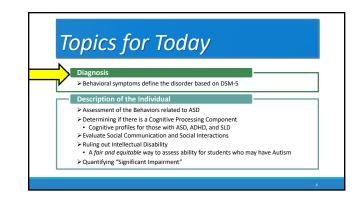


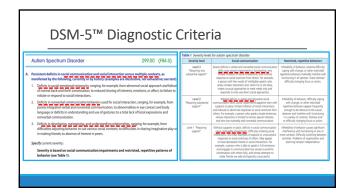


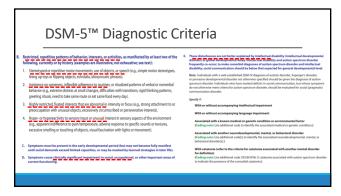
Core Group Discussion \rightarrow Deeper Learning

- <u>C</u>oach Help the group decide what to do
- Organizer Have your group discuss the case of Manuel
- Recorder Keep notes and speak for the group
- <u>Energizer</u> Focus the group !



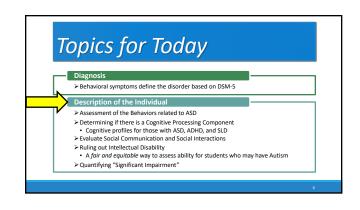


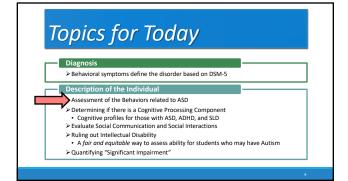


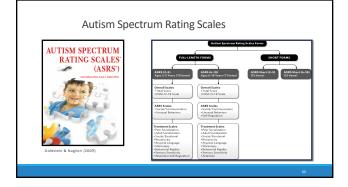


IF Diagnosis is Based on DSM-5 Why do More?

To understand the unique expression of ASD and to determine the best intervention targets and options







Factor Analytic Results

2-5 Year Olds a two-factor solution for parent and teacher raters Factor 1: items related to socialization and communication (e.g., keep a comversation going, understand how social/communication - Social/Communication - Social/Communication - Social/Communication - Social/Communication - Social/Communication - Factor 2: items related to behavioral rigidity (e.g., insist on doing things the same way each time), stereotypical behaviors (e.g., each time), stereotypical behaviors (e.g., hap his/her thands when excited), and overreactions to sensory -Unusual Behaviors Factor 2: items related to attention problems (e.g., hap his/her thands when excited), and overreactions to sensory situation (e.g., expective that the to to trouble with adults, argue and fight with other children) - Self-Regulation.



Importance of a National Norm

The way we calibrate a psychological test or rating scale score has a direct impact on the reliability and validity of the instrument

AUTISM SPECTRUM DISORDER

- The composition of the comparison and characteristics of the group is especially important whenever diagnostic decisions are being made.
- Why compare children's scores to a nationally representative sample?

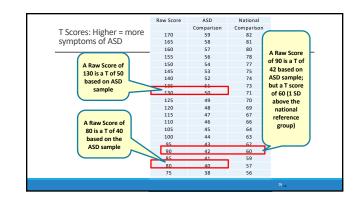
Psychometric issues for Autism rating scales is provided in the chapter by Naglieri & Chambers in Assessment of Autism Spectrum Disorders (Goldstein, Naglieri, & Ozonoff, 2009)

Importance of a National Norm

- > What is the problem with not having a national norm? You don't know how typical children perform
- Typical means a wide va riety of individuals who vary on important demographic variables > What is the problem with not having a standard score like a T-score
- (mean of 50 and SD of 10)?
- You don't know how similar a child's behavior is in relation to what is typical Data from Naglieri, J. A. (2012). Psychological Assessment by School Psychologists: Opportunities and Challenges of A Changing Landscape, In K. Geisinger & B. A. Bracken [Eds.] APA Hondbook of Testing and Assessment in Psychology. Washington, D.C.: American Psychological Association.

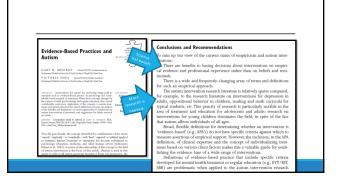
Diagnostic Reference Groups

- I studied the differences between results when using a nationally representative sample versus a sample of children identified as having Autism as a reference group
- Raw score to standard score (T-scores) conversion table was constructed based on two different reference groups
- Nationally representative sample = 1,828 (see Goldstein & Naglieri (2009) for more details about the normative sample
 Individuals with ASD (N = 243) diagnosed with Autism (n = 137), Asperger Syndrome (n = 80), or Pervasive Developmental Disorder-Not Otherwise Specified (n = 26) made by a qualified professional (e.g., psychiatrist, psychologist) according to the DSM-V-TR (APA, 2000) or ICD-10 (WH0, 2007)) using appropriate methods (e.g., record review, rating scales, observation, and interview).



Treatment Effectiveness

Hidden dangers of using raw scores to evaluate an intervention





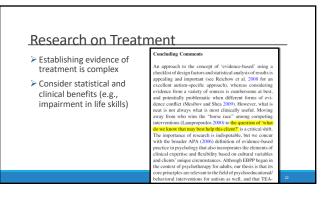


Research on Treatment

The TEACCH Program in the Era of Evidence-Based Practice Gary B. Meibov · Victoria Shea

Published online: 24 November 2009 © Springer Science+Business Media, LLC 2009

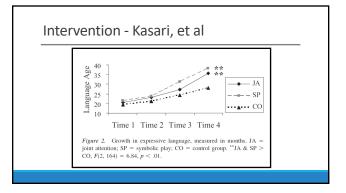
Abstract "Evidence-based practice' as initially defined in	children with autism (e.g., Rogers 1998; Rogers and Vis-
medicine and adult psychotherapy had limited applicability	mara 2008).
to autism interventions, but recent elaborations of the	The initial definitions for EST in psychology were quite
concept by the American Psychological Association (Am	rigid (e.g., requiring evidence from at least two group
Psychol 61: 271-285, 2006) and Kazdin (Am Psychol	studies using randomized controlled trials or nine single-
63(1):146-159, 2008) have increased its relevance to our	case studies, using a treatment manual, and employing a
field. This article discusses the TEACCH program (of	research design that demonstrated that the intervention
which the first author is director) as an example of an	being studied was better than another treatment [not just
evidence-based practice in light of recent formulations of	'no treatment' or a 'waiting list control group']). These

