The Changing Face of Autism: Understanding, Evaluating and Treating Autism Spectrum Disorders: New Data, New Ideas, and the ASRS www.samgoldstein.com info@samgoldstein.com @ ddrsamgoldstein @ doctorsamgoldstein Autism spectrum Rating Scales (ASRS) Assistant Clinical Professor University of Utah School of Medicine	
Relevant Disclosure	
Goals • Briefly discuss the historical theories of Autism Spectrum	
Disorders (ASD). • Define ASD and new DSM 5 criteria. • Briefly discuss symptoms of ASD by age. • Briefly discuss a core theory of ASD. • Briefly review hypothesized causes. • Discuss data from the ASRS. the largest	
epidemiological/standardization sample collected of normal children and those with ASD. Discuss the ASRS and other methods for assessment, diagnosis and treatment of autism. Discuss issues of diagnosis versus eligibility	

We are social beings.

What Benefits Do We Derive From Socialization?



- Support
- Survival
- Affiliation
- Pleasure
- Procreation
- Knowledge
- Friendship

The social development of autistic children is qualitatively different from other children.



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In normal children perceptual, affective and neuroregulatory mechanisms predispose young infants to engage in social interaction from very early on in their lives.	
Socialization Begins Early Reina and Her Mother	

Adrian, my seatmate on a recent flight.	







3



Where are Autism's Roots?

- In the bible?
- In ancient cultures?
- In history?
- In religion?
- Portrayed in art?

Les âges de l'ouvrier	
<u>Léon FRÉDÉRIC</u> 1895	16







Which woman is her mother?

Autism's First Child
AS NEW CASES OF AUTEM HAVE EXPLODED IN SECENT YEARS—GOME FORM OF THE CONDITION AFFECTS AGOUT ONE IN 100 CHILDEN TOOM—FERTS HAVE MULTIPLED TO UNDERSTAND AND ACCOMMODATE THE CONDITION IN CHILDHOOD. BUT CHILDEN WITH ACTION WILL BECOME ADULTS WHITH ACTION, SOUR 500, 600 OF THEM IN THIS DECADE ADULTS WITH ACTION, SOUR FER OWNER, AND ASSESSED AND ACCOUNT OF THE WAS THE PREST PERSON NYER DIAGNOSED WITH AUTEMS. AND HIS LONG, HAPPY, SURPRISING LIPE MAY HOLD SOME ANSWERS.
By John Donvan and Caren Zucker
Atlantic Monthly, October 2010

A Brief Current Research Update of ASD and Transition to Adulthood

Epidemiology of Autism Spectrum Disorders in Adults in the Community in England

Traolach S. Brugha, MD(NUI), FRCPsych; Sally McManus, MSc; John Bankart, MSc, PhD; Flona Scott, PhD, CPsychol; Susan Purdon, MSc, PhD; Jane Smith, BSc; Paul Bebbington, PhD, FRCPsych; Rachel Jenkins, MD, FRCPsych; Howard Meltzer, PhD

Context: To our knowledge, there is no published in-formation on the epidemiology of autism spectrum dis-orders (ASDs) in adults. If the prevalence of autism is increasing, rates in older adults would be expected to be lower than rates among younger adults.

Objective: To estimate the prevalence and characteristics of adults with ASD living in the community in

Setting: General community (ie, private households) in England.

Main Outcome Measures: Autism Diagnostic Observation Schedule, Module 4 in phase 2 validated against the Autism Diagnostic Interview-Revised and Diagnostic Interview for Social and Communication Disorders in phase 3. A 20-tiem subset of the Autism-Spectrum Quo-

Arch Gen Psychiatry. 2011;68(5):459-466

Epidemiology of autism in adults across age groups and ability levels*

Traolach S. Brugha, Nicola Spiers, John Bankart, Sally-Ann Cooper, Sally McManus, Fiona J. Scott, Jane Smith and Freya Tyrer

Background
The epidemiology of autism in adults has relied on untested projections using childhood research.

The combined prevalence of autism in adults of all ages in England was 11/1000 (95% Cl 3–19/1000). It was higher in © The Royal College of Psychiatrists 2016.

Cited by 1

Anxiety and depression in adults with autism spectrum disorder: a systematic review and meta-analysis

 $\label{eq:matthew_j_hollocks} \begin{tabular}{ll} Matthew_j_hollocks \begin{tabular}{ll} Mollocks \be$

Adults with autism spectrum disorder (ASD) are thought to be at disproportionate risk of developing mental health comorbidities, with anxiety and depression being considered most prominent amongst these. Vet, no systematic review has been carried out to date to examine rates of both anxiety and depression focusing specifically on adults with ASD. This systematic review and meta-analysis examined the rates of aswisey and depression in adults with ASD and the impact of factors such as assessment methods and presence of comorbid intellectual disability (ID) diagnosis on estimated prevention et along the control disables searches for studies published between jamuary 2000 and September 2017 identified a total of 35 studies, including 30 studies measuring anxiety (n = 26 070; mean age = 30.9, s. e. 6.2 years) and 25 studies including depression (n = 26 117; mean age = 31.1, s. e. 6.8 years). The pooled estimation of current and lifetime prevalence for adults with ASD were 27% and 42% for any anxiety disorder, and 23% and 37% for depressive disorder, Environ analyses revealed that the use of questionnaire measures and the presence of ID may significantly influence estimates of prevalence. The current literature suffers from a high degree of community-based studies and the identification and inclusion of well-characterized samples to reduce heterogeneity and bias in estimates of prevalence for comorbidity in adults with ASD and other populations with complex psychiatric presentations.

RESEARCH ARTICLE

Psychometric Evaluation of Social Cognitive Measures for Adults with Autism

Kerrianne E. Morrison $^{\odot}$, Amy E. Pinkham, Skylar Kelsven, † Kelsey Ludwig, David L. Penn, and Noah J. Sasson

II. Sasson
Although social cognition is frequently identified as a target in clinical trials and psychrosocial interventions for adults with autium spectrum disorder (AD), these efforts are hampred by a lack of consensus and validation of social cognitive measures. The current study provides psychometric evaluation of 11 frequently used measures encompassing different continuous productions of the control of

JOURNAL OF APPLIED BEHAVIOR ANALYSIS 2019, 52, 150–172 NUMBER 1 (WINTER)

ASSESSING AND TEACHING JOB-RELATED SOCIAL SKILLS TO ADULTS WITH AUTISM SPECTRUM DISORDER

Carolyn M. Grob, Dorothea C. Lerman, Channing A. Langlinais and Natalie K. Villante

Few studies have evaluated interventions to improve the job-related social skills of adults with autism spectrum disorder. In this study, we cannined the efficacy of a treatment package for teaching several social skills that are critical to job success, such as responding appropriately to feedback, and asking for a task model from the supervisor. Three adults, aged 19 to 27 years, purticipated. Intill training of each skill consisted of verbal explanations, modeling, and role-play with feedback, along with stimular prompts to promote generalization to a different section of the stimular prompts promote the contract of the contract training and accounted without the state of the contract process of the contract prompts and the contract process of the contract prompts may be necessary for generalization to a job setting. However, generalized responding across social skills rarely emerged. These findings have important implications for preparing across social skills and will be accounted to the contract process of the contra

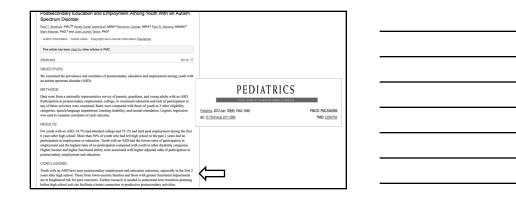
The costs of services and employment outcomes achieved by adults with autism in the US

ROBERT EVERT CIMERA Kent State University; USA RICHARD J. COWAN Kent State University, USA

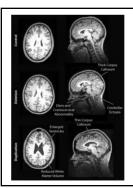
ABSTRACT This article examines the cost of services and employment outcomes obtained by adults with austism within the United States vocational rehabilitation (VR) system is found that the number of such individuals has increased by more than 121 percent from 2002 to 2006. Moreover, brough adults with austism were employed at higher rates than most disability groups investigated, they tended to work farewhore and earlies in weages prevet. The study about data adults with austism were among the most costly individuals to serve.

