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



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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 Weaknesses (PSW)

IDEA Regulations 34 CFR 300.307(a) **Procedures for Identification of Specific Learning Disability**

The group described in 34 CFR 300.306 may determine that a child has a specific learning disability, as defined in 34 CFR 300.8(c)(10), if...

- > The child does not make sufficient progress to meet age or State-approved grade-level standards in one or more of the areas identified in 34 CFR 300.309(a)(1) when using a process based on the child's response to scientific, research-based intervention; or the child exhibits a pattern of strengths and weaknesses in performance, achievement, or both, relative to age, State-approved grade-level standards, or intellectual development, that is determined by the group to be relevant to the identification of a specific learning disability, using appropriate assessments, consistent with 34 CFR 300.304 and 300.305; and the group determines that its findings under 34 CFR 300.309(a)[1] and (2) are not primarily the result
 - A visual, hearing, or motor disability; Mental retardation;

 - Cultural factors; Environmental or economic disadvantage or
 - Limited English proficiency.

Recognizes that lack of English proficiency or cultural difference cannot be the basis of a disability and cannot be the primary reason for observed academic problems.

Source: IDEA Statute and Regulations. Last retrieved on Feb. 5, 2016 from http://www.wrightslaw.com/idea/law/section1414.pdf

20 U.S.C. 1414 Evaluations, Eligibility Determinations, Individualized Education Programs, and Educational Placements (b) EVALUATION PROCEDURES – (3) ADDITIONAL REQUIREMENTS- Each local educational agency shall ensure that— (A) tests-assessments and other evaluation materials used to assess a child under this section— (i) are selected and administered so as not to be discriminatory on a racial or cultural basis; (ii) are provided and administered in the child's native language or other mode of communication language and form most likely to yield accurate information on what the child knows and can do academically, developmentally, and functionally, unless it is not feasible to so provide or administer; (iii) are used for purposes for which the assessments or measures are valid and reliable; Recognizes that validity is not automatically assured via native language testing.

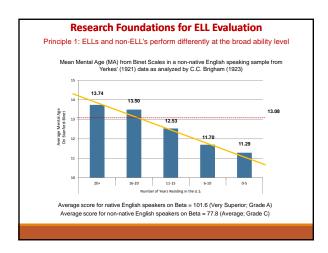
General Nondiscriminatory Assessment Processes and Procedures I. Assess for the purpose of intervention II. Assess initially with authentic and alternative procedures III. Assess and evaluate the learning ecology IV. Assess and evaluate language proficiency V. Assess and evaluate opportunity for learning VI. Assess and evaluate relevant cultural and linguistic factors VII. Evaluate, revise, and re-test hypotheses VIII. Determine the need for and language(s) of formal assessment IX. Reduce potential bias in traditional assessment practices X. Support conclusions via data convergence and multiple indicators Pre-referral procedures (1. - VIII.) Post-referral procedures (1. - VIII.)

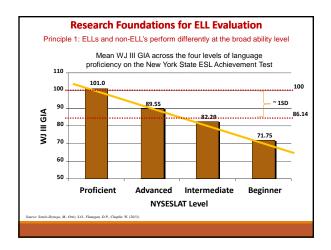
Summary of Research on the Test Performance of English Language Learners

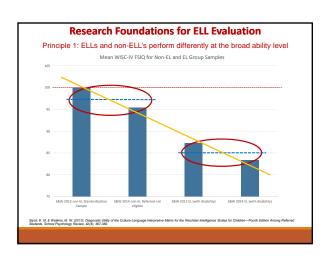
Research conducted over the past 100 years on ELLs who are non-disabled, of average ability, possess moderate to high proficiency in English, and tested in English, has resulted in two robust and ubiquitous findings:

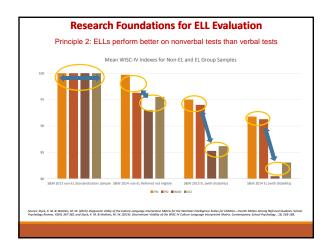
- Native English speakers perform better than English learners at the broad ability level (e.g., FSIQ) on standardized, norm-referenced tests of intelligence and general cognitive ability.
- 2. English learners tend to perform significantly better on nonverbal type tests than they do on verbal tests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

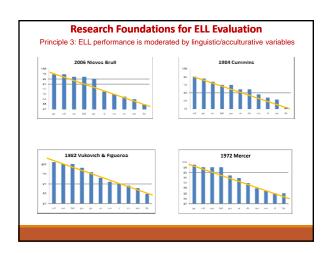
Instead, it appears that test performance of ELLs is not a dichotomy but rather a continuum formed by a linear, not dichotomous, attenuation of performance.

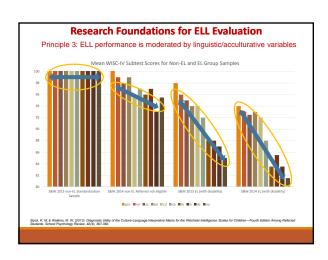
This means, a third principle is evident in the body of research on ELLs but has not been well understood or utilized in understanding test performance:

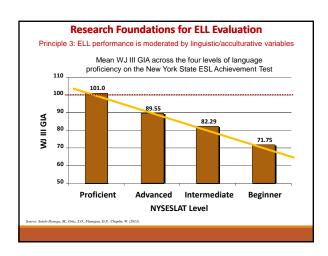
Test performance of ELLs is moderated by the degree to which a given test relies on or requires age- or grade-expected English language development and the acquisition of incidental acculturative knowledge.

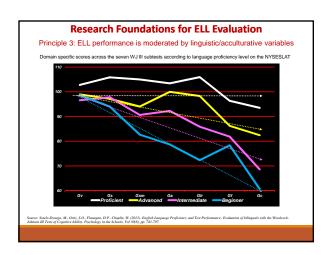
Research Foundations for ELL Evaluation ELL test performance is a linear, continuous pattern, not a dichotomy. Cultural Loading and Linguistic Demand Low Moderate Subtests can be arranged from high to low in accordance with the mean values reported by empirical studies for ELLs SS = 100 95 90 85 80 Tests requiring lower levels of age/grade related acquisition of culture and language result in higher mean scores

	Hispanic Group (Mercer) (1972)	(Mercer) (Vukovich & Figueroa)		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 Principle 3: ELL performance is moderated by linguistic/acculturative variables Mean subtest scores across the four WASI subtests and four WMLS-R subtests according to language proficiency level 70 LWI ANA DICT SIM BD

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 and acculturative variables.

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.

- 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.

Main Threats to Test Score Validity for ELLs

NO BIAS

- Test items (content, novelty)
- Test structure (sequence, order, difficulty) Test reliability
- Factor structure relationship of variables to each other)
- Predictive Validity (correlation with acaden success or achievement)

BIAS

- Construct Validity (nature and specificity of the intended/measured constructs)
- When a test measures an unintended variable...
- Incorrect Interpretation (undermines accuracy of evaluative judgments and meaning assigned to scores)

"As long as tests do not at least sample in equal degree a state of saturation [assimilation of fundamental experiences and activities] that is equal for the 'norm children' and the particular bilingual child it cannot be

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 & Lakin, 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

Evaluation Method	Norm sample representative of bilingual development	Measures full f range of ability constructs	Does not require bilingual evaluator	Adheres to the test's standardized protocol	Substantial research base on bilingual performance
Modified or Altered Assessment	×	✓	✓	×	×
Reduced-language Assessment	×	×	✓	✓	×
Dominant Language Assessment in L1: native	×	✓	×	✓	×
Dominant Language Assessment in L2: English	×	\	√	√	V
Addressing issues of fairness with respect to norm sample representation is an issue of validity and dependent on a sufficient research base.					