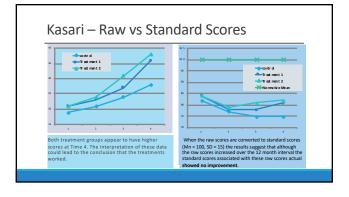


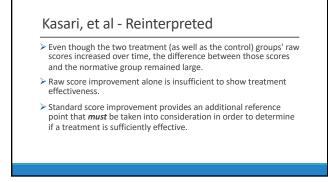
Designing an Outcome Study to Monitor the Progress of Students with Autism Spectrum Disorders Larren M. Loo, David A. Krag, Marhyn H. Gene, Larren M. Loo, David A. Krag, Marhyn H. Gene, and Steven B. Johnson			
Laurer M. Loo, David A. Krug, Marhyn H. Genee, and Steven B. Johnson The Adres factors Bouden Davanes factors induces the standard program and the a schwarzene factors. The adria materia for standard program and the a schwarzene factors. The additionation for standard program and the a schwarzene factors. The additionation for standard program and the analysis of the advisory of	Monitor the Progress of Stude	nts	
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in the areas of social interaction, approvance papers, and and of language concepts, in addition, they have displayed spaced acceleration in the social model and acceleration and acceleration spectree disorders. The analy legan in 1998 and will outrieve at least through August of 2000.	of all tradents, hencement the ages of 2 and 5 years, whose primary disposals for marries in an animative present indicated. This share disposals that and excession are providen and 5 years. And the share the state of the share that service providen and 5 years. A totak was a loss of colorest four performance and the submitted tradents arrays and indicated and assessments. The tempth of the disposal base that the service share that the service of the share that the submitted tradents arrays and the share the services and while the study, here was not that the neglitic system of the share that the services of the study. The study is the study of the study of the study of the study, here was not shared instructions expression as study of colorest and france are consistent in the states of the study of the study of the study of the study of the study. Here the study has a study of colorest and the study of the study of the study has a study of colorest and the study of the study of the study. Here the study of the st	van, 1987) reported thu 9 of 19 chil- dem who record intonsive andly inter- vention successfully completed first grade and obtained average or above-average flg scores. This program, which used a behavioral approach, included diarcter that totaking methods, records and 40 hears per week of one-to-one inter- vention for up to 2 yana, and empla- nized remediation of speech and lan- guage deficits provided, at least initially.	

Other Developmental Di	cahilitio						L: Johnson, St
		s, Vol 18(2), Sur	n 2003	3, 75-87		
							_
Descriptive		LE 2					
Descriptive	Statistics	OT ASIEP-	2 SUDte	sts			
		Range of possible		es at rline	Score 12 to mon into s	o 16 iths	
Area assessed	~	scores	м	SD	м	SD	effect size
A.	tism Baba	vior Checkli					
Body/object use	60	0-38	12.03	7.08	9,90*	7.87	.28
Language	60	0-31	14.07	6.10	12.23*	5.97	.30
Total score	60	0-158	70.47	19.82	61.60*	25.86	.39
	d	Assessmen					
Receptive language	60	0-12	4.98	3.08	6.87**	3.50	57
Expressive language	60	0-12	2.83	2.78	4.63**	4.30	50
Body concept	60	0-12	4.38	3.80	7.27**	4.37	71
Speech imitation	60	0-12	5.22	3.40	7.37**	4.10	57
Total score	60	0-60	28.82	12.63	37.90**	15,44	64
Seci	al Interact	on Assessm	toot				
Appropriate social interactions	57	0-48	5.63	5.27	9.18**	8.15	52
Self-stimulation/nonresponsive	57	0-48	22.86	11.88	17.37**	12.60	.45
to adult							
Total score	57	0-96	65.21	15.35	56.19**	18.60	.53
	Marral 6	ehavior					
Noncommunicative utterances	60	0-50	35.97	14.03	23.17**	18.20	.78
Unintelligible utterances	60	0-50	37.41	14.08	24.68**	20.43	.73
Words used during sample	59	na	25.39	36.0	52.37**	52.32	-,60
Expressive language age score	56		23.21	8.50			78









Treatment Evaluation with ASRS

Chapter 3 Evaluation of Treatment Effectiveness in the Field of Autism

Psychometric Considerations and an Illustration

Jack A. Naglieri and Sam Goldstein

Introduction

high

Evidence-based treatment and the assessment of treatment effectiveness are dependent upon the collection of data during the evaluation process providing information about symptoms, impairment and abilities. Such an assessment allows for a seamlesss transition from assessment and diagnosis to effective treatment. Evaluating the effectiveness of a treatment strategy or program is important for interventions designed terventions for utism Spectrum isorders

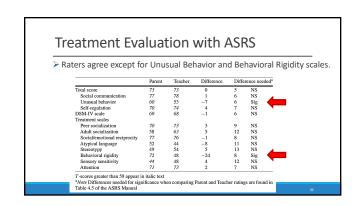
Treatment Evaluation with ASRS

- Step 1: Identify specific area or areas of need based on ASRS Tscores of 60 or more
- Which indicates many characteristics similar to individuals diagnosed with an ASD.
- Examine ASRS Total Score
- The Total Score is, however, insufficient for treatment planning because it is too general.
- Step 2: Look at the separate treatment scales

Treatment Evaluation with ASRS Table 3.3 Case of Donny: parent and teacher ASRS T-scores, differences between raters, and values needed for significance Total Score of 73 Difference needed^a by Parent & Teache Diff Teacher NS Sig NS NS 73 78 ial communi Social Communication 74 68 M-IV sc scores are high for both raters Peer socializatio 70 73 63 76 44 54 48 48 48 73 9 12 NS NS NS Sig NS NS 58 77 52 49 72 44 71 8 11 13 Self-Regulation Atypical language Stereotypy Behavioral rigidity Sensory sensitivity Attention scores for both 8 12 raters are also

