Improving Diagnostic Precision & Health Outcomes within the U.S. Latinx Population through Evidence-Based Neuropsychological Evaluation

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Leadership.
■ Past-President, Hispanic Neuropsychological Society (HNS)

- Standing Member, NIH National Institute of Aging (NIA): Neuroscience of Aging Study Section
- Senior Associate Editor, Annals of LGBTQ Public and Population Health
- Department Editor, The Clinical Neuropsychologist Journal: Culture & Gender in Neuropsychology Department

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The Problem: How Do We Improve Diagnostic Precision & Health Outcomes within the U.S. Latinx Population?

- Challenges:Understanding & Integrating Culture
- U.S. Demographics
- Health Disparities
- Sociohistorical Considerations
- Risk for Misdiagnosis

· Focus of this Session:

- Consider These Challenges
- Effects of cultural/linguistic diversity on the brain & cognition
- Approaches for cultivating evidence-based, culturally/linguistically responsive neuropsychology to improve diagnostic precision and health outcomes for Latinx

Overview

- 1) Challenges to Diagnostic Precision & Optimal Health Outcomes in the U.S. Latinx Population
- 2) Effects of Cultural/Linguistic Diversity on the Brain & Cognition
- 3) Cultivating Evidence-Based, Culturally/ Linguistically Responsive Neuropsychology

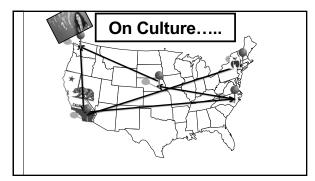
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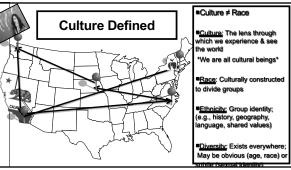
Part I: Challenges

- a) Understanding & Integrating Culture
- b) U.S. Demographic Shifts
- c) Health Disparities
- d) Sociohistorical Considerations
- e) Risk for Misdiagnosis

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Intersectionality of Health & Culture

Encompasses physical*, mental, social, and spiritual well-being
Health is "not merely the absence of disease or infirmity."

U.S. Health & Human Services (HHS), Office of the Surgeon General (OSG) et al., 2012; WHO, 1946



Culture

Integrated pattern of thoughts, communications, actions, customs, beliefs, values, and institutions associated, wholly or partially, w/ racial, ethnic, or linguistic groups, as well as with religious, spiritual, geographical, or sociological characteristics.

Dynamic in nature.

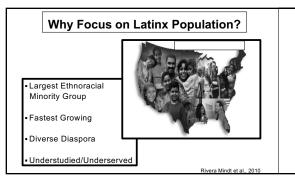
3) Individuals may identify w/ multiple cultures over their lifetimes.

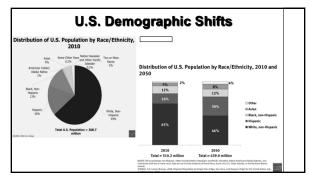


Part I: Challenges

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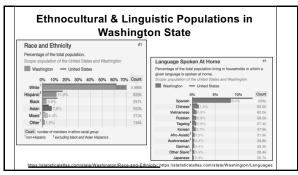


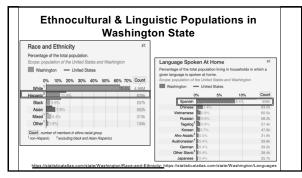


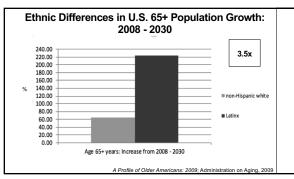
Linguistic Diversity in the U.S. Top 10 Languages spoken in U.S. ~21% of the US 1. English only - 239 million population speaks 2. Spanish - 41 million a language other 3. Chinese (including Mandarin and Cantonese) - 3.5 million 4. Tagalog (including Filipino) – 1.7 million than English 5. Vietnamese - 1.5 million 6. Arabic - 1.2 million 7. French – 1.2 million 8. Korean – 1.1 million 9. Russian – 0.94 million 10. German – 0.92 million