ADDRESS Correspondence should be addressed to: ROBERT EVERT CIMERA, PhD, Kent State University, Educational Foundations and Special Services, 405 White Hell, Kent, OH 44242—0001, USA. e-mail: rcimera@kent.edu

Audism. Author manuscript; available in PMC 2016 Oct 1. PMCID: PMC4581899 Published in final edited form as: NIHMSID: NIHMSID: NIHMSID: NIHMSIB4593 Audism. 2015 Oct 19/17: 785–793. PM2: 22019306	
Autsm. 2015 Oct. 19(7): 785–783. PMID: 26019306 Published online 2015 May 27. doi: 10.1177/1362361315585643	·
Longitudinal patterns of employment and postsecondary education for	
adults with autism and average-range IQ Julie Lounds Taylor, Natalle A. Henninger, and Marsha R. Mallick	
Author information - Copyright and License information <u>Disclaimer</u>	
The publisher's final edited version of this article is available at <u>Autism</u> See other articles in PMC that <u>cite</u> the published article.	
See orner articles in PMU that QUE the published article.	
Associated Data	
Supplementary Materials	
Abstract Go to: ⊡	
This study examined correlates of participation in postsecondary education (PSE) and employment over 12	
years for 73 adults with autism spectrum disorders (ASD) and average-range (Q whose families were part of a larger, longitudinal study. Correlates included demographic (see, maternal education, paternal education), behavioral (activities of daily living, maladaptive behaviors, autism symptoms) and family	
(size of maternal social network; maternal depressive symptoms, anxiety, and pessimism) factors. Although two-thirds of adults with ASD participated in competitive employment/PSE during the study, fewer than	
25% maintained these activities over the study period. Behavioral characteristics distinguished those who never had competitive employment/PSE from those who sometimes or consistently participated in these	
activities. Women were considerably less likely than men to maintain employment/PSE over time. Keywords: Autism spectrum disorder, adult, employment, postsecondary education, longitudinal	
Journal of Vicational Rehabilitation 22 (2010) 125–134 DOI:10.3235/FW-2010-0502 125	
DOL10.3233/FVR-2010-0502 IOS Press	
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Employment and adults with autism	
spectrum disorders: Challenges	
and strategies for success	
gg	
Dawn Hendricks	
Virginia Commonwealth University, Department of Special Education and Disability Policy, 1314 W. Main Street, Richmond, VA 23234, USA	
E-mail: drhendricks@vcu.edu	
Accepted: August 2009	
Abstract. Individuals with autism spectrum disorder (ASD) have the ability and desire to work, but there are still several	-
obstructions. Research overwhelmingly demonstrates disappointing employment outcomes for this group. The wast majority is unemployed and for those who do have gainful employment, underemployment is common. The increased pervalence of ASD coupled with unique social, communication, and behavioral characteristics translate into the need for services to help them there employment suspects. Consideration of individual characteristics including terrepting, needs, as well as specific interests, coupled	
employment success. Consideration of individual characteristics including strengths, needs, as well as specific interests, coupled with implementation of proper supports can result in successful and ongoing employment. This paper provides a review of evidence based research related to employment for individuals with ASD. Specific areas addressed include benefits for employment.	
dence based research related to employment for individuals with ASD. Specific areas addressed include benefits of employment, state of employment, obstacles to employment, current service options, and an in depth review of supports needed for success. These supports focus not only on job tasks, but also the interpersonal skills needed to foster a positive work experience.	
Keywords: Autism, ASD, employment for adults with autism	
J Autism Dev Disord. Author manuscript; available in PMC 2012 May 1. PMCID: PMC3033449	
Published in final edited form as: NIHMSID: NIHMS233259	9
J. Autism. Dev Disord. 2011 May. 41(5): 566–574. PMID: 20640591 doi: 10.1007/s10803-010-1070-3	
Employment and Post-Secondary Educational Activities for Young Adults	
with Autism Spectrum Disorders During the Transition to Adulthood	
Julie Lounds Taylor ⁵⁰ and Marsha Mailick Seltzer - Author information - Copyright and License information <u>Disclaimer</u>	
The publisher's final edited version of this article is available at <u>J Autism Day Disord</u> See other articles in PMC that cite the published article.	
Abstract Go to:	
This report describes the post-high school educational and occupational activities for 66 young adults with autism spectrum disorders who had recently exited the secondary school system. Analyses indicated low	
rates of employment in the community, with the majority of young adults (56%) spending time in sheltered	ed
workshops or day activity centers. Young adults with ASD without an intellectual disability were three times more likely to have no daytime activities compared to adults with ASD who had an intellectual	
disability. Differences in behavioral functioning were observed by employment/day activity group. Our findings suggest that the current service system may be inadequate to accommodate the needs of youths	
with ASD who do not have intellectual disabilities during the transition to adulthood.	
Keywords: Transition to adulthood, Employment, Post-secondary education, Autism spectrum disorders	-







Some people with autism have abnormalities at a specific site on the 16th chromosome known as 16p11.2. Deletion or duplication of a small piece of chromosome at this site is one of the most common identified genetic causes of autism spectrum disorder.

MRI reveals striking brain differences in people with genetic autism. August 8, 2017. Radiological Society of North America 33

Assessn	nent	\circ f	ΔSD
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- High levels of co-morbidity require a comprehensive assessment including: intellect, neuropsychological abilities, achievement, emotional status, personality and protective factors.
- A careful history is essential.
- Well developed, reliable and valid measures must be used to the extent they are available.
- DSM 5 or ICD 10 criteria must be met.

Making the Diagnosis of ASD

- Meets DSM 5 Criteria.
- Coping behaviors assessed.
- Co-morbid behaviors and disorders assessed.
- Corroborating data obtained about child and adulthood.
- Intellectual, achievement and neuropsychological data collected if warranted.

Determining IDIEA Eligibility of Autism

- Autism, as defined by <u>Individuals with Disabilities Education Act (IDEA)</u> refers to "a
 developmental disability significantly affecting verbal and nonverbal communication and social
 interaction, generally evident before age three, that adversely affects a child's educational
 performance."
- This federal definition then proceeds to name traits commonly related to the condition: "Other characteristics often associated with autism are engaging in repetitive activities and stereotyped movements, resistance to environmental change or change in daily routines, and unusual responses to sensory experiences.
- responses to sensory experiences.

 The term autism does not apply if the child's educational performance is adversely affected primarily because the child has an emotional disturbance, as defined in [IDEA]."

 IDEA rounds out its definition by noting that a child who shows the characteristics of autism after age three could be diagnosed as having autism if the criteria above are satisfied. This enables a autism after his or her third birthday.
- Typically a psychiatrist, clinical psychologist, physician or other highly qualified professional makes the diagnosis. It would not be uncommon for the evaluation team to suspect Autism, then ask the parent to see a psychiatrist, clinical psychologist or appropriately trained pediatrician.

