# Assessment of Culturally and Linguistically Diverse Students:

Evidence-based Evaluation and Practice.



Ohio School Psychologists Association

> Columbus, Ohio November 8, 2012

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

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission

#### Cultural and Linguistic Issues in Early Testing

The newly transformed Binet Scales were thought to provide a psychometric tool that could precisely measure intelligence independent of other factors. To maintain this perspective required unquestioned belief that:

- Intelligence was genetic, innate, static, immutable, and largely unalterable by experience, opportunity, or environment
- Whether or not you fully comprehended or spoke English did not significantly affect testing
- Familiarity with and knowledge of U.S. culture had no bearing on intelligence test performance
- Being raised in another culture or having different cultural experiences was irrelevant

"Intelligence is what intelligence tests measures" (Boring, 1923), and that means that "you are what the test says you are."  $\,$ 

 Being bilingual was itself the problem because it resulted in a "mental handicap" measured accurately by poor performance on intelligence tests and thus substantiating its detrimental influence

Inless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

#### $\label{lem:cultural} \mbox{Cultural and Linguistic Issues in Early Testing: A lasting legacy.}$

Much of the these original perspectives and ideas regarding the meaning of test results, particularly with respect to cultural and linguistic differences, remain embedded in various ways in present day tests:

Very Superior
Superior
High Average
Average
Low Average
Borderline
Deficient

Precocious
Superior
Normal
Borderline
Moron
Imbecile

In 1974, the following question was asked on the WISC-R: - Who discovered America?

In 1991, with "attention" to issues regarding cultural fairness, the same question on the

WISC-III was "changed" to:
- Who was Christopher Columbus?

Inless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

#### The Testing of Bilinguals: Early influences and a lasting legacy.

#### H. H. Goddard and the

#### menace of the feeble-minded

 The testing of newly arrived immigrants at Ellis Island

#### Lewis Terman and the Stanford-Binet

• America gives birth to the IQ test of inherited intelligence

# Robert Yerkes and mass mental testing

 Emergence of the bilingualethnic minority "handicap"

# Property state the empires of the National Research Consult NATIONAL INTELLIGENCE TESTS By M. E. Harrawere, J. M. Transacce, L. Transacces On M. Worstran, and J. M. Transacces, L. Transacces On M. Worstran, and J. M. Transacces, L. Transacces On M. Worstran, and J. M. Transacces, L. Transacces Transacces, J. M. Worstran, and J. M. Transacces Transacces, J. M. Worstran, and J. M. Transacces The mining marines was about steme. They care decided in outer to appropriate the state of the st

Unless otherwise indicated information contained in this packet and the layout design are Convight © 2008. May not be reproduced without permission

# The Testing of Bilinguals: Early influences and a lasting legacy. Mean Mental Age (MA) from Binet Scales in a non-native English speaking sample from Yerkes' data as analyzed by C.C. Brigham (1921) Average Mental Age 13.50 13.74 Average Mental Age 12.53 13.08 Average score for native English speakers on Beta = 101.6 (Very Superior; Grade A) Average score for non-native English speakers on Beta = 177.8 (Average; Grade C)

#### Bilingualism and Testing

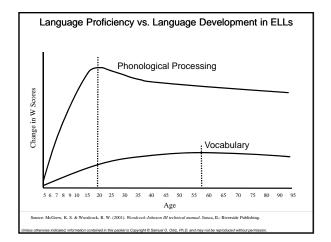
• Interpretation: New immigrants are inferior

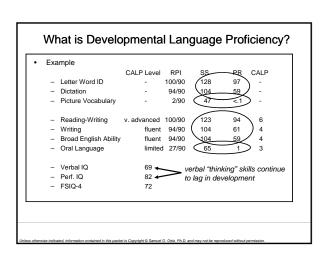
Instead of considering that our curve indicates a growth of intelligence with increasing length of residence, we are forced to take the reverse of the picture and accept the hypothesis that the curve indicates a gradual deterioration in the class of immigrants examined in the army, who came to this country in each succeeding 5 year period since 1902...The average intelligence of succeeding waves of immigration has become progressively lower.

Brigham, 1923

sless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission

# Stages of Language Acquisition Pre-Production/Comprehension (no B/CS) Sometimes called the altern period, where the individual concentrates completely on figuring out what the new beautiful the concentration of the production skills. Children typically may delay speech in L2 from one to six weeks or longer. • Bisten, point, match, draw, move, choose, mime, act out Early Production (early B/CS) Speech begins to emerge naturally but the primary process continues to be the development of listening comprehension. Early speech will contain many errors. Typicall examples of progression are: • yes/no questions, Bists of words, one word answers, two word strings, short phrases Speech Begins (Intermediate BICS) with a wider vocabulary range. Numbers of errors will slowly decrease. • three words and short phrases, dialogue, longer phrases • attended discourse, complete sentences where appropriate, narration Intermediate Fluency (advanced BICS/emerging CALP) Intermediate Fluency (advanced B

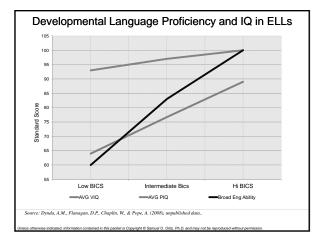




#### What is Developmental Language Proficiency?

- Can read the following words:
   Great, become, might, shown, explain, question, special, capture, swallow
- Cannot name the following pictures:
   Cat, sock, toothbrush, drum, flashlight, rocking chair
- Can understand simple grammatical associations:
- Him is to her, as \_\_\_ is to she
  Cannot express abstract verbal similarities:

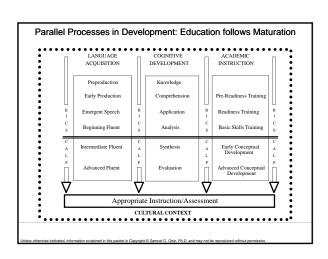
- Red-Blue: "an apple"
  Circle-Square: "it's a robot"
  Plane-Bus: "the plane is white and the bus is orange"
- Shirt-Jacket: "the shirt is for the people put and the jacket is for the people don't get cold"



# Understanding First and Second Language Acquisition Basic Interpersonal Communication Skills (BICS) • ability to communicate basic needs and wants, and ability to carry on basic interp • takes 1 - 3 years to develop and is insufficient to facilitate academic success Countitive Academic Language Proficiency (CALP) • ability to communicate thoughts and ideas with clarity and efficiency • ability to carry on advanced interpersonal conversations • takes at least 5-7 years to develop, possibly longer and is required for academic success Cummins' Developmental Interdependence Hypothesis ("Teobera Model") • BICS is the small visible, surface level of language. CALP is the larger, indien, deeper structure of language • auch language has a unique and Separate Underlying Proficiency (SUP) • proficiency in I.1 is required to develop proficiency in IZ. Common Underlying Proficiency (CUP) facilities smaller of cognitive skills BICS - L2 SUP - L1 SUP-L2 COMMON UNDERLYING PROFICING CUP) CALP-L2

# 

Туре	Stage	Language Use			
		FIRST GENERATON – FOREIGN BORN			
Α	Newly Arrived	Understands little English. Learns a few words and phrases.			
Ab	After several years of residence – Type 1	Understands enough English to take care of essential everyday needs. Speaks enough English to make self understood.			
Ab	Type 2	Is able to function capably in the work domain where English is required. May still experience frustration in expressing self fully in English. Uses immigrant language in all other contexts where English is not needed.			
		SECOND GENERATION – U.S. BORN			
Ab	Preschool Age	Acquires immigrant language first. May be spoken to in English by relatives or friends. Will normally be exposed to English- language TV.			
Ab	School Age	Acquires English. Uses it increasingly to talk to peers and siblings. Views English-language TV extensively. May be literate on in English if schooled exclusively in this language.			
AB	Adulthood – Type 1	At work (in the community) uses language to suit proficiency of other speakers. Senses greater functional ease in his fir language in spite of frequent use of second.			
AB	Adulthood – Type 2	Uses English for most everyday activities. Uses immigrant language to interact with parents or others who do not speak Englis is aware of vocabulary gaps in his first language.			
		THIRD GENERATION – U.S. BORN			
AB	Preschool Age	Acquires both English and immigrant language simultaneously. Hears both in the home although English tends to predominate			
aB	School Age	Uses English almost exclusively. Is aware of limitation sin the immigrant language. Uses it only when forced to do so by circumstances. Is literate only in English.			
aB	Adulthood	Uses English almost exclusively. Has few opportunities for speaking immigrant language. Retains good receptive competence in this language.			
		FOURTH GENERATION – U.S. BORN			
Ba	Preschool Age	Is spoken to only in English. May hear immigrant language spoken by grandparents and other relatives. Is not expected to understand immigrant language.			
Ba	School Age	Uses English exclusively. May have picked up some of the immigrant language from peers. Has limited receptive competence in this language.			
В	Adulthood	Is almost totally English monolingual. May retain some receptive competence in some domains.			



#### Popular Misconceptions about Language Acquisition, Learning and Development

Accent IS NOT an indicator of proficiency—it is a marker regarding when an individual first began to hear/learn the language

- Children DO NOT learn languages faster and better than adults do—they only seem to because they have better pronunciation but CUP aids adult learners considerably
- Language development CAN NOT be accelerated—but having developed one language to a high degree (CALP) does help in learning a second language more easily
- Learning two languages DOES NOT lead to a kind of linguistic confusion—there is no evidence that learning two or more language simultaneously produces any interference
- Learning two languages DOES NOT lead to poor academic performance—on the contrary, students who learn two languages very well (CALP in both) tend to outperform their monolingual peers in school
- Code-switching IS NOT an example of a language disorder and poor grammatical <u>ability</u>—it is only an example of how bilinguals use whatever words may be necessa communicate their thoughts as precisely as possible, irrespective of the language

#### 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 bias in traditional assessment practices
- X. Support conclusions via data convergence and multiple indicators

Pre-referral procedures (I. - VIII.) Post-referral procedures (IX. - X.)

#### The Nature of Bias in Tests and Testing - It's not what you think.

#### NO BIAS

#### Test items (content, novelty)

- Test structure
- (sequence, order, difficulty)
- Test reliability
- Factor structure (theoretical structure, composite scores)
- Prediction

#### BIAS

Test Validity (specificity and validity of measured constructs)

#### Test Selection

(matching examinee with test's dimensions of cultural loading or linguistic demand)

#### Test Interpretation

(confidence in evaluative judgments and meaning assigned to derived scores)

"Intelligence tests are not tests of intelligence in some abstract, culture-free way. They are measures of the ability to function intellectually by virtue of knowledge and skills in the culture of which they are a sample" Scarr, 1978, p. 339.