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Linguistic Diversity in the U.S. Top 10 Languages spoken in U.S. ~21% of the US 1. English only – 239 million 1. English only – 239 million 2. Spanish – 41 million 3. Chinese (including Mandarin and Cantonese) – 3.5 million population speaks a language other 4. Tagalog (including Filipino) – 1.7 million than English 5. Vietnamese - 1.5 million 6. Arabic - 1.2 million 7. French - 1.2 million 8. Korean – 1.1 million 9. Russian – 0.94 million 10. German – 0.92 million American Community Survey (ACS): US Census Bureau, 2015







Part I: Challenges

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All U.S. Residents Are Not Equal in Health

Among culturally/linguistically diverse populations:

- Life expectancy is not equal
- Death rates are unequal
- Disease burdens are unequal
- Access to health care services
- Quality of services rendered is unequal
- Health outcomes are unequal



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Health Disparities

Definition

A particular type of health difference that is closely linked with social, economic, and/or environmental disadvantage.

Adversely affect groups of people who have systematically experienced greater obstacles to health based on.....characteristics historically on....cnaracteristics historically linked to discrimination or exclusion (e.g., race; ethnicity; SES; gender, age; mental health; cognitive, sensory, or physical disability; sexual orientation).

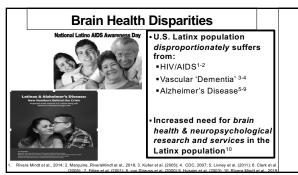
Exemplars

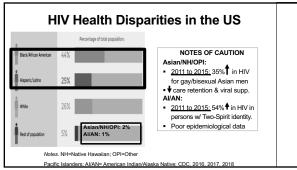
Fink Stress: risk for childhood asthma, hypertension, substance use, diabetes, obesity & depression (dum et at, 2016, Pussell et al, 2010, Nand et al, 2010, Lee, et al., 2009; Braveman, 2009; Latkin et al, 2007).

Perceived Discrimination & Stigma: Trisk for psychiatric morbidity & substance use in LBGT persons, particularly LGBT youth (McCabe et al, 2010; Lehavot & Simoni, 2011).

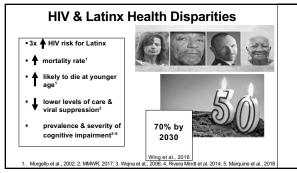
<u>Acculturation Stress:</u> Related to substance dependence & anxiety disorders (Ehlers et al., 2009).

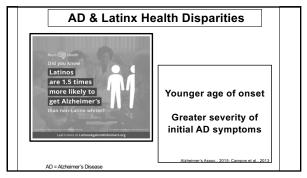
Long-term Poverty & Family Stress: Physical mobility & cognitive functioning at older ages in African-Am. Women (Kasper et al., 2008) et-stress: Healthy Pecole 2020: US Health & Human Services. 2

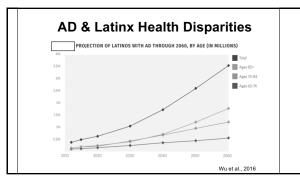




HIV & Latinx Health Disparities - 3x ↑ HIV risk for Latinx - ↑ mortality rate¹ - ↑ likely to die at younger age¹ - ↓ lower levels of care & viral suppression² - prevalence & severity of cognitive impairment³-5 1. Morgello et al., 2002; 2. MMWR, 2017; 3. Wojna et al., 2006; 4. Rivera Mindt et al. 2014; 5. Marquine et al., 2018







	sts Brain Health Disparities & enefits of Addressing Them?
1) Personal Co	sts to Individuals, Families, Communities
,	Health Costs ROJECTION OF TOTAL DIRECT & INDIRECT COSTS OF AD ON LATINOS (IN \$ BILLIONS)
\$1208	Total costs
\$1008	Direct costs
5808	Indirect costs
\$608	
\$400	
\$208	
2010	2020 2090 2040 2050 2060 Wu et al., 2016
Ét	Benefits: Advance Science & Treatment; hics Issues; & Improve Public Health
LaVeist et a	II., 2009; Wu et al., 2016; https://altarum.org/news/economic-toll-opioid-crisis-us-exceeded-1-trillion-2001

Part I: Challenges

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Sociohistorical Considerations: The Legacy of Racism in (Neuro)Psychology