Chudante that have a DSM as ISD diagnosis ass	
Students that have a DSM or ICD diagnosis are not automatically eligible for special education services, according to the Individuals with Disabilities Education	
Improvement Act (IDEIA).	
37	
Educational eligibility and subsequent services are determined by conducting assessments and testing	
performed by a school's multidisciplinary team and not that of medical diagnostic tests.	
These can include observations, history, developmental information, behavior information and a documented prevalence over a period of time.	
33	
-	
Core DSM and ICD Core ASD Symptoms in All Ages	
Impaired social relations.	
• Impaired communication skills.	
Impaired behavior.	
NUTROL NOTES	
ACT GARAGE	
	4

Symptoms Present Before 24 Months

Children with ASD Struggle to:

- Orient to name
- Attend to human voice
- Look at face and eyes of others
- Imitate
- Show objects
- Point
- Demonstrate interest in other children



Symptoms Present Before 36 Months

Children with ASD:

- Use of other's body to communicate or as a tool
- Stereotyped hand/finger/body mannerisms
- Ritualistic behavior
- Failure to demonstrate pretend play
- Failure to demonstrate joint attention



DSM 5 Autism Spectrum Disorder

- Combined social and communication categories.
- Tightened required criteria reducing the number of symptom combinations leading to a diagnosis.
- Omitted Retts and Childhood Disintegrative Disorders.
- Clarifies co-morbidity issues.
- Eliminated PDD NOS and Aspergers in favor of Autism Spectrum Disorder.
- Created Social Pragmatic Communication Disorder.
- Still no specified profile for adults, just guidelines.

...

DSM 5	Autism	Spectrum	Disorder

- Five criteria.
- Seven sets of symptoms in the first two criteria –
 Social/Communication and Restrictive/Repetitive behaviors, interests or activities.
- All three symptoms are required to meet the first criteria (although a typo omits this).
- Two out of four are needed for the second criteria.
- Some symptoms have been combined.
- Sensory sensitivity has been added.

DSM 5 ASD Criteria A

Persistent deficits in social communication and social interaction across multiple contexts, as manifested by the following, currently or by history (examples are illustrative, not exhaustive; see text):

- Deficits in social-emotional reciprocity, ranging, for example, from abnormal social approach and failure of normal back-and-forth conversation; to reduced sharing of interests, emotions, or affect; to failure to initiate or respond to social interactions.
- Deficits in nonverbal communicative behaviors used for social interaction, ranging, for example, from poorly integrated verbal and nonverbal communication; to abnormalities in eye contact and body language or deficits in understanding and use of sectures; to a total lack of facial expensions and nonverbal communication.
 Deficits in developing, maintaining, and understanding relationships, ranging, for example, from difficulties in sharing imaginative play or in making friends, to absence of interest in difficulties in sharing imaginative play or in making friends, to absence of interest in

DSM 5 ASD Criteria B

Restricted, repetitive patterns of behavior, interests, or activities, as manifested by at least two of the following, currently or by history (examples are illustrative, not exhaustive; see text):

- Stereotyped or repetitive motor movements, use of objects, or speech (e.g., simple motor stereotypies, lining up toys or flipping objects, echolalia, idiosyncratic phrases).
- Insistence on sameness, inflexible adherence to routines, or ritualized patterns of verbal or nonverbal behavior (e.g., extreme distress at small changes, difficulties with transitions, rigid thinking patterns, greeting rituals, need to take same route or eat same food ever day.
- ioud every day).

 3. Highly restricted, fixated interests that are abnormal in intensity or focus (e.g., strong attachment to or preoccupation with unusual objects, excessively circumscribed or perseverative interests).
- A. Hyper- or hypo-reactivity to sensory input or unusual interest in sensory aspects of the environment (e.g., apparent indifference to pain/temperature, adverse response to specific sounds or textures, excessive smelling or touching of objects, visual fascination with lights or movement).

DSM 5 Autism Spectrum Disorder

• Specify if:

With or without accompanying intellectual impairment.

With or without accompanying language impairment.

Associated with a known medical or genetic condition or environmental factor.

Associated with another neurodevelopmental, mental, or behavioral disorder. $\label{eq:control} % \begin{subarray}{ll} \end{subarray} \be$

With catatonia.

46

DSM 5 ASD Criteria C, D, E.

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

47

The Three Functional Levels of Autism ASD Level 1 Requiring Support ASD Level 2 Requiring Support Requiring Support ASD Level 3 Requiring Very Substantial Support Substantial Support and interactions limited to narrow special interests organization and planning problems can propose independence or repetitive behaviors repetitive behaviors

Applying DSM 5 With Adults (page 54)

- "Many adults with ASD without intellectual or language disabilities learn to suppress repetitive behavior in public."
- "Special interests may be a source of pleasure and motivation and provide avenues for education and vocation later in life."
- "Diagnostic criteria may be met when restricted, repetitive patterns of behavior, interests or activities were clearly present during childhood... even if symptoms are no longer present."
- "Among adults with ASD with fluent language, the difficulty in coordinating non-verbal communication with speech may give the impression of add, wooden or exaggerated body language."

Applying DSM 5 With Adults (page 56-57)

- Symptoms are "clear in the developmental period."
- "In later life interventions or compensations, as well as current supports, may mask these difficulties in at least some contexts."
- "However symptoms remain sufficient to cause current impairment in social, occupational or other important areas of functioning."
- \bullet "ASD is diagnosed four times more often in males than females."
- "Girls without accompanying intellectual impairment or language delays may go unrecognized."

DSM IV TR Autism and Asperger Syndrome

Data from the Autism Spectrum Rating Scales Epidemiologic Sample (2009)

Lorna Wing: Godmother of Autism



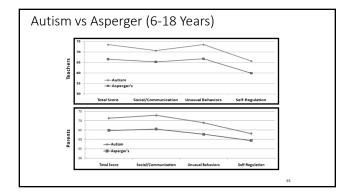


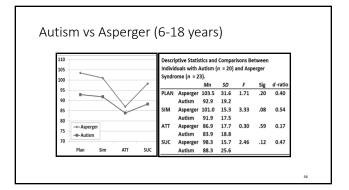
Autism vs. Asperger

- ASRS means for ages 2-5 years were typically somewhat higher for children with Autism than those with Asperger's syndrome.
 - Exception being Unusual Behaviors where the two groups were similar
- ASRS means for ages 6-18 years were consistently higher for children with Autism than those with Asperger's syndrome.

53

Autism vs Asperger (2-5 years) Total force Sectol/Communication Uncommunication State Office Sector State Sector Sector





DSM 5 Social (Pragmatic) Communication Disorder Criteria A

Persistent difficulties in the social use of verbal and nonverbal communication as manifested by all of the following:

- Deflicits in using communication for social purposes, such as greeting and sharing information, in a manner that is appropriate for the social context.
 Impairment of the ability to change communication to match context or the needs of the listener, such as speaking differently in a classroom than on a playground, talking differently to a child than to an adult, and avoiding use of
- Difficulties following rules for conversation and storytelling, such as taking turns in conversation, rephrasing when misunderstood, and knowing how to use verbal and nonverbal signals to regulate interaction.
- Difficulties understanding what is not explicitly stated (e.g., making inferences) and non-literal or ambiguous meanings of language (e.g., idioms, humor, metaphors, multiple meanings that depend on the context for interpretation).

