



Acknowledgements

Adapted from...

Brock, S. E., Jimerson, S. R., & Hansen, R. L. (2006). *Identifying, assessing, and treating autism at school.* New York: Springer.



Seminar Outline Introduction Reasons for Increased Vigilance Diagnostic & Special Education Classifications School Psychologist Responsibilities Epidemiology Etiology Case Finding Screening Diagnostic Evaluation (Is Autism Present?) Special Education Eligibility Evaluation (IEP Development)























Stephen E. Brock, Ph.D., NCSP, LEP









Introduction:

disorders. • With catatonia Source: APA (2013)

pp. 47-48

- Diagnostic vs. Special Education Classifications
 Social (Pragmatic) Communication Disorder (SCD)
 - Social (Pragmatic) Communication Disorder (SCD)
 A. Persistent difficulties in the social use of verbal and nonverbal communication.
 - B. Deficits result in functional limitations in effective communication, social participation, social relationships, academic achievement, or occupational performance, individually or in combination.
 - c. Onset of symptoms is in the early developmental period.
- D. Symptoms not attributable to another medical or neurological condition or to low abilities in the domains of word structure and grammar, and are not better explained by autism spectrum disorder, intellectual disability, global developmental delay, or another mental disorder Source: APA (2013)









Stephen E. Brock, Ph.D., NCSP, LEP

Source: Brock & Hart (2013, Sept; 2013, Oct)







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25

Which team member (or members) are responsible for autism case finding?

Introduction:

Multidisciplinary Assessment Team Member Responsibilities

- Responsibilities

 Autism Screening
 - Must be prepared to participate in behavioral screening of students with autism risk factors and/or warning signs.
 - Are able to conduct screenings to determine the need for "Autism" eligibility consideration.
 - Must be able to distinguish between screening, diagnosis, and special education eligibility.
- Which team member (or members) are responsible for autism screening?







































- No 2-word spontaneous (nonecholalic) phrases by 24 months.^{a, b}
- Failure to attend to human voice by 24 months.^c
- $\bullet\,$ Failure to look at face and eyes of others by 24 months. c
- Failure to orient to name by 24 months.^c
- Failure to demonstrate interest in other children by 24 months.^c
- Failure to imitate by 24 months.c
- Any loss of any language or social skill at any age.^{a, b, d}
- Sources: aFilipek et al., 1999; bGreenspan, 1999; sOzonoff, 2003; Barger et al., 2013























Seminar Outline

- Introduction
- Case Finding
- Screening
 - Behavioral (Infants & Preschoolers)
 - Behavioral (School Age Youth)
- Diagnostic Evaluation (Is Autism Present?)
- Special Education Eligibility Evaluation (IEP Development)



Screening Typically conducted as a part of the multidisciplinary evaluation of the student presenting with autism risk factors/warning signs. Which makes autism a "suspected disability." Assessment plans indicating evaluation will include examination of "social and emotional development" and "language functioning," and specify either the school psychologist or speech/language pathologist as an assessor, have the permission needed to conduct such screening.

Can screenings be conducted outside of a special education eligibility assessment?

Screening

- School psychologists are exceptionally well qualified to conduct the behavioral screening of students suspected to have autism.
 - Given the emphasis in both their training and practice on the use of social/emotional development screening tools
- Several screening tools are available
- Initially, most of these tools focused on the identification of autism among infants and preschoolers.
- Recently screening tools useful for the identification of school aged children who have autism have been developed.

Screening: Infants & Preschoolers			
Measure	Sensitivity	Specificity	
CHAT	.1838	.98	
M-CHAT	.87	.99	$ \rangle \rangle \rangle$
CHAT 23	.84	.85	IAN AZ
PDDST-II: Stage 1	.92	.91	MUAT
Barton et al. (2012)		57	





Screening:

School Aged Youth

- Autism Spectrum Screening Questionnaire (ASSQ)
 Two separate sets of cutoff scores are suggested.
 Parents, 13; Teachers, 11: = socially impaired children
 - Low risk of false negatives (especially for milder cases of autism).
 High rate of false positives (23% for parents
 - High rate of false positives (23% for parents and 42% for teachers).
 - Not unusual for children with other disorders (e.g., disruptive behavior disorders) to obtain ASSQ scores at this level.
 - Used to suggest that a referral for an ASD diagnostic assessment, while not immediately indicated, should not be ruled out.