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.

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
 - 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 Billinguals – 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 standardised manner first in Inglish 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 careason 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

Step 2. Billingual Assessment — validate suspected areas of weakness (cross-language confirmation of deficit areas) • Review results and identify areas of suspected weakness or efficulty. • In For Georgia, review reviews executing to highly lect lin C-LM or in context of other data and information • For all other oblitice, evolute weakness using standard classifications (e.g., \$3 < 40) • Except for G., cet-stal of other areas of suspected weakness using native biospage tests

- - 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. If the right/ingit cell or Lun is within/spoore appected range, consider the destroying recommended of memory and an execution of the recommended of the recomm
- 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 obtained in English as a weakness
- obstances at English to a Westerlands

 If you save obtained in the malter language finalisates/disconfirms a weakness score obtained in English (notive SS > 90), consider it as a strength and

 If you have obtained in the native language and in English can only be interpreted relative to developmental and educational experiences of the

 Scores for GC obtained in the native language and in English can only be interpreted relative to developmental and educational experiences of the

 examine in each language and only an compared to others with similar developmental experiences.

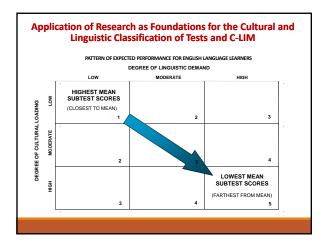
The Culture-Language Interpretive Matrix (C-LIM) Addressing test score validity for ELLs

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 valid (a minimal or only contributory influence of cultural and linguistic.) 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 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.

Application of Research as Foundations for the Cultural and **Linguistic Classification of Tests and C-LIM** PATTERN OF EXPECTED PERFORMANCE FOR ENGLISH LANGUAGE LEARNERS DEGREE OF LINGUISTIC DEMAND LOW MODERATE PERFORMANCE LEAST AFFECTED (MIMIMAL OR NO EFFECT OF CULTURE & LANGUAGE DIFFERENCES) LOW INCREASING EFFECT OF LANGUAGE DIFFERENCE DEGREE OF CULTURAL LOADING MODERATE PERFORMANCE MOST AFFECTED (LARGE COMBINED EFFECT OF CULTURE & LANGUAGE DIFFERENCES) INCREASING EFFECT OF CULTURAL DIFFERENCE HOH

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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 accultrative 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 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 ELIS and the C-LIMS 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:

- 1. 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;
- 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 linylistic 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 aggregate (or more) is below shaded range—test scores possibly valid, 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.

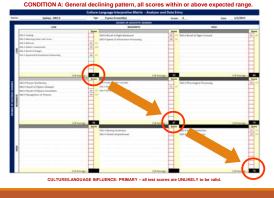
The Culture-Language Interpretive Matrix (C-LIM)

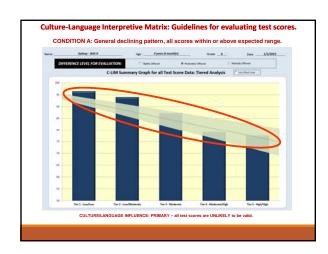
RANGE OF POSSIBLE OUTCOMES WHEN EVALUATING TEST SCORES WITHIN C-LIM

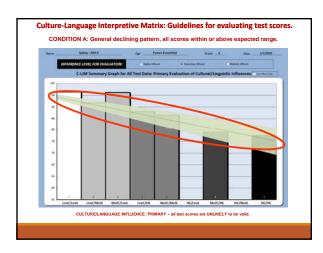
	Ageneral, overall pattern of decline exists?	All scores within or above the expected range?	All scores within or above the average range?	Degree of influence of cultural and linguistic factors	Likelihood that test scores are valid indicators of ability?
Condition A	Yes	Yes	No	Primary	Unlikely
Condition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

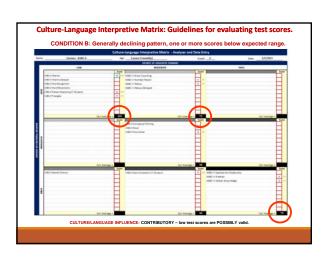
Culture-Language Interpretive Matrix: Guidelines for evaluating test scores.

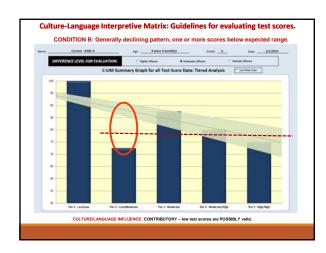
CONDITION A: General declining pattern, all scores within or above expe

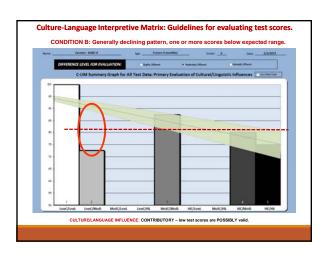


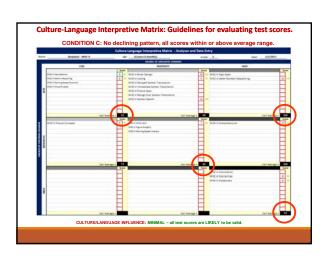


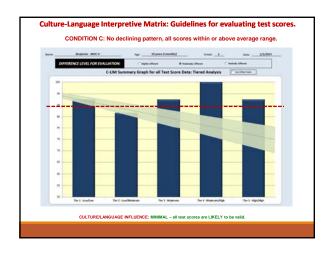


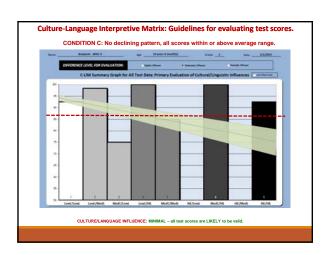


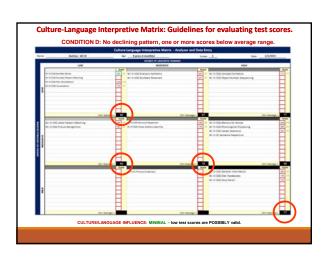


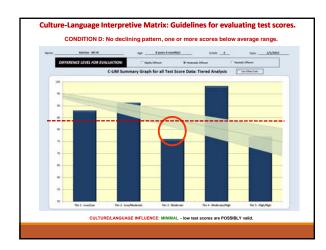


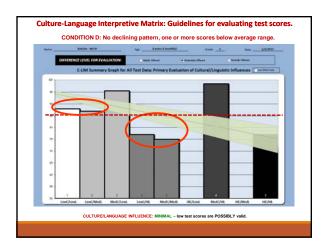












Research Foundations of the C-LIM Additional Issues in Evaluation of Test Score Patterns Evaluation of test score validity, particularly in cases where results are "possibly valid," includes considerations such as: 1. Is the Tiered graph consistent with the main Culture-Language graph or the other secondary (language-only/culture-only) graphs? 2. Is there any variability in the scores that form the aggregate in a particular cell that may be masking low performance? 3. Is the pattern of scores consistent with a developmental explanation of the examinee's educational program and experiences? 4. Is the pattern of scores consistent with a developmental explanation of the examinee's linguistic/acculturative learning experiences? Evaluation of results using all graphs, including secondary ones, identification of score variability in relation to CHC domains or task characteristics, and evaluation of educational, cultural, and linguistic developmental experiences assists in determining the most likely cause of score patterns and overall test score validity.

