Evaluation, Communication, and Facilitation of ASD

A Light Overview for Practitioners

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Disclosures

- Charles Galyon is a licensed psychologist working in private practice and with some academic affiliations at the University of Tennessee
- No commercial conflicts to report with respect to the tools and techniques described in this workshop
- Considered neurodiverse
 - It has provided a lifetime of interesting experiences
 - Very argumentative and stubborn by nature

Soap Box

- Neurodiversity let's serve all as individuals
 - Diversity by its nature does not conform to conceptualization or expectation
- Respecting all, not just the vocal
- Around half of individuals with ASD experience profound impact and may be unable to communicate
- Respecting that what works for one may not work for another
- Transdiagnostic model vs Categorical model

Overview

Evaluation of ASD

- Evaluating quality of measures
- How to build a battery
- Modifying and customizing for examinees

Interpreting and Communicating Neurodiversity

- Diagnosis describes but does not change
- Reframing as differences as opposed to rankings/hierarchy
- Teaching how to identify strengths and challenges
- Deficits are opportunities

Reviewing Research to Plan Next Steps

- Identifying evidencebased practice
- Respecting and utilizing practices that lack evidence
- Treating as people rather than problems

Evaluating Quality of Measures

Lots of measures now but not all have strong evidence

Should have large samples of individuals

- At least hundreds and ideally thousands
- Include "typical" population as well as diagnosed populations
- Ideally include different diagnostic populations (e.g., ASD, Anxiety, ADHD, Intellectual Disability, Second Language Learners...)
- Demographic Diversity essential (good representations of male/female, cis/LGBTQ, SES levels, ethnic backgrounds...)
- Represent diversity of individuals with ASD, not just one subgroup (e.g., HFA)

Credibility of Measures

- Should have many studies:
- Norming establishing results typical of those with and without diagnoses
- Reliability meaning that results are consistent
- ♦ Validity comparing with others, should produce similar results
- Specificity accurately says "No" when diagnostic criteria not met
- Sensitivity accurately says "Yes" when diagnostic criteria are met



Heterogenous Disorder (Neurodiversity)

"Spectrum" is not linear

- There is a severity scale (Level 1 to 3) indicating amount of support that would be appropriate
- Cluster of traits and characteristics that have been observed by others
- More like a big circle with lots of dots in it

Characterized by being more heterogenous than rest of population

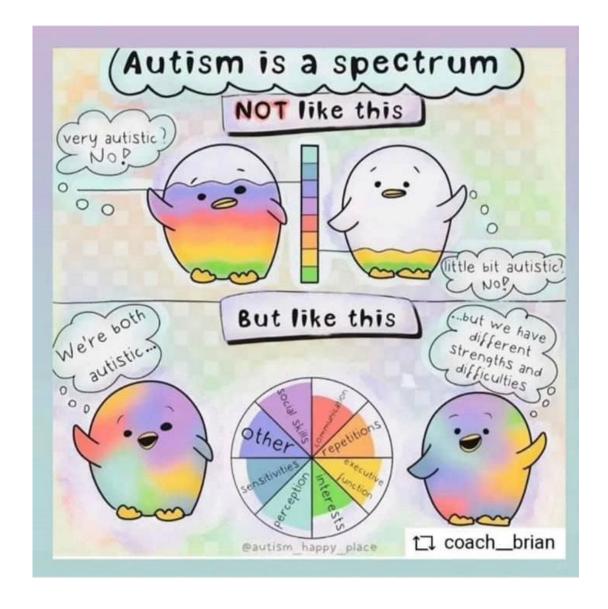
- Characteristics and traits of ASD show up to varying degrees
- May be present or completely absent between individuals

Neuroimaging studies show low consistency in how brain organizes

- Most people show consistent ways of brain organizing (visual area, motor area, association areas...)
- With ASD there is NOT a consistent difference; some look exactly like "typical" people neurologically, others are simply different
- These differences do not appear to explain well the characteristics in a diagnostic way

Spectrums are not inherently linear!

- It's not just severity (Level 1, 2, 3)
- Many characteristics not always problematic
- More characterized by variety
- Core feature: Social difficulty
 - Lower insight
 - Lower awareness
 - Leads to atypical response
- People are not socks!