Zeitgeist: Early 20th Century

- 1905: First practical intelligence scale published in France by Binet and Simon
- 1916: Lewis Terman published modified Binet& Simon, later called the Stanford-Binet Scale

later called the Stanford-Binet Scale

*High-gade to rotor-live deficiency, is very very common among SperietiIndian and Moscan families of the Southwest and also among regroes. Their
duliness seems to be racial; or a test see inherent in the Benny's stocks from
which they come...Children of this group should be segregated into separate
classes... They cannot master betacline but they can often be made in
efficient workers... the whole question of racial differences in mental traits
will have to be laten up anew and by experimental methods... from a
sugeric point of viewthey constitute a grave problem because of their unusually
profils breeding?

—Terman, The Measurement of Intelligence, 1916, p. 91-92.

Sociohistorical Considerations: The Legacy of Racism in (Neuro)Psychology

- Zeitgeist: Early Mid 20th Century

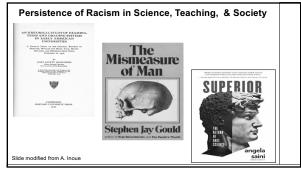
 WWt: Spurred testing for U.S. Army classification purposes; "Army Alpha" and "Army Beta" developed

 Xerous Control of the Control of
- Ellis Island: Results of testing of immigrants misused:

 provided justification for congressional act that limited immigration
 - ignored cultural bias of tests
- Eugenics Movement ----> WWII

-Klineberg, 1935; Tulsky et al., 2004

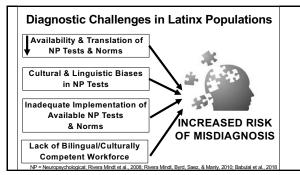
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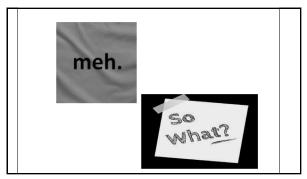


ALL NP Tests are Culturally-Loaded

- Language measures aren't the only measures significantly impacted by language!
- ·BVFD
- · DIGIT SPAN
- ·TRAILS VS COLOR TRAILS

Slide modified from Dr. M. Arce Rentería

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Demographics and Maintaining Our Relevance & Viability As a Field

Pragmatics

Evidence-Based Practice

Ethics & Ethos



Rivera Mindt et al., 2010; Postal, 2018

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APA General Ethical Principles	Corresponding Ethical Awareness
Principle A: Beneficence & Nonmaleficience	
Principle B: Fidelity & Responsibility	
Principle C: Integrity	
Principle D: Justice	Psychologists should be able to identify indiv. or group vulnerabilities that can lead to exploitation & recognize when a course of action would result in or has resulted in unfair or unjust practices.
Principle E: Respect for People's Rights & Dignity	Psychologists must be aware of special safeguards necessary to protect the autonomy, privacy, and dignity of members from the diverse populations with whom psychologists work.

From C. Fisher, 2012

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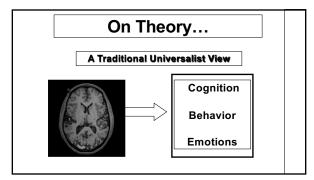
Part I: Challenges Summary

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Overview

- 1) Challenges to Diagnostic Precision & Optimal Health Outcomes in the U.S. Latinx Population
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Critique of Universalist Approach

- Can result in:
- •inaccurate and harmful racial/ethnic generalizations
- •inappropriate use of NP instruments with REM populations
- •inadequate science by not examining construct validity.

-Gould, 1981; Nell (2000); Rivera Mindt, Byrd, Saez, & Manly,2010





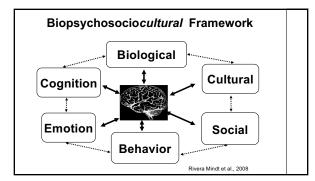
Cultural Neuropsychology

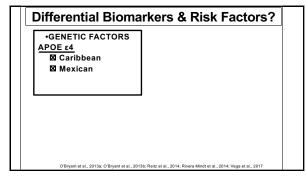


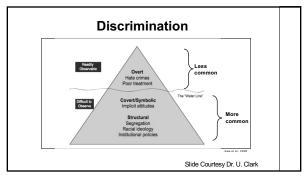
 The systematic study of brain-behavior relationships within the context of human beings recursively engaging in specific cultural practices that organize the development, maintenance, and revision of their cognition and behaviors. (Caggas, and Marily 2014)

