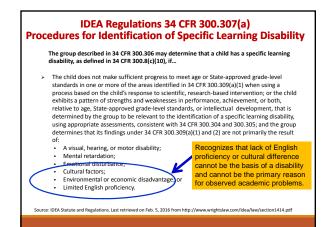
Dual Identification of English Learners: Use of a PSW model for determining SLD with ELs.

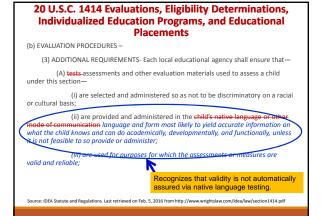


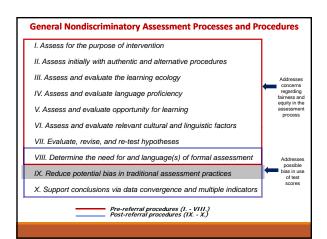
COSA 2016 State English Learners Alliance Conference March 10, 2016 Eugene, OR

Samuel O. Ortiz, Ph.D. St. John's University

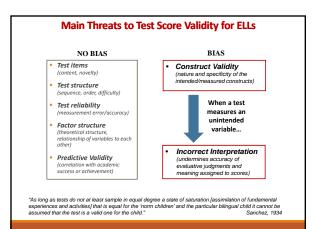
IDEA Regulations 34 CFR 300.307(a) Procedures for Identification of Specific Learning Disability A State must adopt, consistent with 34 CFR 300.309, criteria for determining whether a child has a specific learning disability as defined in 34 CFR 300.8(c)(10). In addition, the criteria adopted by the State: • Must not require the use of a severe discrepancy between intellectual ability and achievement for determining whether a child has a specific learning disability, as defined in 34 CFR 300.8(c)(10); • Must permit the use of a process based on the child's response to scientific, research-based intervention; and • May permit the use of other alternative research-based procedures for determining whether a child has a specific learning disability, as defined in 34 CFR 300.8(c)(10). • This includes use of approaches based on a Pattern of Strengths and Weaknessee (PSW)













Main Threats to Test Score Validity for ELLs

Acculturative Knowledge Acquisition – Not Race or Ethnicity

"When a child's general background experiences differ from those of the children on whom a test was standardized, then the use of the norms of that test as an index for evaluating that child's current performance or for predicting future performances may be inappropriate."

Salvia & Ysseldyke, 1991

Developmental Language Proficiency – Not Language Dominance

"Most studies compare the performance of students from different ethnic groups...rather than ELL and non-ELL children within those ethnic groups....A major difficulty with all of these studies is that the category Hispanic includes students from diverse cultural backgrounds with markedly different English-language skills....This reinforces the need to separate the influences of ethnicity and ELL status on observed score differences." Lohman, Korb & Lokin, 2008

Processes and Procedures for Addressing Test Score Validity

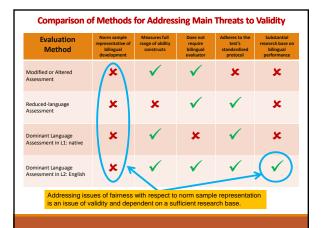
IX. REDUCE BIAS IN TRADITIONAL TESTING PRACTICES

Exactly how is evidence-based, nondiscriminatory assessment conducted and to what extent is there any research to support the use of any of these methods in being capable of establishing sufficient validity of the obtained results?

- Modified Methods of Evaluation
 - Modified and altered assessment

Nonverbal Methods of Evaluation

- Language reduced assessment
- Dominant Language Evaluation: L1
 - Native language assessment
- Dominant Language Evaluation: L2
 English language assessment





Evaluating and Defending Construct ELL Test Score Validity

Whatever method or approach may be employed in evaluation of ELL's, the fundamental obstacle to nondiscriminatory interpretation rests on the degree to which the examiner is able to defend claims of test score construct validity. This is captured by and commonly referred to as a question of:

"DIFFERENCE vs. DISORDER?"

Simply absolving oneself from responsibility of doing so via wording such as, "all scores should be interpreted with extreme caution" does not in any way provide a defensible argument regarding the validity of obtained test results and does not permit interpretation.

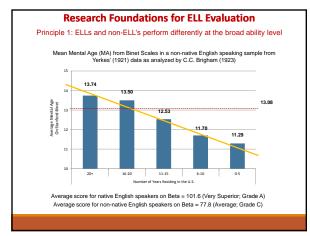
At present, the only manner in which test score validity can be evaluated or established is via use of the existing research on the test performance of ELLs as reflected in the degree of "difference" the student displays relative to the norm samples of the tests being used, particularly for tests in English. This is the sole purpose of the C-LIM.

