## GETTING TO THE ROOT CAUSE(S) OF TWICE EXCEPTIONALITY (2E)

BEYOND THE USUAL SUSPECTS

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#### AGENDA

- Could there be more to the 2e story?
- •Why diagnose?
- 10 Most Overlooked Root Causes of 2e

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#### WHO ARE THE TWICE-EXCEPTIONAL (2E)?

Gifted, talented, highly capable, and/or high IQ

AND

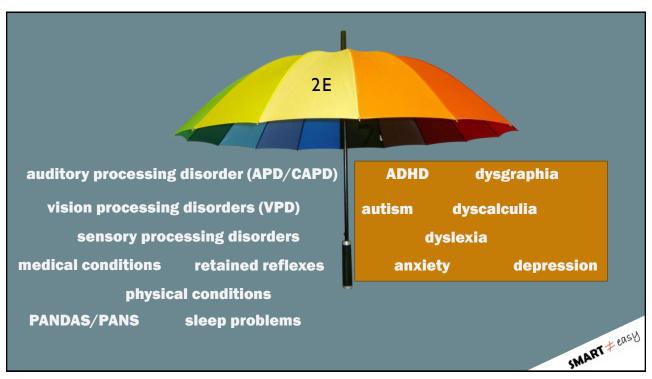
Neurodiversity, disability, learning difference, mental health concern, or other challenge

"Their gifts may mask their disabilities and their disabilities may mask their gifts."

(Reis et al., 2014, p. 222)

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#### NEURODIVERSITY, ANOTHER LENS ON 2E

- Neurodiversity is not just about autism
- Every brain is unique, like a fingerprint (Valizadeh et al., 2018)
- Different brain "operating system," patterns of strengths and challenges
- Careful: neurodiverse brains are not "worse" (or "better")
  - They are DIFFERENT
- Many common diagnoses are better understood as neurodiversity
  - ADHD strengths in quick response time, acting under pressure, noticing changes
  - Dyslexia strengths in visual/spatial, creativity, big picture, entrepreneurial
  - Autism strengths in spotting patterns, details, logic

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#### HIGH IQ IS ALSO A FORM OF NEURODIVERSITY

- Regional brain volume is **BIGGER** in some areas (left hemisphere, bilateral frontal cortex, phonological loop, working memory, sensory, anxiety, amygdala)
  - ...and **SMALLER** in others (lateral-parietal junction)
- DENSER connectivity between some areas (arcuate fasciculus, corpus callosum - "information highways")
  - ...and **SPARSER** connectivity in others
- Brain maturation happens on a different timeline (4 year difference!)
- High IQ brains are physically different than neurotypical brains
   Source: gro-gifted.org

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#### ARE YOU SURE IT ISN'T 2E?

- Quirky?
- Asynchronous?
- Sensitive?
- Perfectionistic?
- Anxious?

#### **Overexcitabilities**

(psychomotor, sensory, imaginational, intellectual, emotional) may be another language to describe the 2e experience

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#### WHAT DOES 2E LOOK LIKE?

- explosive behavior
- distractible
- trouble finishing work
- trouble getting started
- anxiety
- perfectionism
- low frustration tolerance
- impulsive
- Sometimes, minimal outward clues

Easy to Misunderstand
"lazy"
"unmotivated"
"doesn't care"
"mis-identified as gifted"

Probably a lot more gifted kids are 2e than we think. Maybe even the majority, especially among highly gifted.

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#### BEHAVIOR IS COMMUNICATION

- When a 2e student is having a hard time, you will see it in their behavior
- "Not won't, CAN'T" "Kids do well when they can." Ross Greene
- "Shifting from addressing behaviors to trying to understand their origins and triggers means making a shift from managing our children to understanding them deeply." – Mona Delahooke

"It's never about lazy." – Austina De Bonte

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#### WHY DIAGNOSIS MATTERS

#### "Why do you need a label?

Because there is comfort in knowing you are a normal zebra, not a strange horse.

