Resource Guide: Neuropsychological Assessment with Multicultural Populations

The MNS Diversity Committee is pleased to introduce and provide the following resource guide intended to support neuropsychologists in their clinical work with individuals of diverse cultural and linguistic backgrounds. We believe that cultural diversity, in the broadest sense of the term, is relevant to all neuropsychologists.

The idea for the resource guide stemmed from awareness of the growing diversity of the populations we serve, the cross-cultural limitations of many of our commonly used neuropsychological tests and measures, and the dearth of formalized guidelines for conducting culturally-informed neuropsychological assessments.

The resource guide was conceptualized as a living document meant to be updated and modified. It is by no means all inclusive, though we hope it provides a solid framework for the provision of culturally-informed neuropsychological assessments. The guide is also intended to be a companion to the Multicultural Test Toolkit, which is available on the MNS website.

The guide is comprised of a list of entries each of which contains a citation or name of a resource, accompanied by a direct link to the article/resource (for those publicly available) or to the abstract. Many of the entries also include notes and keywords provided by Diversity Committee members who located and reviewed the resource. The guide is organized by topic. Please see the Table of Contents for an overview of the content included in the guide. Clicking on a topic in the Table of Contents will bring you directly to the entry.

If you would like to contribute or add to the guide, please feel free to contact Emily Wilner, PsyD at emilywilner@gmail.com.
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❖ Guidelines for Assessment of Multicultural Populations


  Link: [https://doi.org/10.1080/13825580601025932](https://doi.org/10.1080/13825580601025932)
  Notes: AACN guidelines offer a framework for neuropsychological evaluations with multicultural populations (pp. 216-217). Topics covered include the influence of cultural factors in testing, implications for test selection and interpretation, and the importance of education/training when testing multicultural groups.
  Keywords: Practice guidelines, neuropsychological assessment, underserved populations, cultural issues


  Link: [https://www.tandfonline.com/doi/abs/10.1080/13854040903058960](https://www.tandfonline.com/doi/abs/10.1080/13854040903058960)
  Notes: Thorough discussion reviewing the need to expand/advance neuropsychological services for multicultural populations and current disparities in the provision of such services. Also includes section on ways to advance cultural competency in the field of neuropsychology (p. 15-17) and useful list of additional tools and resources for multicultural neuropsychological assessment (p. 17).
  Keywords: Ethnic minority; Cultural competence; Diversity; Neuropsychology


  Link: [http://www.tandfonline.com/doi/abs/10.1207/s15324826an1101_4](http://www.tandfonline.com/doi/abs/10.1207/s15324826an1101_4)
  Notes: A comprehensive article offering general considerations for neuropsychological assessment with multicultural populations and specific guidelines for Asian American patients (pp. 31-34). Also includes helpful background information for various Asian American cultures (Chinese Americans, Filipino Americans, Vietnamese Americans, Korean Americans, Japanese Americans).
Keywords: neuropsychological assessment, Asian American, cultural diversity, cultural variables


  Link: [https://pdfs.semanticscholar.org/b209/b2d0dece058c0cb77a162b36692787b5e99e.pdf](https://pdfs.semanticscholar.org/b209/b2d0dece058c0cb77a162b36692787b5e99e.pdf)
  Keywords: ethics, competence, who & how & by whom?

❖ Cultural Factors Affecting Neuropsychological Assessment


  Notes: Thorough and informative overview of ways in which cultural values (e.g., one-to-one relationship, background authority, best performance, isolated environment, special type of communication, speed, internal or subjective issues, and the use of specific testing elements and strategies) are implicitly embedded in the neuropsychological testing process.
  Keywords: cognitive testing, cultural values


  Notes: This is a review article arguing that visuospatial/non-verbal tests are not necessarily “culturally neutral.” Intra-education inter-culture and inter-education intra-culture comparisons are reviewed to illustrate the arguments.
  Keywords: non-verbal tasks, cultural vs. educational factors

  Link: [https://academic.oup.com/acn/article-abstract/33/2/254/3893528](https://academic.oup.com/acn/article-abstract/33/2/254/3893528)

  Notes: This is a book review of Fujii’s “Conducting a Culturally Informed Neuropsychological Evaluation.”