Evaluation of the 2013 Styck and Watkins* Study on Use of WISC-IV and C-LIM with English Language Learners

The main finding in the study is stated as follows:

"The valid C-LIM profile (i.e., cell means <u>did not decline</u>) emerged in the mean WISC-IV normative sample <u>and the ELL sample</u>." (p. 374). (emphasis added)

It is clear that the normative sample "did not decline" as their mean on every subtest was invariant,10.3 (SS=102). However, for the ELL sample, the highest mean was on Picture Concepts (SS=98) and lowest was on Vocabulary (SS=85). With minor variation, examination of the data in the following table strongly suggests a clear decline in the ELL sample's means.

"Source: Styck, K. M. & Watkins, M. W. (2013). Diagnostic Utility of the Culture-Language interpretive Matrix for the Wechsler Intelligence Scales for Children—Fourth Edition Among Referred Students. School Psychology Review, 42(4), 367-382.

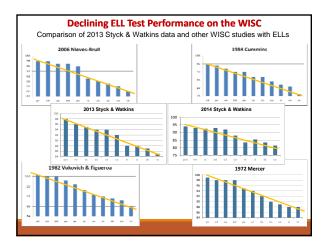
A Critical Review of Research on the C-LIM: Styck & Watkins

Decline or No Decline? Comparison of Means for WISC-IV Subtests

Norm Sample Mean ^a	ELL Mean 2013	Difference ^b	ELL Mean 2014	Difference ^b
102	98	4	94	8
102	96	6	93	9
102	95	7	93	9
102	94	8	93	9
102	94	8	92	10
102	92	10	88	14
102	88	14	84	18
102	88	14	86	16
102	87	15	84	14
102	85	17	82	20
	Sample Mean ^a 102 102 102 102 102 102 102 10	Sample Mean* ELL Mean 2013 102 98 102 96 102 95 102 94 102 94 102 94 102 88 102 88 102 88 102 87	Sample Mean* ELL Mean 2013 Difference* 102 98 4 102 96 6 102 95 7 102 94 8 102 94 8 102 92 10 102 88 14 102 88 14 102 87 15	Sample Mean* ELL Mean 2013 Difference* 2014 ELL Mean 2014 102 98 4 94 102 96 6 93 102 95 7 93 102 94 8 93 102 94 8 92 102 92 10 88 102 88 14 84 102 88 14 86 102 87 15 84

^a Means were reported in the study as Scaled Scores (e.g., 10.3). They have been converted here to Deviation IQ metric for the sake of simplic.
^b The difference between all 15 norm sample and ELI subtest and composite means were found to be statistically significant at the ps 001 level.

Source: Styck, R. M. & Watkins, M. W. (2012). Diagnostic Utility of the Culture-Language interpretive Matrix for the Wechsler intelligence Scales for Children—Fourth Edition Among Referred Students. Sch. Psychology Review, 42(4), 367-342. and 3tyck, K. M. & Watkins, M. W. (2014). Discriminant Validity of the WISC-IV Culture-Language Interpretive Matrix. Contemporary School Psychology, 18, 168-188.



Evaluation of the Styck and Watkins* Study on Use of WISC-IV and C-LIM with English Language Learners

Main conclusion in the study is stated as follows:

"Thus, <u>neither</u> sample of children exhibited the invalid C-LIM profile when group mean scores were considered" (p. 374) (emphasis added).

The "invalid C-LIM profile" would be indicated by a systematic decline in mean scores in the matrix meaning that the test results were influenced primarily by the presence of cultural and linguistic variables.

The C-LIM is intended to compare individual performance against the group, not evaluate group scores, especially from a population where 97% have identified disabilities. Nevertheless, with a sufficiently large sample such differences in performance are likely to become more and more randomly distributed. Moreover, the C-LIM is certainly subject to modification on the basis of additional quality research.

Source: Styck, K. M. & Watkins, M. W. (2013). Diagnostic Utility of the Culture-Language Interpretive Matrix for the Wechsler Intelligence Scales for Children—Fourth Edition Among Referred Students. School

Evaluation of the 2013 Styck and Watkins* Study on Use of WISC-IV and C-LIM with English Language Learners

But the study wasn't conducted with non-disabled ELLs:

"roughly 97% of (n = 83) of participants were identified as meeting criteria for an educational disability (86% as SLD)" (p. 371).

As noted previously, this suggests that individual C-LIM profiles should display <u>valid</u> results, not invalid, since valid results are needed to support the district's identification of a disability.

When individual C-LIM's for the ELL group were examined, they found that nearly 89.5% of the ELLs did in fact display valid results indicating that any low scores could well reflect a disability and indicating a very high degree of consistency with the clinical decisions made by the district's eligibility team.

"Source: Styck, K. M. & Wolkins, M. W. (2013). Diagnostic Utility of the Culture-Longuage Interpretive Matrix for the Wechsler Intelligence Scales for Children—Fourth Edition Among Referred Students. School Psychology Resiene, 42(4), 367-382.

Evaluation of the 2013 Styck and Watkins* Study on Use of WISC-IV and C-LIM with English Language Learners

		Different (ELL Group)	Standard (Norm Group)
WISC-IV C-LIM Analysis	Invalid Scores	6/3 (7.0%)/(3.5%)	100 (4.9%)
Analysis	Valid Scores	77 (89.5%)	1,933 (95.1%)

The authors noted that "roughly 97% of (n=83) of participants were identified as meeting criteria for an educational disability (86% as $SLD)^*(p.371)$. Yet, only 9 ELL cases (10.5%) resulted in invalid scores (no disability). Thus, the C-LIM suggested invalid scores in 9 cases, 3 of which were correct so that the C-LIM was consistent with and supported the placement decision of the child by the district in 93% of the cases.

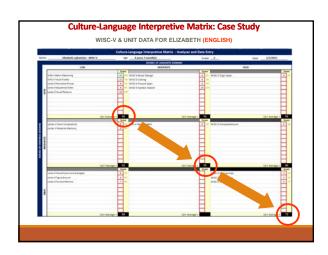
*Table adopted from: Styck, K. M. & Watkins, M. W. (2013). Diagnostic Utility of the Culture-Language Interpretive Matrix for the Wechsler Intelligence Scales for Children—Four Edition Among Referred Students. School Psychology Review, 42(4), 867-382.