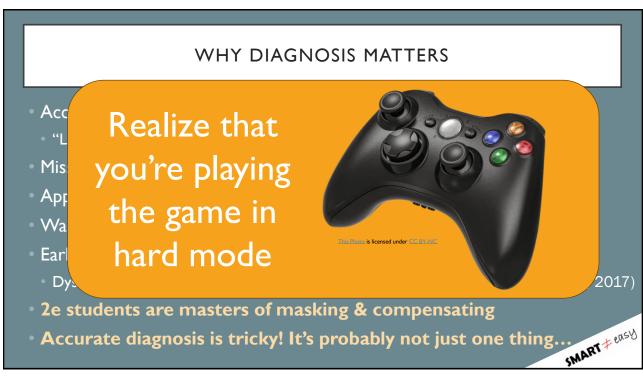
Because you can't find community with other zebras if you don't know you belong.

And because it is impossible for a zebra to be happy or healthy spending its life feeling like a failed horse."

The important part is that the label is ACCURATE
Find the correct root cause(s)

mage Credit: pngall com Ouote Credit: Instagram #omgimautisticat





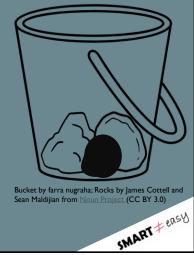
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#### **BUCKET THEORY**

- Everyone has a bucket to handle adversity
- As challenges stack up, they fill up your bucket
- When your bucket overflows, that's overwhelm

#### Game Plan

- 1. Identify the rocks in your bucket
- 2. Get them out (or make them smaller)
- → Create more space for resilience



#### LOOK FOR THE ROOT CAUSE(S)

- There's a reason. Find the reason.
  - "Kids do well if they can." -Ross Greene
- Find ALL of the causes
  - You will need DIFFERENT practitioners
  - Start at foundations (vision, auditory, etc.) and work up
- Different strategies for different causes
  - Interventions
  - Tools
  - Accommodations
  - Understanding (Neurodiversity-affirming & Strength-focus)

Symptoms Behaviors Challenges

Causes

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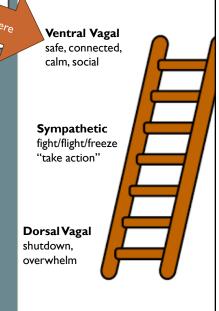
# POLYVAGAL SAFETY IS ESSENT.

#### Porges polyvagal theory

- Autonomic nervous system is constantly evaluating the environment for safety
- Co-regulation with safe, trusted others

### Create a neurodiversity-affirming classroom (& home)

- Relationship with teacher (& parents)
- Environmental safety in classroom (& home)
- Relational safety with classmates (& family)



Adapted from Deb Dana 2022; Porges 2011

#### 10 FLAVORS OF 2E

- The most common flavors
- Many 2e kids have more than one flavor

## For informational purposes ONLY

Please use this information to consider whether to pursue diagnosis with the appropriate provider.



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#### VISION PROCESSING DISORDERS (VPD)

Common but subtle – worth screening anyone having trouble How the brain processes what the eyes see

Many flavors: Convergence insufficiency, teaming, tracking, 3D, distance vs. near Letters/words/numbers flip (b d p q), move, or get blurry

Goofy mistakes in math (+ - x)

Clumsy, trouble with sports & balls, dislikes 3D movies/rides
Fatigue, lack of stamina when reading, especially with small fonts
Inconsistent scores on standardized tests

NOT dyslexia, but it's common to have both

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#### VISION PROCESSING DISORDERS (VPD)

Common but subtle – worth screening anyone having trouble

How to Help

Interventions

- Diagnose with a specialist (covd.org)
- Vision therapy is effective at any age

Accommodations

- Large print
- Audiobooks, text-to-speech
- Dictation, speech-to-text
- Typing all classwork/assessments (SnapTypeApp.com)

NOT dyslexia, but it's common to have both

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#### AUDITORY PROCESSING DISORDER (APD)

Hearing is normal or super-sensitive

One ear "hears" a split second before the other

Hands over the ears as a young child

Wears hats, hoods, long hair, headphones that cover the ears

Doesn't hear name being called

Dislikes noisy environments, trouble understanding in background noise

Fatigue, comprehension problems in lecture halls, big classrooms

Trouble with conversational timing (social!)

