Explaining Dyslexia:

What Educators and Parents Need to Know to Talk about Reading Difficulties

> G. Emerson Dickman, JD <u>www.dickmanalliance.com</u> emerson@dickmanalliance.com

LEARNING DISABILITY: A WORKING CONSTRUCT

• Learning disabilities reflect natural variations in brain function that predict unexpected difficulty learning skills and concepts valued by the culture in which the individual is expected to perform.

- Supportive life experience can make learning disabilities less severe.
- · Learning disabilities may co-exist with variations in achievement due to other causes.
- Secondary consequences of delayed or ineffective intervention may include a diminished sense of self-efficacy, and/or social marginalization.

What does "unexpected" mean?

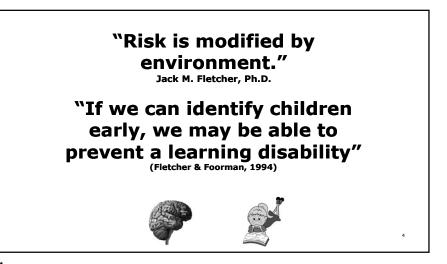
- · Intra-individual versus inter-individual.
- Aptitude discrepancy versus achievement discrepancy.

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"There are neurobiological factors that make people at risk for disability. However, neural systems are malleable, and the predictably concomitant disability can often be prevented by exposing the child to appropriately differentiated instructional programs."

> Fletcher, 3-21-12 a paraphrase

A, so-called, "learning disability" is not a *disability*, in and of itself, but simply a "neurobiological factor" that places the individual "at risk" for disability.



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"The problem [learning disability] is localized; it is not generalized to all areas of learning."

Hinshelwood (1902)

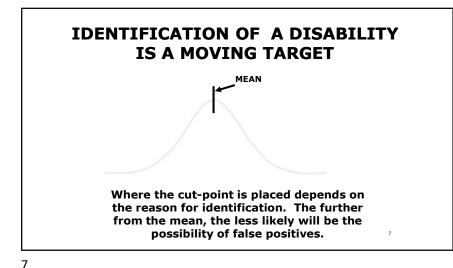
IQ is linked to the level of ability to read in the neurotypical individual, but is *not linked* to the level of ability to read in the dyslexic individual.

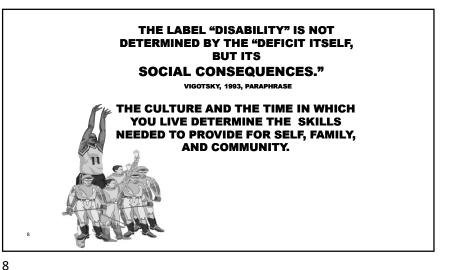
Shaywitz and others (2010)

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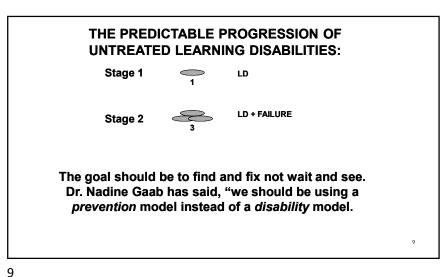
Natural variations in brain function also account for variations in artistic or athletic talent. Three hundred years ago sense of direction and eye/hand coordination were far more important that the ability to read and write.

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WHAT A LEARNING DISABILITY ISN'T:

APTITUDE - ACHIEVEMENT DISCREPANCY

"A SEVERE DISCREPANCY BETWEEN ACHIEVEMENT AND INTELLECTUAL ABILITY..."

