

Tammy L. Stephens, PH.D.



#### Presenter

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Title VI of the Civil Rights Act (1964), 42 U.S.C. § 2000d et seq. and 34 C.F.R. pt. 100 provide that <u>no</u> <u>program or activity</u> receiving Federal financial assistance from the Department of Education <u>may discriminate on the basis of race or</u> <u>national origin.</u>



#### So, What is Disproportionality?

The National Education Association (NEA) and the National Association of School Psychologists (NASP) define disproportionality as the **overrepresentation** or **underrepresentation** of **groups of people** in <u>special education</u> <u>services or gifted-talented programs by comparison to their</u> <u>representation in the total school population (Peterson, 2019;</u> Sullivan & Osher, 2019).

#### **Contemplate Some Statistics**

» Nearly half of all students enrolled in special education are students of color (Fish, 2019b).

 > 30% of children with SLD also experience emotional and behavioral problems (Cristofani et al., 2023);

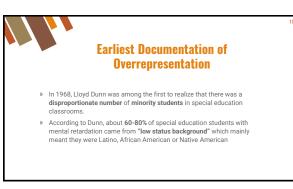
» Students with emotional and behavioral disorders perform below grade level standards in literacy and math (Kern et al., 2019); half fail to meet expectations on standardized testing (Kern et al., 2019);

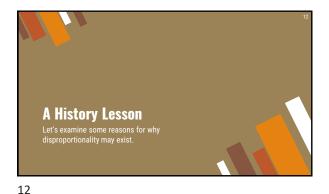
- » 54% of students with a disability drop out of high school (Carney, 2021);
- » Early diagnosis of SLD improves outcomes (Cristofani et al., 2023).

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#### Some Statistics of Disproportionality

- » Native Americans are four times more often referred for developmental delays by comparison to other groups (Peterson, 2019).
- » African Americans are twice as likely to meet the requirements of special education services related to emotional disturbance (ED) and intellectual disability (ID) by comparison to other groups (Grindal et al., 2019; Peterson, 2019)

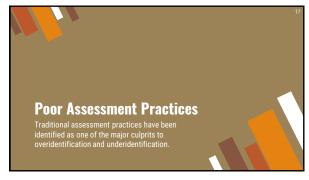






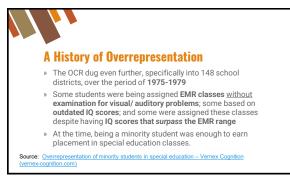
#### **Overrepresentation**

Questions the efficacy of our professional practices, our methods of testing, and our take on honoring diversity.



# A flistory of Overrepresentation A round 1976, the OCR (Office of Civil Rights) in Ohio started collecting data on the educational system. Their results further cemented the idea of overrepresentation. During the period of 1976-1977, black students were placed in EMR (educable mentally retarded) classes 3.4 times as much as white students. Data from 1978-1979 indicated the ratio increased even further, to 3.5. They also found that a lot of limited English proficiency students were placed in special education programs without proper assessment simply because they weren't good at English.

Source: Overrepresentation of minority students in special education – Vernex Cognition (vernexcognition com)













» Language should be investigated for all students

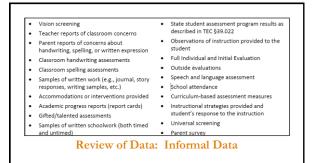




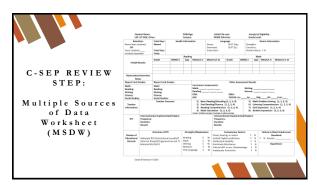
#### **Legal and Federal Regulations**

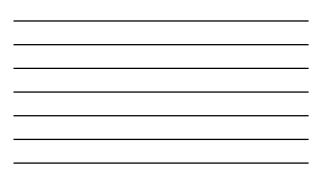
Individuals with Disabilities Education Act (IDEA, 2004)

Use a variety of assessment tools and strategies to gather **relevant functional**, **developmental**, and **academic** information about the child. Including <u>information provided</u> <u>by the parent</u>, that may assist in determining whether a child has a disability; and <u>use it for individualized</u> <u>educational planning</u>.