DSM 5 Social (P	ragmatic) Communication Disorder Criteria B, C, and D	7
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B. The deficits resul academic achiev	t in functional limitations in effective communication, social participation, social relationships, ement, or occupational performance, individually or in combination.	
	symptoms is in the early developmental period (but deficits may not become fully manifest	
until social comm	nunication demands exceed limited capacities).	
domains of word st	e not attributable to another medical or neurological condition or to low abilities in the tructure and grammar, and are not better explained by autism spectrum disorder, intellectual	
disability (intellecti	ual developmental disorder), global developmental delay, or another mental disorder.	
NO DISCUSSION OF T	HIS DIAGNOSIS IN ADULTS!	
	58	
Google Itl	Conducting an Evaluation for ASD	7
Google It:	Conducting an Evaluation for ASD	
Google	Questionnaires to evaluate adult Autim Q	
	All Images News Videos Shopping More Settings Tools	
	About 5,110,000 results (0.58 seconds)	
	Showing results for Questionnaires to evaluate adult Autism Search instead for Questionnaires to evaluate adult Autim	
	Take the Autism Test for Adults: Do I Have Symptoms of Autism https://www.addiudemag.com/screener-autism-spectrum-disorder-symptoms-test-adults/ ▼	
	[Self-Test] Autism Spectrum Disorder Symptoms in Adults This free test was adapted from the Autism Spectrum Screening Questionnaire (ASSQ) designed to	
	People also ask	-
	Is there a test for autism in adults?	
	Can I test myself for Autism? What are the 5 different types of autism?	
	what are the 3 different types or autism? What is high functioning autism in adults?	
	Feedback	
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Google It!	Conducting an Evaluation for ASD	
	ARC Tests - Autism Research Centre https://www.audismresearchcentre.com/urc_tests •	
	Adult Asperger Assessment (AAA) Clief to view Childhood Autism Spectrum Test (CAST) Click to view Social Stories Questionnaire (SSQ) Click to view.	
	Assessing Autism in Adults: An Evaluation of the Developmental https://www.ncbi.nin.nin.phyprimpd.rides/PEASY87451 ** by W. Mandy . 2013 - Code by 3 - Related notices for Y. 2017 - Joseph of Autism and Developmental Disorders	
	attender ASC cases were conducted face-to-face by	
	Quick Autism Test 2: Minutes. Instant Results. — Psych Central https://psychochenic.com/centrals.autism-equiz* / A quick scientific audient test to determine if you might quality for a disposate of Autism or Aupregar's (fyndrom: It takes not properlies to haz in Principles Sulta.)	
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https://www.autismresearchcentre.com/arc_tests Downloadable Tests Various tests have been devised by ARC for use in the course of our research. Some of these tests are made available here for download. You are welcome to download these tests provided that they are used for genuine research purposes, and provided due acknowledgement of ARC as the source is given. Our tests are posted on our website to enable free access to academic researchers. None of them are disprostic: No single soon on any of our tests or questionnaires indicates that an expension of the single singl https://www.autismresearchcentre.com/arc_tests Empathy/Systemizing Quotient (EQ-SQ) (Child) 🔻 Adult Asperger Assessment (AAA) 🔻 Autism Spectrum Quotient (AQ) (Adult) • The EU-Emotion Stimulus Set ▼ Autism Spectrum Quotient - 10 items (AQ-10) (Adult) ▼ Eyes Test (Adult) ▼ Autism Spectrum Quotient (AQ) (Adolescent) 🔻 Eyes Test (Child) 🔻 Autism Spectrum Quotient - 10 items (AQ-10) (Adolescent) 🔻 Faux Pas Test (Adult) ▼ Autism Spectrum Quotient (AQ) (Child) 🔻 Faux Pas Test (Child) ▼ Autism Spectrum Quotient - 10 items (AQ-10) (Child) • Friendship and Relationship Quotient (FQ) Cambridge Mindreading (CAM) Face-Voice Battery 🔻 Intuitive Physics Test 🔻 Checklist for Autism in Toddlers (CHAT) Coherence Inferences Test ▼ Quantitative Checklist for Autism in Toddlers (Q-CHAT) Quantitative Checklist for Autism in Toddlers - 10 items (Q-CHAT-10) Picture Sequencing Test Picture Sequencing Test Physical Prediction Questionnaire (PPQ) • Childhood Autism Spectrum Test (CAST) 🔻 Empathy Quotient (EQ) for Adults 🔻 Reading the Mind in Films Test 🔻 Empathy Quotient (EQ) for Adolescents 🔻 Revised Test of Genuineness (TOG-R) ▼ Empathy/Systemizing Quotient (EQ-SQ) (Child) 🔻 Cambridge Behavioural Scale 1. I can easily tell if someone else wants to enter a strongly slightly slightly strongly convergation. spread agree agree disagree disagr strongly slightly slightly strongly agree agree disagree disagree 3. I try to keep up with the current trends and strongly slightly slightly strongly fashions. strongly disagree strongly slightly slightly strongly agree agree disagree disagree strongly slightly slightly strongly agree agree disagree disagree 8. I find it hard to know what to do in a social strongly slightly slightly strongly agree disagree disagree disagree

Autism Spectrum Disorder as Reflected in the
Autism Spectrum Rating Scales (Goldstein and
Naglieri, 2009) Exploratory and Confirmatory
Factor Analyses

Validity of the Factors

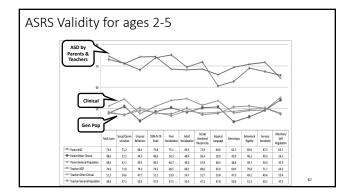
- Factor analysis is a valuable tool to understand how items group.
- But we also need to know if the items have validity, that is do they measure what they purport to measure?
- Discriminating individuals with ASD from the regular population is important.
- Discriminating individuals with ASD from those who are not in the regular population (e.g. they suffer from other conditions) but not ASD is equally important.

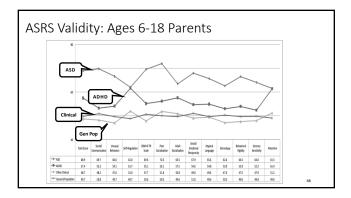
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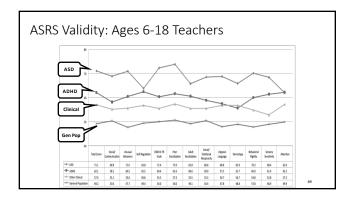
ASRS Profiles

- A scale like the ASRS should differentiate adults with ASD from the normal population.
- Comparison to regular individuals should demonstrate that those with ASD have high scores.
- \bullet Comparisons to other clinical groups should also show differences from those with ASD.
- Comparisons of the ASD to regular and other clinical samples provides an essential examination of validity.

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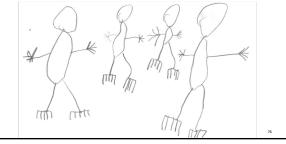




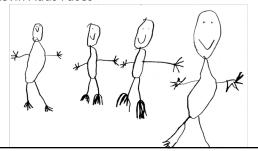
The ASRS now has a DSM 5 scale as well as	
scoring options for non-verbal children.	
Autism is increasingly referred to as a	
spectrum disorder in which individuals can present problems ranging from total	-
impairment to near reasonable functioning.	
	_
]
In a Spectrum Disorder genetic and	
phenotypic factors predispose certain individuals to express certain Central	
Nervous System vulnerabilities leading to poorly adapted variations in development and behavior.	

la a Caratanan Birandan III amartana an	
In a Spectrum Disorder all symptoms are considered relevant to the extent they	·
present in each disorder. Thus a	
symptom is not exclusive to a disorder.	
	·
The form that a Spectrum Disorder	
assumes is determined by its composite	
symptoms. These symptoms often have complex relationships.	-
complex relationships.	
Meet Kevin	
DA	
179-2	
75	

Kevin Draws His Family



Kevin Adds Faces



Pretend Play in Autism

- Limited, often absent
- When present usually characterized by: repetitive themes, rigidity, isolated acts, one-sided play, limited imagination.

Evaluating Compensatory Behaviors
Social Camouflage in ASD

- Social camouflaging is defined as the use of strategies by autistic people to minimize the challenges of autism during social situations (Lai et al. 2011).
- Social camouflage has recently been a focus of researchers, but has been recognized by clinicians as coping strategies. It is now recommended that clinicians evaluate masking or coping behaviors when assessing autism in the newly released 11th edition of the International Classification of Diseases (Zeldovich 2017).
- This phenomena may be a widespread in ASD, especially in intellectually strong individuals.

- Social camouflaging reflects an explicit effort to 'mask' or 'compensate' for autistic characteristics; and to use conscious techniques to minimize an autistic behavioral presentation (Hull et al. 2017; Lai et al. 2017; Livingston and Happé 2017).
- Examples of camouflaging behaviors described in the current literature include as example: forcing oneself to make eye contact during a social interaction; pretending that one is doing so by looking at the space between someone's eyes or at the tip of their nose; or using working memory strategies to develop a list of appropriate topics for conversation.