  Keywords: book review, culturally informed neuropsychological evaluation


  Notes: This article provides information related to neuropsychological evaluation with Asian American clients. It includes basic context/cultural background of major Asian subgroups, potential testing adjustments, and some practical suggestions.

  Keywords: Asian American, cultural and linguistic factors, test adjustments


  Keywords: WAIS-III, southern African sample, level and quality of education, white English vs. black African first language


  Notes: Although article is based on African American population, the consideration and suggestions are applicable to other racial/ethnic groups as well.
Keywords: disadvantage of separate norms based on race, importance of deconstruction of race and education, African Americans perspective


  Notes: This article discusses the multidimensional nature of culture/ethnicity. Authors recommended that rather than using stratified norms based on race as one single-domain entity, measurable psychological variables that differ between cultural and ethnic groups and potentially impact neuropsychological test scores should be used (e.g., language proficiency, education, and persistence of poverty). Keywords: disadvantage of separate norms based on race, importance of deconstruction of race and education, Hispanic Americans perspective


  Notes: Reviews the impact of literacy and education on both verbal and nonverbal measures of cognition. Keywords: Neuropsychological scores, Ethnicity, Acculturation

  ❖ **Acculturation and Test Selection**


  Link: [http://dx.doi.org/10.1037/0735-7028.38.4.363](http://dx.doi.org/10.1037/0735-7028.38.4.363)

- **Assessing Acculturation and Ethnic Identity**
- List of instruments to measure acculturation and ethnic identity
  https://www.ncbi.nlm.nih.gov/books/NBK248425/

- **Bilingualism**


    Notes: This study analyzed the association between levels of language proficiency and levels of bilingualism and performance on verbal and nonverbal executive functions in young bilinguals.

    Keywords: Bilingualism; Cognitive Ability; Language Proficiency; Executive Function; Adulthood (18 yrs & older); Young Adulthood (18-29 yrs); Thirties (30-39 yrs); Middle Age (40-64 yrs); Male; Female


    Link: http://escholarship.org/uc/item/92f4233q

    Notes: The effects of bilingualism on Spanish-language neuropsychological test performance, and whether or not these bilingual advantages could be explained by socioeconomic status (SES).

    Keywords: Bilingualism; Cognitive Science; Motor Processes; Performance Tests; Native Language

Keywords: Ability Level; Bilingualism; Monolingualism; Neuropsychological Assessment; Test Norms; Adulthood (18 yrs & older); Young Adulthood (18-29 yrs); Thirties (30-39 yrs); Middle Age (40-64 yrs); Aged (65 yrs & older); Male; Female.

❖ Language Proficiency

- **Citation:** The National Heritage Language Resource Center, at the University of California, Los Angeles
  
  Link: [http://international.ucla.edu/nhlrc/data/literature-proficiency](http://international.ucla.edu/nhlrc/data/literature-proficiency)
  
  Notes: This website provides various tools and literature review for language proficiency assessment. However, use of the these tools in neuropsychological evaluation has not been formally validated.

  
  Link: [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2652412/](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2652412/)
  
  Notes: provides rationale on why assessing language proficiency is important, and how to proceed with the evaluation
  
  Keywords: impact of bilingualism, assessment of bilingualism degree

  
  
  Keywords: assessment in non-native language, competency, ethics

- **Citation:** Scott, Travis & Funes, Cynthia & Kim, Se-Kang & Razani, J. (2015). Diversity-1 * The Impact of English Language Proficiency on Neuropsychological Test Performance in Ethnically Diverse Individuals. *Archives of Clinical Neuropsychology, 30*, 475-485.
Notes: This study provides information about how the link between English language proficiency and performance on verbal neuropsychological subtests. This data highlights the importance of quantifying English proficiency among ethnically diverse individuals evaluated in English.