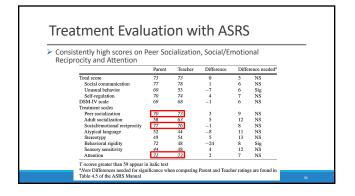
in italic text znificance when comparing Parent and Teacher ratings are found in

cores greater than 59 appear te Differences needed for sig le 4.5 of the ASRS Manual

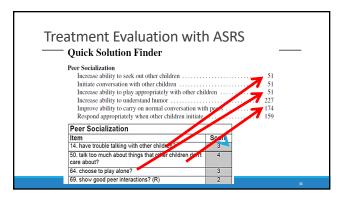


Treatment Evaluation with ASRS

- The difference between Donny's Unusual Behavior scores as rated by his mother (60) and teacher (51) suggests that behaviors in the home and the classroom are different
 exploration of the environmental impact on his odd behaviors could lead to
- exploration of the environmental impact on his odd behaviors could lead to good intervention options.
- The significant difference between Donny's Behavioral Rigidity scores as rated by his mother (72) and teacher (48), which also warrants further exploration.



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Treatment Evaluation with ASRS

The Quick Solution Guide provides the correspondence of behaviors associated with ASD and specific interventions provided by authors in the chapters that appear in the book.

> For example, Donny had a high ASRS T-score on the Social/Emotional Reciprocity scale and one of the items that addressed "looking at others when spoken to" was very high. Interventions for this behavior can be found on pages

Treatment Evaluation with ASRS

Social communication 77 76 0 N8 11 Sig Unusual behavior 60 58 58 -2 NS 2 NS Self-regulation 70 67 62 -3 NS 8 NS McV scale 69 68 63 -1 NS 6 NS attentatis - 7 66 -1 NS All socialization 7 68 -1 NS Social/monitonal 7 77 63 0 NS All socialization 7 14 Sig references NS All socialization 7 7 63 0 NS All sig references NS All sig Technologing 14 Sig Sig 14 Sig Sig 14 Sig Sig NS 14 Sig Sig 14 Sig Sig NS All socialization Sig Sig 14 Sig Sig Sig		Time 1	Time 2	Time 3		ress monitoring e 2 – 1)		gress monitoring me 3 – 1)
	otal score	73	70	63	-3	NS	10	Sig
Self-regulation 70 67 62 -3 NS 8 NS SMI-V scale 69 63 -1 NS 6 NS atment scales 2 0 69 63 -1 NS 6 NS Pere socialization 70 69 68 -1 NS 2 NS Adult socialization 70 69 68 -1 NS 0 NS Social/motional 77 77 63 0 NS 14 Sig reciprocity reciprocity 77 63 0 NS 14 Sig	Social communication	77	77	66	0	NS	- 11	Sig
SM-IV scale 69 68 63 -1 NS 6 NS Pere socialization 70 69 68 -1 NS 2 NS Adult socialization 70 69 68 -1 NS 2 NS Adult socialization 78 58 58 0 NS 0 NS Social/monitonal 77 77 63 0 NS 14 Sig	Unusual behavior	60	58	58	$^{-2}$	NS	2	NS
eatment scales Peer socialization 70 69 681 NS 2 NS Adult socialization 58 58 58 0 NS 0 NS Social@motional 77 77 63 0 NS 14 Sig reciprocity	Self-regulation	70	67	62	-3	NS	8	NS
Peer socialization 70 69 681 NS 2 NS Adult socialization 58 58 58 0 NS 0 NS Social/emotional 77 77 63 0 NS 14 Sig. reciprocity	OSM-IV scale	69	68	63	-1	NS	6	NS
Adult socialization 58 58 0 NS 0 NS Social/emotional 77 77 63 0 NS 14 Sig_ reciprocity	reatment scales							
Social/emotional 77 77 63 0 NS 14 Sig reciprocity	Peer socialization	70	69	68	$^{-1}$	NS	2	NS
reciprocity	Adult socialization	58	58	58	0	NS	0	NS
Atypical language 52 52 52 0 NS 0 NS	Social/emotional reciprocity	77	77	63	0	NS	14	Sig
	Atypical language	52	52	52	0	NS	0	NS
Stereotypy 49 49 49 0 NS 0 NS	Stereotypy	49	49	49	0	NS	0	NS
Behavioral rigidity 72 67 67 -5 NS 5 NS	Behavioral rigidity	72	67	67	-5	NS	5	NS
Sensory sensitivity 44 44 44 0 NS 0 NS	Sensory sensitivity	44	44	44	0	NS	0	NS
Attention 71 68 58 -3 NS 13 Sig	Attention	71	68	58	-3	NS	13	Sig

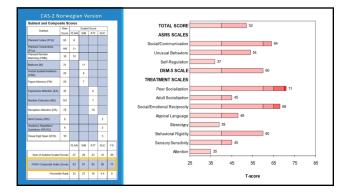
Importance of a National Norm

- > Conclusions
- The diagnostic conclusions we reach are greatly influenced by the tools we use The composition of the reference group can make a substantial difference in the conclusions reached
- Norms that represent a typical population are needed for all assessment tools
- We have an obligation to use the highest quality tests

Core Group Discussion

- ➢ Organizer − Have your group discuss the information about the importance of a normative reference and norm referenced scores
- ≻ Coach Help the group reflect on these ideas
- ≻Recorder Keep notes
- ≻ Energizer Focus the group !





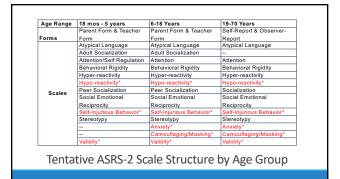
2019 Update on Sebastian



- Sebastian is now 16 years old, and started high school this year
 In the past 5 years he has seen a speech therapist regularly
 his pronunciation has improved.
- > His education has been focusing social and communication skills.
- He reads, meaningful words better than nonsense-words.
- Parents concern: that he would not be taught adequately in high school. He currently is instructed in a group with 5-6 other students, all of them with lower capacity for learning.
- We have given a detailed statement with regard to content and methods based on the official curriculum.
- What we saw the three days he came to our office, was that he was able to learn according to his PASS profile.
- INIS PASS profile: He managed well to distinizative and differences, and he learnt some basic acroacyst for analyzing which managed wells and managed wells and the some source and the learnt some basic acroacyst for analyzing which there we saw a change in his way of appearance, from an elusive look to an open face, meeting your eyes as he got confidence in us, and in himself.