Social Camouflage in ASD: Unanswered Questions

- Do autistic females camouflage more than males, and does this partly account for gender disparities in the rate and timing of diagnosis (Begeer et al. 2013; Loomes et al. 2017)?
- What is the relationship between camouflaging and mental health outcomes?
- How should camouflaging be accurately measured? Is a discrepancy method sufficient to assess the the gap between how a person with ASD mediates their internal autistic status and their overt behavior (external autistic presentation)?

-		

Measuring Social Camouflage	
Livingston and Happé (2017) suggest that camouflaging is a component of social compensation.	
The "processes contributing to improved behavioral presentation of a neurodevelopmental disorder such as ASD, despite persisting core	
deficit(s) at cognitive and/or neurobiological levels". As such they should be measured at the behavioral, cognitive, and even	
neurobiological levels.	
Performance on tests of cognition relevant to	
autism, or scores on self-reported measures of autism traits can only serve as a proxy measure of	
internal autistic status.	-
Measuring Social Camouflage	
 An alternative to the discrepancy approaches is one based on observational recognition of camouflaging; measuring the specific behaviors and experiences which represent camouflaging. 	
 Observational/reflective methods circumvent the limitation of being unable to measure an individual's internal autistic state. Camouflaging can be measured consistently and compared between individuals, and 	
be measured consistently and compared between individuals, and behaviors can be identified regardless of how successful they may be. • This approach to camouflaging has the advantage of allowing for variation	
in camouflaging behaviors and their success. Techniques learned and used in some situations may not be successful in others.	
 An individual's overall camouflaging skill may partly depend on their flexibility/generalizable capacity to adapt to different situations. 	

Measu	iring	Social	Camo	uflage
1110000	חיייי	Secial	Carrio	anape

- Both the discrepancy and observational/reflective approaches offer ways to define and measure camouflaging in ASD.
- All the methods used or suggested have their own strengths and weaknesses, thus combining multiple methods may allow for greater accuracy in measuring and identifying a complex phenomenon such as camouflaging.

Camouflaging Autistic Traits Questionnaire (CAT-Q)

- Compensation
- Masking
- Assimilation

Laura Hull , William Mandy, Meng-Chuan Lai, Simon Baron-Cohen, Carrie Allison, Paula Smith & K. V. Petrides. Development and Validation of the Camouflaging Autistic Traits Questionnaire (CAT-Q) Journal of Autism and Developmental Disorders. doi.org/10.1007/s10803-018-3792-6

Social Camouflage: Compensation

- Copy others facial expression or body language.
- Learn social clues from media.
- Watch others to understand social skills.
- \bullet Repeat others phrasing and tone.
- Use script in social situations.
- Explicitly research the rules of social engagement.

Social	l Camou	flage:	Mas	king

- Monitor face and body to appear relaxed.
- Adjust face and body to appear relaxed.
- Monitor face and body to appear interested in others.
- Adjust face and body to appear interested in others.
- Pressured to make eye contact.
- Think about impression made on others.
- Aware of impression made on others.

Social	Camouflage:	Assimil	ation
--------	-------------	---------	-------

- Feel a need to put on an act.
- Conversation with others is not natural.
- Avoid interacting with others in social situations.
- "Performing" e.g. not being oneself in social situations
- Force self to interact with others.
- Pretending to be normal.
- Need support of others to socialize.
- Cannot be oneself while socializing.

Importance of a National Norm

- Sample was stratified by
 - Sex, age, race/ethnicity, parental education level (PEL; for cases rated by parents), geographic region
 - Pace/ethnicity of the child (Asian/Pacific Islander, Black/African American/African Canadian, Hispanic, White/Caucasian, Multi-racial by the rater

 - Parents provided PEL of both parents
 the higher of the two levels was used to classify the parental education level of the child
 - All raters completed the ASRS via the paper-and-pencil or online methods.

Importance (of	а	National	Norm
--------------	----	---	----------	------

ASRS Standardiza	tion Samples by Age	and Rater
Age Groups	Parent Raters	Teacher Raters
2 - 5 Years	320	320
6 - 11 Years	480	480
12 - 18 Years	480	480
Sub Total n	1,280	1,280
TOTAL N		2,560

Note: at ages 2-16 years there were 80 subjects (40 girls and 40 boys) per one year age group. At ages 17-18 there were 80 subjects (40 girls and 40 boys) across this two year interval.

Importance of a National Norm

- Validity samples were collected
- Validity samples were collected

 a single primary diagnosis was indicated

 a qualified professional (e.g., psychiatrist, psychologist) had made the diagnosis

 Criteria were made using DSM-IV-TR or ICD-10

 Clinical samples include:

 ASD (N = 580)

 ADHD (N = 250)

 Communication Delay (N = 180)

 Developmental Delay (N = 140)

 Anxiety / Depression (N = 100)

ASRS Reliability

ASRS Reliability Ages 2-5 Parents & Teachers (or caregivers) $\,$

		Pa	rent Rating	\$	Teacher Ratings		
Scale		Normative Sample (N = 320)	Clinical Sample (N = 243)	Average	Normative Sample (N = 320)	Clinical Sample (N = 249)	Average
Total Score		.95	.98	.97	.94	.99	.97
ASRS	Social/Communication	.94	.98	.96	.95	.98	.97
Scales	Unusual Behaviors	.91	.96	.94	.85	.97	.92
DSM-IV-TR	Scale	.91	.97	.94	.91	.98	.95
	Peer Socialization	.77	.96	.89	.85	.95	.91
	Adult Socialization	.67	.85	.76	.78	.85	.81
_	Social/Emotional Reciprocity	.83	.96	.91	.88	.96	.93
Treatment Scales	Atypical Language	.71	.77	.74	.59	.79	.69
Scales	Stereotypy	.75	.86	.80	.67	.86	.77
	Behavioral Rigidity	.85	.94	.90	.82	.95	.90
	Sensory Sensitivity	.71	.89	.81	.59	.90	.77
	Attention/Self-Regulation	.83	.88	.85	.83	.89	.86

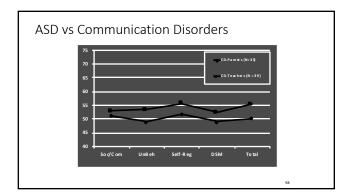
ASRS Reliability Ages 6-18 : Parents

		6	to 11 Years		12 to 18 Years			
Scale		Normative Sample (N = 480)	Clinical Sample (N = 230)	Average	Normative Sample (N = 480)	Clinical Sample (N = 185)	Average	
Total Score		.97	.98	.97	.97	.97	.97	
ASRS	Social/ Communication	.91	.97	.94	.92	.95	.93	
Scales	Unusual Behaviors	.94	.95	.94	.93	.95	.94	
	Self-Regulation	.92	.92	.92	.93	.93	.93	
DSM-IV-TR	Scale	.95	.96	.95	.94	.96	.95	
	Peer Socialization	.84	.92	.87	.84	.91	.86	
	Adult Socialization	.77	.77	.77	.79	.77	.78	
	Social/Emotional Reciprocity	.85	.94	.89	.88	.91	.89	
Treatment Scales	Atypical Language	.81	.85	.82	.82	.85	.83	
Scales	Stereotypy	.79	.78	.79	.77	.79	.78	
	Behavioral Rigidity	.89	.92	.90	.86	.94	.89	
	Sensory Sensitivity	.79	.85	.81	.77	.82	.79	
	Attention	.90	.91	.90	.89	.91	.90	

