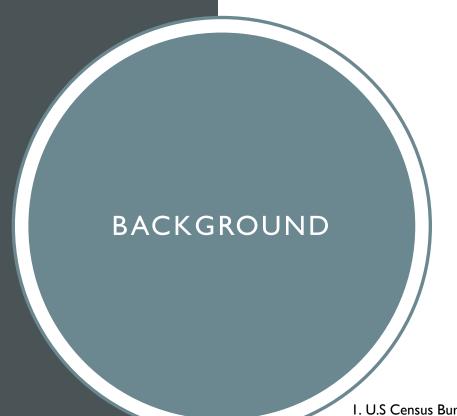
IMPORTANCE OF PROVIDING LANGUAGE CONCORDANT AUDIOLOGICAL CARE

DISCLOSURES

- Member of the Audiology En Español group
- Graduate assistant at the University of Texas at Dallas

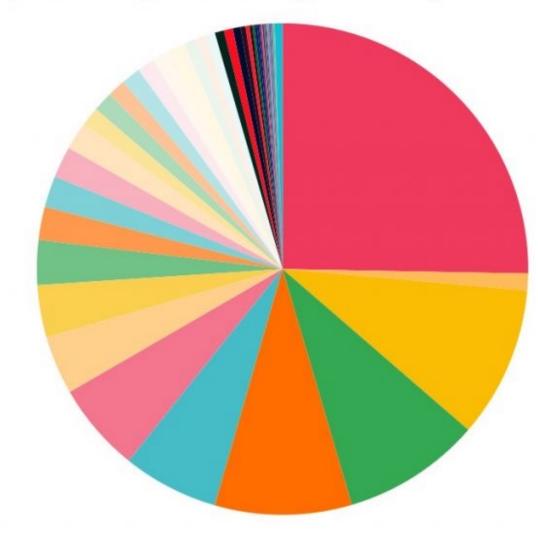


- 43.8 million Spanish speakers¹
- 13,240 audiologists nationwide³
- 2.8% of audiologists are bilingual^{2,3}
- I audiologist per 25,034 people^{1,3}
- I bilingual audiologist per I 17,295 people^{1,2}
- I. U.S Census Bureau (2020). United States. Retrieved from https://data.census.gov/cedsci/profile?g=0100000US.
- 2. American Speech-Language-Hearing Association. 2021 Demographic profile of ASHA members providing multilingual services. www.asha.org.
- 3. US Bureau of Labor and Statistics. Retrieved 07, June, 2022. Occupational Employments and Wages, March 2021. (2021). U.S. Bureau of Labor Statistics. Retrieved 2022, from https://www.bls.gov/oes/current/oes291181.htm#st

(All) Spanish Speakers by Country

- Mexico
- United States
- Colombia
- Spain
- Argentina
- Venezuela
- Peru
- Chile
- Ecuador
- Guatemala
- Cuba
- Dominican Republic

63 more



PREVALENCE OF HL IN THE LATINO POPULATION

- 15% of Americans 18 and older have hearing loss |
- 15.1% of Hispanic/Latino individuals have hearing loss¹

I. Cruickshanks KJ, Dhar S, Dinces E, et al. Hearing Impairment Prevalence and Associated Risk Factors in the Hispanic Community Health Study/Study of Latinos. *JAMA Otolaryngol Head Neck Surg.* 2015;141(7):641–648. doi:10.1001/jamaoto.2015.0889

LANGUAGE CONCORDANT CARE

• The ability of the patient and provider to speak the same non-English language 1,2

I.. Ngo-Metzger, Q., Sorkin, D. H., Phillips, R. S., Greenfield, S., Massagli, M. P., Clarridge, B., & Kaplan, S. H. (2007). Providing high-quality care for limited english proficient patients: The importance of language concordance and interpreter use. *Journal of General Internal Medicine*: *JGIM*, 22(2), 324–330. https://doi.org/10.1007/s11606-007-0340-z

^{2.} Molina, R. L., & Kasper, J. (2019). The power of language-concordant care: A call to action for medical schools. *BMC Medical Education*, 19(1), 378–378. https://doi.org/10.1186/s12909-019-1807-

ENGLISH VS SPANISH

English

• 10+ phonemic vowels

i:	Ι	Ծ	u:
sh <u>ee</u> p	sh <u>i</u> p	<u>goo</u> d	sh <u>oo</u> t
е	ə	3:	၁:
b <u>e</u> d	teach <u>er</u>	b <u>ir</u> d	d <u>oor</u>
æ	٨	a:	a
c <u>a</u> t	<u>u</u> p	f <u>ar</u>	<u>o</u> n