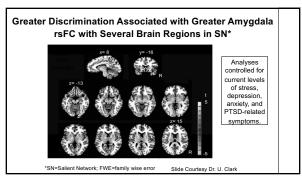
Slide courtesy of Dr. M. Arce Renteria

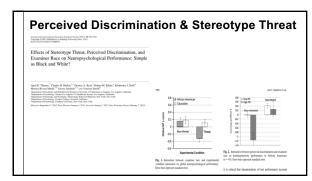
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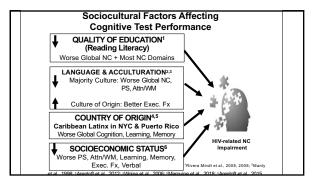












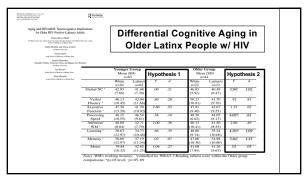
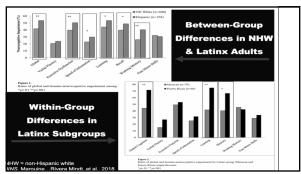
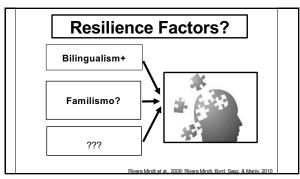


Table 3. Univariable Predi	ctors of Time 1	o Neurocognitive (
		Destine	manige (or	cline or Impr	ovement)	Improve	mont	
Prestictor	Disk			P Value	Bink			
Arm	Yoursen	1 1/2	1.02	0937				
Notes:	Female	Male	1.76	0163				
Ethnicity	Hispanie	Non-Hispanic	2.35	.0018	1			
Education					Higher	1 y"	1.10	.0534
Premorbid IQ ¹					Higher	1 unit ⁶	1.02	.0473
ART status ^{el}	Off ART	On ART	1.91	.0038				
CD4 st	Lower	100 cets*	1.14	.0024				
Nedir CD4	Higher	100 cels ⁶	1.09	.0833				
Piasma VL ^e	Higher	1 logfe	1.26	.0026	Lower	1 logte	1.27	.0295
Det/Undet ^d					Undet	Det	1.53	.0076
SF VL"	Higher	1 loglio	1.26	.0552	Lower	1 logie	1.47	.0476
Det/Undet ^d	Det	Undet	1.50	.0790	Undet	Det	1.73	.0962
AST ^o					Lower	1 unit*	1.01	.0172
Protein total ⁴					Lower	1 unit"	1.96	< .0001
Albumin ^e	Lower	1 unit*	2.36	<.0001				
HCT*		1 unit*	1.10				1.00	0244
Comorbidity*	Lower	Minimal	2.47	<.0001	Higher	1 unit ^b	1.00	.0244
Utear*	Positive	Monative	1.58	.0007				
LT connebie Ctr ^d	Posisve	regative	1.00	.0497	bio	Ven	1.59	0902
LT methemphetemine Dx ^d	Yes	No	1.81	.0148	140	105	1.00	.000.3
LT any substance Dad	100	****			No	Yes	1.60	0576
MDD Bast 30 db*	Yes	Mo	1.00	.0059			1.00	
LT MDD*	Yes	No		.0118	No	Yes	1.60	.0390
Back Botatr*	Higher	1 units	1.03	.0051				





Why Bilingualism?