Summary of Research on the Test Performance of English Language Learners

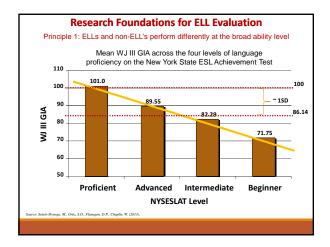
Research conducted over the past 100 years on ELLs who are non-disabled, of average ability, possess moderate to high proficiency in English, and tested in English, has resulted in two robust and ubiquitous findings:

- Native English speakers perform better than English learners at the broad ability level (e.g., FSIQ) on standardized, norm-referenced tests of intelligence and general cognitive ability.
- English learners tend to perform significantly better on nonverbal type tests than they do on verbal tests (e.g., PIQ vs. VIQ).

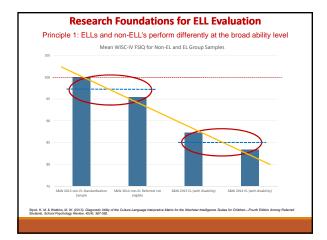
So what explains these findings? Early explanations relied on genetic differences attributed to race even when data strongly indicated that the test performance of ELLs was moderated by the degree to which a given test relied on or required age- or grade-expected development in English and the acquisition of incidential acculturative knowledge.



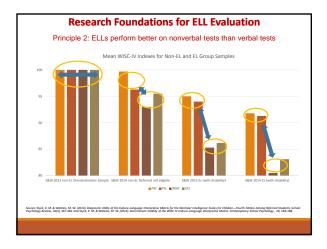














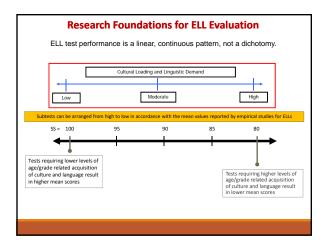
Research Foundations for ELL Evaluation

Historical and contemporary research has tended to ignore the fact that ELLs do not perform at the same level on ALL nonverbal tests any more than they perform at the same level on ALL verbal tests.

Instead, it appears that test performance of ELLs is not a dichotomy but rather a continuum formed by a linear, not dichotomous, attenuation of performance.

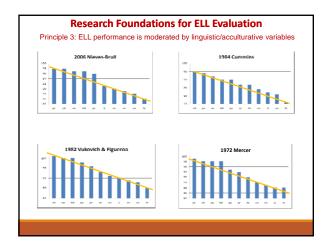
This means, a third principle is evident in the body of research on ELLs but has not been well understood or utilized in understanding test performance:

 Test performance of ELLs is moderated by the degree to which a given test relies on or requires age- or grade-expected English language development and the acquisition of incidental acculturative knowledge.

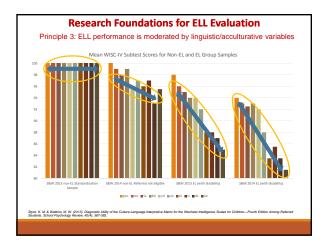


	Hispanic Group (Mercer) (1972)	Hispanic Group (Vukovich & Figueroa) (1982)	ESL Group (Cummins) (1982)	Bilingual Group (Nieves-Brull) (2006)
Subtest Name	Mean SS	Mean SS	Mean SS	Mean SS
Information	7.5	7.8	5.1	7.2
Vocabulary	8.0	8.3	6.1	7.5
Similarities	7.6	8.8	6.4	8.2
Comprehension	7.8	9.0	6.7	8.0
Digit Span	8.3	8.5	7.3	*
Arithmetic	8.7	9.4	7.4	7.8
Picture Arrangement	9.0	10.3	8.0	9.2
Block Design	9.5	10.8	8.0	9.4
Object Assembly	9.6	10.7	8.4	9.3
Picture Completion	9.7	9.9	8.7	9.5
Coding	9.6	10.9	8.9	9.6

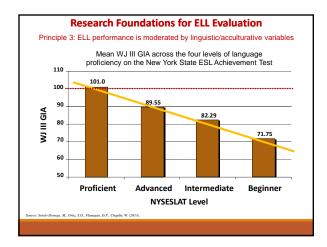












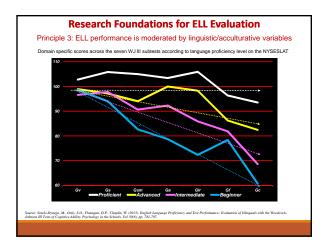


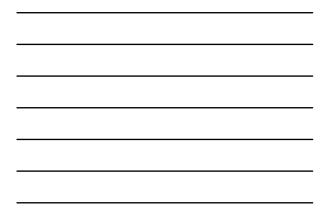
Research Foundations for ELL Evaluation	
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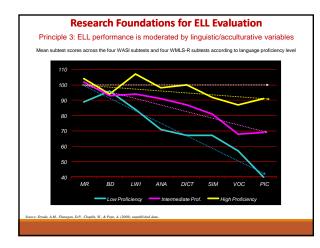
Principle 3: ELL performance is moderated by linguistic/acculturative variables