Keywords: English language proficiency (ELP) tests, adapted Short Acculturation Scale, multiple ethnic groups

❖ Literacy


  Link: https://pdfs.semanticscholar.org/5d7a/eb4e8f37bf0eefdf94b66e18b248c72ae104.pdf


  Link: https://www.researchgate.net/profile/Alfredo_Ardila/publication/12223521_Learning_to_read_is_much_more_than_learning_to_read_A_neuropsychologically_based_reading_program/links/54519cef0cf24884d8870696.pdf

  Keywords: Illiteracy, Reading, Neuropsychological testing, Cognitive abilities


  Keywords: Visuospatial and memory abilities, Neuropsychological assessment in illiterates
Notes: This is a rather old study
Keywords: illiterates vs. professionals, visuospatial abilities, memory abilities, Spanish-speaking population (Colombian)

  
  
  Key Words: cognitive assessment; MoCA-S; education; reliability; bias

  
  Link: [https://www.researchgate.net/scientific-contributions/2078312325_Cesar_Gomez](https://www.researchgate.net/scientific-contributions/2078312325_Cesar_Gomez)
  
  Keywords: Age-related cognitive decline; education

- Citation: Sayegh, P., Arentoft, A., Thaler, N. S., Dean, A. C., & Thames, A. D. (2014). Quality of education predicts performance on the Wide Range Achievement Test-Word Reading subtest. *Archives of Clinical Neuropsychology, 29*(8), 731-736.
  
  Link: [https://oup.silverchair-cdn.com/oup/backfile/Content_public/Journal/acn/29/8/10.1093/arclin/acu059/2/acu059.pdf?Expires=1509683776&Signature=QF9RzOdsV-dwSdSYjXLd0nJR2AJ0gYpFBiggQRq79X3k3vEa-Rr3gAnYnWHV-ID7UAYlOcDdd3B-lXbjaXgNkUqTY7m-zsaF26mkNkgfd-t-pM2n8oBDEtmHiJSr0ATX6yzOgYF5s6MSfRBSCcaA~zg-63yOmSn2L0zgyYQSTryJ1WKGd49eRGeF9X10ke7OBIBD-4Rso4YYunRoKxaavy8Snm91BJLciGtGBWXfWihrxqvbsl-oRtFxDRlgo-2G4bh-O~AzY7R1YSpuzACnACNSy9M6QO11jKVVLs91OwPM2BqzOl9fXyxGgWpCDGB-qUHBzgb7jJc7LiTw~&Key-Pair-Id=APKAIUCZBIA4LVPAVW3Q](https://oup.silverchair-cdn.com/oup/backfile/Content_public/Journal/acn/29/8/10.1093/arclin/acu059/2/acu059.pdf?Expires=1509683776&Signature=QF9RzOdsV-dwSdSYjXLd0nJR2AJ0gYpFBiggQRq79X3k3vEa-Rr3gAnYnWHV-ID7UAYlOcDdd3B-lXbjaXgNkUqTY7m-zsaF26mkNkgfd-t-pM2n8oBDEtmHiJSr0ATX6yzOgYF5s6MSfRBSCcaA~zg-63yOmSn2L0zgyYQSTryJ1WKGd49eRGeF9X10ke7OBIBD-4Rso4YYunRoKxaavy8Snm91BJLciGtGBWXfWihrxqvbsl-oRtFxDRlgo-2G4bh-O~AzY7R1YSpuzACnACNSy9M6QO11jKVVLs91OwPM2BqzOl9fXyxGgWpCDGB-qUHBzgb7jJc7LiTw~&Key-Pair-Id=APKAIUCZBIA4LVPAVW3Q)
  
  Keywords: Literacy; Academic achievement; Neurocognition; High schools; Multiple regression; Test validity
Specific Populations

- Pediatrics


  Notes: Two hundred children included in study. They were recruited from a school in Bogota, Colombia. Ages of children ranged from 6 to 11-year-olds. Normative data obtained for the following neuropsychological tests: Seashore Rhythm Test, Finger Tapping Test (FTT), Grooved Pegboard Test, Children's Category Test (CCT), California Verbal Learning Test-Children's Version (CVLT-C), Benton Visual Retention Test (BVRT), and Bateria Woodcock Psicoeducativa en Espanol (Woodcock, 1982)

  Keywords: pediatric, academic, Spanish, Latino, children


  Link: [http://www.tandfonline.com/doi/abs/10.1207/s15326942dn2602_7](http://www.tandfonline.com/doi/abs/10.1207/s15326942dn2602_7)

  Notes: Verbal and nonverbal fluency was assessed in 171 children (in a Mexican school system) between ages 6 and 15.