ASRS Reliability Ages 6-18 : Teachers

		6 to 11 Years			12 to 18 Years			
Scale		Normative Sample (N = 480)	Clinical Sample (N = 167)	Average	Normative Sample (N = 480)	Clinical Sample (N = 325)	Average	
Total Score		.97	.98	.97	.97	.97	.97	
	Social/Communication	.93	.96	.94	.92	.96	.94	
ASRS Scales	Unusual Behaviors	.93	.95	.94	.94	.95	.94	
Scales	Self-Regulation	.94	.93	.94	.93	.91	.92	
DSM-IV-TF		.94	.96	.95	.94	.96	.95	
	Peer Socialization	.84	.90	.86	.83	.90	.86	
	Adult Socialization	.80	.81	.80	.77	.77	.77	
	Social/Emotional Reciprocity	.89	.92	.90	.89	.92	.90	
Treatment Scales	Atypical Language	.75	.87	.79	.80	.85	.82	
Scales	Stereotypy	.69	.77	.71	.72	.81	.76	
	Behavioral Rigidity	.90	.93	.91	.90	.94	.92	
	Sensory Sensitivity	.77	.87	.80	.84	.87	.85	
	Attention	.92	.92	.92	.91	.92	.91	

ASD vs Communication
Disorders



Race / Ethnic Differences

	8.26. Differences between		Race/Ethni	c Groups: A	SRS (6-18 Y		_
						d-r	atio
Scale			African American	Hispanic	White	White - African American	White- Hispanic
			50.9	45.7	49.3	0.14	0.31
Total Score		SE	0.9	1.0	0.5		
		N	122	128	536		
Conie!/	M	50.8	46.4	49.1			
		SE	0.9	0.9	0.5	0.15	0.24
		N	122	128	536		
		M	50.6	45.6	49.4		0.33
ASRS Scales		SE	0.9	0.9	0.5	0.11	
		N	122	128	536		
		M	50.3	46.1	49.1		
		SE	0.9	1.0	0.5	0.10	0.26
		N	122	128	536		
		M	51.0	45.6	49.7		
DSM-IV-T	R Scale	SE	0.9	0.9	0.5	0.13	0.37
		N	128	131	549	1	

Race Ethnic Differences Short Form

	Rater		AA	нх	WH	d-ra	atio
Age	Kater		AA	ni	Wn	AA - WH	WH-HI
		M	46.5	49.2	49.9		
Parent	Parent	SE	1.4	1.7	0.8	-0.34	0.06
2-5		N	52	57	172		
Years	Teacher/Childcare Provider	M	48.0	45.6	50.7	-0.18	
		SE	1.7	1.9	1.1		
		N	47	48	195		
		M	50.6	46.2	49.6	0.09	0.29
6-18 Years	Parent	SE	0.9	0.9	0.5		
		N	133	135	560		
		M	50.7	51.9	49.8		
	Teacher	SE	0.9	0.9	0.6	0.07	-0.16
		N	132	152	521		

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Intervention

- Despite strong claims no curative treatment has been studied vigorously.
- "In the absence of a definitive cure there are a thousand treatments" (Klin).
- Behavior modification, educational intervention and pharmacology have been studied.

AUTISM S	http://autismpdc.for.unc.edu/content/briefs. PROFESSIONAL DEVELOPMENT CENTER ON SEAMON OO+ PECTRUM DISORDERS
EVIDENCE-BASED PRACTIC	ES Briefs
Home	Evidence-Based Practice Briefs
About the Center > Evidence-Based Practices	Evidence-based practice (ERP) briefs have been developed for all 24 identified evidence-based practices. Select a practice below a access the overwise of the practice and downloadable DPF files for the SEB brief and the individual components. An evidence-based practice brief consists of the following core components:
Comparison with National Standards Project Autism Internet Modules	Certains: Overview: Appeared description of the practice and how it can be used with insmers with autism spectrum disorders. Stockly-Stock Described for implementations. Stockly-Stock Described for implementations. Appeared a practice, based on the research address and the stockly stockly of the implemental practice, based on the research address statefact in the evidence based on the stockly of the stock
BBP Briefs Additional Resources	Implementation. Checklist: The implementation checklist of the sawy to document the degree to which practitioners are following the step-by-step directions for implementation, which are based on the research articles identified in the evidence base.
News and Events > Working With States	Evidence Base: The list of references that demonstrate that the practice is efficacious and meets the Nasional Professional Development Center's criteria for being identified as an evidence-based practice.
State Partners Login User name:	Some practices include supplemental materials such as data collection sheets.

http://autismpdc.fpg.unc.edu/content/briefs	
EVIDENCE-BASED PRACTICES FOR CHILDREN AND YOUTH WITH ASD	
Antecedent-Based Interventions (ABI) Computer-Auded Instruction Differential Reinforcement Differential Reinforcement Description Enter Computer August (August 1) Enter Computer (August 1) Enter Exchange Communication System (PECS) Privotal Response Training Prompting Prompting Reinforcement Social Nation Enter (August 1) Enter Exchange Communication System (PECS) Enter Exchange Communicatio	
Time Delay Video Modelling Visual Supports	104

С	onsidering Co-morbidity
•	Considerable overlap exists between autism spectrum disorder (ASD) and mental health disorders.
•	High rates of overlap are significant because they affect the nature and type of problems displayed by persons with ASD and how the disorders are assessed.
•	$ADHD, anxiety\ disorders\ and\ depression\ are\ among\ the\ disorders\ most\ commonly\ associated\ with\ ASD.$
•	$Symptom\ presentation\ is\ similar\ whether\ ASD\ occurs\ alone\ or\ with\ other\ conditions.$
•	Multiple assessments after initial diagnosis of ASD are frequently necessary.
•	$ASD\ can \ be\ diagnosed\ very\ early, while\ symptoms\ of\ other\ disorders\ emerge\ at\ different\ points\ in\ human\ development.$

Components of an	Effective	Treatment
Program		

- Structured behavioral treatment
- Parent involvement
- Treatment at an early age
- Intensive intervention
- Social skill development
- Focus on generalization of skills
- Appropriate school setting
- Medication?

Medications

- Symptom focused medications: stimulants for attention, anti-depressants for mood, anti-psychotics for "oddities".
- Condition focused medications?



	Scr 172855 Med 19 September 2012: C Prev Table of Contents Next 1 Vol. 4, Issue 15.2, p. 152n127 Sci. Transl. Med. 00: 10.1126/scitranslmed.3004214	
	RESEARCH ARTICLE	
	FRAGILE X SYNDROME Effects of STX209 (Arbaclofen) on Neurobehavioral Function in Children and Adults with Fragile X Syndrome: A Randomized, Controlled, Phase 2 Trial Elizabeth M. Bern-Krayis', David Hessi', Barbara Rathmell ¹ , Peter Zarevics ¹ , Maryann Cherubini ³ .	
	Karen Walton-Bowen ³ , Yi Mu ⁴ , Danh V. Nguyen ⁴ , Joseph Gonzalez-Heydrich ⁵ , Paul P. Wang ³ , *,	
	Randall L. Carpenter ³ , Mark F. Bear ⁶ and Randi J. Hagerman ⁷	
New Dr	+ Author Affiliations	
May Tre	at	
ASD	ABSTRACT	
	Research on animal models of fragile X syndrome suppests that STX200, a v-aminobutyric acid type is CMMa aponis, might improve neurobearcoard forction in affected patents. We evaluated whether CMMa of the control o	
	improvement was seen on the visual analog scale ratings of parent-nominated problem behaviors, with positive trends on multiple global measures. Post loca analysis with the ART—Social Avoidance scale, a newly validated scale for the assessment of fragile X syndroms, showed a significant beneficial treatment effect in the fall study population. A post too subgroup of 27 subjects with more severe social impairment showed improvements on the Vinetand IS-Socialization raw scon, on the ART—Social Avoidance scale, and on all Goldon inansures. STOM own sent followated with Siciolarces of Stody of the Story of t	
	Avoidance scale, and on all global measures. STXZO9 was well tolerated, with 88 incidences of sedation and of headache as the most frequent side effects. In this expolaratory study, STX2O9 did not show benefit on irrability in fragilet 8 syndrome. Nonetheless, our results suggest that GAIR4 agonitst have potential to improve social function and obshavior in patients with fragilet 8 syndrome.	
	Copyright © 2012, American Association for the Advancement of Science	108