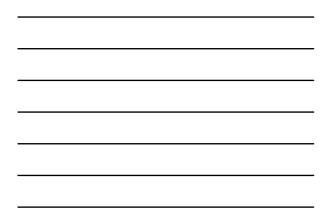
	Variance explained					
Individual test	7-10	11-14	15-18			
Verbal Comprehension	.79	.86-	.81*			
General Information	.71*	.854	.864			
Concept Formation	.67=	.71*	.67			
Visual-Auditory Learning	.40%	.370	.415			
Delayed Recall Visual-Auditory Learning	.390	.320	.37%			
Analysis Synthesis	.29	.44	.470			
Sound Blending	.25%	.326	.35			
Auditory Working Memory	.229	.445	.326			
Retrieval Fluency	.226	.226	.28*			
Memory for Words	.18%	.32 ^b	.23*			
Numbers Reversed	.179	.26%	.30%			
Pair Cancelation	.179	.110	.115			
Rapid Picture Naming	.16%	.07*	.165			
Incomplete Words	.13%	.316	.23%			
Visual Matching	.135	.15%	.165			
Decision Speed	.120	.15 ^b	.194			
Auditory Attention	.109	.20 ^b	.15			
Spatial Relations	.08*	.165	.16			
Planning	.07*	.126	.116			
Picture Recall	.02*	.06*	.104			











Foundational Research Principles of the Culture-Language Interpretive Matrix

Principle 1: EL and non-EL's perform differently at the broad ability level on tests of cognitive ability.

Principle 2: ELs perform better on nonverbal tests than they do on verbal tests Principle 3: EL performance on both verbal and nonverbal tests is moderated by linguistic a

Because the basic research principles underlying the C-LIM are well supported, their operationalization within the C-LIM provides a substantive evidentiary base for evaluating the test performance of English language learners.

- This does not mean, however, that it cannot be improved. Productive research on EL test performance
 can assist in making any necessary "adjustments" to the order of the means as arranged in the C-LIM.
- · Likewise, as new tests come out, new research is needed to determine the relative level of EL performance as compared to other tests with established values of expected average performance.
- Ultimately, only research that focuses on stratifying samples by relevant variables such as language
 proficiency, length and type of English and native language instruction, and developmental issues related
 to age and grade of first exposure to English, will serve useful in furthering knowledge in this area and
 assist in establishing appropriate expectations of test performance for specific populations of ELs.

Practical Considerations for Addressing Validity in Evaluation Procedures for SLD with ELLs

- The usual purpose of testing is to identify deficits in ability (i.e., low scores) Validity is more of a concern for low scores than average/higher scores because 2.

 - Test performances in the average range are NOT likely a chance finding and strongly suggests average ability (i.e., no deficits in ability)
 - Test performances that are below average MAY be a chance finding because of experiential or developmental differences and thus do not automatically confirm below average ability (i.e., developmental differences possible deficits in ability)
- 3. Therefore, testing in one language only (English or native language) means that:
 - It can be determined that a student DOES NOT have a disability (i.e., if all scores are average or higher, they are very likely to be valid)
 - It CANNOT be determined if the student has a disability (i.e., low scores must be validated as true indicators of deficit ability)
- 4. Testing in both languages (English and native language) is necessary to determine disability Testing requires confirmation that deficits are not language-specific and exist in both languages (although low performance in both can result from other factors)
- 5. All low test scores, whether in English or the native language, must be validated
 - Low scores from testing in English can be validated via research underlying the C-LIM Low scores from testing in the native language cannot be validated with research

Practical Considerations for Addressing Validity in Evaluation Procedures for SLD with ELLs

Given the preceding considerations, the most practical and defensible general approach in evaluating ELLs would be:

- Test in English first and if all test scores indicate strengths (average or higher) a disability is not likely and thus no further testing is necessary
- If some scores from testing in English indicate weaknesses, re-test those areas in the native language to cross-validate as areas of true weakness

This approach provides the most efficient process and best use of available resources for evaluation since it permits ANY evaluator to begin and sometimes complete the testing without being bilingual or requiring assistance.

In addition, this approach is IDEA compliant and consistent with the specification that assessments "be provided and administered in the language and form most likely to yield accurate information" because it relies on an established body of research to guide examination of test score validity and ensures that that the results upon which decisions are based are in fact accurate.

