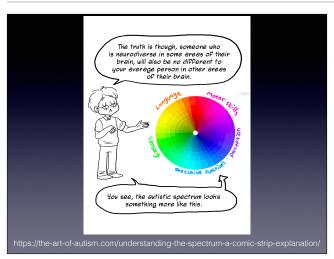
Recognizing "Pink Flags" and Other Clinical Signs:

Refining the Road Map for Identifying Autism Spectrum Disorder

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Disclosures and Acknowledgements

- · No financial relationships to disclose
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 - Co-Editors: Kira Armstrong and Susanne Duvall

A road map for identifying autism spectrum disorder: recognizing and evaluating characteristics that should raise red or "pink" flags to guide accurate differential diagnosis.

Susanne Duvall, Kira Armstrong, Ambreen Shahabuddin, Caroline Grantz, Deborah Fein, and Catherine Lord

"Pink Flags" 1. Features that can help to hide a diagnosis 2. Characteristics that warrant further assessment

Why does it matter?

- The success of intervention depends on the right diagnosis.
- Effective treatment should not focus on the symptoms it should focus on the source of the symptoms
 - "Social skills" instruction and other interventions should differ depending on the etiology/ diagnoses being treated

You can't find what you don't look for

What this talk is and is not

NOT

- · A review of ASD symptoms/characteristics
- · A discussion about the ADOS
- · A review of the best measures

IS

- · A review of "pink flags"
- · A discussion of how to change your clinical practice

Family Characteristics

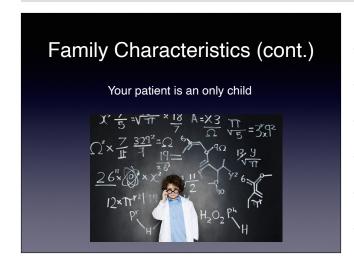
- · High functioning parents who "make up" for deficits through supervised social opportunities
- Well educated parents who provide enriched social instruction

Family Characteristics (cont).

Parents can normalize/minimize the child's challenges

- · One parent has (undiagnosed) ASD too
- And/or another child in the family has been diagnosed with ASD and they present with a different or more severe profile





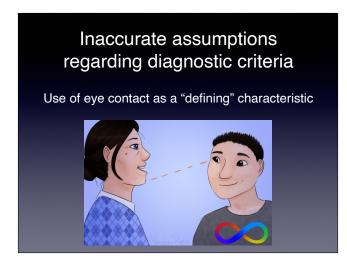
Other factors that can prevent timely diagnosis:

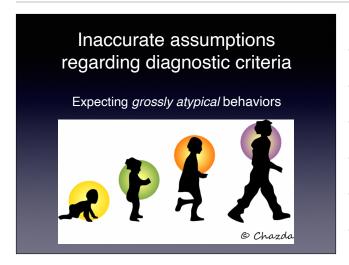
- Inaccurate assumptions by the psychologist/ evaluator/treaters regarding diagnostic criteria
- Inaccurate reporting by the parents/caregivers regarding the child's strengths and weaknesses (Part 2)
- 3. Diagnostic Overshadowing
- 4. Individual characteristics that can mask the diagnosis

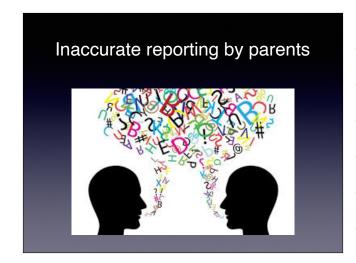
Inaccurate assumptions regarding diagnostic criteria

Lack of awareness regarding variability in ASD











Inaccurate reporting by parents (cont.)

Reading BIG social cues is not the same thing as understanding subtle social interactions

Inaccurate reporting by parents (cont.)

Let's talk about reciprocal conversations





Inaccurate reporting by parents (cont.) Explaining away difficulties socializing with SAME AGE Peers

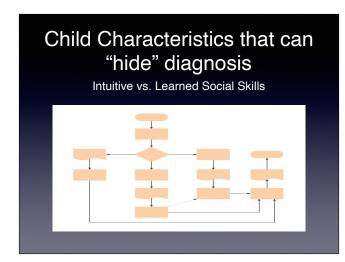
Inaccurate reporting by parents (cont.) Minimizing, down playing, and denial

Diagnostic Overshadowing and Misattribution of symptoms

When the salience of one disorder "overshadows" consideration or recognition of another disorder, with all symptoms being attributed to the primary disorder.