School A Different par ent and who were rated at a at a given score), ar	Aged Youth d teacher ASSQ cutoff score given score), false positiv ad the likelihood ratio a giv	es with true positive rate (° e rate (% of children with ren score predicting and A	% of children with an ASD ut an ASD who were rate SD.	
Cutoff Score	True Positive Rate (%)	False Positive Rate (%)	Likelihood Ratio	
	Par	ent		M (-) (-)
7	95	44	2.2	WV = V
13	91	23	3.8	117 17
15	76	19	3.9	
16	71	16	4.5	MA I
17	67	13	5.3	$X \cup V$
19	62	10	5.5	$A \cap A = A$
20	48	8	6.1	$-\Lambda \Lambda \Lambda = \Lambda \times$
22	42	3	12.6	/
	Tea	cher		
9	95	45	2.1	
11	90	42	2.2	Z V V V
12	85	37	2.3	
15	75	27	2.8	$Z \to A A A$
22	70	9	7.5	Z = M (Y + 1)
24	65	7	9.3	
			61	X \\











Screening: School Aged Youth

► Social Communication Questionnaire (SCQ)

- ► Two forms of the SCQ: a Lifetime and a Current form.
 - Current ask questions about the child's behavior in the past 3-months, and is suggested to provide data helpful in understanding a child's "everyday living experiences and evaluating treatment and educational plans"
 - Lifetime ask questions about the child's entire developmental history and provides data useful in determining if there is need for a diagnostic assessment.
- Consists of 40 Yes/No questions asked of the parent.
- The first item of this questionnaire documents the child's ability to speak and is used to determine which items will be used in calculating the total score.



Screening: School Aged Youth			
Measure	Sensitivity	Specificity	1 \\\ / \/
AASQ	.91	.77	
CAST	.1.00	.97	
SCQ-Current (Teacher)	.60	.95	
SCQ-Lifetime (Parent)	.75	.99	
Posseruid et al (2009): Schanding e	tal (2012) Willing	68 nas et al (2005)	



Diagnostic Eva Differential Diagnosis	aluation:
Rett Syndrome (Could be an "Associated with a known genetic condition " specifier)	Affects girls
	Loss of fine motor skill
	Awkward gait and trunk movement
	Mutations in the MECP2 gene
	After age 4-years most show improvement in social communication skills
Selective Mutism	Language development not always disturbed
	 Social reciprocity not impaired
	 Often have normal language in certain situations or settings ⁷⁰
	No restricted patterns of behavior

	Diagnostic Eva Differential Diagnosis	aluation:
	Language Disorders and	No abnormal nonverbal communication
	COD	No restricted patterns of benavior
		 SCD when social-communication and social interaction difficulties are present
	Intellectual Disability	 Relative to developmental level, social interactions are not severely impaired
		No restricted patterns of behavior
	Stereotypic Movement Disorder	Normal social communication and social interaction
		A comorbid condition when stereotypies cause self-injury 71

Diagnostic Differential Diagno	Evaluation:
ADHD	 Distractible inattention related to external (not internal) stimuli Deterioration in attention and vigilance over time Comorbid when inattention/hyperactivity exceed that typical of developmental peers
Schizophrenia	 Years of normal/near normal development Differentiate from the prodromal state, which may include social impairment and atypical interests/beliefs Symptoms of hallucingtions/delusions







- ► Chemical exposure?
- MMR?

















- The Gilliam Autism Rating Scale, 3rd ed. (GARS-3)
 Reliability
 - ▶ Internal Consistency for subscales \ge .85
 - ► Internal Consistency for Autism Indexes ≥ .93

- ► Test-Retest for subscales ≥ .80
- ► Test-Retest for Autism Indexes ≥ .90
- ► Inter-rater for subscale ≥ .80
- ▶ Inter-rater for Autism Indexes \ge .84
- Validity
 - ► Sensitivity = .97
 - ► Specificity = .97







- Reported to work well for the identification of Asperger's Disorder. However, it may not do so as well among children under 4 years of age.
- According to Klinger and Renner (2000): "The diagnostic interview that yields the most reliable and valid diagnosis of autism is the ADI-R" (p. 481).



Diagnostic Evaluation: Direct Assessment 9. ADOS-2 is a standardized, semi-structured, interactive 19. Juses "planned social correliated to the diagnosis of AD. • Uses "planned social correliations" to facilitate diagnosis of AD. • Consists of five modules. • Toddler Module for children between 12 - 30 months who do not consistently use phrase speech (NEW) • Module 1 for children of any age who use phrase speech but are not verbally fluent children and youth adules of the verbally fluent children and youth adults • Module 2 for verbally fluent children and youth adults • Module 4 for verbally fluent children and youth adults • Module 5 or verbally fluent children and youth adults • Module 4 for verbally fluent children and youth adults • Module 5 or verbally fluent children and youth adults • Module 5 or verbally fluent children and youth adults • Module 5 or verbally fluent children and youth adults • Module 5 or verbally fluent children and youth adults • Module 5 or verbally fluent children and youth adults • Module 5 or verbally fluent children adults • Modult 5

- Because its primary goal is accurate diagnosis, it may not be a good measure of treatment effectiveness or developmental growth.
- Psychometric data indicates substantial interrater and test-retest reliability for individual items, and excellent interrater reliability within domains and internal consistency.