  Keywords: pediatrics, children, Mexico, verbal fluency


  Keywords: children, pediatrics, Spanish’s speakers, normative data


  Keywords: Pediatric, normative data, Stoop


  Link: [https://www.researchgate.net/profile/Mikko_Aro/publication/11533464_Performance_of_Zambian_children_on_the_NEPSY_A_pilot_study/links/5639269708aed5314d221c0e.pdf](https://www.researchgate.net/profile/Mikko_Aro/publication/11533464_Performance_of_Zambian_children_on_the_NEPSY_A_pilot_study/links/5639269708aed5314d221c0e.pdf)

  Keywords: NEPSY, urban literate Zambian children (age 9 and 11), testing in English


  Notes: Article discusses factors that can impact neuropsychological performance as a result of factors associated with the examinee, factors associated with the neuropsychological measures, cultural competency of the examiner, and factors at the organizational/political level.

  Keywords: culture, diversity, neuropsychology, pediatric


  Link: [https://link.springer.com/chapter/10.1007/978-1-4899-7584-3_19](https://link.springer.com/chapter/10.1007/978-1-4899-7584-3_19)

  Notes: Article discusses issues that arise when working with minority cultural group that have family members with pediatric cancer. Issues to be addressed include acculturation status, language or barriers to health care become concerns in the
assessment and diagnosis of childhood cancer survivors

**Keywords:** Culture, Acculturation, Pediatric cancer, Neurocognitive functioning, Language, Linguistics

➢ Elderly

- **Citation:** The 37 item Version of the Mini-Mental State Examination: normative data in a population-based cohort of older Spanish Adults (NEDICES)

  Link: [https://academic.oup.com/acn/article/31/3/263/1717213](https://academic.oup.com/acn/article/31/3/263/1717213)

  **Keywords:** Dementia, aging, Norms; Normative Study; MMSE-37; Assessment


  Link: [https://www.karger.com/Article/PDF/365506](https://www.karger.com/Article/PDF/365506)

  **Keywords:** Montreal cognitive assessment; Spanish-speaking population; Education; Dementia; Mild Cognitive Impairment; Alzheimer’s Disease; Latino Population; Hispanic Population; screening


  **Keywords:** Reliable change, Practice effects, Reference values, Assessment, Geriatrics

❖ Working with Interpreters

- **Citation:** Casas, R. N. (2010). Interpreter-mediated neuropsychological testing of monolingual Spanish speakers: does it have an effect on test scores? Dissertation Abstracts International: Section B: The Sciences and
The primary objective of the current study was to determine whether using an interpreter to conduct neuropsychological testing of monolingual Spanish speakers had an effect on the neuropsychological test scores.

Notes:

Keywords:
- Language Proficiency
- Neuropsychological Assessment
- Psychometrics
- Test Scores
- Interpreters
- Adulthood (18 yrs & older)
- Young Adulthood (18-29 yrs)
- Thirties (30-39 yrs)
- Middle Age (40-64 yrs)
- Aged (65 yrs & older)

Norms

- Hispanic Norms


Notes: p. 362 comprehensive reference list of available normative data for African Americans, Hispanics, and Asians by test

Keywords:normative data; African American, Hispanic, Asian neuropsychological tests

Norms of Adapted (English to Spanish) Neuropsychological Tests:

These articles will provide information about each test and the resulting norms. The tests included in this special issue are:

- The Boston Naming Test
- Verbal Fluency Tests
- The Modified Wisconsin Card Sorting Test (M-WCST)
- the Stroop Color-Word Interference Test
- The Symbol Digit Modalities Test
- The Trail Making Test
- The Brief Test of Attention
- The Rey–Osterrieth Complex Figure
- Hopkins Verbal Learning Test–Revised
The Test of Memory Malingering (TOMM).