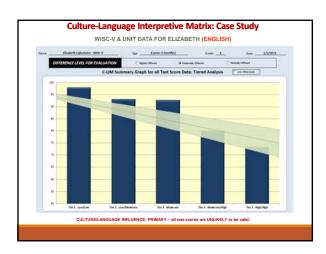
Research Foundations of the C-LIM Additional Issues in Evaluation of Test Score Patterns

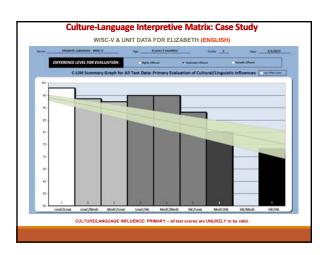
English learners are not a monolithic group with all of the same educational, cultural, and linguistic experiences. Consideration must always be given to these factors and the role they may be playing in setting the context for appropriate expectations of performance.

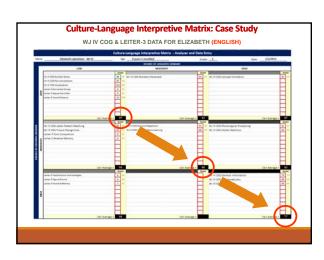
- 1. Evaluate consistency of score patterns across all graphs
- 2. Evaluate variability in scores with the same classifications in the matrix
- 3. Evaluate developmental factors related to education and experience
- 4. Evaluate developmental factors related to linguistic/acculturative experiences

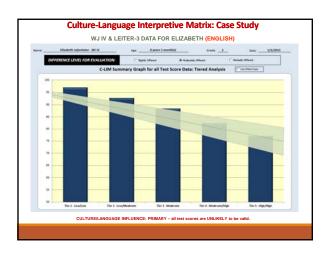
Failure to properly account for these issues may result in inequitable expectations of performance and discriminatory conclusions regarding an examinee's true or actual abilities or lack thereof.

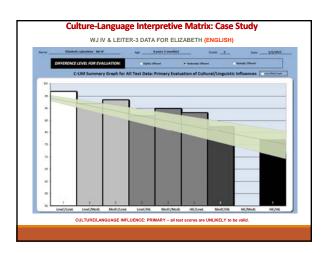


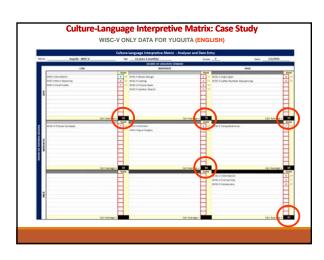


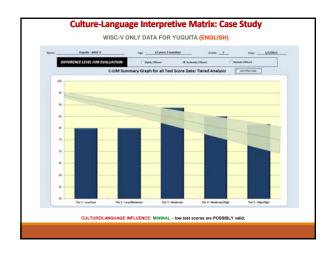


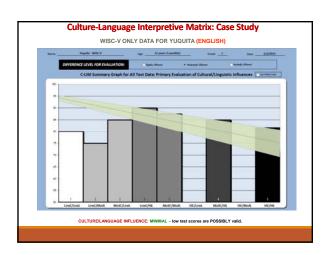


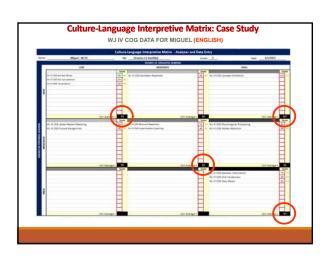


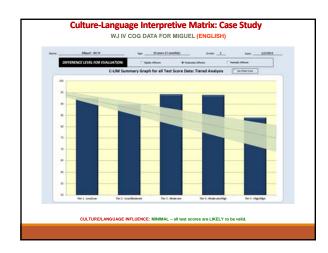


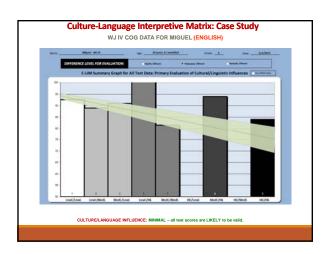


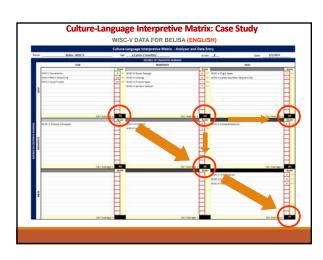


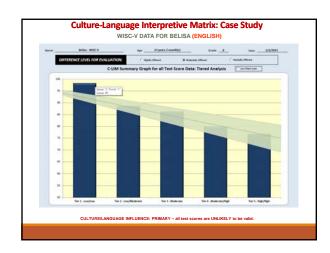


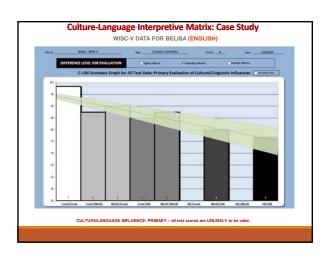


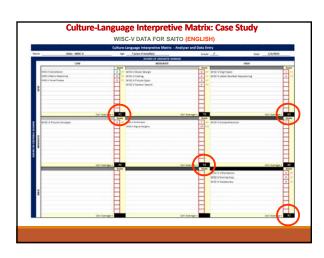


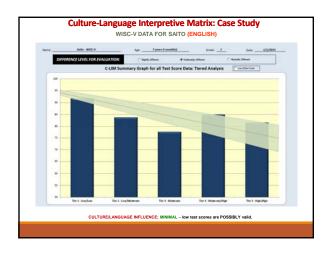


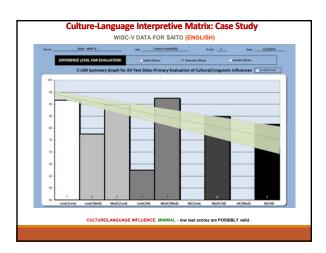




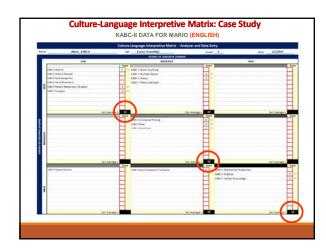


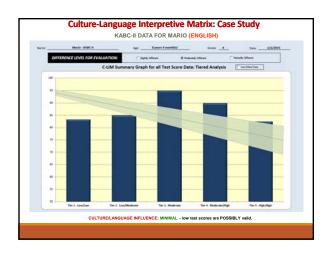


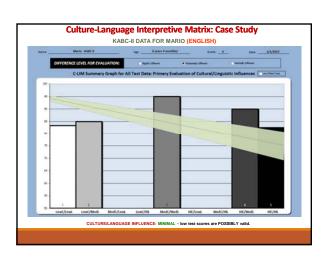


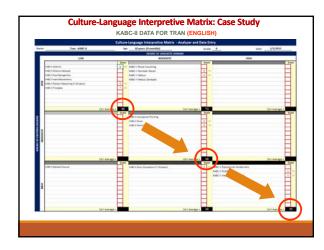


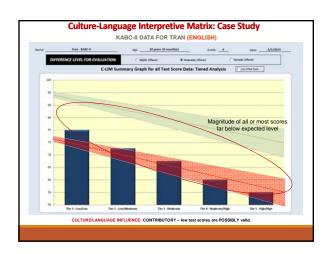
Nondiscriminatory Interpretation of Test Scores The Gc caveat for English Language Learners Because Gc is, by definition, comprised of cultural knowledge and language development, the influence of cultural and linguistic differences cannot be separated from tests which are designed to measure culture 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-LUM 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.