Spanish

5 phonemic vowels



English

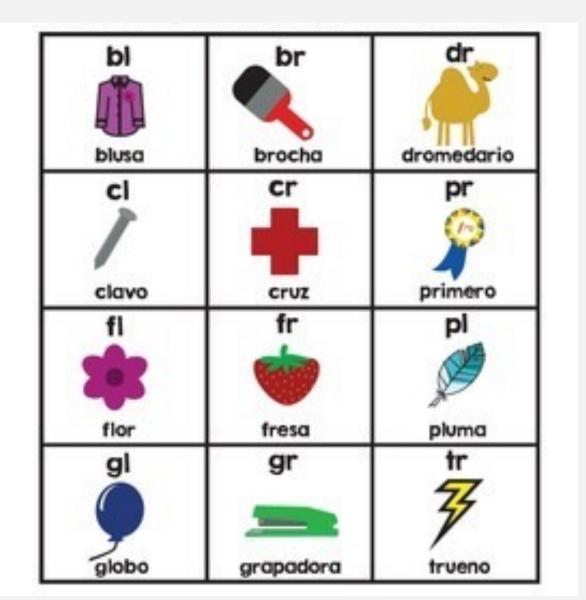
30+ onset consonant clusters

Consonant Blends & Digraphs th wh ch sh shark whistle chin thumb bl gl flower blueberry clown glue sk рl SC slide plane skunk scarf sm sn sp smoke snail spoon cr SW 🗊 br dr crab broccoli swan dress fr gr frog grapes pretzel truck str 🐠 spl spr scr sprinkle strike scream

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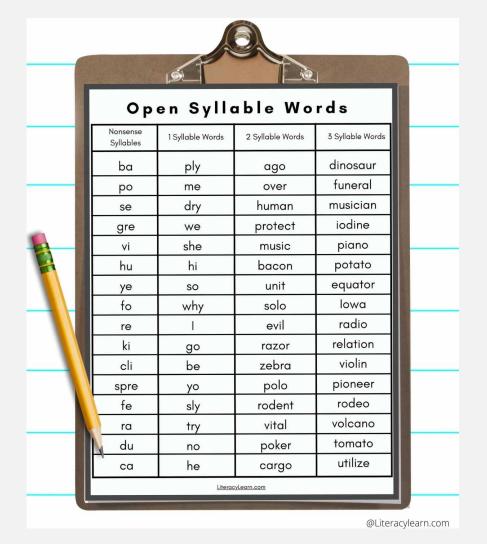
Spanish

12 onset consonant clusters



English

28.9% open syllable



Spanish

71.8% open syllable



CONSIDERATIONS FOR CREATING SPANISH WORD LISTS

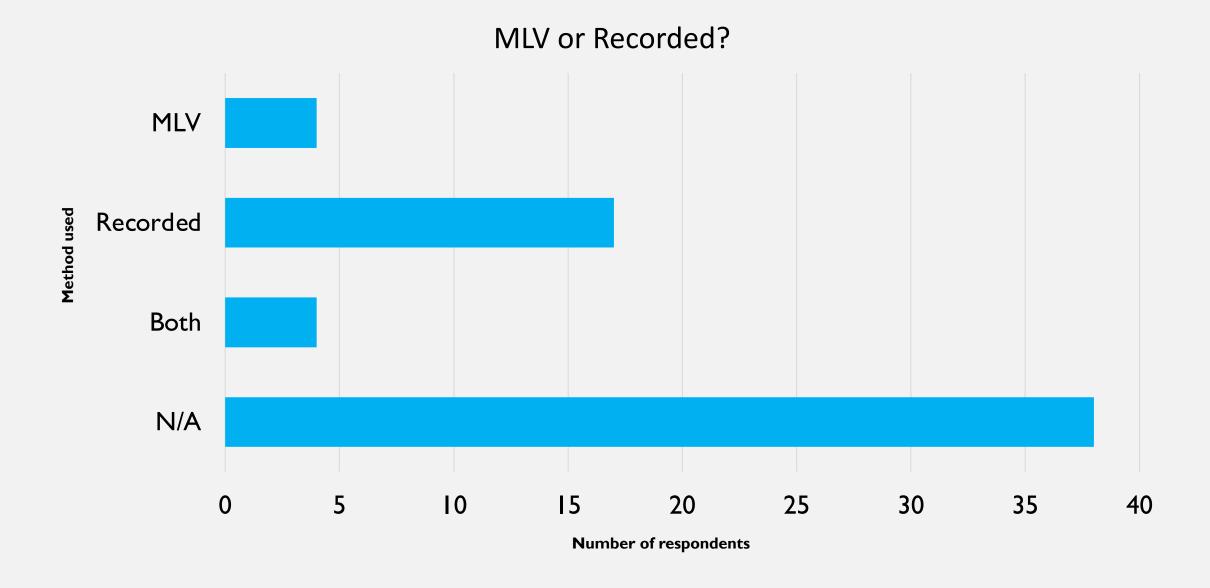
- Lists cannot be directly adapted from English
- Monosyllables are infrequent in Spanish
- Words must be familiar to the listener
- Average difficulty