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Diagnostic Overshadowing (cont.) Psychiatric DisordersIntellectual Disability Visual/Hearing ImpairmentsLearning Disorders/Disabilities Medical Disorders Complicated psychosocial histories (e.g., trauma, abuse, neglect) • International adoption Pink Flags: Individual Factors Psychosocial History • Psychiatric hospitalizations • Complicated birth histories





Child characteristics that that can "hide" diagnosis (cont.)

- · Children who find a niche and along with it peers
- Different presentations at home and with adults than with peers
- · Children are Home Schooled

Pink flags: individual factors (cont.)

Difficulties Maintaining Friendships









Fine tuning diagnostic approaches to more successfully "find" ASD:

Diagnostic Interviews DEEPER

Dig Deeper

Don't:

- · Assume you are speaking the "same language"
- · Stop with the first question/clarification
- · Confuse intuitive vs. taught social skills
- · Assume the child is **generalizing** knowledge

Dig Deeper

- Explore the quality of the child's social interactions
- Explore the child's maturity level and self-care/hygiene

Look for ALL of the Symptoms

Don't forget to look for:

"Restricted, repetitive patterns of behavior, interests, or activities"

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Look for All of the Symptoms (cont.)

- Stereotyped or repetitive motor movements, use of objects or speech
- · Hypo or hypersensitivity to sensory input
- · Rigidity
- · Intensive/Restrictive Interests

Look for All of the Symptoms

Look for Rigidity (in all of its manifestations – consider the pink flags that highlight this feature)

ALL WRONG

ALL RIGHT



Working with the child Assess perspective taking and social pragmatics (formally or informally) Four Four Three

Working with the child (cont.)

Behavioral Observations

Look for examples of rigidity

- · Black and white thinking
- · Rigid reliance on "logic"

Build examples of/look for uses of metaphorical language and sarcasm into your testing/interviews

Closely monitor eye contact

Neuropsychological measures and school work as tests of social cognition

Explore their pattern of academic difficulties and abstract reasoning



Be careful:	
Look for the TOTALITY in the Picture	
Don't fall prey to confirmation bias. Constantly test your conclusions	
Avoiding Confirmation Bias	
Avoiding Confirmation Bias	
Insecurely sustained eye contact	
Insecurely sustained eye contact Anxiously avoidant (Anxiety)	
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Insecurely sustained eye contact Anxiously avoidant (Anxiety)	

Avoiding Confirmation Bias (cont.)

Social difficulties

- Distinguish between an UNAWARENESS of rules vs. an impulsive inability to FOLLOW rules vs. anxious overpersonalization of interactions
- · Limited social interactions

Avoiding Confirmation Bias (cont.)

Atypical social presentation

- · Flat affect (depression/anxiety)
- · Slow processing speed (depression/anxiety)

Avoiding Confirmation Bias (cont.)