"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 billingual child it cannot be

Integration of RTI Within General Educatio Framewo

# What Factors Most Threaten the Validity of Test Performance?

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

Lohman, Korb & Lakin, 2008, p. 276-278.

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

#### Nondiscriminatory Assessment: Processes and Procedures

#### IX. REDUCE BIAS IN TRADITIONAL TESTING PRACTICES

#### Exactly how is evidence-based, nondiscriminatory assessment conducted?

- . Modified Methods of Evaluation
  - · Modified and altered testing
- Nonverbal Methods of Evaluation
  - Language reduced assessment
- Native Language Evaluation
  - Bilingual assessmen
- English Language Evaluation
  - · Assessment of bilinguals

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

#### Nondiscriminatory Assessment: Processes and Procedures

#### ISSUES IN MODIFIED METHODS OF EVALUATION

#### Modified and Altered Assessment:

- "testing the limits:" alteration or modification of test items or content, mediating task concepts prior to administration, repeating instructions, accepting responses in either language, and eliminating or modifying time constraints may all help the examinee perform better, but violates standardization
- "translator/interpreter:" use of a translator/interpreter for administration helps overcome the language barrier but also undermines score validity, even when the interpreter is highly trained and experienced; tests are not usually normed in this manner
- alterations or modifications are perhaps most useful in deriving qualitative information—observing behavior, evaluating learning propensity, evaluating developmental capabilities, analyzing errors, etc.
- a recommended procedure would be to administer tests in a standardized manner first, which will potentially allow for later interpretation, and then consider any modifications or alterations that will further inform the referral questions

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

-		
-		

# Nondiscriminatory Assessment: Processes and Procedures <u>ISSUES IN NONVERBAL METHODS OF EVALUATION</u>

#### Language Reduced Assessment:

- "nonverbal testing:" use of language-reduced ( or 'nonverbal') tests are helpful in overcoming the language obstacle, however:
- it is impossible to administer a test without some type of communication occurring between examinee and examiner, this is the purpose of gestures/pantomime
- some tests remain very culturally embedded—they do not become culture-free simply because language is not required for responding
- construct underrepresentation is common, especially on tests that measure fluid reasoning
  (Gf), and when viewed within the context of CHC theory, some batteries measure a narrower
  range of broad cognitive abilities/processe, particularly those related to verbal academic
  skills such as reading and writing (e.g., Ga and Gc) and mathematics (Gq)
- all nonverbal tests are subject to the same problems with norms and cultural content as verbal tests—that is, they do not control for differences in acculturation and language proficiency which may still affect performance, albeit less than with verbal tests
- Language reduced tests are helpful in evaluation of diverse individuals and may provide better estimates of true functioning in certain areas, but they are not a whole or completely satisfactory solution with respect to fairness and provide no information about dysfunction in the most common areas of referral (i.e., reading and writing) or in mathematics

Unions otherwise indicated information contained in this packet in Conwints (9 Samuel O. Ortic Rh.D. and may not be convolved without permission

#### Nondiscriminatory Assessment: Processes and Procedures

#### **ISSUES IN NATIVE LANGUAGE EVALUATION**

#### Bilingual Assessment:

- refers to the assessment of bilinguals in a bilingual manner by a bilingual psychologist
- the bilingual psychologist is in a position to conduct assessment activities in a manner (i.e. bilingually) that is not available to the monolingual psychologist even with the aid of interpreter
- bilingual assessment is a relatively new research tradition with little empirical support to guide appropriate activities or upon which to base standards of practice
- there are no truly "bilingual" tests or assessment protocols and not much is yet known about the performance of bilinguals on monolingual tests administered in the primary language
- the relative lack of competent, trained, and qualified bilingual psychologists limits the chances that students will be evaluated in this way, especially in languages other than Spanish

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

#### Nondiscriminatory Assessment: Processes and Procedures

#### ISSUES IN ENGLISH LANGUAGE EVALUATION

#### Assessment of Bilinguals:

- refers to the assessment of bilinguals in a monolingual manner by a monolingual psychologist
- extensive research exists regarding performance of bilinguals on tests given in English
- goal is to reduce bias to maximum extent possible even through the use of tests given in English
- testing in English allows for the use of systematic methods based on established literature and research for collecting and interpreting data in a nondiscriminatory manner (e.g., CHC Culture-Language Interpretive Matrix)
- does not require that the evaluator speak the language of the child but does require competency, training and knowledge, in nondiscriminatory assessment including the manner in which cultural and linguistic factors affect test performance

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission

$\sim$	
×	
r )	

#### Nondiscriminatory Assessment: **Evaluation Methods and Evidence-based Practice**

Evaluation Method	Norm sample representative of bilingual development	Measures full 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	*	<b>✓</b>	✓	×	*
Reduced-language Assessment	×	×	✓	✓	×
Native-Language Assessment	*	<b>✓</b>	×	✓	×
English-Language Assessment	*	✓	✓	✓	✓

A Recommended Best Practice Approach for Evaluating I	ELLs
---	------

#### Step 1. Assessment of Bilinguals – ruling out difference vs. disorder:

- Select or create an appropriate battery that is comprehensive and responds to the needs of the referral concerns, irrespective of language differences
   Administer all tests in standardized manner in English only, no modifications
- · Score tests and plot them for analysis via the C-LIM
- If analysis indicates expected range and pattern of decline, evaluation ends, no disability is likely
- 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. Bilingual Assessment – validation of disorder in other language:

- Review prior results and create a select set of tests related to the areas where the suspected weaknesses or difficulties were noted
- Select tests that are as parallel as possible to the original tests using one of 3 methods:
  Native language test administered in the native language (e.g., WJ III/Bateria III or WISC-IV/WISC-IV Spanish)
  Native language test administered via assistance of a trained interpreter

- Informally translated test administered via assistance of a trained interpreter
   Administer all tests in any manner necessary to ensure full comprehension including use of modifications and alterations
- Observe and document approach to tasks, errors in responding, and behavior during testing
- Analyze data both quantitatively and qualitatively to evaluate areas of weakness or difficulty
   If areas of weakness do not match areas of weakness from Step 1 analyses, disability NOT likely
   If areas of weakness match areas of weakness from Step 1 analyses, disability is likely

tained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be rep

# Acquisition of Language and Cultural Knowledge are Developmental Processes Embedded in Tests

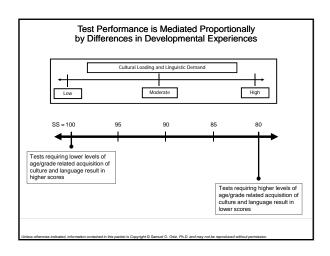
#### Tests require age/grade related acquisition of culture (knowledge):

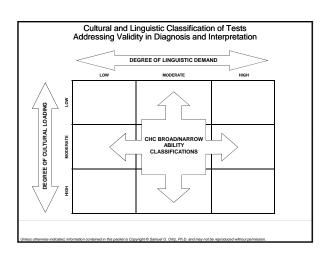
the majority of tests used by psychologists were developed and normed in U.S. and inherently reflect native anthropological content as well as the culturally bound conceptualizations of the test developers themselves. Many tests require specific prior knowledge of, experience with, and even fluency regarding mainstream U.S. culture

#### Tests require age/grade related acquisition of language (communication):

linguistic factors affect administration, comprehension, responses, and performance on virtually all tests. Even nonverbal tests that reduce oral language requirements continue to rely on effective communication between examiner and examinee in order to measure optimal performance

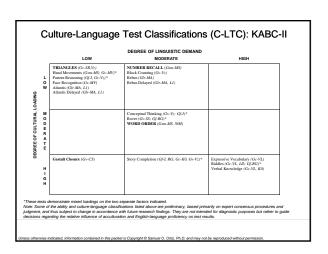
<u>Tests vary on both dimensions:</u>
 Tests vary significantly with respect to the degree that they are culturally loaded as well as the degree of language required

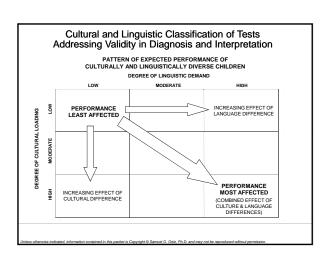




LOW   MODERATE   HIGH	
Cancellation (Gs-P,R9)	
O Parmer Concepts (Ge-EU, Gf-I)*  E  R  A	CING (Gsm-MW
E	
Picture Completion (G-All, Gr-CF)*   INFORMATION (G-B)	

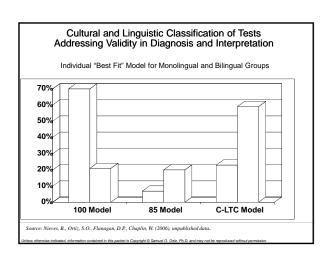
		DEGREE OF LINGUISTIC DEMAND	
	LOW	MODERATE	HIGH
L O W	SPATIAL RELATIONS (Gr-VZ, SR)	VISUAL MATCHING (Gs-P, 89) NUMBERS REVERSED (Gsm-MW)	CONCEPT FORMATION (GJ-I) ANALYSIS SYNTHESIS (GJ-RC) AUDITORY WORKING MEMORY (Gim-MW)
M O D E R A T E	Picture Recognition (Gr-MV) PLANNING (Gr-SS) PAIR CANCELLATION (Gr-89)	VISUAL ALDITORY I ELENNIG (Gb-M4) Delayed Recall – Visual Andhery Learning (Gb-M4) RAPID PICTURE NAMING (Gb-N4)	MEMORY FOR WORDS (Con-MS) NECOMPLETE WORDS (Co-SC) SOUND BLEXING (Co-SC) SOUND BLEXING (Co-SC) DECISION SPEED (Co-Sd)
H I G H			VEREAL COMPREHENSION (Gc-VL,LD) GENERAL KNOWLEDGE (Gc-K0)





#### Cultural and Linguistic Classification of Tests Addressing Validity in Diagnosis and Interpretation Which model fits monolinguals and bilinguals best? Predicted Best Fit: Monolingual 100 100 Predicted Best Fit: Neither Predicted Best Fit: Bilingual

Addressing Validity in Diagnosis and Interpretation				
Summary of Total Mean	Squared Differer	nce Scores	for Specified	d Models
Difference Scores	Mono	Monolingual		gual
	М	SD	М	SD
100 Model	13.43	3.52	14.18	3.75
85 Model	19.63	6.36	14.41	4.89
C-LTC Model	17.17	5.25	12.16	3.59



#### Cultural and Linguistic Classification of Tests Addressing Validity in Diagnosis and Interpretation

Pattern of Scores on the Wechsler Subtests

Subtest	Monolingual	Bilingual	Difference	
VOC	103.75	87.67	-16.08	
INF	99.57	86.30	-13.27	
SIM	103.68	91.12	-12.56	
COM	100.66	89.88	-10.78	
ARI	98.11	89.35	-8.76	
CD	105.57	98.21	-7.36	
PC	99.91	97.92	-1.99	
PA	97.36	96.14	-1.22	7 7
OA	96.89	96.70	-0.19	
BD	97.08	97.29	0.21	V

Source: Nieves, B., Ortiz, S.O., Flanagan, D.P., Chaplin, W. (2006), unpublished data...