- **Citation:** Pontón, M. O., Satz, P., Herrera, L., Ortiz, F., Urrutia, C. P., Young, R., ... & Namerow, N. (1996). Normative data stratified by age and education for the Neuropsychological Screening Battery for Hispanics (NeSBHIS): Initial report. *Journal of the International Neuropsychological Society, 2*(2), 96-104.
  
  Link: https://www.ncbi.nlm.nih.gov/pubmed/9375194
  Keywords: Hispanic norms, Battery

  
  Keywords: age, attention, culture, educational level, memory, neuropsychological test, Spanish-speaking norms

- **Citation:** Artiola i Fortuny L, Hermosillo RD, Heaton RK, Pardee RE., III. Manual de normas y procedimientos para la bateria neuropsicologica en Espanol. Tucson, AZ: 1999.
  
  Link: https://www.baterianeuropsicologica.com/
  Notes: This is a comprehensive neuropsychological testing battery adapted for the Spanish-speaking population. Test stimuli and normative data is not publicly available, but can be purchased through the above link.

  ➢ **Brazilian Norms**

- **Citation:** Leite, K. S. B., Miotto, E. C., Nitrini, R., & Yassuda, M. S. (2017). Boston Naming Test (BNT) original, Brazilian adapted version and short


Key Words: Aging; Education; Brazilian, Cognitive Assessment

➢ Mandarin/Cantonese Norms


  Link: https://www.researchgate.net/publication/6486639_The Association_between_neuropsychological_scores_and_ethnicity_language_and_acculturation_variables_in_a_large_patient_population

  Notes: p. 362 comprehensive reference list of available normative data for African Americans, Hispanics, and Asians by test

  Keywords: normative data; African American, Hispanic, Asian neuropsychological tests


  Notes: Tests used were either adopted or translated to Mandarin

  Keywords: Han Chinese population, Mandarin, subtests of WAIS-RC (Arithmetic, Digit symbol, Digit Span, Information, Block Design), subtests of WMS-RC (Logical memory, Visual reproduction), CPT-AX, Verbal Fluency Test, Trail Making Test, Stroop Color Test, WCST-M, Tower of Hanoi

- Citation: Neuropsychological Measures: Normative Data for Chinese, Second Edition (Revised) by Tatia MC Lee and Kai Wang

  Link: http://www.psychology.hku.hk/neuropsy/icn/?page_id=557&lang=cn

  Notes: This is a comprehensive neuropsychological testing battery adapted for the Chinese population. Test stimuli and normative data (in both Cantonese and
Mandarin) is not publicly available, but can be purchased through the above link. A table of content can also be viewed through the above link.

**Keywords:** Chinese population, comprehensive battery, Mandarin & Cantonese

- **Citation:** Collinson, S. L., Fang, S. H., Lim, M. L., Feng, L., & Ng, T. P. (2014). Normative data for the repeatable battery for the assessment of neuropsychological status in elderly Chinese. *Archives of Clinical Neuropsychology, 29*(5), 442-455.

  Link: [https://academic.oup.com/acn/article/29/5/442/2726811/Normative-Data-for-the-Repeatable-Battery-for-the](https://academic.oup.com/acn/article/29/5/442/2726811/Normative-Data-for-the-Repeatable-Battery-for-the)

  **Notes:** Testing was administered in participant’s preferred language (English, Mandarin, Hokkien, Teochew, Cantonese), norm stratified by age and education, not by language

  **Keywords:** RBANS, Elderly Chinese Singaporeans


  Link: [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4350916/pdf/12883_2015_Article_270.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4350916/pdf/12883_2015_Article_270.pdf)

  **Keywords:** vascular cognitive impairment, mainland Chinese population, Mandarin, Adapted tests (Animal Naming, WAIS Digit symbol coding, Trail making test, Boston naming test, RCFT copy and delayed recall, HVLT-R delayed recall, Neuropsychic Inventory Questionnaire, Geriatric Depression Scale)