Rising anxiety/fatigue/frustration through the day

May look like ADHD, ODD, PDA, explosive behavior, or withdrawal

Common reason for classroom overwhelm/behavior

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# Hearing is normal or super-sensitive One How to Help Interventions Auditory therapies (many options; mixed results) Tools Ear filter (ablekidsfoundation.org) Low gain hearing aids (drraestout.com) Accommodations Teacher always uses microphone! Preferential seating away from noise Check in with student for understanding Provide written notes, scribe, allow recording

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#### RETAINED PRIMITIVE REFLEXES

- Moro startle reflex sensitivity to stimuli, sounds, tactile, lights, etc.
  - There are about a dozen others
- Primitive reflexes should have integrated by early childhood
- If still present, can cause a wide variety of concerns:
  - Trouble sitting still, poor coordination, motion sickness, anxiety, trouble with handwriting, unusual posture, unusual gait, toe walking, emotional dysregulation, balance/vestibular issues, clumsiness, ...
- Retained reflexes are often present alongside:
  - Vision processing disorders (VPD), ADHD, Autism

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#### RETAINED PRIMITIVE REFLEXES

• Moro startle reflex – sensitivity to stimuli, sounds, tactile, lights, etc.

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#### How to Help

Interventions

- Exercises to re-integrate reflexes
- Available online, or work with a specialist (senseenabled.com)

#### Accommodations

- Allow movement in class (walking lane)
- Provide alternate seating (standing, wobble chair, etc.)
- Provide fidget tools
- Vision processing disorders (VPD), ADHD, Autism

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#### **AUTISM**

- Probably way more common than we think, especially in girls (#actuallyautistic)
- Different brain operating system not broken, different
- Creates challenges in unsupportive environments
  - DSM lists distress responses of autistic individuals in unsupportive environments
- Sensory sensitivity (tactile, auditory, visual, etc.)
- Autistic social patterns (see: Double Empathy Problem)
- Focus on details over big picture
- Different internal experience (interoception)
- · Anxiety, irritability, perfectionism, prone to getting overwhelmed
- Non-Clues: eye contact, empathy, social, affectionate, humor, creativity

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#### **AUTISM**

Probably way more common than we think, especially in girls (#actuallyautistic)

#### How to Help

Interventions

- ABA avoid! Pretending to be neurotypical today → Burnout later)
- Instead: Neurodiversity-affirming counseling/coaching

**Accommodations** 

- Executive function supports
- Social supports (social/support group with other autistic students)
- Support specific individual needs (sensory, living space, etc.)

Understanding

- Self-understanding as neurodivergent, not broken
- Decide where to spend your energy

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#### (STEALTH) DYSLEXIA

- Phonological awareness, trouble with rhyming & wordplay
- Reads everything as a sight word, trouble sounding out
- Trouble with spelling, writing, grammar
- Skips or substitutes words when reading
- Inconsistent scores on standardized tests
- Trouble with rote memory
- Despite this, excellent comprehension

Free oral screener for dyslexia - www.thepasttest.com

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## (STEALTH) DYSLEXIA • Dyslexia-specific tutoring in structured literacy (phonics, etc.) with a focus on spelling/writing

Accommodations

How to Help Interventions

- Audiobooks, text-to-speech
- Dictation, speech-to-text, or a scribe
- Typing all assignments/assessments (SnapTypeApp.com)
- Access to spellcheck for all classwork/assessments
- Extra time for assignments/assessments
- Provide written notes, scribe, allow recording

