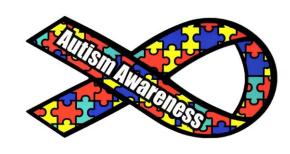


Introduction to Autism Spectrum Disorder



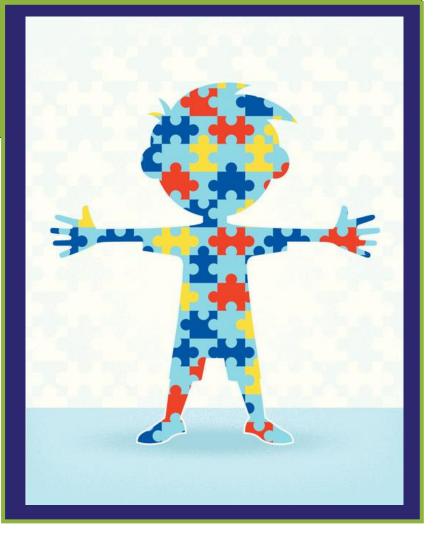
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Agenda

- Background: History and prevalence of ASD
- Diagnostic criteria and the autism spectrum
- What ASD looks like and how to provide support
 - Social Communication Traits
 - Restricted and Repetitive Behaviours
- Associated features and traits





History of Diagnosis

• 1790's

Biographical descriptions of "autistic traits"

• 1940's

- Leo Kanner described "Infantile Autism"
- Hans Asperger lectures and publishes about "Autistic Psychopathy"

1981

 Lorna Wing introduced the term "Asperger Syndrome"

Diagnostic and Statistical Manual DSM

- 1980: Autism included in DSM-III, triad of traits
- 1994: DSM-IV introduces Asperger's disorder
- 2013: DSM-5 collapses spectrum of disorders under the title "Autism Spectrum Disorder"; triad of traits changes to dyad of traits

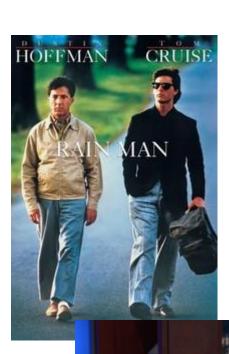
Prevalence Estimates

- Global estimates of prevalence range from 1% 3% (Baird et al. 2006; Baron-Cohen et al. 2009; CDC, 2014; Kim et al. 2011).
- Centre for Disease Control and Prevention (CDC)

2000	2002	2004	2006	2008	2010	2012	2014
1 in 150	1 in 150	1 in 125	1 in 110	1 in 88	1 in 68	1 in 69	1 in 59

- Trend in increasing prevalence
 - Increased awareness
 - Changes in clinical practice (e.g., better access to diagnostic assessment, improved screening, changes to diagnostic criteria)

Autism in Popular Culture





Diagnostic Traits

Autism Spectrum Disorder

Social Communication

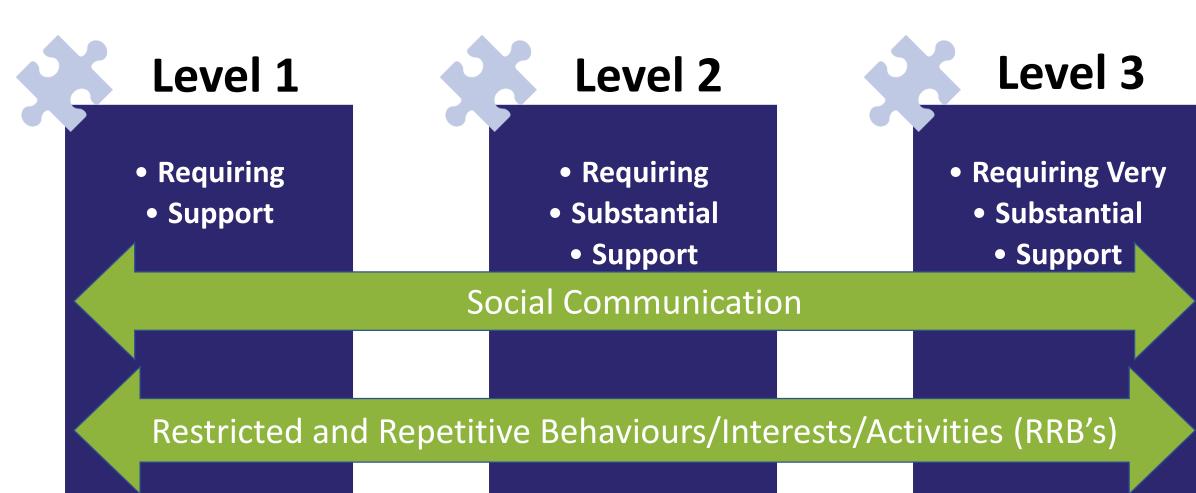
Restricted and Repetitive Behaviours/Activities/Interests (RRB's)

- 1. Non-Verbal Communication
- 2. Social-Emotional Reciprocity
- 3. Interpersonal Relationships

1. Repetitive Behaviors

- 2. Adherence to Routine and Ritual
- 3. Restricted and Fixated Interests
- 4. Hyper- and Hypo Sensory Sensitivity

Spectrum of Abilities



"If you've met one person with autism, you've met one person with autism"