- Engagement in cognitive enriching activities associated with reduced risk of dementia
- · "Bilingual advantage" on cognition
- Aspects of executive functioning, episodic memory, and visuospatial abilities
- Children, young adults, and older adults
 Some inconsistent findings

- Proposed mechanisms
 Inhibition and switching between languages
 Strengthening of attentional and executive control neural networks
- (Scarmeas et al., 2011; Wilson et al., 2002; Akhtar & Menjivar, 2012; Bialystok, Craik, Klein, & Viswanathan, 2004; Bialystok, Craik, & Luk, 2008; Salvatierra & Rosselli, 2010; Schroeder & Marian, 2012); Silde courtesy of Dr. M. Aroe Renteria

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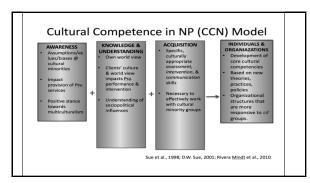
Bilinguals May Be Able to Retain Similar Levels of Cognitive Functioning in the Face of Age &/Or AD-related Neurodegeneration, Compared To Monolinguals Bilingualism delays age at onset of dementia, independent of education and immigration status Delaying the onset of Alzheimer disease Slide courtesy of Dr. M. Arce Re

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Or Maybe Not... Bilingualism Does Not Alter Cognitive Decline or Dementia Risk Among Spanish-Speaking Immigrants Laura B. Zahodne Columbia University Peter W. Schofield University of Newcastle Use of Spoken and Written Japanese Did Not Protect Japanese-American Men From Cognitive Decline in Late Life

Part II: Effects of Culture & Language Summary	
a) Brain-behavior relationships are not "one size fits all"	
b) Numerous sociocultural factors impact brain function,	
cognition, & test performance	
c) Critical to incorporate sociocultural factors to better	
understand brain-behavior relationships & reduce	
risk of misdiagnosis	
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10	
Overview	
1) Challenges to Diagnostic Precision & Optimal Health	
Outcomes in the U.S. Latinx Population	
2) Effects of Cultural/Linguistic Diversity on the Brain &	
Cognition	
Cultivating Evidence-Based (E-B), Culturally Responsive Neuropsychology (NP)Through:	
a) Culturally Competent & Responsive Clinical Scientists b) Cultures of E-B, Culturally Responsive NP, Diversity, & Inclusion	
by Calculate of E.B., Calcularly Responsive III, Siversity, a molasion	
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The Problem: How Do We Improve Diagnostic Precision	$\neg \neg$
& Health Outcomes within the U.S. Latinx Population?	
Challenges: Understanding & Integrating Culture	
 U.S. Demographics 	
Health Disparities Sociohistorical Considerations	
Risk for Misdiagnosis	
Focus of this Session:Consider These Challenges	
■ Effects of cultural/linguistic diversity on the brain & cognition	

 Approaches for cultivating evidence-based, culturally/linguistically responsive neuropsychology to improve diagnostic precision and health outcomes for Latinx (and all) examinees.

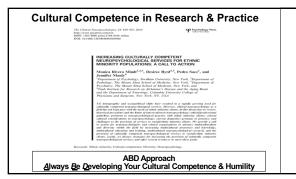


CCN: Step 1 Examples

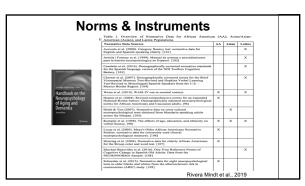




CCN: Step 2 Examples



 Remember to maintain a "sociocultural lons" and to be mindful of potential sociocultural norms throughout the evaluation, from the clinical interview to the feedback session. In working with informasts of culturallyllal- goidistify diverse older adults, by coggizzant that there may be belinate to report the cog- 	(Coulder to purpose of the evaluation (diagnostic of description) and whether most particularly control of the coulder most productive control of the country of the countr	Handbook on the Neuropsychology of Aging and Dementia
 Utilize the best available insupersychological instruments and norms slift globaroslodge the potential limitations in the interpretation section of your neirropsychological report. Consult literative regularly for reconst devel- opments in missairs and norms. Cutrella visuature the psychomotric appropri- 	experies with the population or counts with what a necompositiony when referring out in not feasible. Only use an interrepetar when contain referral is not feasible (e.g., renal nexe). Birked man- diates of or perfections should have procedure over local administrative domants. When interpretes must be utilized, only us- professional interpretes who are trained in the unique conternational contends of standard- tical testing used called our of perfects, hospital affect of the propositional [4]. Consider psychostopic characteristics to iden- nities have "law" corners should be interpreted.	to root intidiagnosis and minimagement of Staggest beinglished assessments to better distanting the impact of excessional factors. Staggest beinglished assessment to better distanting the impact of excessional factors. It is sufficient to the committee of the season and within the expect, if different from the small, with the expect of the committee of the season and within the expect, in the committee of the commit- nation of the expect of the committee of the commit- lation to confident of the internal factors of the expect of the committee of the expect of the committee of the committee of committee of the c