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

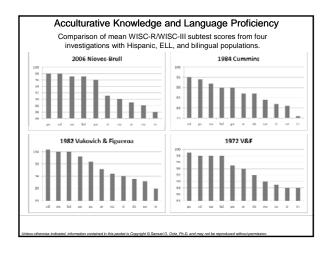
#### Acculturative Knowledge and Language Proficiency

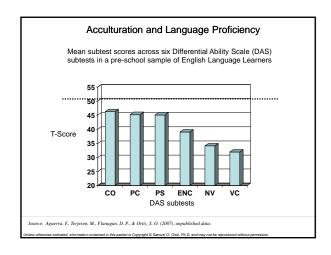
Comparison of mean WISC-R/WISC-III subtest scores

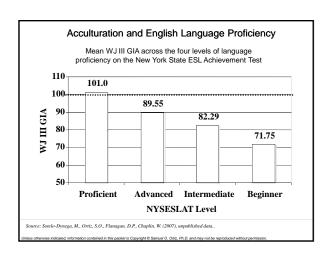
	Hispanic Group (Mercer) (1972)	Hispanic Group (Vukovich & Figueroa) (1982)	(Cummins) (1982)	Bilingual Group (Nieves-Brull) (2006)
Subtest Name	Mean SS	Mean SS	Mean SS	Mean SS
Information	7.5	7.8	5.1	7.2
Vocabulary	8.0	8.3	6.1	7.5
Similarities	7.6	8.8	6.4	8.2
Comprehension	7.8	9.0	6.7	8.0
Digit Span	8.3	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

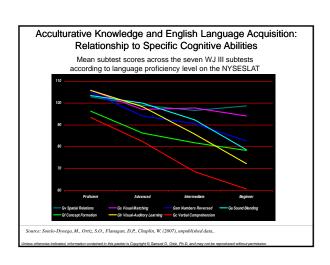
\*Data for this subtest were not reported in the study.

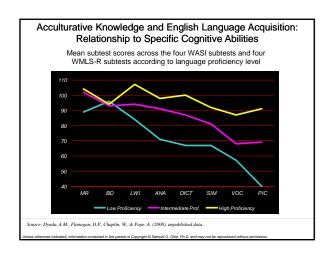
Inless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

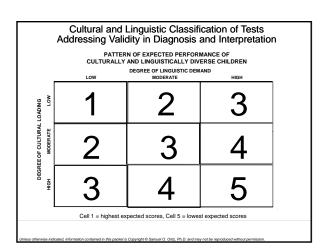


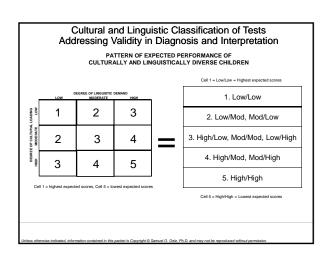












#### Acculturation and English Language Proficiency

Comparison of Order of Means for WJ III Classifications

	C-LTC Classifications	Kranzler et al., 2010*	
Level 1	Gv - Spatial Relations	Gv - Spatial Relations	
Lovel 2	Gsm - Numbers Reversed	Gsm - Numbers Reversed	
Level 2 Gs - Visual Matching		Gs - Visual Matching	
Level 3 Gf - Concept Formation		Gf - Concept Formation	
Level 4	Glr - Visual Auditory Learning	Ga - Sound Blending	
Level 4	Ga - Sound Blending	Glr - Visual Auditory Learning	
Level 5	Gc - Verbal Comprehension	Gc - Verbal Comprehension	

\*Source: Kranzler, J., Flores, C., & Coady, M. (2010). Examination of the Cross-Battery Approach for the Cognitive Assessment of Children and Youth From Diverse Lineuistic and Cultural Backerounds. School Psychology Review, 2010, 39(3), 431-446.

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission

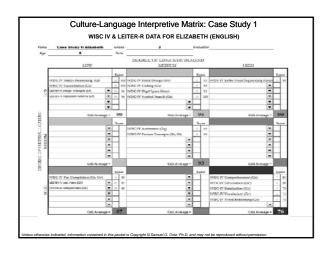
# The Culture-Language Interpretive Matrix (C-LIM): An automated worksheet.

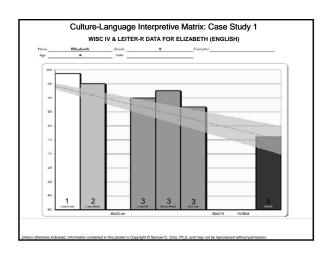
The C-LIM is an automated Excel® program that provides all culture-language test classifications, CHC classifications, and automates conversion and interpretation via the addition of a graphical representation of test scores.