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#### **DYSCALCULIA**

- · Less well understood than cousin dyslexia
- Difficulty with judging quantities, less vs. more
- Lack of number sense
- Trouble with calculations
- Can memorize some sequences but not understand why
- Good math problem solving skills, but trouble with rote math facts?
  - → Consider dyslexia

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#### **DYSCALCULIA**

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#### How to Help

Accommodations

- Provide manipulatives
- · Provide number line, hundreds chart
- Provide multiplication table
- (Provide calculator)

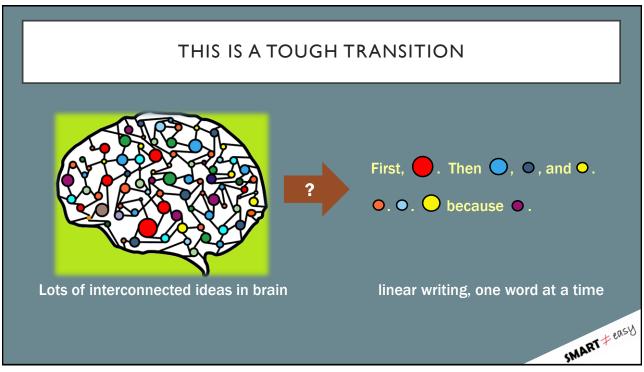
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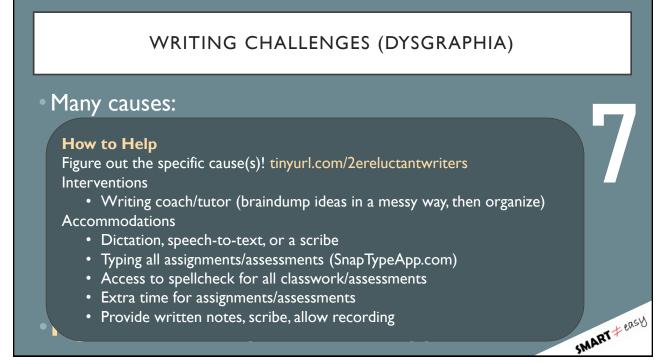
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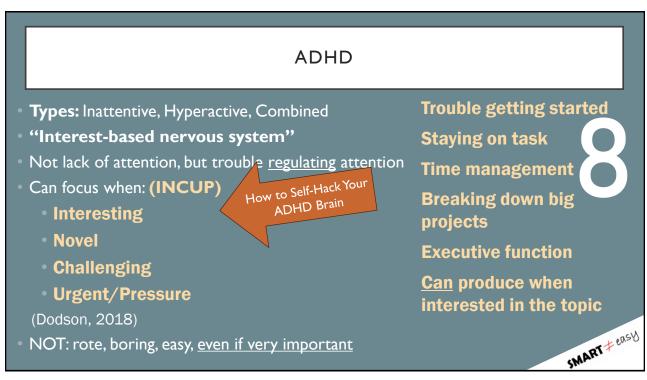
#### WRITING CHALLENGES (DYSGRAPHIA)

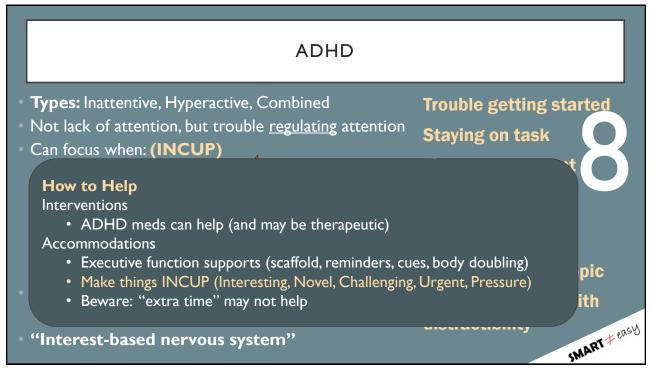
- Many causes:
  - Physical/motor challenges, strength, pencil grip
  - Lack of motor automaticity in writing letters/numbers
  - Dyslexia (especially spelling)
  - Vision Processing Disorders (VPD)
  - Trouble getting ideas out, organizing thoughts
- Figure out the specific cause(s)