Autism Spectrum Rating Scales 2nd Edition (ASRS 2)

Adult Pilot Data analysis results



Data collection

- Pilot Data collection for the ASRS 2 took place in 2016-2018
- > Data was collected from General population and clinical samples
- > Data was collected from:
- Individuals 19 years and older (For the Self-Report form)
- The individual's spouse, parent or family member (For the Observe-Report Form)

> Data collection resulted in:

Form	General		Other Clinical
	Population		
Self-Report	466	30	47
Observer-Report	452	22	26

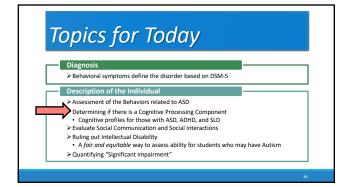
Other Clinical Groups

- Other Clinical Groups collected included:
 Attention Deficit Hyperactivity Disorder (ADHD)
- Major Depressive Disorder (MDD)
- Generalized Anxiety Disorder (GAD)
- Bipolar Disorder
- > Obsessive Compulsive Disorder (OCD)
 > Adjustment Disorder

	Summary of the	Scales	Self-Report		Observer-Report		
Reliability of each scale as measured by Cronbach's alpha Overall, the alpha values indicate high level of reliability for each scale		General Population	Clinical	General Population	Clinical		
	Atypical Language	.88	.89	.87	.94		
	Attention	.86	.86	.90	.90		
	Behavioral Rigidity	.90	.94	.93	.91		
	Sensory Sensitivity	.85	.90	.84	.87		
	Socialization	.85	.92	.86	.90		
	Social/Emotional Reciprocity	.90	.93	.91	.94		
	Self-Injurious Behavior	.86	.79	.90	.82		
		Stereotypy	.87	.91	.88	.90	
		DSM-5 ASD	.92	.96	.93	.96	

Clinical Group Differences (Cohen's d)

Large d-values are	Scales	Self-Report		Observer-Report		
observed across nearly all		ASD vs. General Population	ASD vs. Other Clinical	ASD vs. General Population	ASD vs. Other Clinical	
comparisons,	Atypical Language	1.21	1.36	2.46	1.38	
indicating the ability of the scale to	Attention	1.66	0.49	2.93	1.24	
identify individuals	Behavioral Rigidity	1.61	1.19	2.47	1.57	
with ASD	Sensory Sensitivity	1.74	1.60	2.39	1.91	
	Socialization	1.30	0.94	2.51	1.61	
	Social/Emotional Reciprocity	0.86	1.23	1.80	1.53	
d = 0.2-0.4 Small	Self-Injurious Behavior	0.88	0.62	1.76	0.70	
d = 0.5-0.7 Medium	Stereotypy	1.34	1.31	2.62	1.62	
d >=0.8 Large	DSM-5 ASD	1.49	1.70	2.67	2.36	



ASRS & Attention Difficulty

Individuals with ASD have been described as having "difficulties in disengaging and shifting attention" (p. 214) (see Klinger, O'Kelley, & Mussey's chapter 8 in Assessment of Autism Spectrum Disorders (Goldstein, Naglieri, & Ozonoff, 2009)

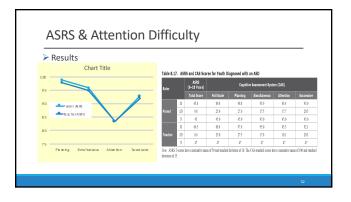


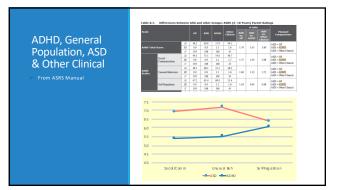
We tested this hypothesis using the Cognitive Assessment System (Naglieri & Das, 1997)

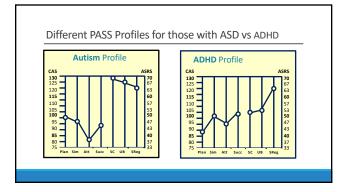
ASRS & Attention Difficulty > the ASRS (6–18 Years) and Cognitive Assessment System (CAS; Naglieri & children diagnosed with an ASD who were rated by a parent (N = 45) or a teacher (N = 47)

teacher (N = 47)
The CAS provides measures of
Planning, Attention, Simultaneous, and Successive cognitive processes

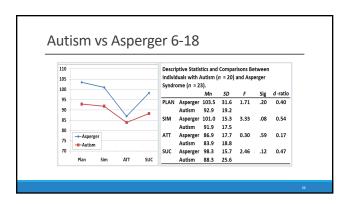
phic	61082	Pa	rent	Teacher		
pac	400	N	%	N	*	
	Mde	33	753	34	723	
	Femde	12	357	В	21.7	
	.kin	4	83	4	85	
	Alicen Reserves	6	133		14.9	
	Espeix	11	244	11	21.4	
	This	23	9.1	24	511	
	Multinoid Other	1	22	1	21	
	Les thm high school	3	62			
Education Level	Eigh school or espiratent		15.6			
EDUCATION LEVEL	Some offlege	16	35.6			
	College or higher	13	422			
	Total	45	100	47	3003	
	Age M (50)	110	124)	11	6.6	