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SOCI	ltura	Inetri	uments

Table 3. Overview of sociocultural instruments for use with African American (AA),

Sociocultural Instruments	AA	Asian	Latin
Acculturation Rating Scale for Mexican Americans (ARSMA) [144]			х
African American Acculturation Scale Short Form (AAAS-SF) [145]	Х		
Asian American Multidimensional Accultural Scale (AAMAS) [146]		Х	
Bicultural Self-Efficacy (BISE) [147]			х
Short Acculturation Scale (SAS) [132]			х
Suinn-Lew Asian Self Identity Acculturation Scale (SL-ASIA) [148]		х	
The Abbreviated Multidimensional Acculturation Scale (AMAS) [134]			х
The Multigroup Ethnic Identity Measure (MEIM) [149]	Х	Х	Х

Rivera Mindt et al., 2019

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CCN: Step 3 Examples

- Get supervised experience w/ Latinx examinees (and/or other diverse populations)
- Consult with experts when you need guidance or assistance
- Practice

Note. Refer out to avoid conducting research or practicing outside your scope of competence

Multicultural Ethical Competence in Neuropsychology

- •Multicultural Ethical Commitment
- •Multicultural Ethical Awareness
- •Goodness-of-Fit Ethics & Multicultural **Ethical Decision Making**

C. Fisher, 2012

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MC Ethical Competence Area	Multicultural (MC) Ethical Competence in Neuropsychology (NP): Factors & Questions for Consideration
Multicultural Commitment	-Critically examine moral premises in NP that may largely reflect Eurocentric conceptions of the good. -Question "deficit" and "REM group comparative" approaches to understanding cultural differences.
	-How might institutional racism in NP influence each neuropsychologist's role, status, & motivation to develop professional identities free from these influences?
Multicultural Awareness	-Need for knowledge & skills in constructing & implementing culturally valid & language-appropriate assessments, treatments, and research procedures.
Goodness-of-Fit & MC Ethical Decision Making	-What are the cultural circumstances that might render indiv's more susceptible to the benefits or risks of the NP assessment, treatment or research? -Are traditional approaches to informed consent & confidentiality protections compatible with the values of spirit collectivity, and harmony characteristics of different ethnocultural populations?

Adapted From C. Fisher, 2012

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- Participant/Patient Advocacy Is treatment for the individual meeting standards of care?
- Is this individual receiving the same considerations as someone of the majority culture?
- · What should you do if you notice things are not quite right?
- · Advocate for your patient by speaking with your supervisor or
- If a colleague/peer is not mindful of how culture is (negatively) informing care, (respectfully) discuss what you're thinking about



Overview

- Challenges to Diagnostic Precision & Optimal Health Outcomes in the U.S. Latinx Population
- 2) Effects of Cultural/Linguistic Diversity on the Brain & Cognition
- 3) Cultivating Evidence-Based (E-B), Culturally Responsive Neuropsychology (NP)Through:

 Culturally Competent & Responsive Clinical Scientists

 Cultures of E-B, Culturally Responsive NP, Diversity, & Inclusion

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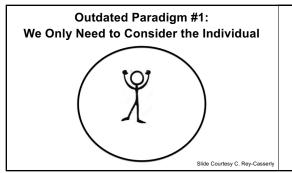
Specific Needs & Interventions for Increasing E-B, Cultural/Linguistic NP, Diversity & Inclusion

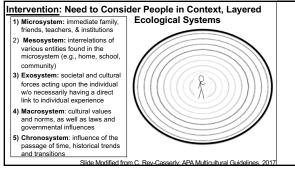
Outdated Paradigms

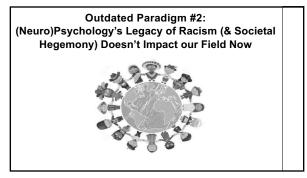
■Evidence Base & Implementation

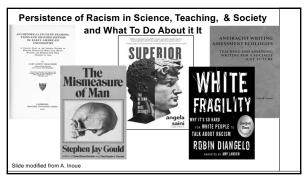
Note: We are in this together.