A Recommended Best Practice Approach for Using Tests with ELLs

- Step 1. Assessment of Bilinguals validate all areas of performance (exclusion of cultural/linguistic factors) select or create an appropriate battery that is comprehensive and responds to the needs of the referral concerns, irrespective of long Administer all tests in standardized manner first in English only with no modifications Score tests and plot them for analysis via the C-LIM
- If analysis indicates expected range and pattern of decline, scores are invalid due to cultural and linguistic factors that ca reason for poor academic performance

If analysis does not indicate expected range or pattern of decline, apply XBA (or other) interpretive methods to determine specific areas of weakness and difficulty and continue to Step 2

- For Go
 - a. If the high/high cell in C-LIM is within/above expected range, consider Gc a strength and assume it is at least average, thus re-testing is not

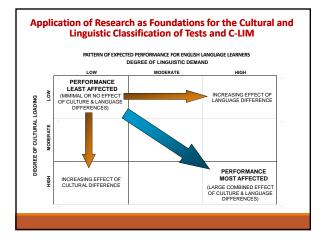
- a. Tyte flyfningt ein in 2... win winningaoe expecter ange, care ca sureign no assume it a or east a bold of the sure of th
- Except for Gc, if a score obtained in the native language validates/confirms a weakness score obtained in English (both SS < 90), use/interpret the solutioned in English as a weakness

- detainers in English is is weathings (1) success data the other and exercises and the other and th

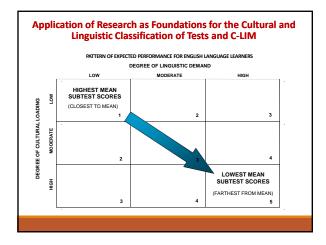
The Culture-Language Interpretive Matrix (C-LIM) Addressing test score validity for ELLs

Translation of Research into Practice

- The use of various traditional methods for evaluating ELLs, including testing in the dominant language, modified testing, nonverbal testing, or testing in the native language do not ensure valid results and provide no mechanism for determining whether results are valid, let alone what they might mean or signify.
- The pattern of ELL test performance, when tests are administered in English, has been established by research and is predictable and based on the examinee's degree of English language proficiency and acculturative experiences/opportunities as compared to native English speakers.
- The use of research on ELL test performance, when tests are administered in English, provides the only current method for applying evidence to determine the extent to which obtained results are <u>valid (a minimal or only contributory influence of cultural and linguistic</u>) factors), possibly valid (minimal or contributory influence of cultural and linguistic factors but which requires additional evidence from native language evaluation), or invalid (a primary influence of cultural and linguistic factors).
- The principles of ELL test performance as established by research are the foundations upon 4. which the C-LIM is based and serve as a de facto norm sample for the purposes of comparing test results of individual ELLs to the performance of a group of average ELLs with a specific focus on the attenuating influence of cultural and linguistic factors.









The Culture-Language Interpretive Matrix (C-LIM) Important Considerations for Use and Practice

The C-LIM is not a test, scale, measure, or mechanism for making diagnoses. It is a visual representation of current and previous research on the test performance of English learners arranged by mean values to permit examination of the combined influence of acculturative knowledge acquisition and limited English proficiency and its impact on test score validity.

The C-UM is not a language proficiency measure and will not distinguish native English speakers from English learners with high, native-like English proficiency and is not designed to determine if someone is or is not an English learner. Moreover, the C-UM is not for use with individuals who are native English speakers.

The C-LIM is not designed or intended for diagnosing any particular disability but rather as a tool to assist clinician's in making decisions regarding whether ability test scores should be viewed as indications of actual disability or rather a reflection of differences in language proficiency and acculturative knowledge acquisition.

The primary purpose of the C-LIM is to assist evaluators in ruling out cultural and linguistic influences as exclusionary factors that may have undermined the validity of test scores, particularly in evaluations of SLD or other cognitive-based disorders. Being able to make this determination is the primary and main hurdle in evaluation of ELLs and the C-LIM's purpose is to provide an evidence-based method that assists clinician's regarding interpretation of test score data in a nondiscriminatory manner.

The Culture-Language Interpretive Matrix (C-LIM)

GENERAL RULES AND GUIDANCE FOR EVALUATION OF TEST SCORE VALIDITY

There are two basic criteria that, when both are met, provide evidence to suggest that test performance reflects the primary influence of cultural and linguistic factors and not actual ability, or lack thereof. These criteria are:

 There exists a general, overall pattern of decline in the scores from left to right and diagonally across the matrix where performance is highest on the less linguistically demanding/culturally loaded tests (low/low cells) and performance is lowest on the more linguistically demanding/culturally loaded tests (high/high cells), and;

2. The magnitude of the aggregate test scores across the matrix for all cells fall within or above the expected range of difference (shaded area around the line) determined to be most representative of the examinee's background and development relative to the sample on whom the test was normed.