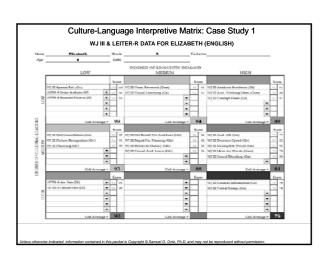
#### **C-LIM v. 1.0**

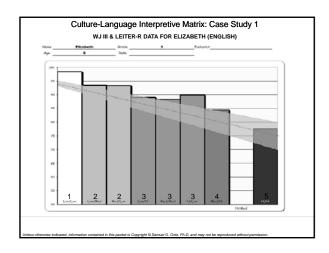
Inless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

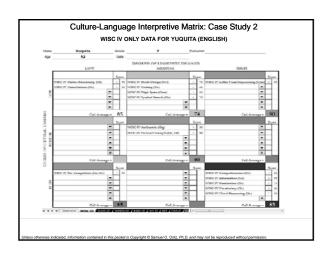
# 

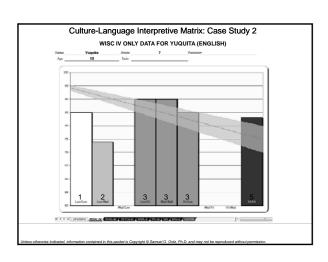


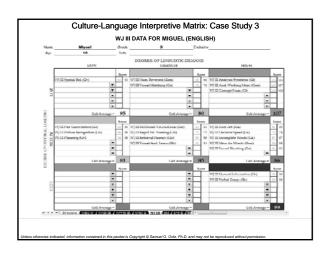


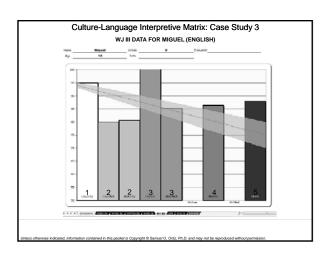


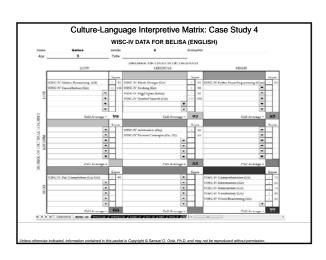


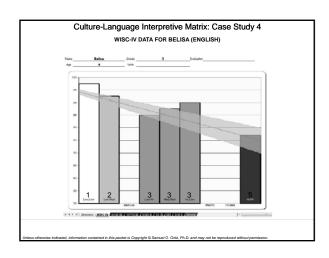


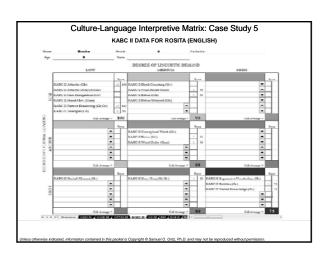


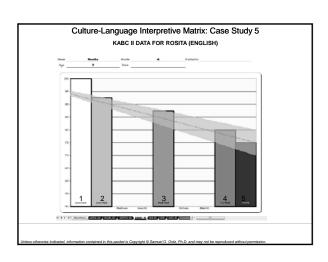


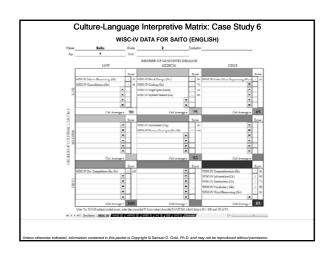


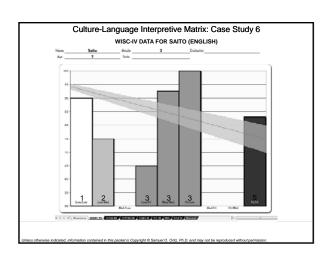


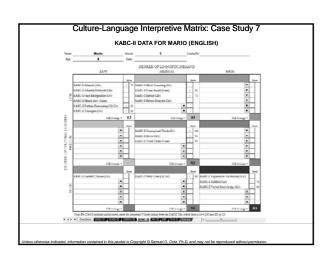


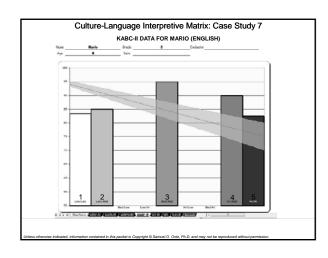


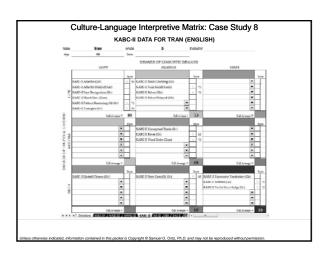


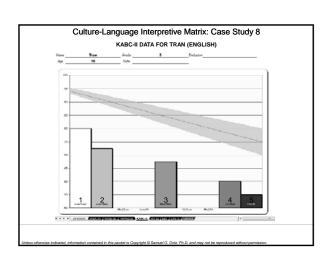


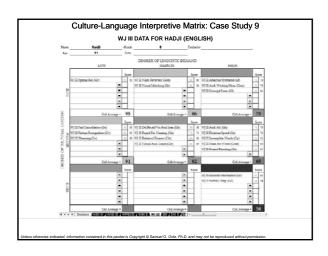


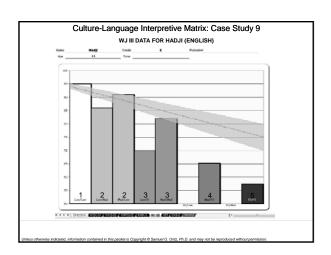


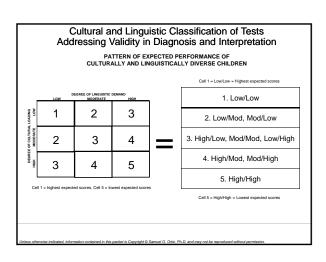




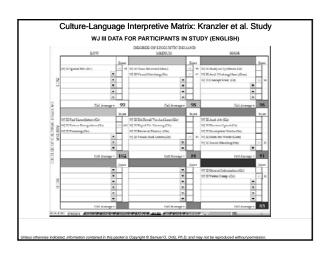


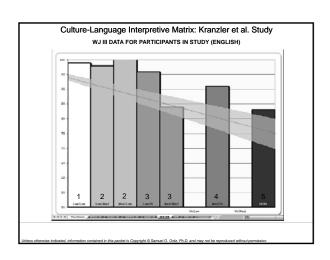






#### Acculturation and English Language Proficiency Comparison of Order of Means for WJ III Classifications C-LTC Classifications Kranzler et al., 2010\* Level 1 Gv - Spatial Relations Gv - Spatial Relations Gsm - Numbers Reversed Gsm - Numbers Reversed Level 2 Gs - Visual Matching Gs - Visual Matching Gf - Concept Formation Gf - Concept Formation Level 3 Glr - Visual Auditory Learning Ga - Sound Blending Level 4 Ga - Sound Blending Glr - Visual Auditory Learning Level 5 Gc - Verbal Comprehension Gc - Verbal Comprehension \*Source: Kranzler, J., Flores, C., & Coady, M. (2010). Examination of the Cross-Battery Approach for the Cognitive and Youth From Diverse Linguistic and Cultural Backgrounds. School Psychology Review, 2010, 39(3), 431-446.





# Evaluation of the Kranzler et al. Study on Use of WJ III and C-LIM on English Language Learners

Results of the Kranzler et al. study indicate that the data are not only consistent with the expected pattern of performance of English learners, but also demonstrate that application of C-LIM would have suggested that the individuals were of average ability and did not likely have a disability—the very characteristics of the study's sample.

Classifications are definitely subject to change. But factors other than just language and culture also affect test performance including degree of prior schooling or education, length and language of instruction, parental SES, and age at evaluation.

Evaluation of whether the C-LIM has clinical utility in assisting diagnostic decisions cannot be reduced to research questions that focus solely on mean score differences. Not only does the Kranzler et al. (2010) study point out the futility of seeking "statiscially significant" differences between scores in one cell vs. another, it also points out how misplaced attention to such issues may cause professionals to miss or ignore the information that is right there in front of them.

The bottom line-Kranzler et al. concluded that:

"a statistically significant (decreasing) trend was observed for the effect of linguistic demand and cultural loading combined."

Holess otherwise indicated information contained in this packet is Convinint © Samuel O. Ortiz. Ph.D. and may not be recorduced without permission

