ASD live at home after high school, are not employed or in education, and face challenges establishing friendships.

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Studies reported age-related differences or changes in the severity of autism symptoms, with a general pattern of improvement with age. Autism symptoms in yound

Autism symptoms in young adulthood are less severe than reported in early and middle childhood.





Adolescence and young adulthood appear to form the most difficult period in the lives of high-functioning individuals with autism spectrum disorders.

The challenges often faced by those without intellectual disabilities appear to result from the demands of social relationships, academics, employment, and independent living in those with ASD, which may exacerbate core ASD deficits or co-occurring conditions.

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Outcome

For adolescents and young adults, the outcome literature in young adulthood is reasonably extensive.

As first noted by Kanner, Rodriguez, and Ashenden (1972), some individuals with autism make noteworthy gains in adolescence while a minority appear to lose skills (Howlin, 2013).

In up to 50 % of cases, there are overall gains in communication and adaptive skills as well as reduced symptom severity; this is most likely if the overall IQ is > 55.





For those individuals losing skills in adolescence,

the onset of seizure disorder and mental health comorbidities may pose difficulties in adolescence.

individuals with ASD are now entering college and post-secondary programs, resulting in increased opportunities for adult self-sufficiency and higher levels of occupation.

Findings include that although virtually all sample members met the criteria for Autistic Disorder earlier in their childhood, just over half would have met autism criteria if current scores were used to complete the diagnostic algorithm; that adolescents were more likely to improve in the Reciprocal Social Interaction domain than the adults, whereas the adults were more likely to improve in the Restricted, Repetitive Behaviors and Interests domain, and there were no differences in severity of symptoms between cohorts in the Communication domain.

• First, the adult cohort appeared at present to be less severely impaired than the adolescent cohort in the manifestation of abnormal symptoms, including verbal symptoms and many restricted, repetitive behaviors and interests.

- The developmental course of the abnormal behaviors of autism may be one of reduction of symptoms from adolescence into adulthood.
- This pattern is similar to the course of schizophrenia, in which positive symptoms (bizarre behavior, hallucinations, delusions) tend to abate over time.

• The literature would lead us to expect continued development in social and communicative skills from adolescence to adulthood in individuals with autism, rather than the pattern of poorer functioning of adults than adolescents was evident in this sample.

IQ increases from late childhood to adult life points to ongoing development in the second decade of lifepoint





The relationship between the severity of early symptoms of autism and the outcome remains unclear, with at least a few studies suggesting that the severity of social skills impairment is the most significant outcome predictor. In one study, 480 individuals (adolescent to middle-aged adults) were surveyed, that showed :

high rates of anxiety (45 %)

depression (27.9 %)

one-third indicated they believed they had an undiagnosed mental health condition

over 80 % received more than one medication

45 % attending some post-high school educational program

60 % continue to live with their families

one-third had had romantic relationships and in a few cases had been married (sometimes with offspring)

Most of the sample reported major limitations in social connections

Even for the most able adults, limitations in social interaction, adaptive/daily life skills, and occupational status were striking

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Social relationships

• Adolescents with ASD tend to have low friendship quality, if they have any friends, and to be on the periphery of social networks at their school, if not isolated.

• Adolescents with ASD sometimes describe friendships in terms suggesting social and emotional reciprocity, such as mutual caring, responsiveness, and forgiveness, they often focus on concrete areas like common interests.

• Individuals with ASD may identify making friends as their greatest social challenge, which may relate not only to knowing how to make appropriate choices regarding compatible social status groups or personalities, but also to failing to initiate social interactions, and passively waiting for others to approach to avoid social rejection.

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 One critical challenge in forming and maintaining relationships lies in conversational skills.

• Many, if not most, adolescents and adults with ASD have a pedantic speaking style.

• They also often have difficulty articulating phrasing, stress, and tone when speaking.

• Other difficulties include inappropriately formal, irrelevant, or inappropriate detail, out-of-sync content and unannounced topic shifts, topic perseveration, unresponsiveness to others' cues, little reciprocal exchange, and absent or inappropriate intonation or gaze.

• Children with ASD may show deficits in resolving ambiguity, understanding inferential language, and using linguistic flexibility to produce speech acts limited by the communicative context.

 Adults with ASD may demonstrate difficulties in interpreting figurative language and producing relevant speech acts. Moreover, linguistic impairments appear mostly related to specific pragmatic deficits rather than general linguistic abilities, as individuals with ASD may not demonstrate impairments in general narrative abilities like story length and syntactic complexity, but may not use the gist well to organize the story cohesively.

Sex difference

- Findings may suggest that girls with ASD perceive more problems with themselves than their peers, while boys are less different in that respect from their peers.
- Supporting evidence could come from patterns found in the emotional functioning of adolescents in the general population, according to which girls have superior capacities for perspective-taking and empathy than boys.
- Also girls experience more problems in social functioning than boys.
- Girls presented a poorer ability to maintain reciprocal conversation and to maintain friendships and relationships.
- Girls may also tend to assess themselves more harshly due to experiencing more disapproval from their peers.

No sex differences in recognizing emotions were found in adolescents with ASD.