## Data-Based Referral Decisions Referral decisions must be made based on all the data collected prior to and part of the referral process When important data is lacking, we do not obtain a complete picture of what the student can and

- cannot do
- » This leads to inappropriate referrals and decisions

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# Poor Data Collection Practices Five data sources are recommended for a comprehensive ED evaluation: Classroom observations, teacher interview(s), parent interview(s), student interview, and normative data from rating scales completed by at least two different informants. One study, however, shows that only 28% of school psychologists consistently include all 5 sources and nearly 30% include only four of the five sources (Allen & Hanchon, 2013). Sadly, 5% do not consistently include any of the critical data sources

Sadiy, 5% do not consistently include any of the critical data source listed; and 13% only consistently include one of the five.



#### **Poor Data Collection = Poor Decisions**

- » Leads to students being referred who shouldn't be referred
- » Students who should be referred are not resulting in ongoing academic struggles and sometime manifestations of behavioral issues
- » Leads to inaccurate and poor decisions based on minimal data
- » Once referral is made, lack of data that should be integrated into the assessment results on overreliance on NRT scores

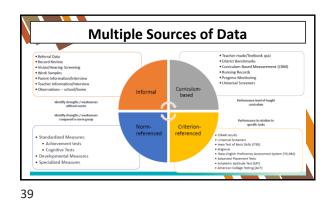
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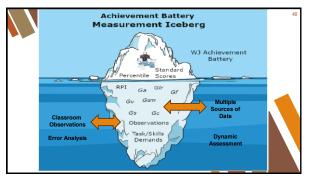
#### Legal Mandates – Assessment

- » May not use any single measure or assessment as the sole criterion for determining whether a child is a child with a disability and for determining an appropriate educational program for the child.
- » Use a variety of assessment tools and strategies to gather relevant functional, and academic information provided by the parent, that may assist in determining whether a child has a disability; and use it for individualized educational planning.

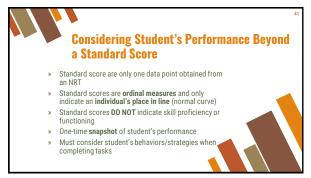
Norm-Referenced Standardized Tests are One Source of Data









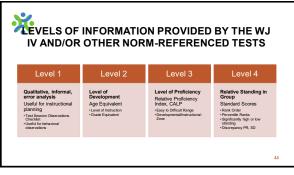
#### Historical Uses of Norm-Referenced Standardized Tests

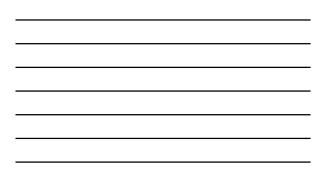
A focus on interpreting student's performance through standard scores

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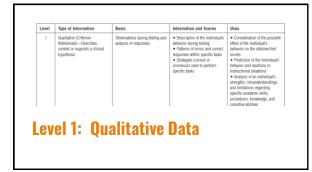


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#### LEVEL 1: Qualitative Data -Example

Observations made during the testing session specific to behaviors

- » Tapping pencil
- » Excessive movement/fidgety behaviors
- » Out of seat
- » Frequently asks for items to be repeated » Frequently requires redirection

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#### LEVEL 1: Qualitative Data -Example

Observations made during the testing session specific to task performance

- Child initially sounds out each letter in the word or chunks the parts of the word several times, but then after a bit of wait time, the child pronounces the word correctly.
- Child works problems in his head or verbally talks through the problem
- Counts on fingers Grips pencil awkwardly when writing



2	Type or mentioned Level of Development (Nem Referenced)—indicates an individual set level of development, such as age or grade requirelents	Sum of Item scores Age or grade level in the norming sample a which the median score is the same as the individual's score	Raw score     Test or cluster W score     Age equivalent (AE)     Grade equivalent (GE)	Reporting an individual's general level of development in a kill, tabling, can and knowledge compared with detres of the same age or in the same grade in the norming supporting and an individual's programs within a specific skill or ability Basis for describing the implications of developmental strength and weaknesses Reasts for initial mecommendations regarding metamical and materials instructional level and materials instructional level and materials instructional level and materials instructional level and materials
Le	vel 2: Le	vel of Dev	velopmen	t