#### General Guidelines for Expected Patterns of Test Performance for Diverse Individuals

			DEGREE OF LINGUISTIC DEMAND	
		Low	Moderate	High
AL LOADING	L O W	Slightly Different: 3-5 points Moderately Different: 5-7 points Markedly Different: 7-10 points	Slightly Different: 5-7 points Moderately Different: 7-10 points Markedly Different: 10-15 points	Slightly Different: 7-10 points Moderately Different: 10-15 points Markedly Different: 15-20 points
DEGREE OF CULTURAL LOADING	M O D	Slightly Different: 5-7 points Moderately Different: 7-10 points Markedly Different: 10-15 points	Slightly Different: 7-10 points Moderately Different: 10-15 points Markedly Different: 15-20 points	Slightly Different: 10-15 points Moderately Different: 15-20 points Markedly Different: 20-25 points
ad .	H - G H	Slightly Different: 7-10 points Moderately Different: 15-20 points Markedly Different: 20-25 points	Slightly Different: 10-15 points Moderately Different: 15-20 points Markedly Different: 20-25 points	Slightly Different: 15-20 points Moderately Different: 20-30 points Markedly Different: 30-40 points

Different: Includes individuals with very high levels of English language proficiency (e.g., advanced BICS/emerging CALP) and high acculturation but are not actually fully acculturated, e.g., third generation. Speaks English very well and has limited bilingual/bicultural experience.

Very Different: Includes individuals with moderate levels of English language proficiency (e.g., intermediate to advanced BICS) and moderate levels of acculturation, e.g., second generation. Speaks English well, appears well acculturated but has significant bicultural/bilingual experience..

Markedly Different: Includes individuals with low to very low levels of English language proficiency (e.g., early BICS) and low or very low levels of acculturation, e.g., first generation. Does not speak English well yet, relatively new to the U.S., significant native culture and language experience.

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission

# 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 proficiencysocio-economic status
- academic history
- familial history
- developmental data - work samples
- curriculum based data
- 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 assessment:

"Are the student's observed learning problems due primarily

25

#### Nondiscriminatory Assessment and Standardized Testing

"Probably no test can be created that will entirely eliminate the influence of learning and cultural experiences. The test content and materials, the language in which the questions are phrased, the test directions, the categories for classifying the responses, the scoring criteria, and the validity criteria are all culture bound."



Jerome M. Sattler, 1992

#### Nondiscriminatory Assessment and Standardized Testing IT'S NOT ABOUT THE TESTS

Reliable and valid testing of culturally and linguistically diverse children requires specialized training and knowledge in the application of systematic, theoretically-based, and empirically grounded procedures in all aspects of the evaluation process, especially in testing.