"REQUIRES A STUDENT TO CROSS A THRESHOLD OF FAILURE." Nancy Mather

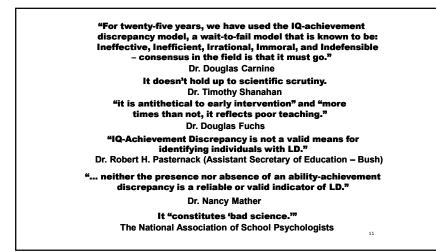
"THE ONLY THING THAT THIS FORMULA PREVENTS IS PREVENTION." Jack Fletcher

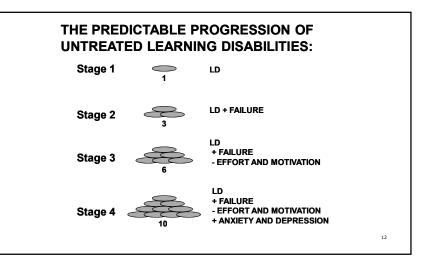
"A WAIT AND FAIL MODEL, IT'S

IMMORAL." Thomas Hehir (OSEP - Clinton)

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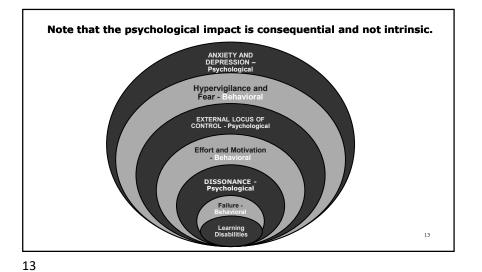
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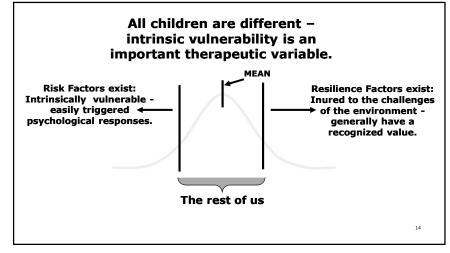


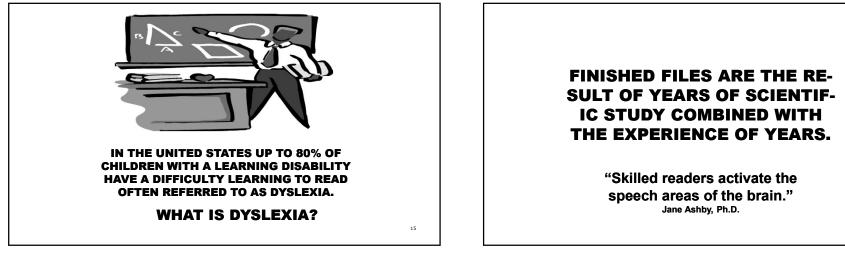


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THE READING GAPS OF THE DEAF AS COMPARED TO THE BLIND SEEM ALMOST A CONTRADICTION. THE BLIND ARE THE BETTER READERS. THIS HAPPENS BECAUSE READING IS CLOSER TO HEARING THAN TO SEEING. (Jeanne S. Chall)

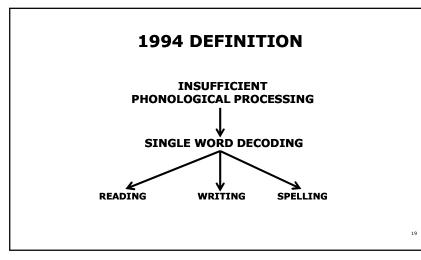
"The origins of reading difficulty are in spoken language. (Mark Seidenberg) Discover the cause and uncover the solution!

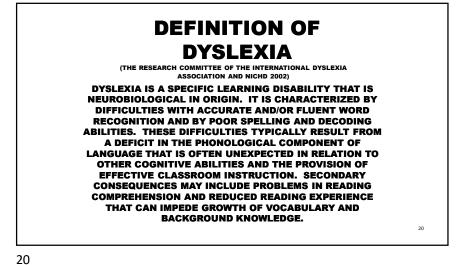
"If you don't know the cause you get instructional paradigms built on faulty assumptions." G. Reid Lyon, Ph.D.

"Treatment stems from an understanding of brain function." Jack M. Fletcher, Ph.D.