 Adolescents with emotional disorders, girls demonstrated more impairments in social activity participation and lower peer acceptance.

Restricted, Repetitive Behaviors and Interests

 In the restricted interests and repetitive behaviors domain, repetitive behaviors are less frequent and less severe among older than younger individuals.



Executive function

- Executive function domains, include inhibition, working memory, flexibility, fluency, and planning.
- Given the dramatic developmental changes in the brain regions that support EF during adolescence.
- Difficulties in executive functioning, involving both cognitive and behavioral deficits are often seen in adolescents with ASD.
- EF will impact academic functioning. Sample Footer Text







Deficits have been noted in the areas of inhibition, initiation of efficient strategies and cognitive switching, planning, shifting, and attention control, and using internal language to guide behavior when presented with a novel or complex task.

- Students will also struggle with social-emotional self-regulation (perspective-taking, social perception, motivation, and initiation), which can impact the non-academic, or co-curricular aspects of college life (housing, dealing with roommates, negotiating with faculty, joining activities, etc.).
- Thus, the difficulty students with ASD experience in college may be the result of an inability to self-regulate in the social domain tied to EFD.

Romantic Relationships, Sexuality

Sexual development in individuals with ASD parallels typical sexual development, with some differences. Research suggests that sexuality is common among both the typical population and the population with ASD, with individuals with ASD experiencing some sexual behaviors less frequently. Despite the growth of sexuality during puberty among adolescents with ASD, ther is not a natural, corresponding growth of sexual knowledge.

This often leads to embarrassing and inappropriate behaviors, which can contribute to peer rejection and other poor outcomes.



Sex education

Sex education is a necessity for this population to combat these poor outcomes.

There are significant risks of not addressing sexual issues in this population, including an increased risk of contact with the law as victims of sexual abuse or perpetrators of sexual crimes.

sex education for individuals on the

autism spectrum may also benefit from including the following issues



Puberty and body changes

Individuals with ASD show more difficulties with body changes during puberty, including growth, erections, pubic hair, and so on. Preparation for body changes in addition to appropriate behaviors for dealing with these situations (e.g., itchy pubic hair, erections) should be addressed in sex education programs.





Privacy Issues

Growth of sex drive that typically occurs during puberty is not accompanied by a corresponding growth in the field of social "know-how" and this can lead to inappropriate behavior. Adolescents and adults with ASD display more inappropriate sexual behaviors than their peers. For example, without intervention, they may engage in fewer privacy behaviors (such as not seeking privacy for undressing), have poorer knowledge regarding privacy rules (such as knocking rather than entering closed doors and not touching oneself in public), and engage in inappropriate sociosexual behaviors (such as speaking about sexual activities in public) more frequently than their typical peers.



Masturbation is the most common form of sexual behavior in individuals with ASD, and many studies report inappropriate masturbation behaviors to be common in this population, such as engaging in masturbation in public locations. Hygiene, menstruation, and selfcare (changing underwear, grooming, washing, and other hygienic behaviors) require attention regarding sexuality for some individuals with ASD. While there is a range in skill ability regarding self-care and hygiene, some individuals with ASD have difficulties in these areas and thus they should be addressed in a sex education program.





Safety

Understanding risky behavior and recognizing offences and inappropriate behavior are likely to reduce bullying, peer harassment, and sexual abuse commonly experienced by individuals with ASD.

Respect and socially inappropriate sexual behaviors also need to be taught simultaneously to typically developing children, adolescents, and adults, so that abuse toward individuals with disabilities is reduced.



Bullying

Other types of victimization include bullying or peer harassment, and because victimization
is often more difficult to identify in individuals with autism and developmental disabilities.
The results of one study indicated that social
naivety exhibited in the sample appeared to be frequently used for exploitative purposes
by other students.

These experiences may produce a negative cycle in which students experience increasing levels of social isolation.



Technology

This arena may also present interesting challenges for individuals with ASD. For example, although some individuals with autism may prefer the computerized aspects of social networking, face-to-face interactions can be difficult.

These challenges are compounded by the impersonal nature of social networking, where many visible social cues are absent and communication may be more nuanced and difficult to interpret.

sexual orientation

- KEY POINTS Individuals with ASD show a greater diversity in sexual orientation compared with healthy controls and this accounts especially for ASD women.
- Fewer individuals with ASD have a sexual or romantic relationship, whereby this accounts especially for ASD men.
- Most individuals with ASD report about previous sexual experiences, most frequently solitary sexual behaviors, for example, masturbation.
- Individuals with ASD report problematic sexual behaviors, including hypersexuality, paraphilic disorders, asexuality, and gender-nonconforming feelings.

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Transition plan

- An outcome-oriented system based on the child's strengths, areas of interest, and accommodations.
- A transition plan that is monitored and revised as the child gets older.
- A team approach based on the specific services the child needs.
- A process that cannot be changed or modified without the parent's knowledge and consent (that is until your child reaches the age of 18 and can independently make changes for themselves).
- Involvement of the autistic learner to ensure their goals and needs are addressed Services that help address the skills and accommodations needed to prepare for transitioning post-high school.



Thank You