How to Build a Better Battery

Some tests are overly sensitive and do not discriminate well (Screeners)

- Examples: Gilliam Scales (GARS, GADS), M-CHAT...
- Provide the first step of saying "We should look further"
- Not intended to be diagnostic

No single measure is enough to identify ASD and not intended to be

- ADOS-2 is great, but not enough
- E.g., To measure volume requires multiple measurements

Goal is to assess as a Whole Person

- Want to know where they struggle
- And understand emotional impact
- So can provide help where it matters most

Components: Cognitive (IQ) Test

First: Please understand IQ tests do not measure "intelligence" but are intended to predict acquisition of academic and life skills!

- ASD more commonly characterized by inconsistent subscale scores
- Often significant differences between verbal and nonverbal reasoning
- Presence or absence of difference is NOT diagnostic by itself
- Provides information to aid with planning
- Helps understand some experiences with frustration/challenges
 - Expectations vs Experience
 - Example: Like/Hate Math or Writing

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Components: Social, Emotional, Behavioral Scales

General behavioral, social, and emotional rating scales

- Captures other areas worthy of attention
 - Attention, Hyperactivity, Conduct Problems
 - Anxiety, Depression, Self-Esteem
 - Social Engagement, Peer Difficulties
- Highlights patterns to support diagnosis
 - Certain combinations flag for ASD ("Hey, maybe take a look here!")
 - Provides a broader picture of a person
 - Focusing only on evidence for ASD makes more likely to find ASD
- Includes things like the BASC-3, MASC-2, CDI-2

Components: Adaptive Behaviors

Adaptive Rating Scales (such as Vineland-3 or ABAS-3)

Behaviors for day-to-day living

May identify areas that need additional support and teaching

• A deficit in a skill is not a deficit in a person

Skills that may be helpful

Recognize can help teach a skill and makes life easier

Helps others adjust their expectations and understand

• Understanding can reduce frustration (a bit)

Components: Social Behavior Scales

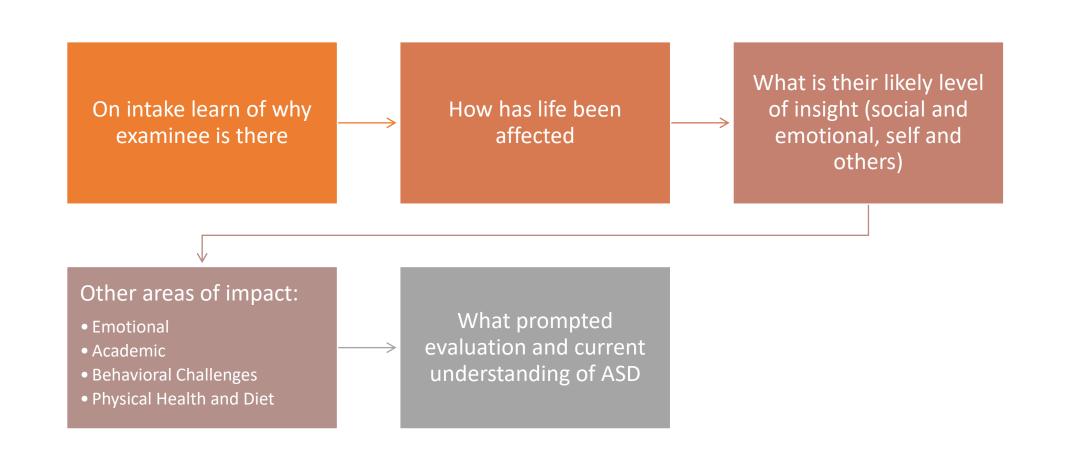
Specifically intended to assess for level of social difficulties

Should examine multiple aspects of social behavior

- Social communication
- Social response
- Social insight
- Social interest

Some useful tools: ADOS-2, SRS-2, RAADS-R

Modifying and Customizing



Selection of Measures

Ensure developmentally appropriate

- Assess level of verbal skill and insight
- Select appropriate activities (amount of play, conversation)

Structuring evaluation sessions

- Consider attention span and motivation level
- More, shorter chunks vs fewer, longer chunks
- Use of intermittent reinforcement and breaks

Providing Results

Who will results be communicated to?