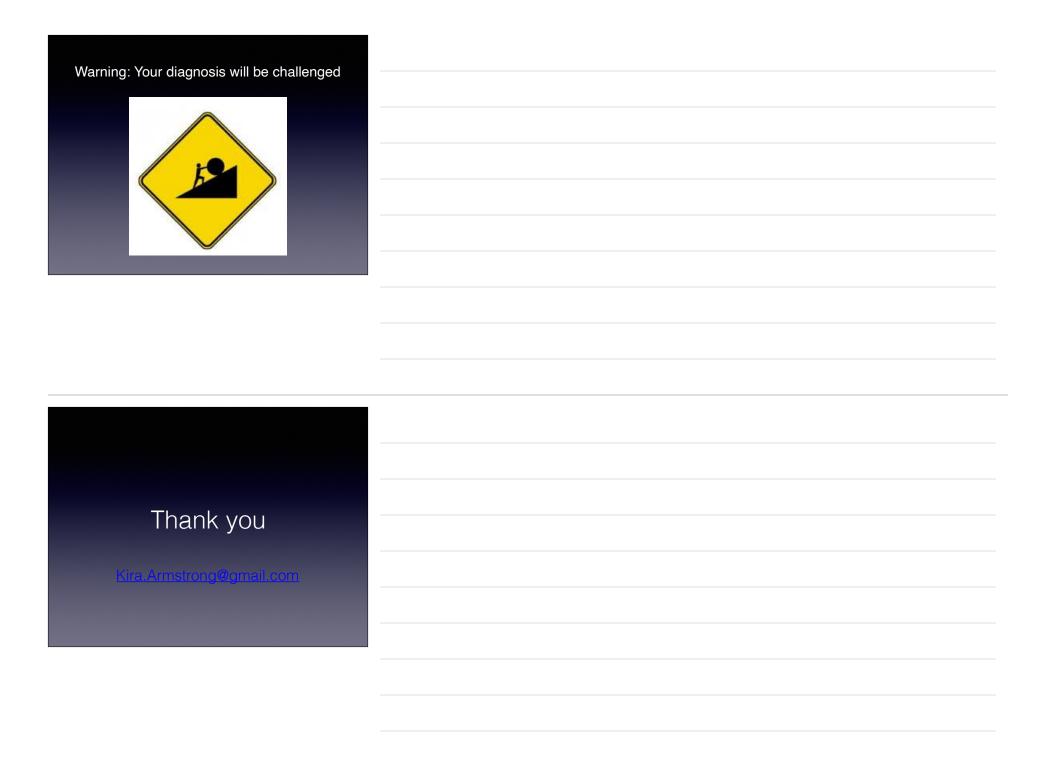
Difficulties with abstract reasoning

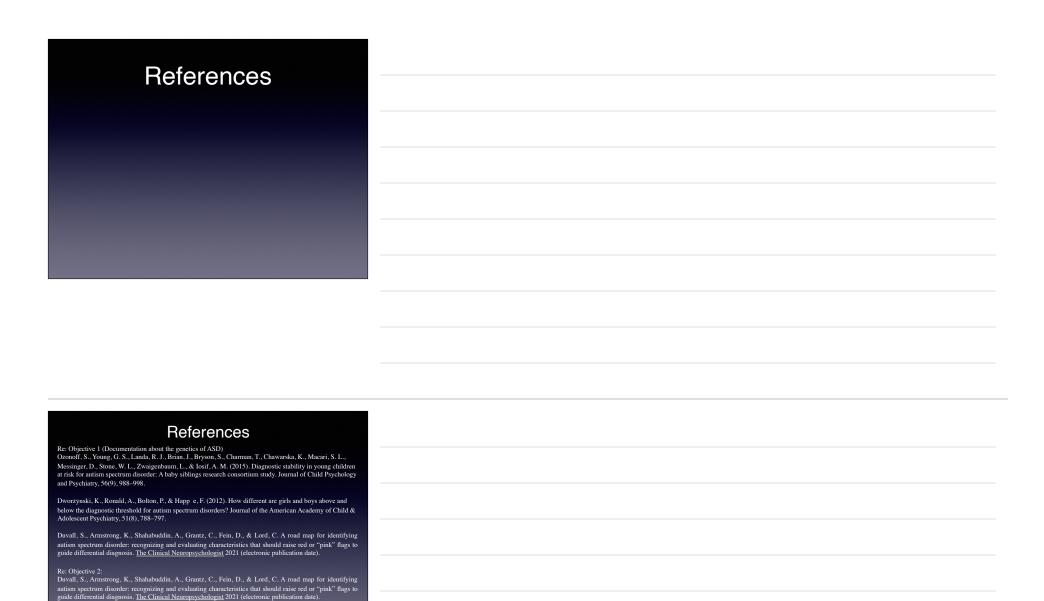
 Are they overly literal or are they too uncomfortable responding to open-ended/ ambiguous questions

Avoiding Confirmation Bias (cont.)

Sensory sensitivities

- · These are not pathogonomic/diagnostic
 - For example, they are commonly seen in children with ADHD
- Best thought of as a "fever" symptoms of "atypical" brain development but not underlying any one actual disorder





Re: Objective 3: (one example of diagnostic overshadowing): Hinnebusch, A. J., Miller, L. E., & Fein, D. A. (2017). Autism spectrum disorders and low mental age: Diagnostic stability and developmental outcomes in early childhood. Journal of Autism and Developmental Disorders, 47(12), 3967–3982.