  Link: [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4889053/pdf/pone.0156404.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4889053/pdf/pone.0156404.pdf)

  **Keywords:** vascular cognitive impairment, Taiwanese population, Mandarin, Adapted tests (Symbol digit modality test, Trail making test, Verbal fluency test, Boston naming test, RCFT copy and delayed recall, HVLT-R, MMSE, Geriatric Depression Scale)


   Keywords: normal health population, Mandarin, mainland Chinese population, age stratified, adapted tests (WAIS-RC Digit span, Trail making test-A, Symbol digit modality test, Five digit test, Fuld Object-Memory evaluation, Animal naming, Raven standard progressive matrices)

➢ **African Americans**


   Link: http://www.tandfonline.com/doi/full/10.1080/13854040590945337?src=recsys

   Keywords: older African American population, age-adjusted norms, English-speaking


   Link: https://www.researchgate.net/publication/6486639_The_association_between_neuropsychological_scores_and_ethnicity_language_and_acculturation_variables_in_a_large_patient_population

   Notes: p. 362 comprehensive reference list of available normative data for African Americans, Hispanics, and Asians by test

   Keywords: normative data; African American, Hispanic, Asian neuropsychological tests

❖ **Culturally sensitive interventions**

Citation: Carretero, V. I., Perez, C., Sanchez-Valladares, V., & Balbas, A. (2011). Guía práctica para familiares de enfermos de Alzheimer.

Link: http://www.fundacionreinasofia.es/Lists/Documentacion/Attachments/13/Guia%20practica%20familiares%20de%20enfermos%20de%20Alzheimer_final.pdf
Notes: This guide is completely created in Spanish and tailored for families of those diagnosed with Alzheimer's disease. The guide was developed by PwC, a privately funded philanthropy foundation in Spain. It provides very useful and user-friendly information involving various topics:
Keywords: alzheimer's, Older Hispanic Population, Hispanics with Alzheimers, aging, caregiving

Cultural Considerations in Dementia. (Portland State University, Multicultural Topics in Communications Sciences and Disorders).

Link: https://www.pdx.edu/multicultural-topics-communication-sciences-disorders/cultural-considerations-in-dementia
Notes: This resource provided by the Portland State University addresses the cultural factors that impact how different populations (mainstream American, African American, Hispanic and Latino, Chinese) perceive dementia and aging. It also discuss the role of caregivers, and long-term care among these different cultures.
Keywords: multiculturalism and dementia, aging, caregiving, Hispanics, Chinese, African Americans

Citation: Alladi S., Mekala S., Rajan A., Chaudhuri JR., Mioshi E., Krovvidi R., Surampudi B., Duggirala V., Kaul S. Impact of Bilingualism on Cognitive

**Link:** [http://stroke.ahajournals.org/content/47/1/258.long](http://stroke.ahajournals.org/content/47/1/258.long)

**Notes:** This study observed a sample of 608 patients with ischemic stroke from and studied the role of bilingualism in predicting cognitive impairment in the absence of dementia. Furthermore, it explains how bilingualism could serve as a protective factor among post stroke patients.

**Keywords:** stroke, bilingualism, neurorehabilitation, language and stroke, ischemic stroke, cross-cultural clinical neuropsychology


**Link:** [https://www.ncbi.nlm.nih.gov/pubmed/24796439](https://www.ncbi.nlm.nih.gov/pubmed/24796439)

**Notes:** Through clinical vignettes, this article addresses cultural factors that can possibly impact the behavior in patients recovering from brain injury. There is also an emphasis made in the importance of these factors among rehabilitation staff.

**Keywords:** Cultural diversity, TBI, Neurorehabilitation, brain injury, crosscultural neurorehabilitation, clinical neuropsychology


**Notes:** This study looked at the common misconception TBI ethnic minorities have in terms of their recovering process. The researchers highlighted the importance of understanding how these misconceptions can assist in tailoring appropriate education programs for racial/ethnic minorities who are Spanish-speaking.