Psychostimulants for ADHD-like symptoms in individuals with autism spectrum disorders. Cortees 5, Catelinas P, Morcillo C, Rous 5, Bonnel-Brilhault F. Institute for Prediatric Neuroscience, NYU Child Study Center, Langone Medical Center, 215 Lesington Avenue, 14th Floor, 1001 BN, USA, 12th Individual Center (Langone Medical Center, 215 Lesington Avenue, 14th Floor, 1001 BN, USA, 12th Individual Center (Langone Medical Center, 215 Lesington Avenue, 14th Floor, 1001 BN, USA, 12th Individual Center (Langone Medical Center, 215 Lesington Avenue, 14th Floor, 1001 BN, USA, 12th Individual Center (Langone Medical Center, 215 Lesington Avenue, 14th Floor, 1001 BN, USA, 12th Individual Center (Langone Medical Center, 215 Lesington Avenue, 14th Individual Center (Langone Medical Center) 15th Ind	
Positive Effects of Methylphenidate on Social Communication and Self-Regulation in Children with Pervasive Developmental	
Disorders and Hyperactivity Laudan B. Jahromi, Connie L. Kasari, James T. McCracken, Lisa S-Y. Lee, et. al. Journal of Autism and Developmental Disorders, 2009)	
Drugs that increase serotonin transmission may be useful in reducing interfering repetitive behaviors and aggression as well as improving social relatedness (few controlled studies).	

Promoting Social Behavior With Oxytocin in High-Functioning Autism Spectrum Disorders

- Published (2/10) online in the Proceedings of the National Academy of Sciences.
- Oxytocin is a hormone known to promote mother-infant bonds.
- A French research group investigated the behavioral effects of oxytocin in 13 subjects with autism.
- Under oxytocin, children with ASD responded more strongly to others and exhibited more appropriate social behavior and affect, suggesting a therapeutic potential of oxytocin through its action on a core dimension of autism.

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Oxytocin May Have Many Effects



Medication and Parent Training in Children With Pervasive Developmental Disorders and Serious Behavior Problems: Results From a Randomized Clinical Trial

MICHAELG. AMAN, PH.D., CHRISTOPHERJ. MCDOUGLE, M.D. et al.

Conclusions: Medication plus PT resulted in greater reduction of serious maladaptive behavior than Medication alone in children with PDDs, with a lower risperidone dose.

J. AM. ACAD. CHILD ADOLESC. PSYCHIATRY, 48:12, DECEMBER 2009J.

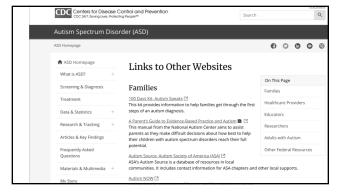
Comorbid ADHD and Anxiety Affect Social Skills Group Intervention Treatment Efficacy in Children With Autism Spectrum Disorders

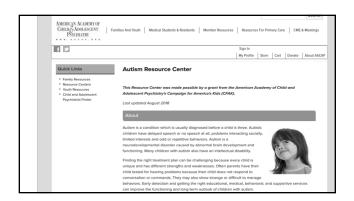
Kevin M. Antshel, PhD, Carol Polacek, PhD, NP, Michele McMahon, CSW, Karen Dygert, NP, Laura Spenceley, MA, Lindsay Dygert, BS, Laura Miller, BA, Fatima Faisal

ASTRACT: Objective: To assess the influence of psychiatric connobidity on social skill treatment outcomes for children with autism spectrum disorders (ASDs), Methods: A community sample of 83 children (17 analss.) 9 females) with an ASD (mean age = 59; YS = 01.2) and common commodif disorders participated in 10-week social skills training groups. The first 5 weeks of the group focused on conversation skills and the second's weeks forested on social psychem solving skills. A concurrent parent group was also included the treatment. Social skills were assessed using the Social skills kating system. Ratings were completed by the treatment. Social skills were assessed using the Social skills kating system. Ratings were completed by commobile analysis disorder improved in their parent reported social skills. Children with ASD and commobile attention deficil/hyperactivity disorder failed to improve. Conclusion: Psychiatric comorbidity affects social skills. Children with ASD and comorbid attention deficil/hyperactivity disorder failed to improve. Conclusion: Psychiatric comorbidity affects social skills. Children with ASD and comorbid attention deficil/hyperactivity disorder failed to improve. Conclusion: Psychiatric comorbidity affects social skills. Children with ASD and commobile active statement of the ASD population.

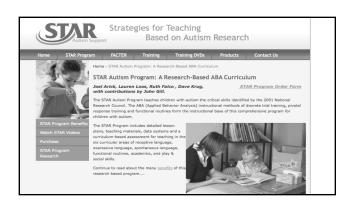
Some Possible Challenges to Counseling Youth With ASD

- Concrete thinkers
- Difficulty with humor
- Problems regulating affect
- Difficulty interpreting other's feelings
- Rule bound
- · Diminished empathy
- Decreased desire to please others.









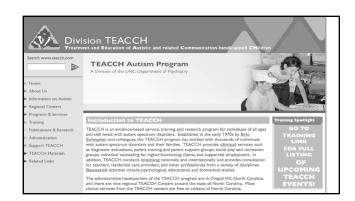
The first randomized, controlled trial for comprehensive autism treatment for children as young as 18 months old.

While certainly not a cure for the condition, the study did find that intense early treatment yields major improvements in IQ scores, language processing, and in the ability to manage everyday tasks essential for early childhood development and education.

Published in *Pediatrics* the University of Washington study was funded by the National Institute of Mental Health. It involved 48 children ages 18 to 30 months, half of whom were randomly assigned to receive the Early Start Denver Model, an intensive autism therapy protocol. The other half were assigned to a control group and received less intensive therapy.

After two years, those who participated in the Denver Model group had average IQ scores 17.6 points higher than the control group, putting them within the range of normal intelligence, while those in the other group gained just seven points, remaining in the zone of intellectual disability.

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What is SCERTS* SCERTS** is an innovative educational model for working with children with autism spectrum disorder (ASD) and their lamilies. It provides specific guidelines for helicity a child become a competent and confident social communication, with preventing problem behaviors that intellines with learning and the development of intellineships. It also is designed to it is supported and intellineships when development we are term, in a carefully conceilable manner, to manning propriate in supporting a child intellineships with conceilable manner, to manning propriate in supporting a child intellineships and intellineships with conceilable manner, to manning propriate intellineships and the supporting a child intellineships and intellines

The SCERTS[®] Model

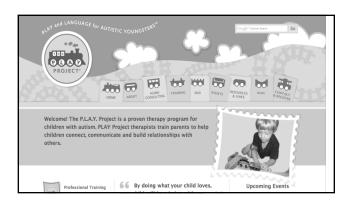
"ER" - Emotional Regulation - the development of the ability to maintain a well-regulated emotional state to cope with everyday stress, and to be most available for learning and interacting;

"TS"—"Transactional Support—the development and implementation of supports to help partners respond to the child's needs and interests, modify such adapt the environment, and provide doub to enhance learning (e.g., picture communication, written schedules, so and sensory supports). Specific plans are also developed to provide educational and emotional support to families, and to foster featurement sensor of the specific plans are also developed to provide educational and emotional support to families, and to foster featurement sensor on the specific plans are also developed to provide educational and emotional support to families, and to foster featurement sensor on the specific plans are also developed to provide educational and emotional support to families, and to foster featurement sensor on the specific plans are also developed to provide educational and emotional support to families, and to foster featurement sensor on the specific plans are also developed to provide educational and emotional support to families, and to foster featurement sensor on the specific plans are also developed to provide educational and emotional support to families, and to foster featurement sensor on the specific plans are also developed to provide educational and emotional support to families, and to foster featurement sensor on the specific plans are also developed to provide educational and emotional support to families.