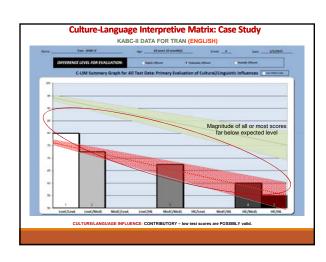




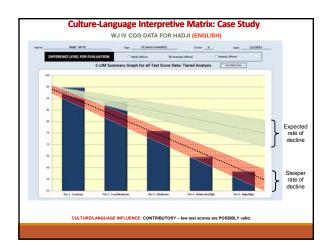


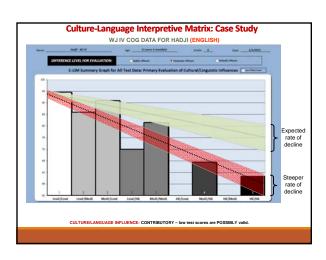


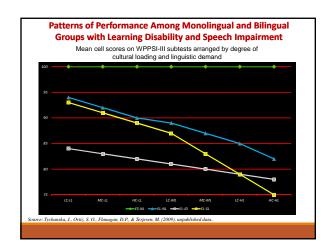




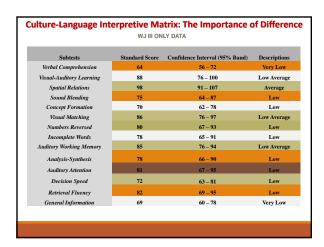


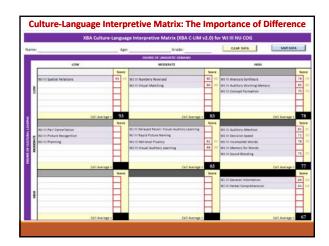


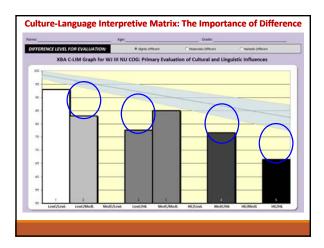


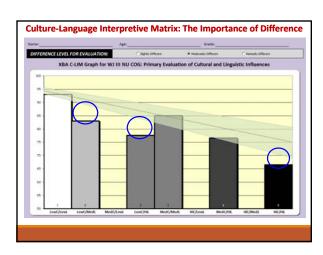


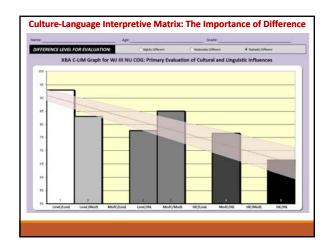












The Culture-Language Interpretive Matrix (C-LIM)

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.

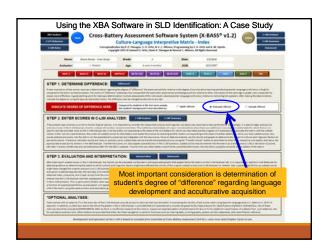
The C-LIM is not a language proficiency measure and will not distinguish native English speakers from English learners with high, native-like English proficiency and is not designed to determine if someone is or is not an English learner. Moreover, the C-LIM is not for use with individuals who are native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

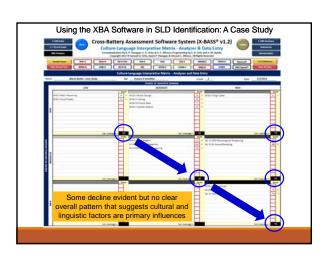
The C-UM is not designed or intended for diagnosing any particular disability but rather as a tool to assist clinician's in making decisions regarding whether ability test scores should be viewed as indications of actual disability or a mere reflection of differences in language proficiency and acculturative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

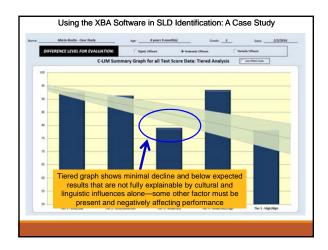
The C-LIM's primary purpose is to assist evaluators in ruling out cultural and linguistic influences as exclusionary factors that may have undermined the validity of test scores. Being able to make this determination is the primary and main hurdle in evaluation and the C-LIM can thus guide clinician's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

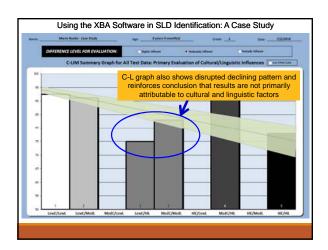
Using the XBA Software in SLD Identification: A Case Study WISC-VIWJ IV/WIAT-III XBA DATA FOR Maria WECHSLER INTELLIEGENCE SCALE FOR CHILDREN-V Werbal Comprehension Index 76 Fluid Reasonina Index 8 Block Design 9 Vocabulary 6 Figure Weights 8 Visual Puzzles 9 Working Memory Index 79 Focessing Speed Index 94 Digit Span 5 Coding 9 Ficture Span 7 Symbol Search 8 WECHSLER INDIVIDUAL ACHIEVEMENT TEST-III Basic Reading 94 Reading Comprehension 76 Spelling 100 Sentence Composition 86 Essay Composition 93 WOODCOCK JOHNSON-IV TESTS OF COGNITIVE ABILITY Auditory Processina 91 Ut Storage/Retrieval 77 Phonological Processing 99 Story Recall 79 Nonword Repetition 84 Visual-Auditory Learning 75

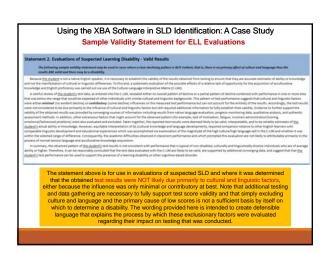
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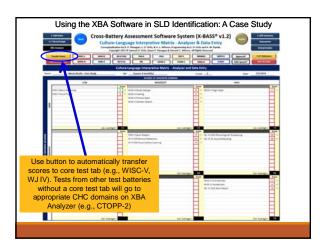


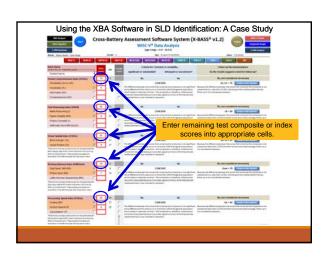


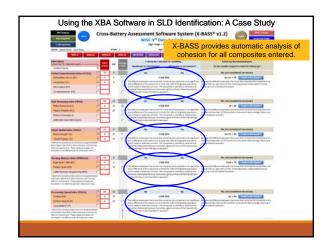


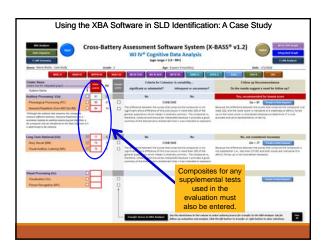


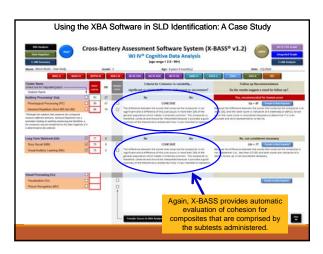
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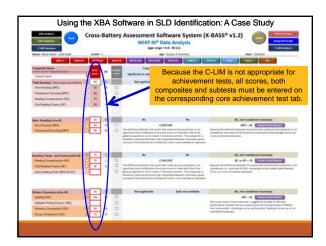