**Keywords:** head trauma, neurorehabilitation, ethnic groups, clinical neuropsychology, spanish-speaking patients, TBI and minorities

- **Citation:** Traumatismo craneoencefálico basado en la evidencia. (n.d.)
Collaborators from St Joseph’s Health Care, University of London, Ontario, Canada, as well as from the University Clinic of Navarra (Spain), developed this website which encompasses evidence-based information regarding cranioencephalic trauma. This resource is tailored for professionals working with Spanish-Speaking populations in the rehabilitation of acquired brain damage. The website includes an accessible and highly scientific tool that synthesizes the existing scientific evidence in Spanish, in relation to the process of neurorehabilitation.

Keywords: TBI, neurorehabilitation, Spanish resources for TBI, neuropsychology, clinical neurorehabilitation, resources in Spanish

Test Administration/Interpretation

➢ Test Selection and Interpretation

• Citation: Tony M. Wong, Daryl E. Fuji (2010). Neuropsychological Assessment of Asian Americans: Demographic Factors, Cultural Diversity, and Practical Guidelines.

Link: https://www.ncbi.nlm.nih.gov/pubmed/15471744
Keywords: neuropsychological assessment, Asian American, cultural diversity, cultural variables
Notes: When selecting appropriate tests for less acculturated Asian Americans, the ideal is to administer tests developed and validated with a specific ethnic group.

• Citation: Tony M. Wong (2006). Ethical Controversies in Neuropsychological Test Selection, Administration, and Interpretation. DOI: 10.1207/s15324826an1302_2

Link: https://www.tandfonline.com/doi/pdf/10.1207/s15324826an1302_2
Keywords: ethical controversies, neuropsychological test selection, administration, interpretation

• Citation: Daryl E. M. Fujii (2018). Developing a cultural context for conducting a neuropsychological evaluation with a culturally diverse client: the ECLECTIC framework. DOI: 10.1080/13854046.2018.1435826
Various neuropsychological researchers and clinicians have identified cultural characteristics that can impact fairness in testing as identified by AERA standards (2014). Pertinent characteristics can be summarized by the acronym ECLECTIC:

- E: Education: level, quality, and literacy
- C: Culture and acculturation
- L: Language spoken and English proficiency
- E: Economic issues
- C: Communication style
- T: Testing situation: comfort and motivation
- I: Intelligence: concept of
- C: Context of Immigration

**Citation:** Ignacio David Acevedo-Polakovich, Geneva Reynaga-Abiko, Patton O. Garriott, Karen J. Derefinko, Mary K. Wimsatt, Lauren C. Gudonis, and Tamara L. Brown (2007). Beyond Instrument Selection: Cultural Considerations in the Psychological Assessment of U.S. Latinas/os


Keywords: psychological assessment, cultural sensitivity, multiculturalism, Hispanic, Latinos

**Performance Validity**

**Citation:** Test of Memory Malingering (TOMM): Normative data for the Latin American Spanish speaking adult population

Link: [https://content.iospress.com/articles/neurorehabilitation/nre151287](https://content.iospress.com/articles/neurorehabilitation/nre151287)

Keywords: PVT, Test of memory malingering

**Citation:** Nijdam-Jones, A., & Rosenfeld, B. (2017). Cross-cultural feigning assessment: A systematic review of feigning instruments used with linguistically, ethnically, and culturally diverse samples.

Link: [http:psycnet.apa.org/record/2017-01380-001](http:psycnet.apa.org/record/2017-01380-001)

Keywords: malingering, PVT
• Citation: Lorraine T. Benuto, Brian D. Leany. Assessing Effort and Malingering with the Hispanic Client.

  Link: https://link.springer.com/chapter/10.1007%2F978-1-4614-4412-1_7

❖ Other Multicultural Resources

• Citation: AACN Multicultural References, compiled by Daryl Fujii, Lidia Artiola i Fortuny, & Marc Norman (2005) (updated by Daryl Fujii 5/5/07)


  Notes: An extensive, comprehensive list of citations on both general topics in multicultural neuropsychology (e.g., bilingualism, norms, interpreters, ethics) as well as specific citations grouped by country and cultural groups. Last updated 2007.