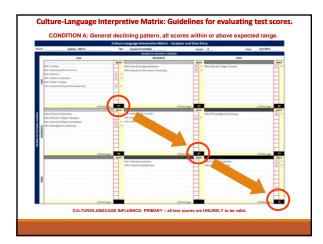
When both criteria are observed, it may be concluded that the test scores are likely to have been influenced primarily by the presence of cultural/linguistic variables and therefore are not likely to be valid and should not be interpreted.

The Culture-Language Interpretive Matrix (C-LIM) RANGE OF POSSIBLE OUTCOMES WHEN EVALUATING TEST SCORES WITHIN C-LIM

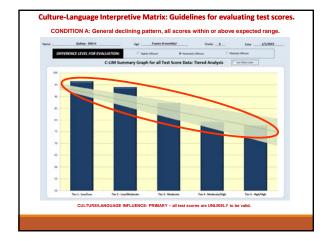
Condition A: Overall pattern generally appears to decline across all cells and all cell aggregate scores within or above shaded range—test scores likely invalid, cultural/linguistic factors are primary influences, but examinee likely has average/higher ability as data do not support deficits, and further evaluation via testing is unnecessary.

- Condition B: Overall pattern generally appears to decline across all cells but at least one cell agregate (or more) is below shaded range—test scores <u>possibly valid</u>, cultural/linguistic factors are contributory influences, and further evaluation, including in the native language, is necessary to establish true weaknesses in a given domain.
- Condition C: Overall pattern does not appear to decline across all cells and all cell aggregate scores within or above average range—test scores <u>likely valid</u>, cultural/linguistic factors are minimal influences, and further evaluation may be unnecessary if no weaknesses exist in any domain.
- Condition D: Overall pattern does not appear to decline across all cells and at least one cell aggregate (or more) is below average range—test scores possibly valid, cultural/linguistic factors are minimal influences, and further evaluation, including in the native language, is necessary to establish true weaknesses in a given domain.

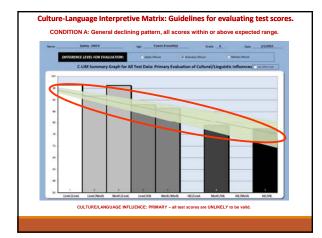
RANGE OF				EST SCORES WITH	
	A general, overall pattern of decline exists?	All scores within or above the expected range?	All scores within or above the average range?	Degree of influence of cultural and linguistic factors	Likelihood that test scores are valid indicators of ability?
Condition A	Yes	Yes	No	Primary	Unlikely
Condition B	Yes	No	No	Contributory	Possibly*
Condition C	No	Yes	Yes	Minimal	Likely
Condition D	No	No	No	Minimal	Possibly*