89

 Mean test scores were found to consistently differentiate ASD and non-ASD groups.



Diagnostic Evaluation:

Direct Assessment

- Consists of two15-item rating scales completed by the practitioner and a Parent/Caregiver Questionnaire.
 - The Standard Version Rating Booklet (CARS2-ST) used with children younger than 6 years of age and those with communication difficulties or below-average cognitive ability. 15 items duplicate those on the original CARS.
 - The High-Functioning Version Rating Booklet (CARS2-HF) is used for assessing verbally fluent children and youth, 6 years of age and older, with average or above IQ. 15 items reflect characteristics of higher functioning autism.
 - The Questionnaire for Parents or Caregivers (CARS2-QPC) is an unscored questionnaire designed to obtain pertinent developmental information from parents or caregivers.

91

Seminar Outline

- Introduction
- Case Finding
- Screening
- Diagnostic Evaluation (Is Autism Present?)
- Special Education Eligibility Evaluation (IEP Development)
 - Testing Accommodations
 - Behavioral Observations
 - Specific Tests
 - Psycho-educational Report Recommendations



Special Education Eligibility Evaluation: Testing Accommodations

- It is important to acknowledge that the autistic population is very heterogeneous.
- There is no one set of accommodations that will work for every student with autism.
- It is important to consider each student as an individual and to select specific accommodations to meet specific individual student needs.

94

Special Education Eligibility Evaluation: Testing Accommodations

- Prepare the student for the testing experience (environment).
- Place the testing session in the student's daily schedule (routine).
- Minimize distractions.
- Make use of pre-established physical structures and work systems.
- Make use of powerful external rewards.
- Carefully pre-select task difficulty.
- Modify test administration and allow nonstandard responses.

Special Education Eligibility Evaluation: Testing Accommodations

- Students with autism are a very heterogeneous group, and in addition to the core features of autism, it is not unusual for them to display a range of behavioral symptoms including hyperactivity short attention span impulsivity, aggressiveness, self-injurious behavior, and (particularly in young children) temper tantrums.
- Observation of the student with autism in typical environments will also facilitate the evaluation of test taking behavior.
- Observation of test taking behavior may also help to document the core features of autism.

Special Education Eligibility Evaluation: Specific Tests Choice of Assessment Instruments

- An important goal of this session is to help your SELPA develop standard batteries of assessment for particular reasons and particular students.
- ▶ For example...
 - Initial evaluations vs. re-evaluations
 - Students with high functioning autism vs. students with a cooccurring ID
 - Students with spoken language vs. students without any language system

- In general, children with autism will often perform best when assessed with tests that require less social engagement and verbal mediation.
- DSM-5's "specifiers" may help you select the appropriate tests.

Special Education Eligibility Evaluation: Cognitive Functioning

- Assessment of cognitive function is essential given that a significant percentage of students with autism will also be intellectually disabled.
- IQ is associated with adaptive functioning, the ability to learn and acquire new skills, and long-term prognosis.
 - Thus, level of cognitive functioning has implications for determining how restrictive the educational environment will need to be

Special Education Eligibility Evaluation: Cognitive Functioning

- ► A powerful predictor of autism symptom severity.
- However, given that children with autism are ideally first evaluated when they are very young, it is important to acknowledge that it is not until age 5 that childhood IQ correlates highly with adult IQ.
 - Thus, it is important to treat the IQ scores of the very young child with caution when offering a prognosis, and when making placement and program planning decisions.
 - However, for school aged children it is clear that the appropriate IQ test is an "...excellent predictor of a student's later adjustment and functioning in real life" (Frith, 1989, p. 84).

Special Education Eligibility Evaluation: Cognitive Functioning

- Regardless of the overall level of cognitive functioning, it is not unusual for the student being tested to display an uneven profile of cognitive abilities.
- Thus, rather that simply providing an overall global intelligence test score, it is essential to identify these cognitive strengths and weaknesses.
- At the same time, however, it is important to avoid the temptation to generalize from isolated or "splinter" skills when forming an overall impression of cognitive functioning, given that such skills may significantly overestimate typical abilities.

e) Monitoring progress over time.

Special Education Eligibility Evaluation: Adaptive Behavior

- Specific measures:
 - Vineland Adaptive Behavior Scales
 - Brigance Inventory of Early Development.
 - Early Learning Accomplishment Profiles.
 - Scales of Independent Behavior-Revised.
 - AAMD Adaptive Behavior Scale.
 - ► Learning Accomplishments Profile.