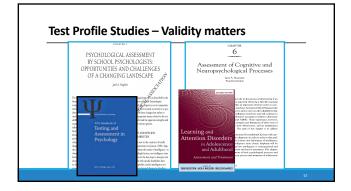


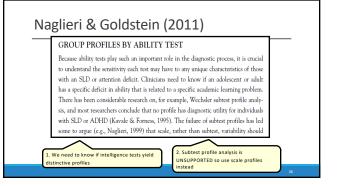


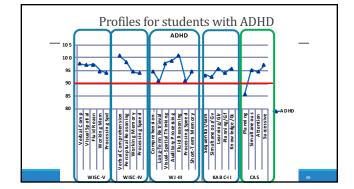


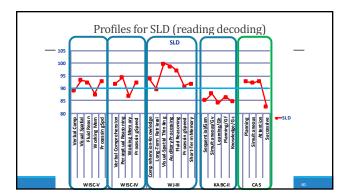


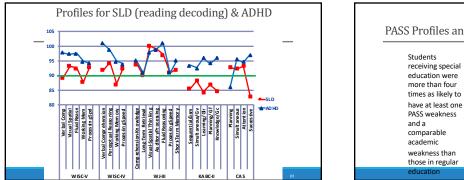


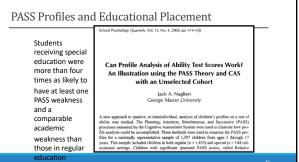


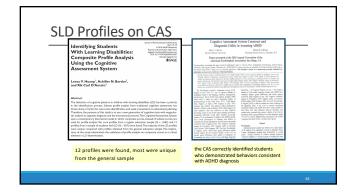










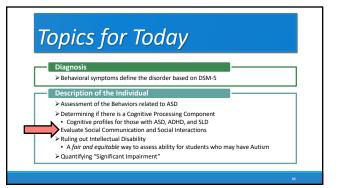


And the second s	Municeristry Students With Poor Reading Comprehension: The Hidden Cognitive Processing Duricit. More Cognitive and the Cognitive Processing Control of the Cognitive and the Cognitive Cognet & Gregories, NoV and J.P. Dux, Rolf. More Cognitive and the Cognitis and the Cognitive and the Cognitive and the Cognitive and the Co	miny students with poor needing methanism diffusions participand oracis to even at if their processing contains intelligence. The results of monory wave simplified as their a group had sworage intelligence, driving that moving intelligence, oracing their moving memory and served differences between pairs a.	
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Core Group Discussion

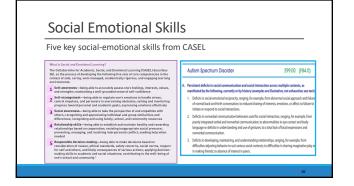
- \succ Organizer Have your group discuss ASRS and PASS score profiles for those with ASD, ADHD, and SLD
- Coach Help the group reflect on these ideas
- ≻Recorder Keep notes
- Energizer Focus the group !

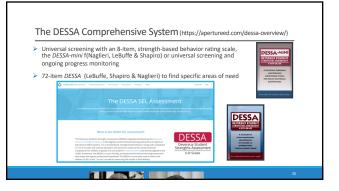




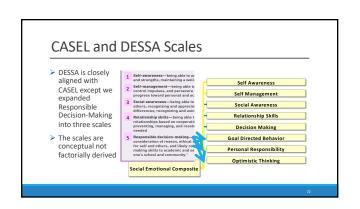
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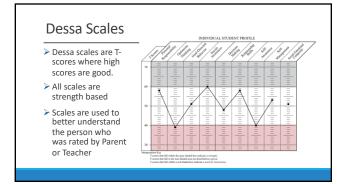


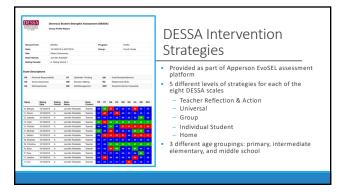


States and is closely representative of US Population



18



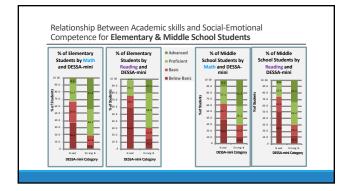


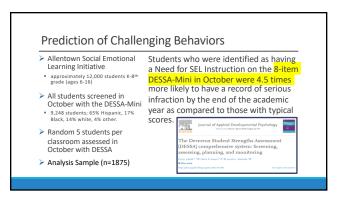


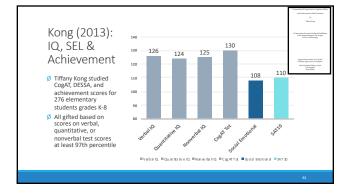


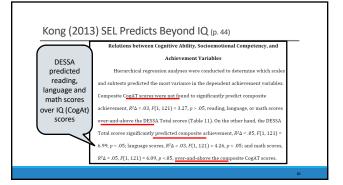


Does SEL Matter?

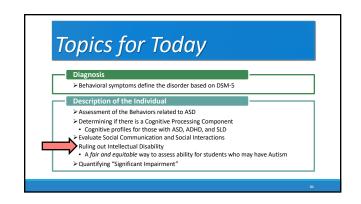








Core Group Activity 9. Organizer - Have the group discuss this question: "How do you feel about what was just presented?". 9. Ocach - guide the discussion so that the group arrives at an answer to the question. 9. Ocach - record and report to the group. 9. Orgenzer - keep the discussion going !



DSM-5™ Diagnostic Criteria

When ruling out or identifying intellectual disability it is critical to consider the selection of the intelligence test

Some IQ tests are more appropriate than others... The standard set of the st

Associated with a basem metical or generic condition or emisemental factor (Coding network to a additional code to additional type associated with associated examples to additional code(c) to identify the associated examples to additional code(c) to identify the associated examples to additional code(c) to identify the associated with associated with associated with associated with associated examples to additional code(c) to identify the associated with associated examples to additional code(c) to identify the associated examples to additional code(c) to identify the associated examples to additional code(c) to identify the associated with associated examples to additional code(c) to identify the associated with associated associated with associated associated with assoc

How to Achieve Fair Assessment of Intelligence for all Students

Leave traditional IQ behind !