- If child, may talk with parents but not child
- Practice empathetic perspective while writing report
- Prepare for unanticipated questions
 - Acknowledging anxiety and uncertainty for self
 - Allowing pause
 - Conceding limits of own knowledge (models that it's ok to not know)
- Time and Space:
 - Allow time for questions
 - Allow space for emotions

Talking with Parents

Despair, grief, worry, anger, frustration, relief, hope

- Because child is not what they imagined would be
- Because they blame themselves
- Because they don't know who to blame and feel a need to
- "Knowing" may feel better
- Hope that it provides direction

Diagnosis describes but does not change the child

- "Your child is exactly the same as before the evaluation"
- Sit with parents so they can process this and then ask questions
- Results sessions can run longer than expected
- Invite delayed questions email or subsequent appointments



Differences not Hierarchies

- Neurodiversity is a difference and has real effects
- A difference is neither better nor worse
- It does have an impact on how one lives though

Example:

 Impaired vision is a difference. Can choose to wear glasses or not. If not, life will be different and sometimes harder. World assumes one can see and doesn't/can't/won't accommodate otherwise.

Opportunities and Challenges

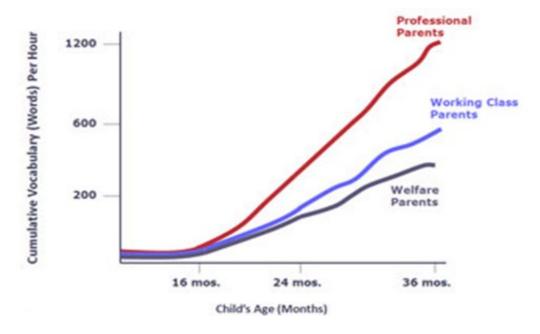
- If cannot see, it is harder to learn some skills (like hitting a baseball). Once *can* see, then can start learning to coordinate swinging. Ability to swing a bat was always there, but skill wasn't learned.
- Becoming aware of social behaviors provides opportunity, but skill is not as developed at first (hence evaluation).
- ASD does not mean does not have social interest or ability to see emotions and social stimuli.
 However, history of being unaware leaves skills less developed compared to others.

Opportunities and Challenges

- Therapy, social skills training, etc... is putting on glasses.
- Consider role of "willingness to change" as applied with skill development – respect autonomy
- Practice unconditional acceptance, take time to learn what matters to client, and tailor treatment accordingly
 - Ex: earmuffs in public stigma vs experience
 - Does it matter? To whom? (client or therapist?)
 - Run past people when feels awkward
 - "Would you like to change it?"

Strategic Skill Building

- Think in terms of strategy and creating doors
- Acting in present to direct the future
- Once a skill is an option, then it may occur
- Once a skill occurs, it can be responded to
- Communication is fundamental for humans
 - Much of challenging behavior arises from miscommunication
 - Inability to communicate is frustrating (needs/wants not met)



What is an Evidence-Based Practice

"The good life is one inspired by love and guided by knowledge." – Bertrand Russell

- There are many people motivated to help
 - Because the world can be a wonderful place!
- There are many people who want help
 - There is a highly vulnerable population in parents and individuals
- There is too much information out there
 - Hard to determine what has good evidence
 - Hard to know all the mechanisms
 - No "Seal of Quality"



What Can We Look For?

Mechanism of Change

- If I am proposing A as treatment, how is it supposed to work?
- "By acting on (b, c, and e)"
- Is there good evidence that (b, c, and e) actually matter?

Randomized Control Trials

- Comparing different conditions to see if there are differences in effect
- If I am using A, then I will compare to Nothing and to someone using B
- Does A produce a significantly different result than Nothing and B?

Independent Verification

- People with no stake, no conflict of interest evaluate it
- (See Pearson's cognitive training program...)

What to Watch Out For

Clarity and Openness

- I would prefer the author says "I have no idea if this works, but I feel like it is a helpful thing and have had some good results. So you may want to try it too."
- Always represent speculation for what it is; don't try to pass it off as scientific if it isn't yet
- Clearly state limitations and what is unknown

Almost never a definite result (death is definite, but that's about it)

• Ex: IQ tests usually are predictive, but cannot tell for whom they won't be

As professionals we are protecting a vulnerable population

- Parents can be in tremendous pain and desperate
- Snake Oil is alive and well

The National Standards project produced a helpful resource

- State of evidence on different treatments and modalities
- https://nationalautismcenter.org/national-standards-project/phase-2/

Harm – Direct and Indirect

Some things are directly harmful

- Auditory devices for ASD
- Restricted diets
- Trauma-inducing procedures

Some things are indirectly harmful

- Loss of time spent in effective interventions
- Misinformation
- Setting false expectations for improvement

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