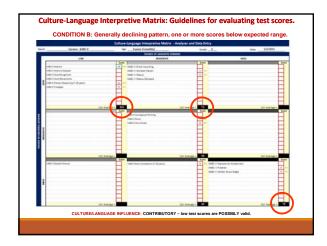




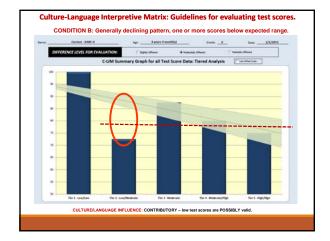




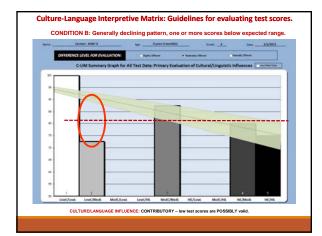




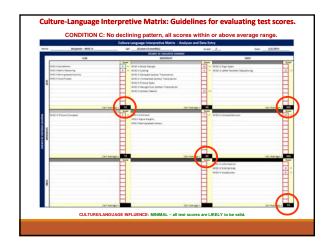




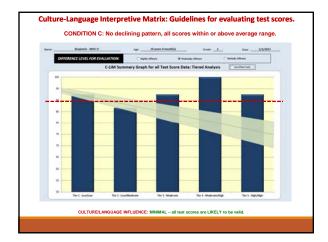




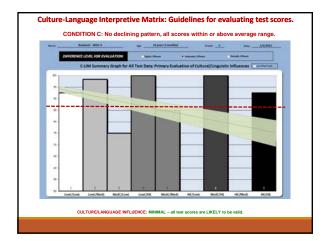




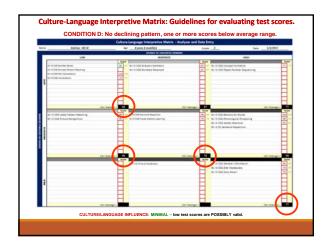




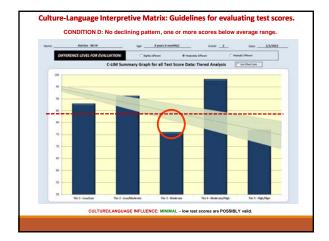




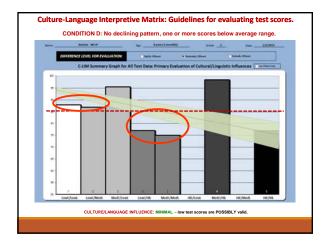








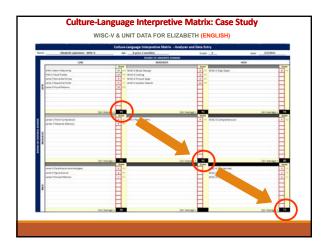




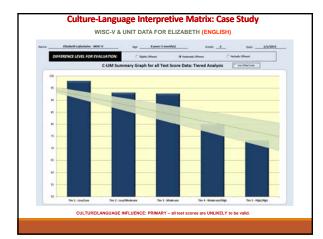


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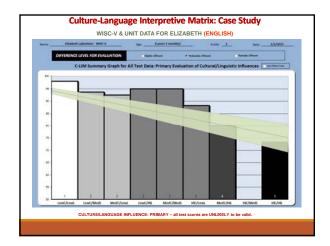




