Specific Learning Disorder

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Criteria

• DSM-5

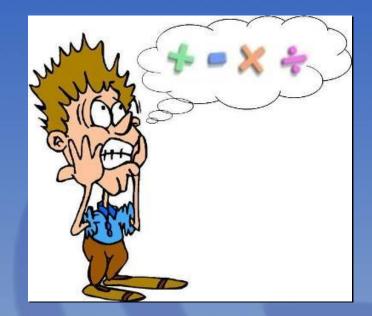
- Persistent difficulty learning academic skills
 - Reading
 - Written Expression
 - Mathematics
- Academic performance is below expectation
- Difficulty apparent in early school years
- Difficulty not better accounted for by other neurological disorder

Specifiers

Reading

- Word reading (dyslexia)
- Reading rate or fluency
- Reading comprehension
- Written Expression
 - Spelling
 - Grammar and punctuation accuracy
 - Clarity or organization of written expression

Specifiers



Mathematics

- Number sense
- Memorization of math facts
- Accurate or fluent calculation
- Accurate math reasoning

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Outcomes

Increased risk:

- Dropout
- Lower educational attainment
- Psychological distress
- Unemployment or underemployment





Learning Disorders are the same as other disorders that impact learning

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Differential Diagnosis

- Intellectual Disability
- ADHD
- Autism Spectrum Disorder
- Normal variation

*co-morbidity is common

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Learning Disorders correspond to low IQ

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Prevalence has increased

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Specifiers/Prevalence

Prevalence

- 5-15% (based upon children)
- More frequent diagnosis in males (2:1 or 3:1)
- 80% of cases are in reading





Learning Disorders fade with time

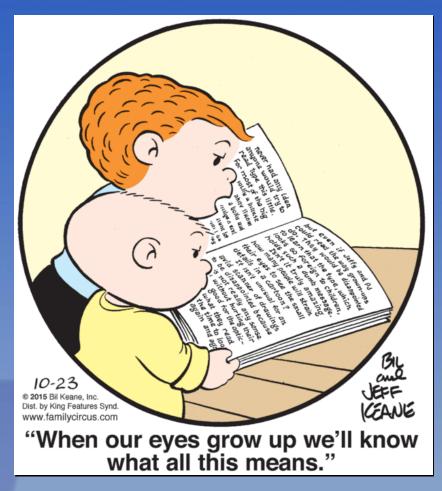
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Persists into adulthood

High school to college

 Slow reading rate, comprehension, written expression, math problem solving





Learning Disorders are easy to diagnose

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Diagnosis

 Discrepancy between IQ & achievement Historically popular Research does not support Response to intervention Progress monitoring and intervention Just focuses on low achievers Cognitive processes Cognitive processes that underlie achievement Georgia State University

Assessment

- Comprehensive evaluation
 - IQ
 - Reading
 - Writing
 - Math
 - Information processing
 - Attention/executive functioning
 - Language
 - Memory
 - Visual
 - Social/Emotional Functioning

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Typical Processing Weaknesses

Word decoding

- Phonological awareness (rapid naming, processing speed
- Reading Fluency
 - Rapid naming (processing speed, orthographic competence)
- Comprehension
 - Language
 - Listening comprehension
 - Working memory

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Typical Processing Weaknesses

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- Written Expression
 - Spelling
 - Language
 - Executive functioning
- Math
 - Working memory
 - Executive functioning
 - Language

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Misconceptions:

- All children who reverse letters have dyslexia
- People with dyslexia see things backwards
- People with dyslexia never learn to read well
- Dyslexia is a medical diagnosis



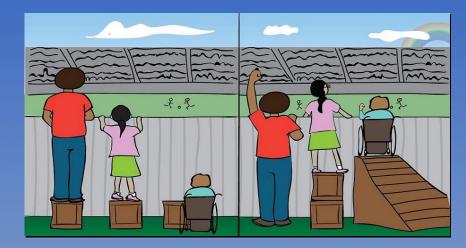
Misconceptions

- Can be treated with:
 - Fish oil
 - Tinted lenses
 - Balancing exercises
 - Vision therapy
 - Medication

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Accommodations

- Idea to "level the playing field"
- Based upon results of the evaluation
 - Must consider other factors



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Common Accommodations

- Extended Time
- Word Processor
- Voice Recognition
- Screen reader
- Calculator
- Formula Sheet
- Word Bank
- Scantron

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Common Accommodations

- Note taking asst.
- Audio books
- Extended time
- Extended deadlines
- Foreign language sub

- PowerPoint
- Written notice
- Group projects
- Relaxed attendance
- Classroom breaks

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- 18 year old, Caucasian male
- High school graduate (3.96 GPA)
- College freshman
- No significant medical history aside from ear infections and tubes
- Healthy, college athlete

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- History of reading and spelling difficulty since 3rd grade
- Diagnosed and received services through an IEP
- Current -slow reader, poor speller
- No problems with math
 Previously diagnosed ADHD pediatrician
 Inconsistent medication (2 years)



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Weaknesses

- Reading
 - Decoding
 - Rate
- Spelling
- Phonological processing



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- Diagnosed with Dyslexia
 - IQ = high average
 - Solid skills -
 - sensorimotor
 - attention/executive functioning
 - Visual spatial
 - Memory
 - Language
 - Social/emotional

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Accommodations??



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- 20 year old, Latin/African American male
- Graduated high school (3.3 GPA)
- College sophomore
- Parents both have master's degrees
- Medical history scarlet fever, ear infections, tonsillectomy/adenoidectomy

History

- Speech and writing weaknesses
 - Speech therapy
- Repeated kindergarten
- Diagnosed with CAPD, ADHD
- 504 Plan second grade (+ private tutoring)
- Treated for anxiety
 - Therapy
 - Medication briefly in high school

- Reported difficulties:
 - Staying focused/daydreaming
 - Careless mistakes
 - Studying and completing assignments on time
 - Organization for writing
 - Worry about making mistakes
 - Anxiety related to making friends
 - Feels "awkward," avoids



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Diagnosed with

- ADHD, combined
 - Parent and self-report (past and current)
 - CPT scores and executive functioning weaknesses
 - Observations (organization)
- Generalized Anxiety Disorder
 - Worry, nervousness, muscle tension, fatigue, restlessness, sleep disturbance
 - Difficulty controlling worry
 - Mood impacted by anxiety

- Diagnoses (cont.)
 - Specific Learning Disorder Reading
 - Rate or fluency
 - Weak rapid naming, phonological memory, executive functioning

 Earlier testing did not indicate academic achievement weaknesses (7 years ago)

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