► The student with Asperger's Disorder may display the exact opposite profile.

Special Education Eligibility Evaluation: Academic Functioning

- Assessment of academic functioning will often reveal a profile of strengths and weaknesses.
 - It is not unusual for students with autism be hyperverbal/hyperlexic, while at the same time having poor comprehension and difficulties with abstract language. For others, calculation skills may be well developed, while mathematical concepts are delayed.

112

Behaviors, Characteristic Verbal Behaviors

► Includes a Caregiver Report

- Criterion-based assessment of knowledge and skills in
 Cognitive: The ability to understand other's perspectives
 - Behavioral: The ability to initiate/maintain interactions and respond appropriately to others

116

3. Affective: The ability to understand basic and complex emotions

118

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Special Education Eligibility Evaluation: Multi-disciplinary Assessment Dilemmas

Discussion: How does the IEP team addresses...

- A student has a diagnosis of ASD from a private doctor, and parents have requested assessment. As a result of multidisciplinary assessment, special education eligibility is not conferred.
- A team member is under the misperception that a medical diagnosis must have been made prior to special education eligibility under Autistic-like behavior.
- The multidisciplinary team's evaluation determines the primary handicap to be autism eligibility (but the student also meets SLI criteria). The parent disagrees and feels that the student's social functioning differences are because he is a "only child."

Special Education Eligibility Evaluation: Report Recommendations

For more information about social stories go to

- http://carolgraysocialstories.com/
- ► <u>http://www.easysocialstories.com/</u>
- https://www.pinterest.com/pediastaff/social-stories/
- http://www.educateautism.com/social-stories.html

Special Education Eligibility Evaluation: Report Recommendations

- To address _____''s difficulty making friends, the following interventions are recommended:
 - Establish structured activities with peers. These activities should have pre-assigned roles that can be practiced.
 - Provide direct instruction on how to approach an individual or group.
 - Provide direct instruction on the skills needed to interact with peers.

128

 Structure social opportunities around 's special interests

Special Education Eligibility Evaluation: Report Recommendations

- Sample PECS IEP objectives can be found at <u>http://www.pecsaustralia.com/downloads.php</u>
- ▶ PECS pictures and photos can be found at
- www.childrenwithspecialneeds.com/downloads/pe cs.html
- Blank PECS image grids, and daily and weekly picture card schedule forms
- www.do2learn.com/picturecards/forms/index.htm

Special Education Eligibility Evaluation: Report Recommendations • For more information about PECS go to • http://www.bbbautism.com/pecs_contents.htm

Special Education Eligibility Evaluation: Report Recommendations Functional behavioral assessment is recommended.

140

141

Special Education Eligibility Evaluation: Report Recommendations

Students with autism also frequently engage in disruptive behaviors to escape aversive sensory stimuli. Thus, the focus of any functional assessment should also direct attention to perseverative behaviors that might serve to escape from aversive sensory stimuli.

Special Education Eligibility Evaluation: Report Recommendations

- If disruptive behavior problems are present and known to be related to perseverative activities, then following might be appropriate:
 - Identify and decrease environmental and/or physiological conditions that are related to perseverative behavior.
 - Determine if the behavior is an attempt to avoid aversive sensory stimulation or a strategy to obtain desirable sensory stimulation.

Reese et al. (2003)

Reese et al. (2003)

Special Education Eligibility Evaluation: Report Recommendations

- If disruptive behaviors appear to be related to anxiety and/or a desire to avoid aversive sensory stimulation, then the following might be appropriate:
 - The problem (perseverative) behaviors appear to have a calming or organizing effect and might be related to anxiety. Thus, the following strategies are recommended as they appear to reduce anxiety (and in doing so may decrease the need for the perseverative behaviors):
 - Establish predictable routines
 Use visual schedules to facilitate coping with change

Reese et al. (2003)

Practice alternative coping behaviors such as relaxation

143

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Special Education Eligibility Evaluation: Report Recommendations

 If a student has reading fluency and/or comprehension difficulties, then the following might be appropriate:

146

147

- Highlighted text
- Study guides

Special Education Eligibility Evaluation: Report Recommendations

- Report Recommendations
- If a student has written expression (e.g., handwriting) difficulties, then the following might be appropriate:
 - When assessing ______''s content knowledge allow for verbal, instead of written responses.
 - When completing written assignments allow ______to use the computer instead of pen or pencil.
 - Multiple-choice tests can be used instead of short answer to assess subject matter knowledge
 - Allow _____ to create projects, rather than producing written reports.