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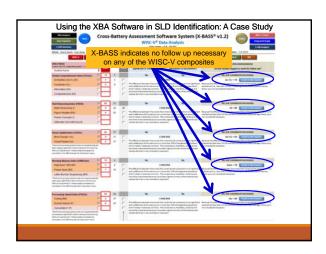
Step 6: Transfer cohesive composites (and academic subtests) to Data Organizer

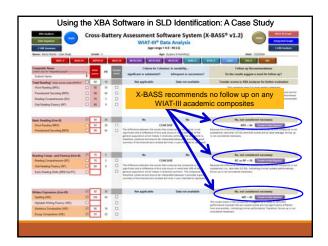
Step 7: Re-evaluate deficits using native language and compare to original scores

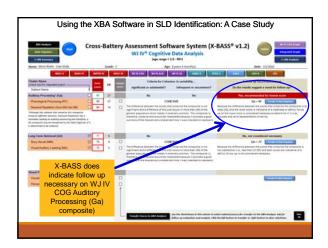
Step 8: Select and designate appropriate scores for PSW Analysis as strength or weakness

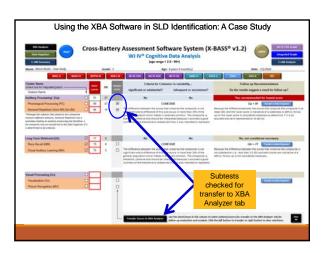
Step 9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer

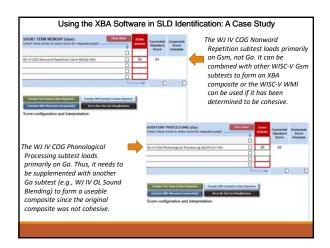
Step 10: Utilize the appropriate validity statement for the evaluation





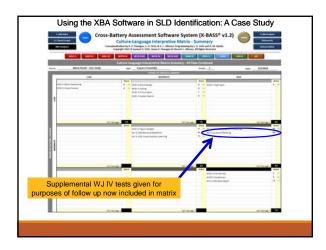


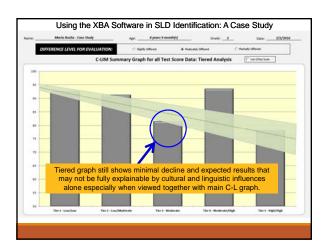


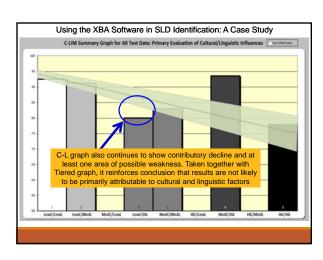


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ocabulary/	6	Figure Weights	8	Visual Puzzles	9
Working Memory Index	79	Processing Speed Index	94		
Digit Span	5	Coding	9		
Picture Span	7	Symbol Search	8		
Basic Reading	94	Reading Comprehension	<u>76</u>	Written Expression	<i>92</i>
Word Reading	92	Reading Comprehension	76 80		100 86
Seudoword Decoding	98	Oral Reading Fluency	80	Sentence Composition Essay Composition	93
WOODCOCK JOHNSON-IV	/ TESTS	OF COGNITIVE ABILITY		Lasay Composition	23
	91	LT Storage/Retrieval	77	Follow Up Testing	
Auditory Processing		Story Recall	79	WJ IV OL Sound Blending	88
Auditory Processing Phonological Processing	99				
		Visual-Auditory Learning	75		

Using the XBA Software in SLD Identification: A Case Study	
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Step 10: Utilize the appropriate validity statement for the evaluation

Using the XBA Software in SLD Identification: A Case Study Combining WISC-V subtests from Converted Composite Standard Score Analyses WMI creates a cohesive 3-subtest XBA composite. Although it's ok to use existing WMI, a 3subtest composite is more reliable than a 2-subtest test composite so the XBA composite is preferable and will be transferred to the Data Organizer. Follow up for Ga indicates that scores do form a cohesive 2subtest XBA composite. Thus. performance in auditory processing domain is within average range and the XBA composite will be transferred to Data Organizer.

Using the XBA Software in SLD Identification: A Case Study

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Using the XBA Software in SLD Identification: A Case Study Step 1: Enter all available subtest scores in C-LIM Analyzer to determine validity Step 2: When likely/possibly valid, transfer data and enter remaining composite scores Step 3: Use XBA to conduct follow up testing where indicated and necessary Step 4: Enter follow up tests and re-evaluate pattern with C-LIM Summary Step 5: If still likely/possibly valid evaluate results of follow up testing via XBA Analyzer Step 6: Transfer cohesive composites (and academic subtests) to Data Organizer Step 7: Re-evaluate deficits using native language and compare to original scores Step 8: Select and designate appropriate scores for PSW Analysis as strength or weakness Step 9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer Step 10: Utilize the appropriate validity statement for the evaluation

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 Go 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.

Nondiscriminatory Interpretation of Test Scores: A Case Study

Strengths and Weaknesses: When to re-test Gc

Re-evaluation of suspected areas of weakness is necessary to provide cross-linguistic confirmation of potential deficits in functioning. A disability cannot be identified in an English learner if the observed difficulties occur only in one language. Even then, deficits that are identified in both languages are not definitive evidence of dysfunction devaluation of expectations for native language performance is as relevant for native language evaluation as it is for evaluation in English.

Because of the nature of Gc, it should be treated slightly differently when it comes to re-evaluation as compared to other cognitive abilities. The following guidelines from the best practice recommendations apply spec

- Review results from testing in English and identify domains of suspected weakness or difficulty:
 a. For Gc only, evaluate weakness according to high/high cell in C-LIM or in context of other data and information

 The Company of the Compa
- - Gc only: a. If high/high cell in C-LIM is within/above expected range, consider Gc a strength and assume it is at least average (re-testing is not necessary) b. If high/high cell in C-LIM is below expected range, re-testing of Gc in the native language is recommended
- recommended

 For Gonly, scores obtained in the native language should only be interpreted relative to developmental and educational experiences of the examinee in the native language and only as compared to others with similar developmental experiences in the native language.

It is important that the actual, obtained Gc score, regardless of magnitude, be reported when required, albelt with appropriate nondiscriminatory assignment of meaning, and that it be used for the purposes of instructional planning and educational intervention.