Traditional IQ and Achievement Tests

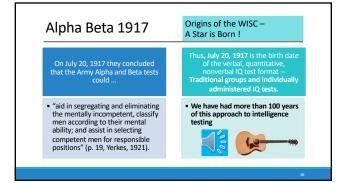
- In the mid 1970's when working as a school psychologist I noticed that parts of the WISC we were administering was VERY similar to parts of the achievement tests
- > HOW DOES THAT MAKE SENSE?
- It does NOT
- WHY DO WE HAVE THIS PROBLEM?Our history of IQ

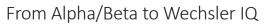


Evolution of IQ http://www.jacknaglieri.com/cas2.html

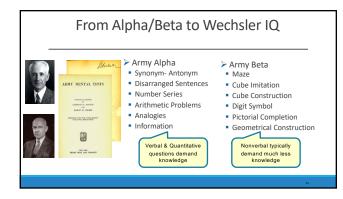


- A group of psychologists met at Harvard in April of 1917 to construct an ability test to help the US military evaluate recruits (WWI) for responsible positions
 - Their goal was to develop a workable set of tests





Yoakum & Yerkes (1920) Summarized The Methods Used By The Military



The First IQ TEST: Alpha (Verbal)	
tobacco 1. Bull Durham is the name of	
fruit 2. The Mackintosh Red is a kind of	
typewriter 3. The Oliver is a	
Mogul 4. A passenger locomotive type is the	
engineers 5. Stone & Webster are well know	
Superbas 6. The Brooklyn Nationals are called	
fabric 7. Pongee is a	
corn 8. Country Gentleman is a kind of	
Mckinley 9. The President during the Spanish War was	
cigarette 10. Fatima is a make of	
From: Psychological Examining the United States Army (Yerkes, 1921, p. 213)	

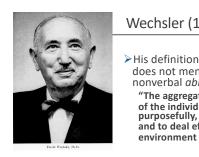
1920 Army Testing (Yoakum & Yerkes)

Note there is no mention of measuring verbal and nonverbal intelligences – **it was a social justice issue.**

METHODS AND RESULTS

19

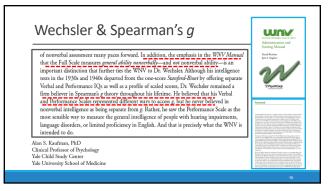
Men who fail in alpha are sent to beta in order that injustice. by reason of relative unfamiliarity with English may be avoided. Men who fail in beta are referred for individual examination by means of what may appear to be the most suitable and altogether appropriate procedure among the varied methods avail-able. This reference for careful individual examination is yet another attempt to avoid injustice either by reason of linguistic handicap or accidents incident to group examining.

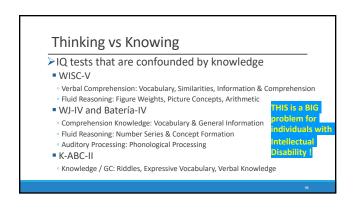


Wechsler (1939)

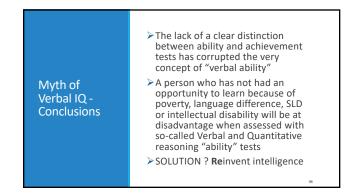
≻His definition of intelligence does not mention verbal or nonverbal abilities:

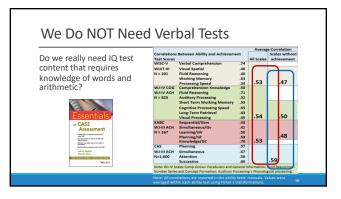
"The aggregate or global capacity of the individual to act purposefully, to think rationally, and to deal effectively with his environment (1939)"

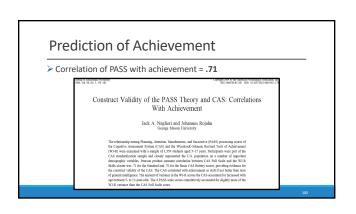




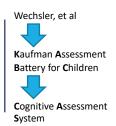
Cognitive	Kaufman	Wechsler	L Woodcock-	Feifer	Stanford Achievement
Assessment <u>System-2</u>	Assessment Battery for	Intelligence Scale for	Johnson Cognitive-4	Assessment of Reading &	Test
Wechsler Nonverbal Scale	Children-2	Children-5		Math	Kaufman Test Educational
of Ability					Achievement-

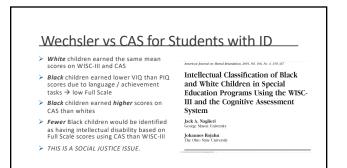






A Shift from Traditional To Second Generation Intelligence Tests

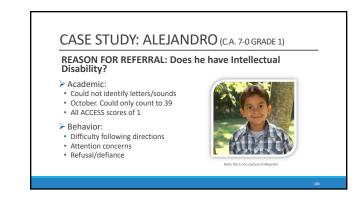


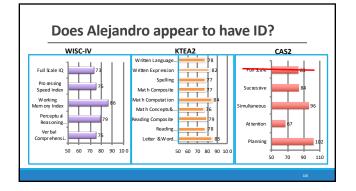


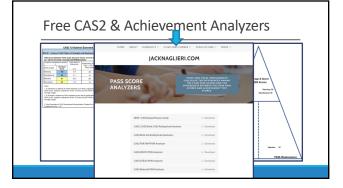
More Details on the Study

- "The Black students earned significantly lower WISC-III verbal scores than performance scores, t(45) 5 3.2, p, .01, ...
 there was no significant
- there was no significant difference between those scores among Whites.
 This suggests that the Verbal
- Inis suggests that the Verbal IQ scale (and Verbal Comprehension Index) of the WISC-III, which contains achievement-like tests such as Vocabulary, Arithmetic, and Information, posed particular difficulty for these Black children. (p. 363)"

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					36% mo did the				ren a	s hav	ing

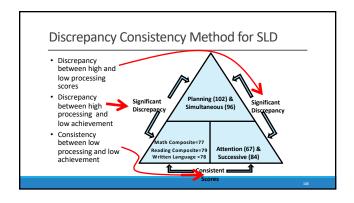






Alejandro and PASS (by Dr. Otero)

- Alejandro is not a slow learner.
- He has good scores in basic psychological processes:
 Simultaneous = 96 and Planning = 102
- He has a "disorder in one or more of the basic psychological processes"
 Attention = 67 and Successive = 84
- And he has academic failure which equals an SLD determination.



Core Group Activity

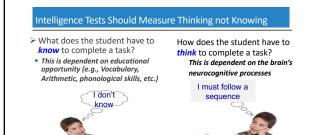
Organizer – Have the group discuss this question: "Your reaction to the different views of Alejandro the different tests yield?"

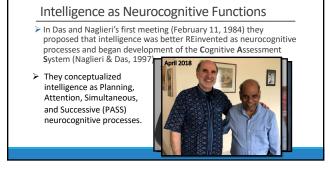
- <u>C</u>oach guide the discussion
- Reporter will record and report to the group
 Energizer keep the discussion going !