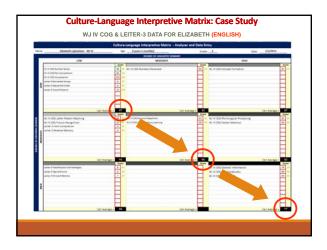




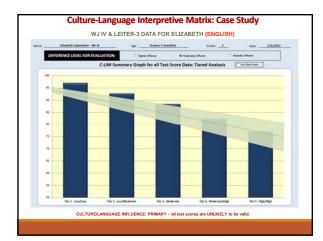




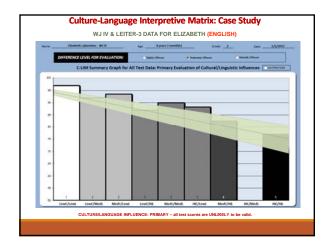




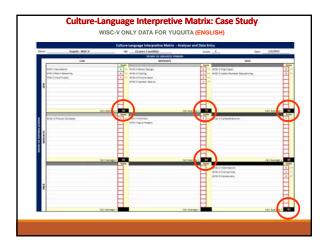




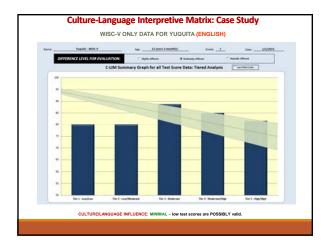




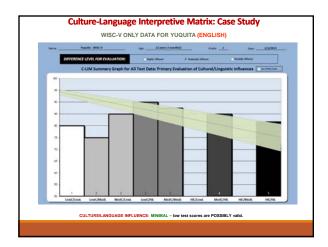




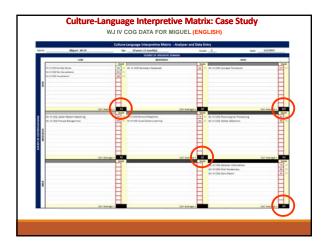




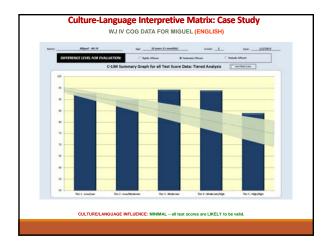




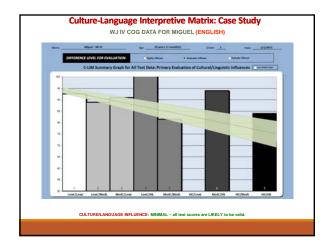




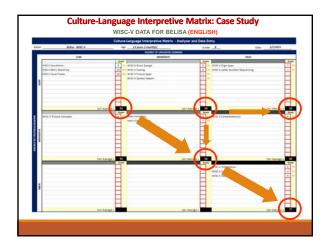




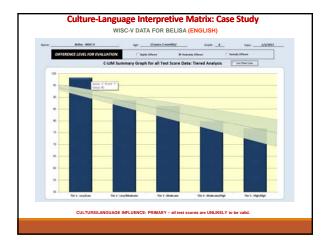




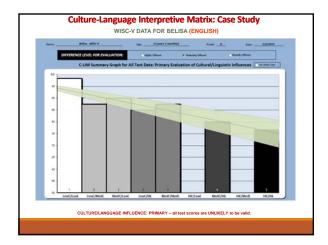




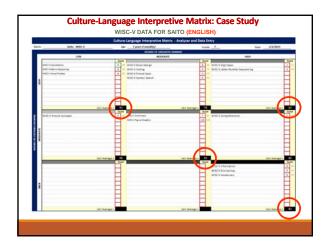




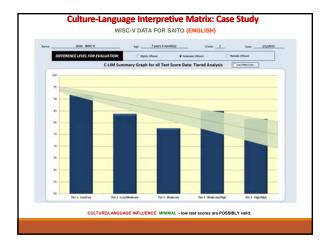




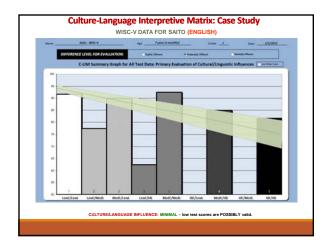












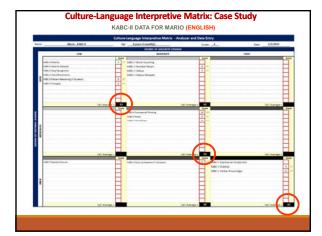


Nondiscriminatory Interpretation of Test Scores The Gc caveat for English Language Learners

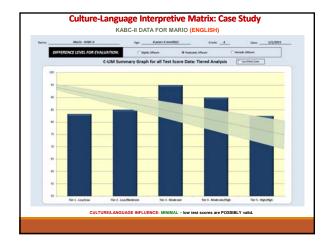
Because Gc is, by definition, comprised of cultural knowledge and language development, the influence of cultural and linguistic differences cannot be separated from tests which are designed to measure culture and language. Thus, Gc scores for ELLs, even when determined to be valid, remain at risk for inequitable interpretation and evaluation.

Much like academic tests of manifest skills, Gc scores do reflect the examinee's current level of English language proficiency and acculturative knowledge. However, they do so as compared to native English speakers, not to other ELLs. This is discriminatory and *comparison of Gc performance using a test's actual norms remains unfair when assigning meaning to the value.* It is necessary instead to ensure that both the magnitude and the interpretive "meaning" assigned to the obtained value is done in the least biased manner possible to maintain equity.

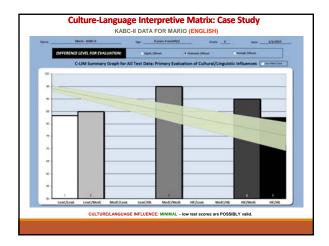
For example, a Gc composite score of 76 would be viewed as "deficient" relative to the normative sample where the mean is equal to 100. However, for ELLs, interpretation of a Gc score of 76 should rightly be deemed as being indicative of "average" performance because it falls within the expected range on the C-LIM because it is instead being compared to other ELLs, not native English speakers. Interpreting Gc scores in this manner will help *ensure that ELLs are not unfairly regarded as having either deficient Gc ability or significantly lower overall cognitive ability—conditions that may simultaneously decrease identification of SLD and increase suspicion of ID and speech impairment.*