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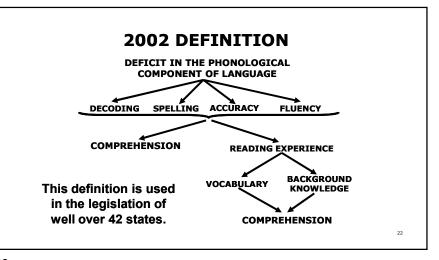


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DECODING: The skill to decipher letters and letter combinations into speech sounds.
SPELLING: (Encoding) The ability to represent speech sounds with letters and letter combinations.
ACCURACY: The ability to identify single words without errors.
FLUENCY: Reading that sounds as if the reader is speaking and allows the reader to focus on meaning. (Suzanne Carreker)



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BACKGROUND KNOWLEDGE & VOCABULARY

"The importance of prior knowledge to comprehension is included in virtually all modern theories of reading."

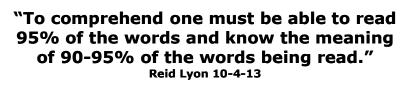
> Allington & Cunningham: Anderson & Pearson, 1984; Pressley, Wood, & Woloshyn, 1992; Spivey, 1996).

"... there is a common sense relationship between vocabulary and comprehension-- ... ideas are expressed in words."

ERIC Digest: Baker, 1995; Nagy, 1998; Nelson-Herber, 1986

"... [prior] knowledge and vocabulary have independent effects ... on what is comprehended."

Stahl, S.A., ERIC ED # 329919

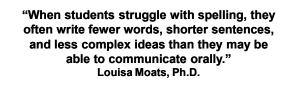


Comprehension is not an intrinsic weakness. Difficulties with text comprehension is a consequence of having less reading experience than intellectual peers, a derivative impact.

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"A SYNONYM IS A WORD YOU USE WHEN YOU CAN'T SPELL THE WORD YOU FIRST THOUGHT OF."

Bert Bacharach

The Look of Love Do you know the way to San Jose? Rain drops keep falling on my head

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For educators, it makes sense to promote timely and effective intervention:

1. "Waiting one year (for intervention) diminishes effectiveness by 25-50%"

2. The return on investment (ROI) of timely intervention is "\$16 to \$31 for each dollar spent."

(Al Otiaba & Fuchs, 2006; Wanzek & Vaughn, 2007, and Beddington et al., 2008)

25th %ile in Grade 10.0 reads the same as the 75th %ile in Grade 5.5! Marilyn Adams presentation 3-27-06

"The top 10th percentile read more in the first two days of school than the bottom 10th percentile will read in the whole school year."

The 70th percentile reader is exposed to 1,168,000 words in text per year as compared to 251,000 for the 30th percentile reader. Keith Stanovich

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INFORMED X 3

1) METHOD

RIGOROUS EVIDENCE-BASE, FIELD TESTED, TRACK RECORD OF SUCCESS

2) INSTRUCTOR

SUFFICIENT TRAINING, EXPERIENCE, AND KNOWLEDGE TO DELIVER THE CHOSEN PROGRAM OF INSTRUCTION AS INTENDED BY THE AUTHOR; WITH FIDELITY TO DESIGN.

3) DOSAGE (Don Deshler)

THOSE ELEMENTS NECESSARY TO ENSURE A REASONABLE RATE OF PROGRESS, SUCH AS INTENSITY AND DURATION OF INSTRUCTION.

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The more the depth of teacher knowledge the less instruction needs to be tied to program design.

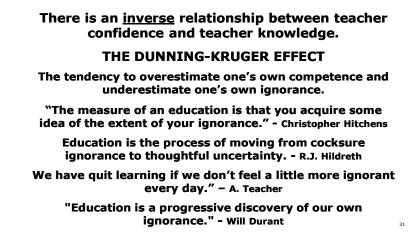
The less the depth of teacher knowledge the more instruction needs to be tied to program design.