- Dr. Stephen Shore

Social Communication: Non-Verbal Communication

Examples	Support Strategies		
 Integration of non-verbal communication with verbal communication 	 May consider formal intervention (e.g., for eye contact and gesturing) 		
Eye contactBody languageUnderstanding and using gestures	 Help others to understand areas of challenge to normalize 		
 Facial expression Tone of voice and prosody of speech 	 Teach individual how to recognize and express their emotions 		

Social Communication: Social-Emotional Reciprocity

Examples

- Social approach
- Back and forth conversation
- sharing Interests
- Expressing emotions or affect
- Initiating and responding to social interaction

Support Strategies

- Prompt to engage in conversation or interaction
- Practice conversations and interactions
- Teach skills for interaction
- Educate about emotions & practice identifying emotions

Social Communication: Interpersonal Relationships

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Examples			Support Strategies		
•	Adjusting behavior to suit various social contexts Play Making friends Understanding the nature of different relationships Interest in other people	•	Role play Practice Prepare for new situations Explore relationship concepts together Teach skills (e.g., for dating) Talk about relationship preferences Seek out natural communities (e.g., online forums, clubs)		

Restricted & Repetitive Behaviour: Repetitive Behaviours

Support Strategies

es es

- Motor movements (e.g., whole body rocking)
- Use of objects (e.g. lining things up)
- Speech (e.g., echolalia, idiosyncratic phrases, neologisms)

- Find appropriate replacements
- Limit time engaging in behavior
- Encourage and reward imaginative play
- Model speech

Restricted & Repetitive Behaviour: Adherence to Routine

	First	Then
	table activity	lunchtime
5		TO REFERE

Examples

- Difficulty with change & transitions
- Rigid thinking patterns
- Rule following behavior
- Greeting rituals
- Insistence on sameness (e.g., route to school, morning routine, food restrictions)

- **Support Strategies**
- Count downs
- Schedules (visual)
- "First-Then" instruction
- Prepare in advance and practice (e.g., visuals, role play, visit)
- Redirect thinking patterns
- Develop new mantras
- Build in change one step at a time

Restricted & Repetitive Behaviour: Restricted and Fixated Interests

Ex	camples	Support Strategies		
•	Preoccupation with unusual objects (e.g., locks)	Develop an interest y Set limits (e.g., 5 tim minutes) Use "Interest box"		
•	Perseverative interests (e.g., intense interest in trains)	Redirect to current to Incorporate interests activities of lesser in write an essay about	into other terest (e.g.,	

Restricted & Repetitive Behaviour: Sensory Sensitivity

Examples	Support Strategies
 Indifference to pain/temperature Adverse reactions to sounds or textures Excessive smelling or touching objects Visual fascination with light Pressure 	 Consider sensory assessment Use sensory strategies to regulate Modify the environment Consider the role of sensory sensitivity when behavior is escalating Limit time in overstimulating environment
	environment

Associated Features and Traits

Theory of Mind and Cognitive Empathy

- Understanding what other people might be thinking or feeling
- Understanding that other people have different experiences, thoughts, feelings, and preferences than oneself (Dziobek et al., 2008; Gillespie, McCleery, & Oberman, 2014)

Language

- Language impairment
- Using language and communication for social purposes/understanding the social context of communication (Eigsti et al., 2011; Marchena, 2015)

Executive Functioning

- Skills required for organization, planning, and problem solving (Crone, 2009; Luna et al., 2007; Rosenthal et al., 2013)
- E.g., Working Memory, Cognitive Flexibility, Inhibition

Associated Features and Traits

Emotional and Behavioural Regulation

- Increased difficulty understanding and coping with emotions (Laurent & Rubin, 2004; Lerner et al., 2012)
- Require additional support for coping

Psychiatric Comorbidities

- Higher rates of mental health problems as compared to individuals without ASD; e.g., depression, anxiety, OCD, ADHD, psychotic disorders (Bjorn et al., 2009; Howlin, 2000; Hudson, Hall, & Harkness, 2018; Sverd, 2003)
- Diagnostic Overshadowing: tendency for behavior challenges to be attributed to ASD rather than a mental health diagnosis

General Strategies for Supporting Individuals with ASD

- 1. Focus on strengths
- 2. Build genuine relationships
- 3. Be curious & consider their perspective
- 4. Give praise and validation

- 5. Patience
- 6. Regulate your own emotions
- 7. Use routine and clear expectations
- 8. Empower them to educate others

Resources

- Autism Ontario Website: http://www.autismontario.com/
 - Educational information, resources and service lists, support groups
- Toronto Autism Services: https://www.torontoautismservices.ca/
 - Information about services, workshops, and resources
- Surrey Place Website: https://www.surreyplace.ca/
 - Access to services for individuals with ASD and developmental disabilities

Resources

- Ontario Government Website (Ontario Autism Program):
 <u>http://www.children.gov.on.ca/htdocs/English/specialneeds/autism/ontario-autism-program.aspx</u>
 - Information on changes to the Ontario Autism Program and how to access the new childhood budgets
- Autism Speaks Website: https://www.autismspeaks.ca/
 - Information about services, toolkits, and resources
- Association for Science in Autism Treatments: https://www.asatonline.org/
 - Scientifically based information about different treatment options for ASD



Specialized Clinical Services for People with Developmental Disabilities and Autism Spectrum Disorder