#### Age/Grade Equivalent – Interpretation

- » GE reflects the examinee's performance in terms of the grade level in the norming sample at which the average score is the same as the examinee's score of faverage raw score for students in grade 2 (the 6<sup>th</sup> month) is 14, then any examinee who scored 14 would receive 2.6 as a grade equivalent score
- » GE 2.6  $\neq$  Your student is reading at the mid-second grade level.
- $\,$  > GE 2.6 = On reading tasks, your student is performing the same as the average student in the norm sample who is in the  $2^{nd}$  grade,  $6^{th}$  month

### Remove from your vocabulary (and reports):

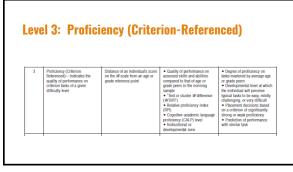
According to the WJ IV Achievement, Student is performing at the \_\_\_\_\_ grade level.

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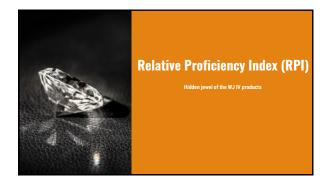
#### Level 3: Proficiency (Criterion-Referenced)

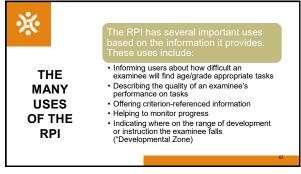
Proficiency and Functioning

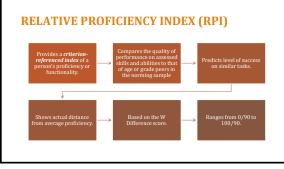
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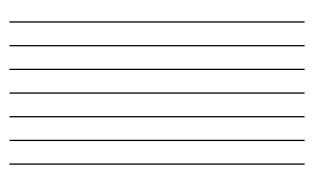












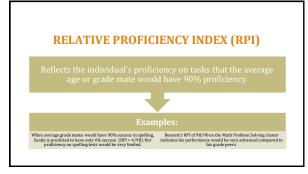
#### **RELATIVE PROFICIENCY INDEX (RPI)**

RPI scores are represented as fractions (e.g., 75/90)

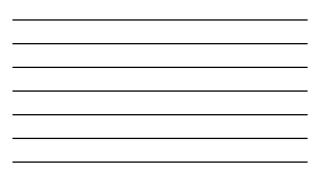
- The *numerator* represents the examinee's predicted proficiency if given similar tasks
- The *denominator* is fixed at 90, indicating the proficiency on average same-age or same-grade peers
- For example, if an examinee obtains an RPI of 75/90 on Test 8: Oral Reading, it indicates that the examinee was 75% successful on an oral reading task that average people at the examinee's same age or grade reference group would perform with 90% success.

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W Difference Values	Reported RPI	Proficiency	Implications
+31 and above	100/90	Very Advanced	Extremely Easy
+14 to +30	98/90 to 100/90	Advanced	Very Easy
+7 to +13	95/90 to 98/90	Average to Advanced	Easy
-6 to +6	82/90 to 95/90	Average	Manageable
-13 to -7	67/90 to 82/90	Limited to Average	Difficult
-30 to -14	24/90 to 67/90	Limited	Very Difficult
-50 to -31	3/90 to 24/90	Very Limited	Extremely Difficult
-51 & below	0/90 to 3/90	Extremely Limited	Nearly Impossible



#### **RPI and Instructional Zone**

The instructional zone is a special application of the RPI score.

It is based on a range along a developmental scale that indicates and examinee's present level of functioning.

It ranges from easy (the Independent Instructional level to difficult (the Frustration Instructional level)

RPI	Instructional Level
96/90 to 100/90	Independent
76/90 to 95/90	Instructional
75/90 & below	Frustration

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#### **RPI and Instructional Zone**

An examinee with an RPI of 80/90 is expected to be at the instructional level and should find similar tasks developmentally appropriate.

 An examinee with an RPI of 60/90 is expected to demonstrate frustration on similar tasks when compared to average same-age or same-grade peers. Similar tasks are expected to be developmentally challenging.