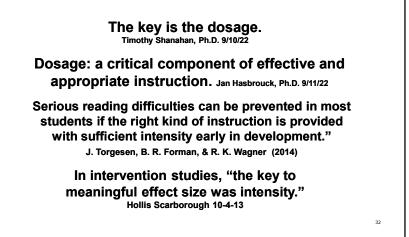
"Even the most gifted teachers cannot be expected to teach what they do not know." – Georgette

If you don't have the knowledge, you have to go by the book.



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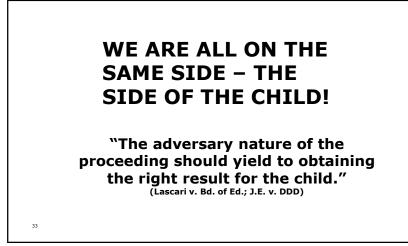




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THERE IS A CRISIS OF CONFIDENCE IN OUR SCHOOLS – WHY?

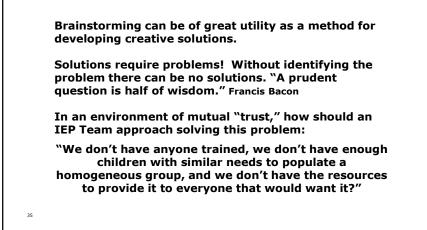
"... our practice becomes 'disinviting' to parents."

"... the very language of special education erects barriers between parents and professionals."

Reid & Valle (2004) JLD 37(6)

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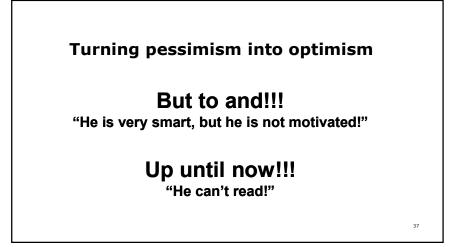
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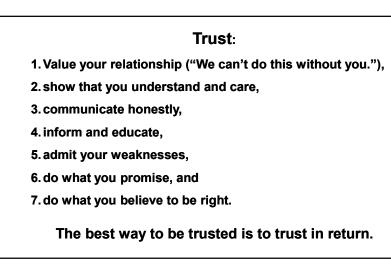


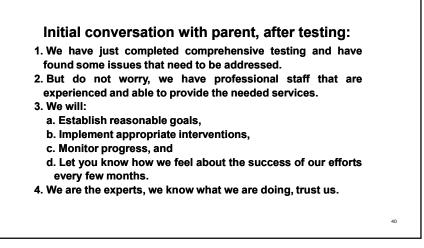
Reflective practice:

In short, reflective practice is a process of selfevaluation to anticipate how your actions prompt reactions in others. Using theory-of-mind.

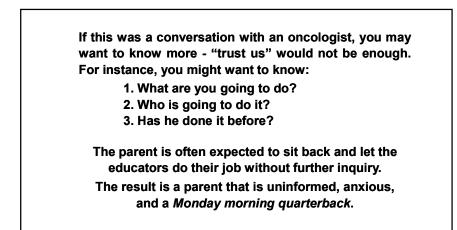
Am I treating others as I would like to be treated?

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Alternatively,

- 1. Value parents' concerns.
- 2. Educate parents as to
 - a. what is wrong and
 - b. what needs to be done.
- 3. Engage parents by involving them.

Value, educate, and engage

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An alternative approach:

1. Testing has revealed a concern that, unless properly treated in a timely manner, could have consequences regarding Jimmy's future potential and happiness.

2. We found that Jimmy has relative weaknesses in processing the phonological component of language, commonly referred to as "dyslexia." Dyslexia is not a disability in the usual sense, but a natural variation in brain function not unlike variations in other abilities like artistic or athletic talent. However, it can affect the development of literacy skills, which at this time and in this culture are very highly valued.