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Specific Needs & Interventions for Increasing E-B, Cultural/Linguistic NP, Diversity & Inclusion

- Outdated Paradigms
- ■Evidence Base & Implementation
- *Note. We are in this together.

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Evidence Base & Implementation

- ■Evidence Base
- 'Conquistador' Approach
- Under-Representation & Poor Characterization of Diverse Individuals
- Instrumentation
- ■Implementation = Workforce & Policy
- Leaky Pipeline
- •Lack of training/capacity to implement EVIDENCE-BASED, culturally responsive research & practice

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Intervention: Move Beyond Conquistador Research & Training Community Academia Academia Academic Partnership Sweat Equity, Time, Credibility & Trust Meaningful URM Representation & Characterization Instrumentation Institutional Support of Faculty/Investigators

Movivegtก็อาพอะอีse Training/Capacity to Implement Evidence-Based Culturally Responsive Research & Practice

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YES, We Can Assure the Vital Future of Neuropsychology Through Diversity & Inclusion!



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Intervention: Keep at the Leaky Pipeline!

Authentic Value of Diversity & Institutional Commitment Commitment Leaky Pipeline

\$\$\$\$

Power Sharing

Transparency

Training Advocacy and Awareness Trainees Be proadive about learning Supervisors & Future Supervisors Understanding and appreciation of heterogeneity of trainees Microaggressors (Respectfully) push field toward inclusivity and awareness

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Intervention: Work Towards Understanding Health Disparities & Advance Health Equity Health Equity Attainment of the highest level of health for all people. Achieving health equity requires valuing everyone equally with focused and ongoing societal efforts to address -avoidable inequalities, -historical contemporary injustices Elimination of health and health care disparities.

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APA's Advice on Developing Culturally Conscious Programs

- Form a strategic planning process that's consistent w/ both departmental and larger institutional goals.
- Steps for strategic planning process:
 - Know your program. Inventory all diversity-related policies, including admissions, financial aid, outreach, recruitment, and employment policies.
 - Assemble your team. Establish an interdisciplinary strategic planning team and a process to evaluate the relevant policies, now and over time.
 - Understand your objective(s). ID the diversity-related educational goals & supporting evidence that justify each of the relevant policies.

Suinn et al., 2005

APA's Advice on Developing Culturally Conscious Programs

- 3) Take necessary action steps. Ensure that any consideration of race is as limited as possible, consistent with institutional diversity goals.
- 4) Monitor results
- 5) Review outcomes of diversity efforts and make appropriate adjustments over time.
- 6) Establish a process (that is likely to become less onerous and resource intensive over time) by which a periodic review of programs, policies, goals, and results is conducted—all in the context of educational, research, and legal developments.

Suinn et al., 2005

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Part III: Summary of Cultivating Evidence-Based, Culturally Responsive NP, Diversity, & Inclusion

- a) Culturally Competent/Responsive Clinical Scientists
- b) Cultures of E-B, C/L Responsive NP, Diversity, & Inclusion
- c) Moving Beyond Outdated Paradigms
- d) Advancing our Evidence Base & Implementation

Note: We are in this together.

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Resources			
Psychology Training Program Diversity Resources			
Institutional Resources for Diversity Inclusion	Guidance on Voluntary use of Race to Achieve Diversity in Graduate Education		
	APA Program Diversity and Accreditation Recommendations		
Diversity Resources for Students	APA Resource Guide for LGBT Students		
	APAGS Resource Guide for Ethnic-Minority Students		
Diversity Resources for	APA Guidelines for Multicultural Education		
Faculty	Valuing Diversity in Faculty		
State and Federal Institutional Diversity Resources	Diversity in Higher Education Manual Federal Policies Included		
Professional Resources for Issues of Diversity in	APA Diversity Training Presentation for Psychologists		
Psychology and Clinical Practice	NIMH Cultural & Linguistic Appropriate Services Standards in Psychology		

Additional Resources

Hispanic Neuropsychological Society

*Great diversity assessment & training resources!

www.hnps.org

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