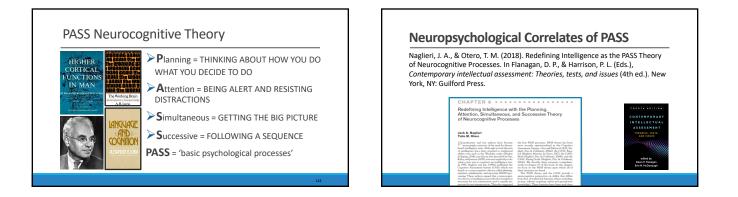
Measuring Brain Function is the Key

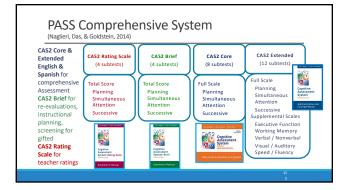
A Closer Look at How PASS Theory is Measured

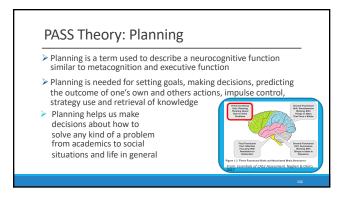




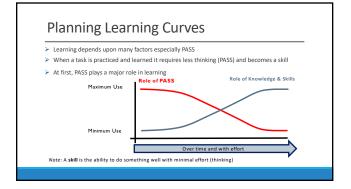
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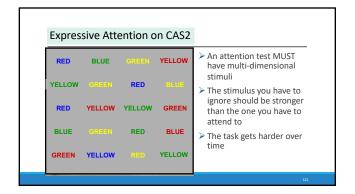


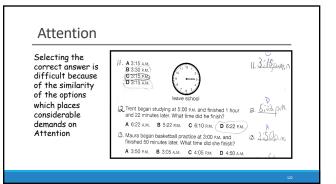
PASS Theory

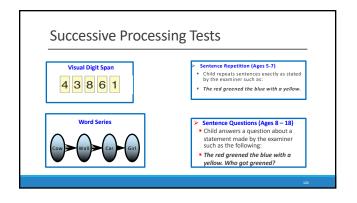
≻Attention is a basic psychological process we use to

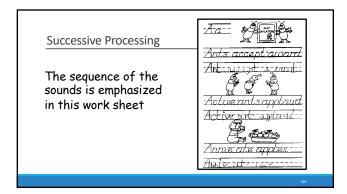
- selectively attend to some stimuli and ignores others
- Focus our cognitive activity
- Selective attention
- Resistance to distraction
- Listening, as opposed to hearing

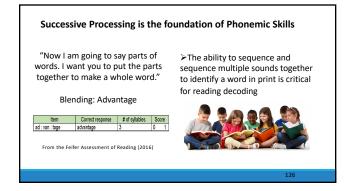








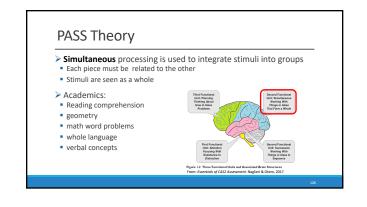


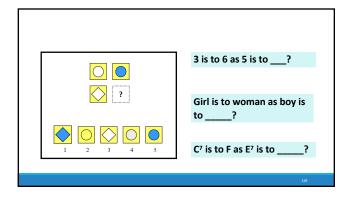


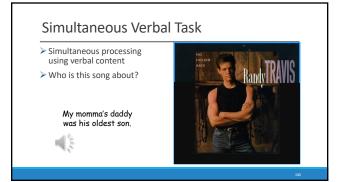


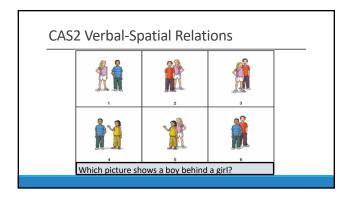
Consider this...

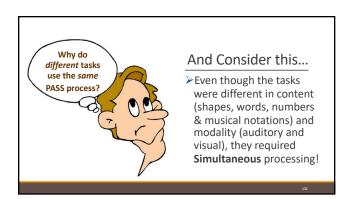
>Even though the tasks were different in content (numbers and words) and modality (auditory and visual), they required the same kind of thinking -Successive processing

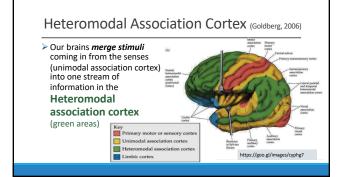






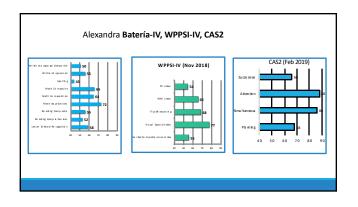


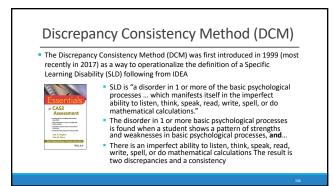


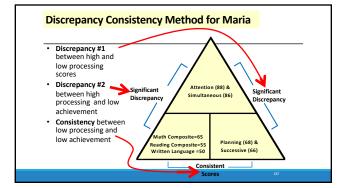


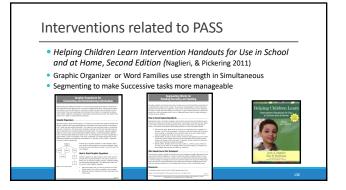
Alexandra: Age 8-1; 2nd Grade Re-evaluation: Concern is student ID? Ø Very Low in Math, Reading and Spelling. Ø Difficulty remembering information, keeping information in order, limited use of strategies. Ø Spend 40% of her day in a cluster classroom with kindergarteners and 1st graders. Ø Has received Sp/L services for two years. History of selective mutism

- Currently receives services under Developmental Delay.
- Ø Spanish dominant. Low vocabulary in both English and Spanish