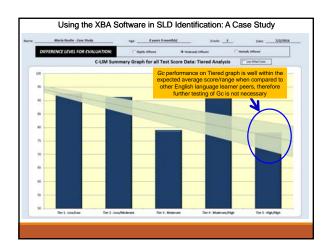
Recommended Guidelines for Using PSW-A with ELLs

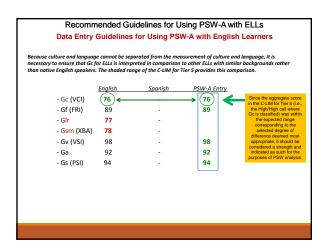
Data Entry Guidelines for Using PSW-A with English Learners

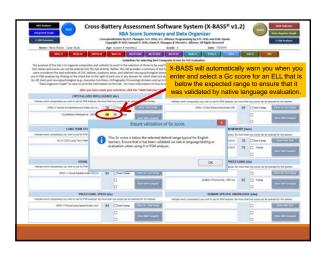
Because Maria is an English Learner, it is also necessary to re-administer tests that were possible weaknesses when tested in English. In this case, the following results were obtained:



Note: These scores, obtained from testing in English, were deemed to be in the average range (including the SS=89 for Gf) and therefore did not require further evaluation in the native language. They may be used as obtained for the purposes of PSW analysis.







Nondiscriminatory Interpretation of Test Scores: A Case Study Strengths and Weaknesses: When to re-test other (non-Gc) abilities

Because cultural knowledge and language ability are not the primary focus in measurement of other abilities, the influence of cultural/linguistic factors can be determined via the C-LMI and scores below the expected range of performance may well be deemed to be the result of factors other than cultural knowledge or language ability. Thus, there is no limitation requiring comparison of performance to a true ELL peer group as there is with Gc. Thus, use of a test's norms and the attendant standard classification scheme is appropriate for determining areas of suspected weakness using tests administered in English for abilities other than Gc.

However, to establish validity for a low score obtained from testing in English with an ELL, native language evaluation is required. The following guidelines from the best practice recommendation apply to all abilities, including Ge—when Ge has been determined to be a weakness because it falls below the expected range of difference in the C-LIM:

- Review results from testing in English and identify domains of suspected weakness or difficulty:
 a. For all abilities, except Gc, evaluate weakness using standard classifications (e.g., 55 < 90)
 Re-test all domains of suspected weakness, including Gc when it is not within the expected range of difference in the C-LIM, using native language tests
- In the C-LIM, using native language tests

 Administer native language test or conduct re-testing using one of the following methods:

 a. Native language test administered in the native language (e.g., WI III/Bateria III or WISC-IV/WISC-IV Spanish)

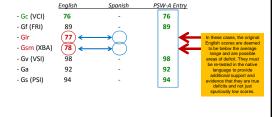
 b. Native language test administered via assistance of a trained interpreter

 c. English language test ranslated and administered via assistance of a trained interpreter

 Administer tests in manner necessory to ensure full comprehension including use of any modifications and alterations necessary to reduce barriers to performance, while documenting approach to tasks, errors in responding, and behavior during testing, and analyze scores both quantitatively and qualitatively to confirm and validate areas as true weaknesses

Recommended Guidelines for Using PSW-A with ELLs Data Entry Guidelines for Using PSW-A with English Learners

Because Maria is an English Learner, it is also necessary to re-administer tests in the native language that were identified as possible areas of weakness when tested in English. In this case, the following domains, Gir and Gsm, should be re-tested:



Using the XBA Software in SLD Identification: A Case Study WISC-V/WJ IV/WIAT-III XBA DATA FOR Maria

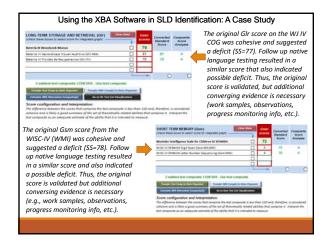
WECHSLER INTELLIEGENCE SCALE FOR CHILDREN-V Fluid Reasoning Index Matrix Reasoning Figure Weights Visual-Spatial Index Block Design Visual Puzzles

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79 81 78

Cessing Speed Index Working Memory Index Picture Spar Gsm and Glr needed to be re-tested in WISC IV Spanish WMI
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Letter-Number Sequencing osm and oin needed to be re-lested in the native language to confirm them as weaknesses. The same or similar tests can be used and scores may be generated but the purpose is to observe performance in the domain that validates difficulties even with full comprehension. WECHSLER INDIVIDUAL ACHIEVEMENT TEST-III 94 92 98 Reading Comprehe Reading Comprehe Pseudoword D ding Oral Reading Flue Essay Composition WOODCOCK JO NSON-IV TESTS OF 77 Follow Up Testing 91 99 84 Auditory Process
Phonological Pro LT Storage/Retrieval
Story Recall essing WJ IV OL Sound Blending 88

Nonword Repetation Visual-Auditory Lea Results of native language testing for Gsm (above) and Glr (to the right).



Nondiscriminatory Interpretation of Test Scores: A Case Study es: Which score to use for PSW analys

Average or higher scores in testing are unlikely to be due to chance. Thus, when a score obtained from native language testing is found to be in the average range or higher, it serves to effectively invalidate the original low score from English language testing since deficits must exist in both languages. Conversely, if another low score in the same domain is obtained from native language evaluation, it may serve to bolster the validity of the original score obtained in English.

Based on these premises, the following guidelines from the best practice recommendations of guidance regarding selection and use of the most appropriate and valid score for the purposes PSW analysis (or any other situation in which the validity of test scores is central or relevant):

- For all domains, including GC, if a score obtained in the native language suggests a domain is a strength (SS > 90), it serves to invalidate/disconfirm the corresponding weakness score obtained in English—thus, report, use, and interpret the domain score obtained in the native language
- For all domains, except G. if a some obtained in the native language also suggests weakness in the same domain (\$\$ < \$0\$), it serves to validate/confirm the corresponding weakness score obtained in English—thus, report, use, and interpret the original admain score obtained in English).

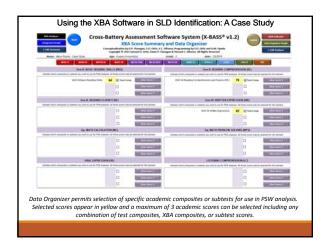
 For G. only, if a score obtained in the native language also suggests weakness in G. (\$\$ < 90), it may serve to validate/confirm the corresponding weakness score obtained in Fighlish but only if low performance in G. cannot be attributed to factors related to a lock or interruption of native language instruction and education, low family 85 or other lack of apoptrularly to learn—thus, in the absence of such mitigating factors, report, use, and interpret the domain score obtained in English

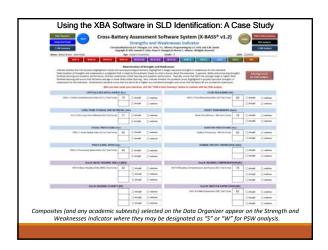
Recommended Guidelines for Using PSW-A with ELLs POSSIBLE OUTCOMES WHEN TEST SCORES ARE RE-EVALUATED IN THE NATIVE LANGAUGE Follow up score when tested in native For ALL domains SS > 90 n/a SS ≥ 90 For ALL domains For ALL domains SS < 90 SS < 90 (except Gc)