Being able to communicate in an individual's native language is valuable, but secondary consideration. Simple language matching does not ensure fair or equitable assessment. Consider that:

- a competent and qualified bilingual evaluator, trained in nondiscriminatory assessment and with knowledge of the manner in which language and culture affect test performance, and who is proficient in the same language and from the same culture as the student is THE BEST option in assessment of bilinguals.
- a monolingual evaluator properly trained in nondiscriminatory assessment and competent in cultural and linguistic issues is the SECOND BEST option for assessment of bilinguals
- an untrained evaluator, whether monolingual or billingual, who possesses no training in nondiscriminatory assessment or cultural and injustick knowledge regarding test performance of billinguals is the THIRD BEST option for assessment of billinguals

Knowledge of the psychometric properties of tests, cultural influences on test performance, language proficiency and development, instructional methodology for English learners, and competency in being able to integrate these factors within sound, theoretically-guided and empirically supported practices in a systematic way, is fundamental to equitable assessment.

#### Nondiscriminatory Assessment: Processes and Procedures

#### X. SUPPORT CONCLUSIONS VIA DATA CONVERGENCE AND MULTIPLE INDICATORS

Once an assessment is completed, it is imperative that knowledge of both the individual's cultural and linguistic experiences be used to frame the patterns seen in the data. Frequently, in bilingual assessment, only linguistic considerations are made and cultural considerations are all but ignored. Remember, linguistically appropriate assessment is only a small part of the equation. Cultural knowledge on the other hand forms the necessary context for understanding performance. With respect to standardized testing:

- Evaluate cultural and linguistic differences (large differences = more adverse effect on Evaluate cultural and imagination performance)
  Evaluate inhibiting factors (many inhibiting factors = more adverse effect on
- performance)
  Evaluate non-discriminatory data (is child capable of learning normally if given the
- cnance?)
  Evaluate opportunity for learning (less opportunity = lower probability of disability)
- Evaluate supportantly for learning testers supportunity in which produces the following testers that converge to provide solid evidence for any conclusions or inferences that are drawn from the assessment. Stick with the until hypothesis that functioning is normal until and unless the data clearly
- demonstrate otherwise Base decisions on the preponderance of the available data

٠,	
_	

#### Nondiscriminatory Assessment: Summary Guidelines for Equitable Decision-Making

Although language learning follows a specific sequence, its various components are not totally dependent upon each other. Test performance will depend on the interaction between the individual's linguistic and educational experiences.

- the better educated an individual is in their native language, the better they are able to utilize and express that education through a second language.
- individuals can learn to speak a language without learning how to read or write just as they can learn to read and write it without learning how to speak it.
- -the ability to think and reason in a second language does not presume the presence of age-appropriate oral language proficiency or equivalent levels of exposure or experience.
- the ability to speak in a second language does not presume the existence of early foundational language skills, phonological processes, or developmental structure.

Unlarge otherwise indicated information contained in this packet is Conscipt & Samuel O. Otiv. Ph.D. and may not be exprediented without parmirrien.

#### Nondiscriminatory Assessment: Summary Guidelines for Equitable Decision-Making

Performance on any given test is based upon the degree to which an individual possesses age-appropriate levels of language development and acculturation that include:

- amount of formal instruction in the symbolic and structural aspects of the language of the test (e.g., reading, writing, grammatical rules).
- amount of formal instruction or informal experience in the general use of the language of the test (e.g., speech, pragmatics, semantics, syntax).
- amount of exposure during the critical period to the language of the test (e.g., fluency, pronunciation, automaticity, intuitive grammar, idioms, etc.).

Second language learners rarely, if ever, develop age-appropriate levels of language development as compared to monolingual English speaking peers.

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission.

# Nondiscriminatory Assessment: Summary Guidelines for Equitable Decision-Making

In the end, it will be a judgment call but evaluation of the most salient and relevant factors in a case can assist in creating a defensible position regarding whether documentation and data support difference or disability. Keys to making good decisions:

- try not to underestimate the impact of even small amounts of cultural or linguistic differences and exposure
- develop an "expectation" about the degree of impact the cultural and linguistic factors should have on test performance and compare available results accordingly
- look for patterns in the data that show consistency, for example, lower scores on tests that require more language and higher scores on tests that require less language
- final decisions should be based on the preponderance of the data, convergence of indicators, and the principle that the simplest explanation for the data is often the right one

Unless otherwise indicated, information contained in this packet is Copyright © Samuel O. Ortiz, Ph.D. and may not be reproduced without permission

Nondiscriminatory Assessment and Cross-Battery Resources	7
BOOKS:  Rhodes, R., Ochoa, S. H. & Ortiz, S. O. (2005). Comprehensive Assessment of Culturally and Linguistically Diverse Students: A practical approach. New York: Guilford.  Flanagan, D. P. & Ortiz, S. O. (2007). Essentials of Cross-Battery. Assessment, Second Edition. New York: Wiley.	
Flanagan, D.P., Ortiz, S.O., Alfonso, V., & Mascolo, J. (2006). The Achievement Test Desk Reference (ATDR): A guide to Learning. Disability Assessment, Zer Edition. New York: Wiley.  Flanagan, D.P., McGrew, K.S., & Ortiz, S.O. (2000). The Wechsler Intelligence Scales and Gl-Gc Theory: A Contemporary Approach to Interpretation. Boston: Allyn & Bacon.  ONLINE:	
CHC Cross-Battery Online http://www.crossbattery.com/  Cross-battery assessment.  Unites ofference indicated, information contained in this packet is Capyright © Samuel C. Onic, Ph.D. and may not be reproduced without permission.	