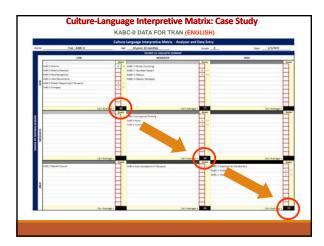




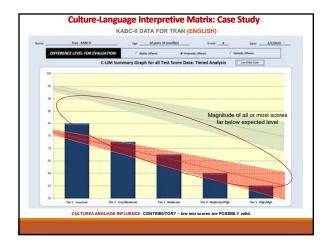




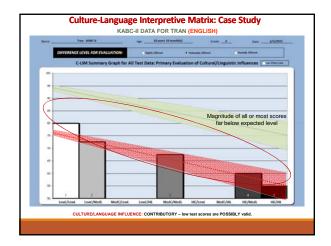




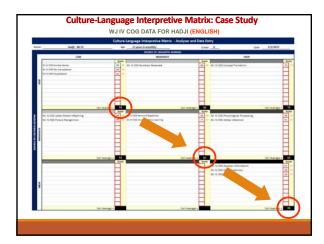




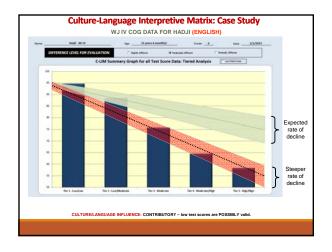




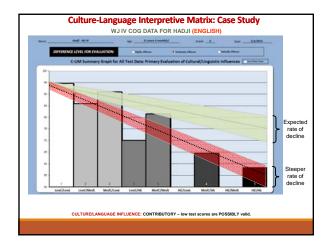




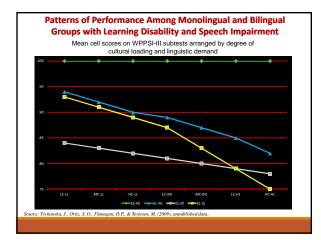




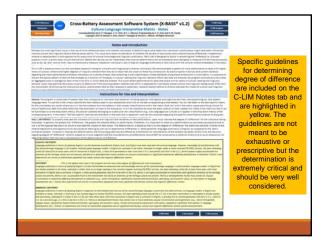




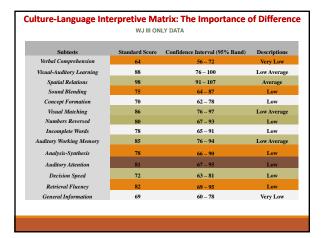








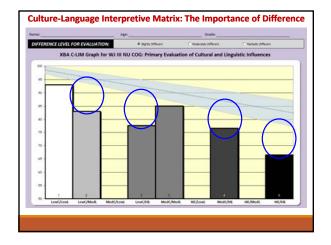




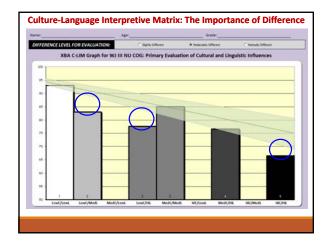


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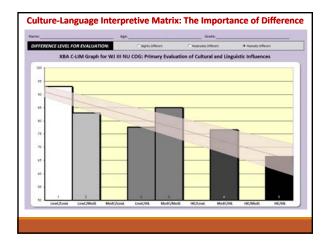














The Culture-Language Interpretive Matrix (C-LIM)

Summary of Important Considerations for Use and Practice

The C-LIM is not a test, scale, measure, or mechanism for making diagnoses. It is a visual representation of current and previous research on the test performance of English learners arranged by mean values to permit examination of the combined influence of acculturative knowledge acquisition and limited English proficiency and its impact on test score validity.

The C-LIM is not a language proficiency measure and will not distinguish native English speakers from English learners with high, native-like English proficiency and is not designed to determine if someone is or is not an English learner. Moreover, the C-LIM is not for use with individuals who are native English speakers.

The C-LIM is not designed or intended for diagnosing any particular disability but rather as a tool to assist clinician's in making decisions regarding whether ability test scores should be viewed as indications of actual disability or a mere reflection of differences in language proficiency and acculturative knowledge acquisition.

The C-LIM's primary purpose is to assist evaluators in ruling out cultural and linguistic influences as exclusionary factors that may have undermined the validity of test scores. Being able to make this determination is the primary and main hundle in evaluation and the C-LIM can thus guide clinician's in their interpretation of test score data in a nondiscriminatory manner.

The Culture-Language Test Classifications and Interpretive **Matrix: Caveats and Conclusions**

Used in conjunction with other information relevant to appropriate bilingual, cross-cultural, nondiscriminatory assessment including...

level of acculturation
 language proficiency
 socio-economic status
 academic history
 familial history

- academic history
 familial history
 developmental data
 work samples
 curriculum based data
 intervention results, etc.

...the C-LTC and C-LIM can be of practical value in helping establish credible and defensible validity for test data, thereby decreasing the potential for biased and discriminatory interpretation. Taken together with other assessment data, the C-LTC and C-LIM assist practitioners in answering the most basic question in ELL assessment:

"Are the student's observed learning problems due primarily to cultural or linguistic differences or disorder?"

Assessment of English Language Learners - Resources

BOOKS:

Rhodes, R., Ochoa, S. H. & Ortiz, S. O. (2005). <u>Comprehensive</u> <u>Assessment of Culturally and Linguistically Diverse Students: A</u> <u>practical approach</u>. New York: Guilford.

Flanagan, D. P., Ortiz, S.O. & Alfonso, V.C. (2013). <u>Essentials of</u> <u>Cross-Battery Assessment, Third Edition</u>. New York: Wiley & Sons, Inc.

Flanagan, D.P. & Ortiz, S.O. (2012). Essentials of Specific Learning Disability Identification. New York: Wiley & Sons, Inc.

Ortiz, S. O., Flanagan, D. P. & Alfonso, V. C. (2015). <u>Cross-Battery</u> <u>Assessment Software System (X-BASS v1.0)</u>. New York: Wiley & Sons, Inc.

ONLINE:

New - Competency-based XBA Certification Program https://www.schoolneuropsych.com/xba/

CHC Cross-Battery Online http://www.crossbattery.com/