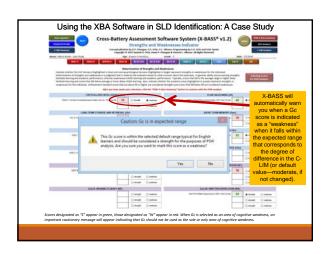
Recommended Guidelines for Using PSW-A with ELLs Data Entry Guidelines for Using PSW-A with English Learners To provide cross-linguistic validation and support (or to possibly refute their validity) the domains in which Maria appeared to have possible deficits were re-evaluated using the native language. Re-testing of Maria's abilities in Spanish in the areas of Gir and Gsm produced the following results: English Spanish - Gc (VCI) 76 76 - Gf (FRI) 89 89 (77)←─── 79 77* 78* - Glr (78)**←** - Gsm (XBA) **→** 72 - Gv (VSI) 98 98 - Ga 92 92 - Gs (PSI) 94 94 Table: Although the notive language scores or slightly higher in one case and slightly lower in the other, both or still indicative of weaknesses and size was to belater the widthing of the cotanies covers in the same dominist when tested in english. Thus, the original score from testing in English are even more supported and thus remain the most defensible scores for use in the PSWA. If, however, ony of the native hanguage scores had been found to be everage or higher (SS-90), they would then hove refuge that the original scores obtained in English by because they represent valid indications of at least overage ability and would then her the most appropriate score for use in PSW analysis.

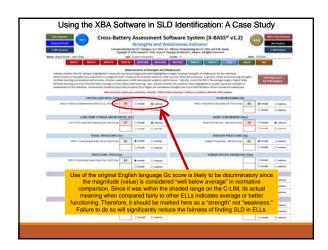
Using the XBA Software in SLD Identification: A Case Study Step 1: Enter all available subtest scores in C-LIM Analyzer to determine validity Step 2: When likely/possibly valid, transfer data and enter remaining composite scores Step 3: Use XBA to conduct follow up testing where indicated and necessary Step 4: Enter follow up tests and re-evaluate pattern with C-LIM Summary Step 5: If still likely/possibly valid evaluate results of follow up testing via XBA Analyzer Step 6: Transfer cohesive composites (and academic subtests) to Data Organizer Step 7: Re-evaluate deficits using native language and compare to original scores Step 8: Select and designate appropriate scores for PSW Analysis as strength or weakness Step 9: Evaluate scores and results from PSW-A Data Summary and PSW Analyzer Step 10: Utilize the appropriate validity statement for the evaluation

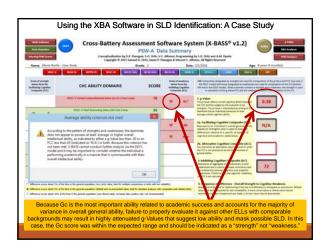
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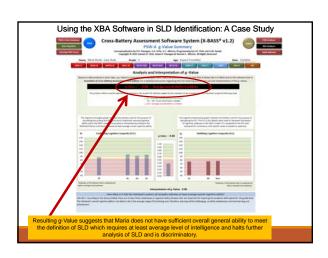


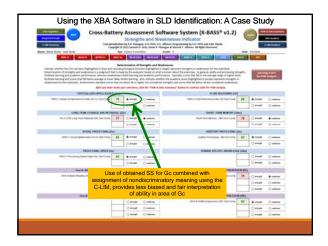




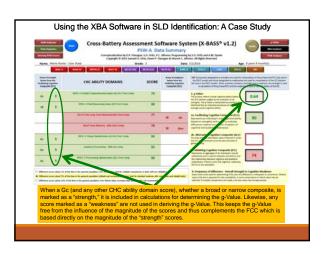


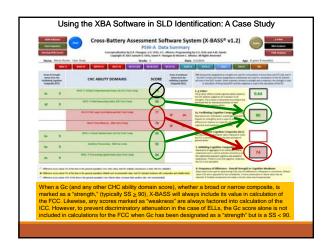


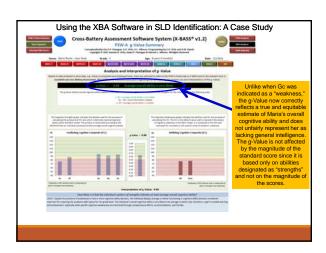


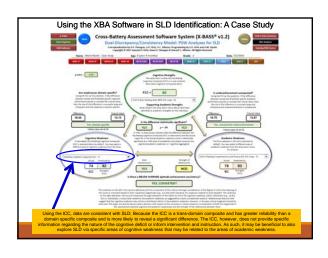


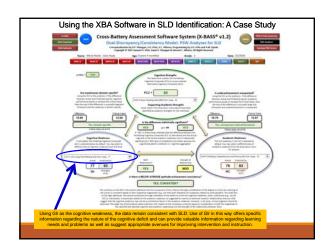
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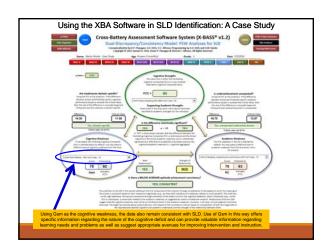


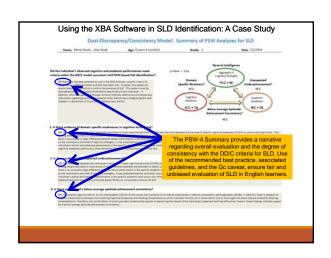












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Step 10: Utilize the appropriate validity statement for the evaluation	
Using the XBA Software in SLD Identification: A Case Study	1
Sample Validity Statement for ELL Evaluations	
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The statement above is now considered to be fully supported and is appropriate for this case where the evaluation focused on suspected SLD and where it was determined that the obtained test results	
were NOT due primarily to cultural and linguistic factors, albeit they remained contributory. Additional native language testing was conducted in this case to further support test score validity and to systematically exclude culture and language and the primary cause of low scores and the observed	
academic difficulties. These statements have been placed in the public domain and may be freely copied, modified, and distributed for non-profit purposes without the need to secure permission.	
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Using the XBA Software in SLD Identification: A Case Study Sample Validity Statement for ELL Evaluations	
Statement 1. Evaluations of Suspected Learning Disability - Invalid Results	
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The C-LIM "Statements" tab provides four sample validity statement narratives, including two for evaluation of SLD (one where results are likely invalid, and one where results are possibly valid), and	
two others that are relevant to the evaluation of intellectual disability and speech-language impairment. Note that these statements pertain only to the use of the C-LIM and the manner in which the obtained scores were deemed to be valid or invalid relative to cultural and linguistic factors.	
The statement above is for use in evaluations of suspected SLD and where it has been initially	
determined that the obtained test results were likely due primarily to cultural and linguistic factors. The wording provided is intended to create defensible language that explains the process by which	
these exclusionary factors were evaluated regarding their impact on testing that was conducted.	

The Culture-Language Interpretive Matrix (C-LIM)

Summary of Important Facts 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 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. Being able to make this determination is the primary and main hurdle 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 acculturationlanguage proficiencysocio-economic status

- 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 practical approach</u>. New York: Guilford.

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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.

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

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