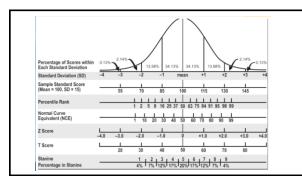
RPI	Instructional Level
96/90 to 100/90	Independent
76/90 to 95/90	Instructional
75/90 & below	Frustration

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### Level 4: Relative Standing in a Group

The Position or "Place in Line" of the student's performance in relation to the normative sample (placement on the normal curve)

-	Relative Standing in a Group (Norm Relerenced)—Provides a basis for making peer comparisons (percentile ranks or standard scores)	Relative position (A transformation of a difference acore, such as dividing it by the standard deviation of the reference group)	Eank order     Standard score (SS)     (including 7 score, zscore,     NOE, discrepancy SD DIFF)     Percentile rank (PR)     (including discrepancy PR)	<ul> <li>Statement of the relative (ordinal) position of an individual's score, based on the standard deviation (SD), within the range of scores obtained by age or grade peers in the norming sample</li> <li>Placement decisions based on a criterion of significantly high or low standing in a group</li> </ul>

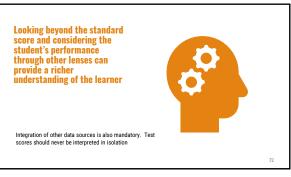


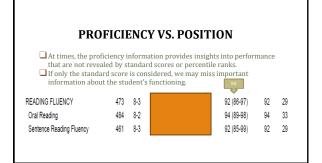
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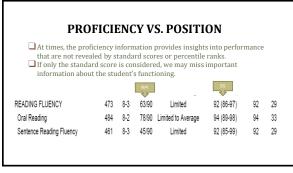
#### **Standard Scores are Not Equivalent to Functioning**

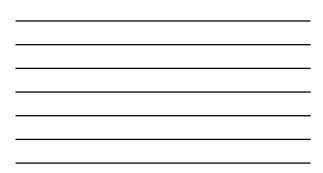
The fundamental **misunderstanding** and **common interpretive error** with <u>standard scores</u> being equivalent to <u>functioning</u> or <u>performance</u>. This leads to faulty generalizations.

For example, a standard score of 90 on a memory test could be <u>Misinterpreted</u> to mean the student has "average" functioning in memory when in fact a more accurate description of this score is that it represents an individual's relative position or "place" in line as it is ordinal data (Jaffe, 2009; Adeyemi, 2010).





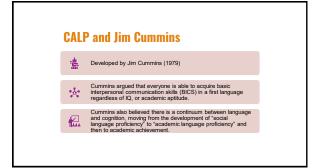


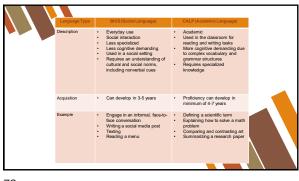


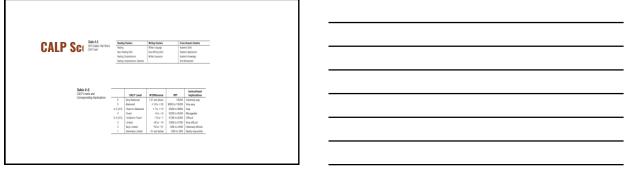
Johnson iv		S	core	e Report		
Name: Javie, S Date of Birth: 11/11/2009				School: Teacher:		
Age: 5 years, 9 months				ID:		
Sex: Female Examiner: Tammy Stephens, Ph.D.						
Date of Testing: 08/18/2015						
TESTS ADMINISTERED						
Woodcock-Johnson IV Tests of E	Serly Cogn	tive at	idi ede	emic Development		
TABLE OF SCORES Woodcock-Johnson IV Tests of E	Serly Cogn	tive ar	d Acede	emic Development (N	orms based on i	age 5-9)
CLUSTER/Test	w	AE	RP1	Proficiency	55 (68% Band)	PR (68% Band
GIA-EARLY DEVELOPMENT	478	6-5	95/90	Average	110 (106-113)	74 (67-80)
EXPRESSIVE LANGUAGE	476	6-8		Average to Advanced	109 (104-113)	72 (61-81)
EARLY ACADEMIC SKILLS	468	7-8	100/90	Very Advanced	130 (128-132)	98 (97-98)
Memory for Names	474	4-3	77/90	Limited to Average	91 (87-95)	27 (20-36)
Sound Blending	477	5-10	92/90	Average	102 (95-107)	54 (40-68)
Picture Vocabulary	481	7-0		Average to Advanced	111 (105-117)	77 (63-87)
Verbal Analogies	478	6-10		Average to Advanced		81 (66-92)
Visual Closure	468	5-2	83/90	Average	95 (89-100)	36 (24~49)
Sentence Repetition	470	6-4		Average to Advanced		63 (51-74)
Rapid Picture Naming	494	8-8	100/90	Advanced	120 (115-125)	91 (84-95)
Letter-Word Identification	459	7-5	100/90	Very Advanced	125 (123-127)	95 (93-96)
Number Sense	471	7-5	99/90	Advanced	125 (119-132)	95 (89-98)
Writing	475	8-2	100/90	Very Advanced	135 (131-138)	00(08->00)