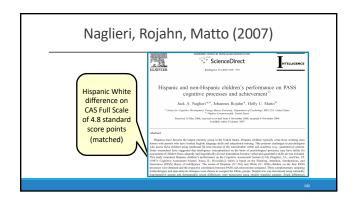


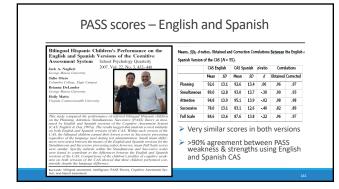


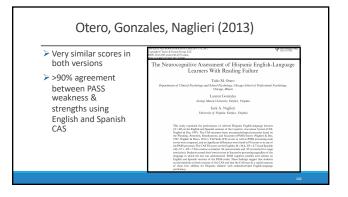




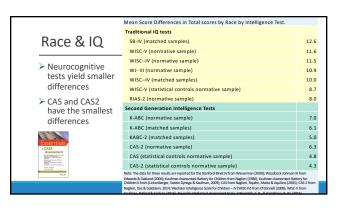
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Strategy Intervention in Im	proving	Christ College, Conack, Oriso, Juda	Programs for Children Bill Branking Dhaldfilles	THERE
Arithmetic Computation Ba	ised	ROLLY STREECTTLER, and RALNO PARKEL of University of Marcineton, University of Marcineton		
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accie superiori contre pontore		egnitischend stanfarten program was investigand - ad-fergunge (252.) poor moders in Grade 4 solo hef		
(hand		comprehension and 14 second ES2, makes in Orale 7 time. Each pressio, new solution from 2 Earlieb workson		
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4	pace at respect and sustaine in Caracia	4	Kynow School District, Terry	e, Alicona
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How Psychometric Bias is Studied (e.g., Jensen's Bias in Mental Tests)

- reliability of internal consistency of items
- reliability of test/retest scores
- > rank order of item difficulties
- > item intercorrelations
- Factor structure of test
- magnitude of the factor loadings
- slope & intercept of the regression line
- age
- item characteristic curve
- frequencies of choice of error
- distracters
- interaction of test items by group membership

Differences in Mean Scores = Impact

- According to the Standards for Educational and Psychological Testing (AERA, APA, NCME, 2014), equitable assessment provides examinees an equal opportunity to display one's ability and ... a fair chance to achieve the same level as others with equal ability on a construct being measured.
- The Standards also remind us that if a person has had limited opportunities to learn the content in a test of intelligence, that test may be considered unfair if it penalizes students for not knowing the answers even if the norming data do not demonstrate test bias.

Test Validity and Social Justice Validity is an overall evaluative judgment of the degree to which empirical evidence and theoretical rationales support the adequacy. ... of *interpretations* ... based on test scores (Messick, 1989).

Validity is not a property of the test or assessment as such, but rather of the *meaning* of the test scores.

A study of "Consequential validity" evaluates the value of the implications of score interpretations as well as the actual and potential consequences of test use; especially in regard to sources of invalidity related to issues of bias, fairness, and distributive justice (Messick, 1980, 1989)."

Illinois School District U-46

Main question: Does the District's gifted program unlawfully discriminate against Hispanic Students?



148

Students was flaved and resulted in an obvious disparate impact on those students by separating them from their gifted White peers... by singing out mostly Juli Hispanic students for the segregated SETS/NOS program, the District depirtuel these shiftees of that selectional apportunity based on their estimative (z. 7).

Judge Gettleman's Decision

Judge Gettlemen found discrimination

regarding (a) tests for screening and for identification. (b) designated outoff scores for screening and identification. (c) use of both verbial and much access at arbitrary designated levels for arcsening and for identification. (d) use of weighted matrics, as well as constrat and criteria in weighted matrices that forwead achievement and traditional messares. (c) to the little relations on a submission to SWAS. (1) re-testing Hispanic students for middle school gifted programs. (d) times of testing (b) use of parental referrals, and (c) use of tradeer referrals (see Table 2).

Core Group Activity

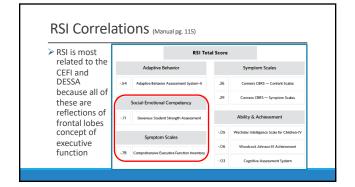
- Organizer Have the group discuss this question: "What thoughts are there about these research studies on Race, IQ and PASS?"
- <u>C</u>oach guide the discussion
- Reporter will record and report to the group
- Energizer keep the discussion going !



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 RSI Normative Sample: 2800 ratings 	RATING SCALE OF IMPAIRMENT (RSI)				
 800 ratings for each of the RSI (5-12 Years) Parent and Teacher forms 	RSI (5-12 YEARS)		RSI (13-18 YEARS)		
600 ratings for each of the RSI (13-18 Years) Parent and Teacher forms > Within 1% the 2010 U.S. Census targets on: = Race/ethnicity, = Region, = PEL > Includes 11.6%-11.8% of clinical cases	PARENT FORM	TEACHER FORM	PARENT FORM	TEACHER FORM	
	Number of Items: 41 Reading Level: 5.8 Admin Time: 10 mins	Number of Items: 29 Reading Level: 6.6 Admin Time: 5 mins	Number of Items: 49 Reading Level: 5.9 Admin Time: 10 mins	Number of Items: 2 Reading Level: 6.6 Admin Time: 5 min	
	Admin Lime: 10 mins. RSI Scales School Social Mability Domestic Family	Admin Time: 5 mins. RSI Scales School Social Mobility	Admin Time: 10 mins. RSI Scales School/Work Social Mobility Domestic Family Self-Care	Admin 1 ime: 5 min RSI Scales School Social Mobility	
	TOTAL SCORE	TOTAL SCORE	TOTAL SCORE	TOTAL SCORE	



Conclusions

- DSM-5 is used to diagnose ASD
- Additional measures are helpful to more completely describe the individual characteristics that makes each person unique
- \succ This was the goal of today's presentation
- ≻ THANK YOU

One of them is Sebastian, that you might remember from Oslo (PASS 93-91-95-60), with a more typical language problem than autism score on ASRS. He is now in the first year at high school, and has a school setting almost without school subjects. Based on his CAS2 results we have recommended to pick up the school subjects, and described how to do it - hope the school will be able to do so. And I hope the family will let us write a case that we can publish, maybe in an article. A very good example of the utility of CAS2!