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#### ADHD LOOKALIKES

- "A true diagnosis of ADD/ADHD should be as a last resort made by exclusion after ruling out other possible factors such as:
  - depression, anxiety,
  - learning disabilities,
  - preoccupation with personal issues,
  - unrealistic expectations, situational difficulties and abilities and expectations,
  - auditory processing deficits,
  - mild brain injury, ill health, substance abuse,
- lack of sleep and/or nutrition, current use of med.
   (Webb et al, 2005)

Vision processing (VPD)
Auditory processing (APD)
Sensory processing (SPD)
Sleep apnea
Allergies (food or environment)
Sensitivity to food coloring
Chemical sensitivity
Mold sensitivity
PANDAS/PANS

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#### SLEEP APNEA (AND OTHER SLEEP DISTURBANCES)

Sleep apnea in teens can be silent

No gasping, night waking, snoring, etc.

REM sleep is needed for consolidating and storing long-term memory Lack of quality sleep can cause symptoms identical to ADHD

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Easy to rule in/out with a sleep study

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#### SLEEP APNEA (AND OTHER SLEEP DISTURBANCES)

Sleep apnea in teens can be silent

No gasping, night waking, snoring, etc.

How to Help

Interventions

- Remove tonsils
- Revise tongue tie
- Orthodontic palette expander
- Nose/sinus surgery for bifurcated septum

Tools

CPAP machine for sleeping

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#### PANDAS/PANS

- Autoimmune reaction to strep (and/or other bacteria/viruses/mold)
   that creates inflammation in the basal ganglia of the brain
- Common: Irritability, Low frustration tolerance, Mood swings,
   Anxiety (especially separation anxiety, irrational, bedtime, or constant)
- Often: Sleep disturbances, OCD, Repetitive/intrusive thoughts, Tics (physical or verbal), Picky/restricted eating, Sensory sensitivity
- Sometimes: Headache, Stomachache, Urinary frequency, Bedwetting, Math or handwriting regression, Aggression, School refusal
- Stanford says only 40% of their PANDAS patients were acute onset

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How to Help

Interventions

- Medical treatment needed, MUST find a specialist
  - Neuroimmune.org

http://aspire.care

Pandasnetwork.org

inflamedbrain.org

Pandasppn.org

Book: A Light in the Dark for PANDAS & PANS (Crista)

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onset

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#### PROVIDING HELP THAT'S ACTUALLY HELPFUL

Different strategies for different causes

Figure out the correct root cause(s)

When in doubt, Provide more support

Interventions

Vision therapy for VPD, Tutoring for dyslexia, Reflex integration, Occupational Therapy, Medication for ADHD, Treatment for medical issues

Tools

Ear filter/LGHA for APD, Assistive technology

Accommodations

Preferential seating, written notes, notetaker/scribe, teacher uses microphone, extra time, large print, audio books, etc.

• Understanding: Neurodiversity-affirming, Strength-focused

For autism, ADHD, dyslexia, dysgraphia, and everything...

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#### NOTE WHAT WASN'T ON THE LIST

- Sensory Processing Disorder
- Developmental Coordination Disorder/Dyspraxia
- Anxiety
- Depression
- Bipolar
- Tourette's/Tic Disorder
- Usually better described as one of the 10 most common causes
- ODD (Oppositional Defiant Disorder)
- PDA (Pathological Demand Avoidance/Persistent Drive for Autonomy)

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## THANK YOU tinyurl.com/2ebeyondusualsuspects

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