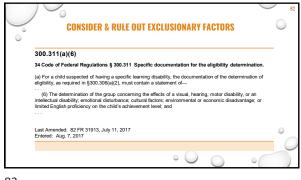
Insights extracted from Elizabeth Cohen Hamblet

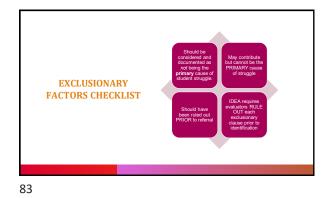


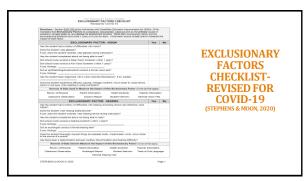




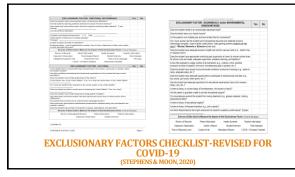








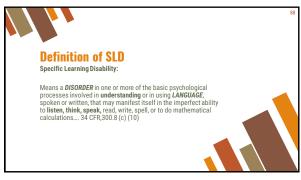


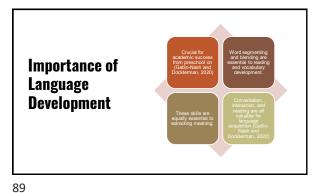


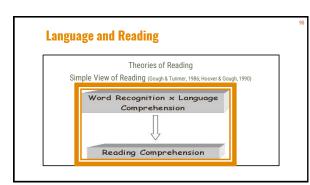




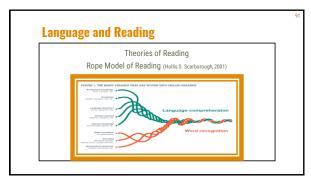




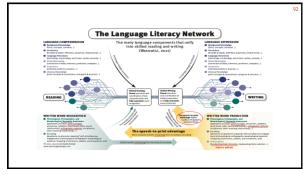




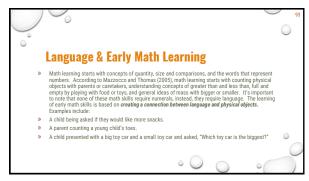


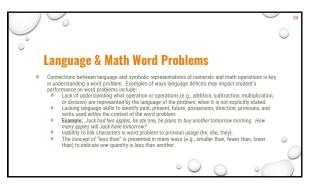






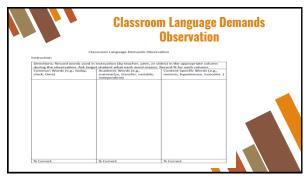


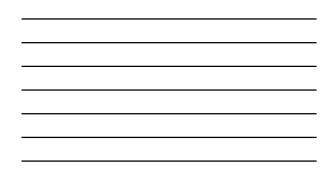
















- (5) Pursue equity in your work (see also Biddanda et al., 2018; Blanchard et al., 2021).
- Gillborn, Warmington, & Demack (2018)