The SCERTS model targets the most significant challenges faced by children with ASD and their families. This is accomplished through family-professional partnerships (family-centered care), and by prioritizing the abilities and supports that will lead to the most positive long-lenn accordances as incidented by the National Research Council (2001). Education Children Marketins Associated (2004).

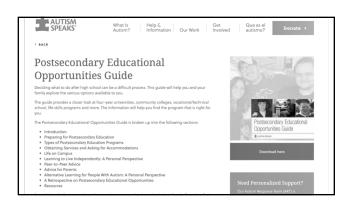


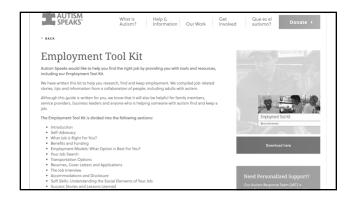


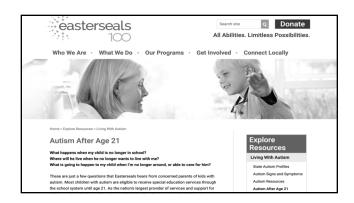














Chapter 3 Evaluation of Treatment Effectiveness in the Field of Autism Psychometric Considerations and an Illustration Jack A. Naglieri and Sam Goldstein Introduction Evidence-based transment and the successment of treatment effectiveness are deposited energy on the collection of data during the evaluation process providing information about symptoms, impairment and abilities. Such an assessment allows for a seamless transition from assessment and loss for a seamless transition from assessment and loss for a seamless transition from assessment and loss in the process providing information about symptoms, impairment and abilities. Such an assessment allows for a seamless transition from assessment allows in important for interventions designed as edifference as a companion and a composite of the process of the control of the control

Treatment Evaluation with ASRS

- Step 1: Identify specific area or areas of need based on ASRS T-scores 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

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Treatment Evaluation with ASRS

- Total Score of 73 by Parent & Teacher
- Social Communication scores are high for both raters meaning he has problems with appropriate use of verbal and non-verbal communication requiring him to initiate, engage in, and maintain social contact (Social Communication T-scores of 77 and 78)

 Table 3.3 Case of Donny; parent and teacher ASRS T-scores, difference values needed for significance

 Parent
 Teacher
 Difference

 Total score
 72
 72
 70

 Social communication
 72
 78
 1

 Unusual behavior
 60
 33
 - 7

 DSM-IV scale
 6
 6
 - 1

 DSM-IV scale
 6
 6
 - 1

 Peer socialization
 58
 63
 5

 Socialemonian reciprocity
 77
 76
 - 1

 Adult socialization
 58
 63
 5

 Socialemonian reciprocity
 77
 76
 - 1

 Atypical language
 52
 44
 - 8

 Stereotypy rigidity
 22
 44
 - 8

 Seconory sensitivity
 44
 48
 4

 Allention
 71
 73
 2

 T-scores greater than 59 appear in table text
 11 is a communication and Total value in table text

Treatment Evaluation with ASRS

 ... and he struggles with maintaining control over his behavior (i.e., he is very argumentative) and attending in complex settings (Self-Regulation score of 70)

	Parent	Teacher	Difference
Total score	73	73	0
Social communication	77	78	1
Unusual behavior	60	53	-7
Self-regulation	70	74	4
DSM-IV scale	69	68	-1
Treatment scales			
Peer socialization	70	73	3
Adult socialization	58	63	5
Social/emotional reciprocity	77	76	-1
Atypical language	52	44	-8
Stereotypy	49	54	5
Behavioral rigidity	72	48	-24
Sensory sensitivity	44	48	4
Attention	71	73	2
T-scores greater than 59 appear in			

Treatment Evaluation with ASRS

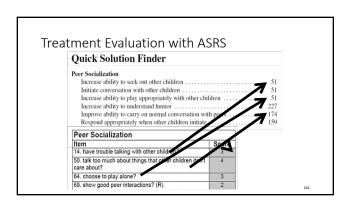
• Raters agree except for Unusual Behavior and Behavioral Rigidity scales.

	Parent	Teacher	Difference	Difference needed	
Total score	73	73	0	5	NS
Social communication	77	78	1	6	NS .
Unusual behavior	60	53	-7	6	Sig
Self-regulation	70	74	4	7	NS
DSM-IV scale	69	68	-1	6	NS
Treatment scales					
Peer socialization	70	73	3	9	NS
Adult socialization	58	63	5	12	NS
Social/emotional reciprocity	77	76	-1	8	NS
Atypical language	52	44	-8	11	NS
Stereotypy	49	54	5	13	NS .
Behavioral rigidity	72	48	-24	8	Sig
Sensory sensitivity	44	48	4	12	NS
Attention	71	73	2	7	NS

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; which implies that the 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.

Treatment Evaluation with ASRS • Item level analysis within Peer Socialization helps clarify the exact nature of the behaviors that led to the high score 3 Evaluation of Treatment Effectiveness in the Field of Austism 51 Fig. 3.7 Item level analysis from ASRS interpretive report that are more than 1.50 from that are more than 1.50 from the normative mean) Peer Socialization 14. Evaluation other children 7 (R) 15. Evaluation of Treatment Effectiveness in the Field of Austism 51 Fig. 3.7 Item level analysis from ASRS interpretive report that are more than 1.50 from the children of the same being the control of the children of the same being the control of the same being the children of the same being the children don't discussion of the children don't discussion discussion of the children don't discussion discussion



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

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Treatment Evaluation with ASRS

	Time 1	Time 2	Time 3	Progress monitoring (Time $2-1$)		Progress monitoring (Time 3 – 1)	
Total score	73	70	63	-3	NS	10	Sig
Social communication	77	77	66	0	NS	11	Sig
Unusual behavior	60	58	58	-2	NS	2	NS
Self-regulation	70	67	62	-3	NS	8	NS
DSM-IV scale	69	68	63	-1	NS	6	NS
Treatment scales							
Peer socialization	70	69	68	-1	NS	2	NS
Adult socialization	58	58	58	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
Behavioral rigidity	72	67	67	-5	NS	5	NS
Sensory sensitivity	44	44	44	0	NS	0	NS
Attention	71	68	58	-3	NS	13	Sig

The "Prime Directive" is Independence

- Reduce reliance on prompts.
- Help individual's predict and control. environment and behavior.
- Increase self-esteem and self-efficacy.
- Develop independence through a "learning to swim" mindset.

Theater as a Medium to Develop Social Skills

- Theater arts offer an opportunity for individuals with ASD to venture into the community in a win-win relationship.
- \bullet EPIC's performances help the general community better understand the nature of having ASD.
- At the same time, actors with ASD have the opportunity to interact in a medium that we believe will foster not only the development of selfesteem, but appropriate social interaction—the latter very clearly being the primary hurdle to successful adult transition for those with ASD.
- EPIC hopes to quantify our initial experiences of the benefits of theater for those with ASD through a long-term, qualitative study measuring the associative effects of theater arts, training on social skills, sense of purpose and independence in daily life activities.

EPIC Players



Song of Mystelf
December 16, 2008

Were They but There at Night

There is a bolder field where every stone
Is a glazed, glittering gem, like star fallen from the sky
All except one, a plain grey rock alone in the center

Feeling excluded and shummed
People come, tourish, putients, photographene, collectors
To view each shiming bolder, a pleasure to the beholder
Ookl Albil Look at this one! Come quick!
Pockets budge with fragments and paint cans rund by
But the grey rock remains ignored
An ugby bloth on a reverping mural

The sun sets, everyone leaves
And they miss the conterpiece of the field
For when night falls, the grey rock in the center