- 3. For intervention to be successful it needs to be informed on three levels:
 - a. The method should reflect the science of reading and have a track record of success. "We use a structured literacy approach known as (name the program being used)."
 - b. The instructor should have sufficient knowledge, experience, and training to deliver the chosen method as intended. "Ms. Smith is certified by (name the organization) and has had specific training in the program we are using."
 - c. Such intervention needs to be delivered with sufficient intensity to evidence meaningful progress. "We suggest that three times per week for forty-five minutes per session should be sufficient. However, we will:
 - i. Monitor progress every two weeks,
 - ii. Track progress over a six-to-nine-week period to ascertain whether we are on a path to achieve the intended goal, and
 - iii. Adjust the intensity or the character of intervention, as necessary."

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4. Invite parents	to collaborate.	"Our	efforts	will	not	be	as
successful as we would hope without your collaboration and							
partnership. Th	is is how you can	help:					

- a. If possible, read for 20 minutes every day with Jimmy in a book suggested by Ms. Smith. You read one paragraph and let Jimmy read the next paragraph.
- b. Let Jimmy see you reading on your own and discussing with others what you have read.
- c. Keep abreast of that on which Ms. Smith is focusing so you can reinforce when opportunities present.
- d. Keep us informed if there is any change in Jimmy's attitude toward school and learning (for better or worse)."

If a parents feel that they are collaborators and partners in addressing the educational needs of their child, they will focus on successes more than failures.

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"It is our [the educator's] obligation and responsibility to decode the language of our profession so that parents can rightfully engage in the process."

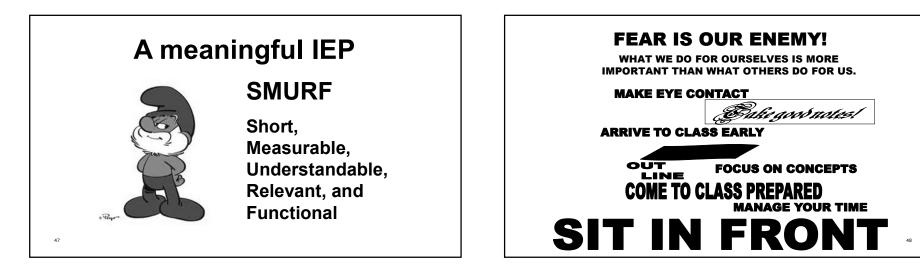
Reid & Valle (2004) JLD 37(6)

The IEP: Honest and Informative

This is what we are going to do.	→ Program
This is who is going to do it.	→ Instructor (Trained)
This is how it is going to be done.	→ With fidelity
This is when it is going to be done.	→ 3 Xs per week
This is where it is going to be done.	→ Individual Pull out

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Children who feel empowered wear their self-confidence like a suit of armor that attracts others because of its beauty and shields from harm because of its strength.

Empowering children is the goal of every teacher.

KEYS TO SUCCESS

- Initiative
- Persistence
- Resilience



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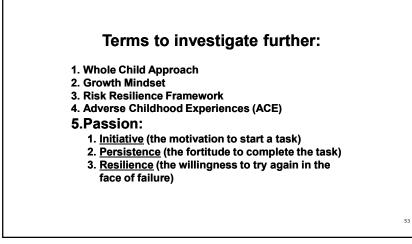
Dyslexia is not a gift. Promoting exceptionalism in every child is a shared goal of both parents and educators. Parents and educators can make it possible for all children to explore their strengths by lighting the "fires" of passion, without requiring that they suffer the challenge of adversity.

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- 1. All human beings experience variations in brain function.
- 2. Only those variations that impact adaptive functioning are meaningful.
- 3. Reading is an important adaptive function that develops over time.
- 4. Reading relies more on hearing than on seeing.
- 5. Dyslexia is neither a gift nor a curse.
- 6. Failure is not a prerequisite.
- 7. Delayed intervention results in predictable emotional consequences.
- 8. To be effective intervention must be informed X 3.
- 9. Value, educate, and engage the parent.
- 10. The best way to be trusted is to trust in return.
- 11. The empowered child is a successful child.

Emerson Dickman, JD emerson@dickmanalliance.com



 THANK YOU

 Emerson Dickman, JB

 www.dickmanalliance.com

 cmerson@dickmanalliance.com

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