AVAILABILITY OF SPANISH SPEECH ASSESSMENTS

- AZ Bio
 - http://www.auditorypotential.com/purchase.html
- Trisyllables for SRT
- Bisyllables Word Recognition lists
- Monosyllable Word Recognition lists
 - https://auditec.com/2015/09/30/spanish-auditorytest-cd/

SURVEY OF VA AUDIOLOGISTS RESULTS

- 63 respondents from 29 states
- VA audiologists don't regularly see Spanish speaking patients
- Uncomfortable administering/scoring tests in Spanish
- Half of respondents don't have access to an interpreter service

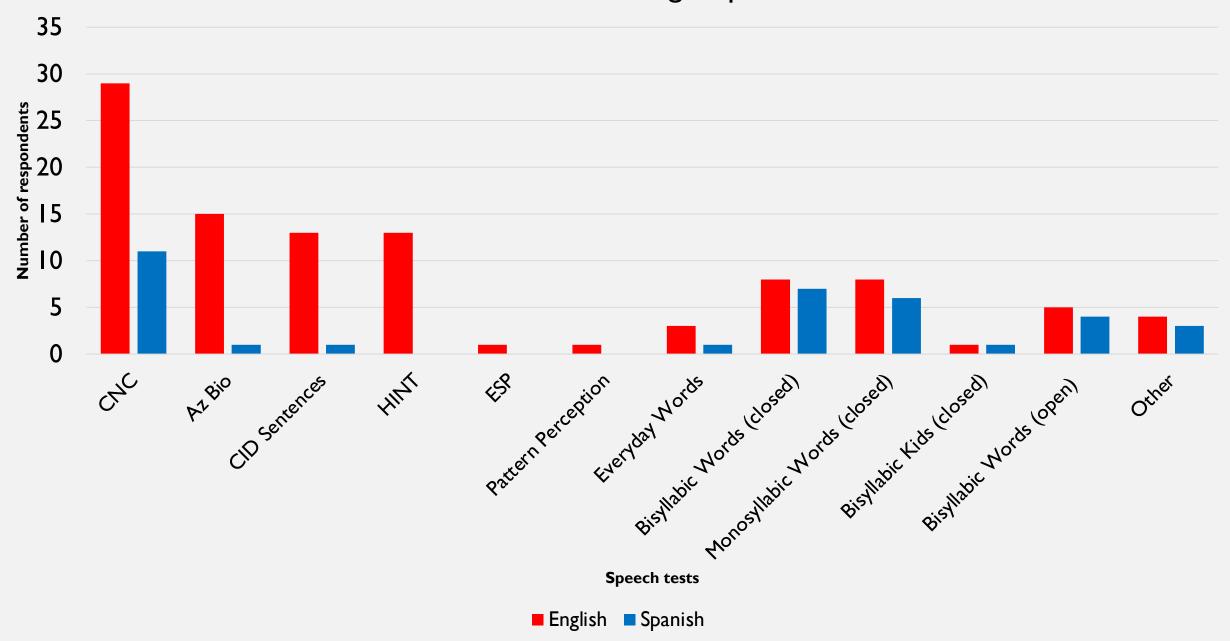




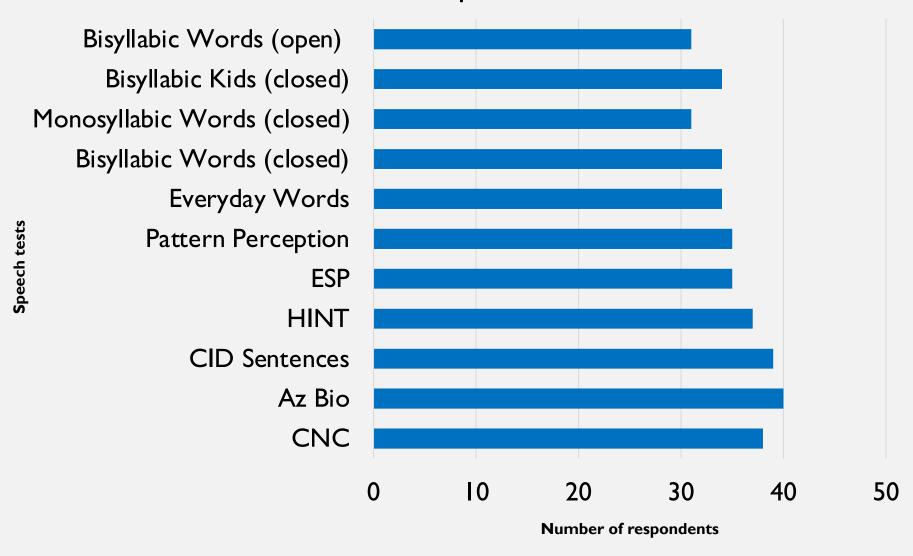
Ability to UNDERSTAND Spanish



Tests Used with bilingual patients



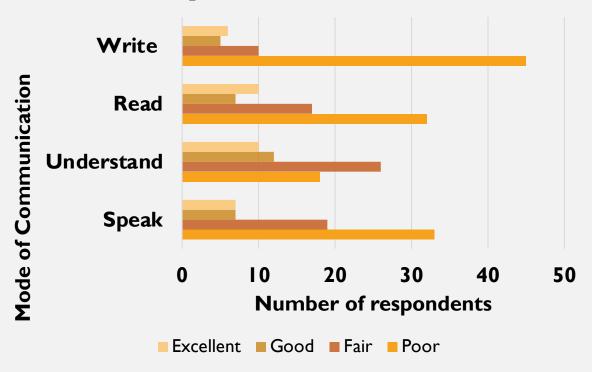
No access to Spanish version



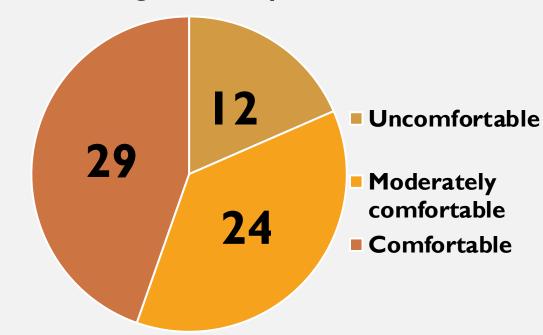
SURVEY OF CLINICAL AUDIOLOGISTS

- 66 respondents from 19 different states
 - The majority were from Texas
- Two thirds of respondents see Spanish speakers regularly

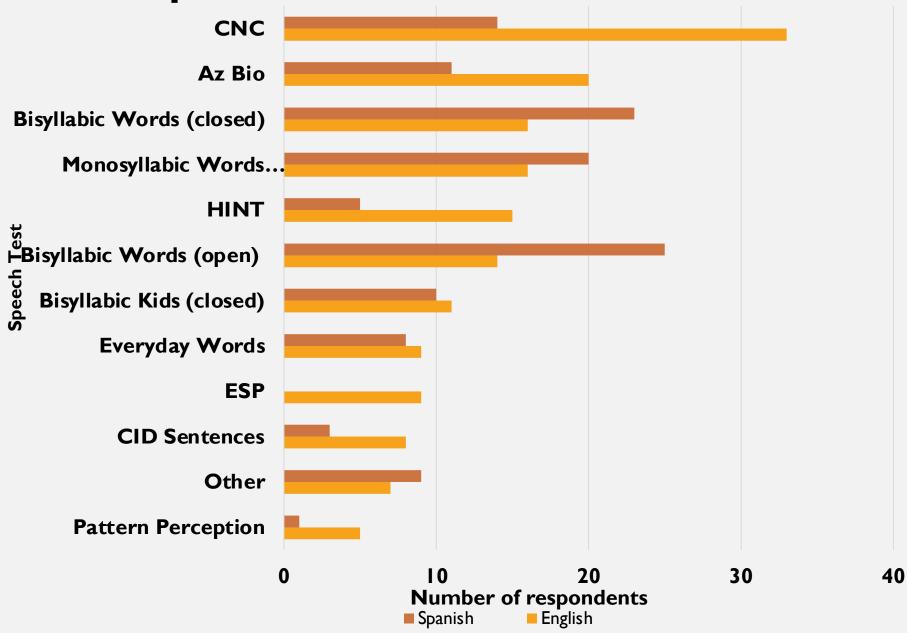
Self-reported Spanish proficiency



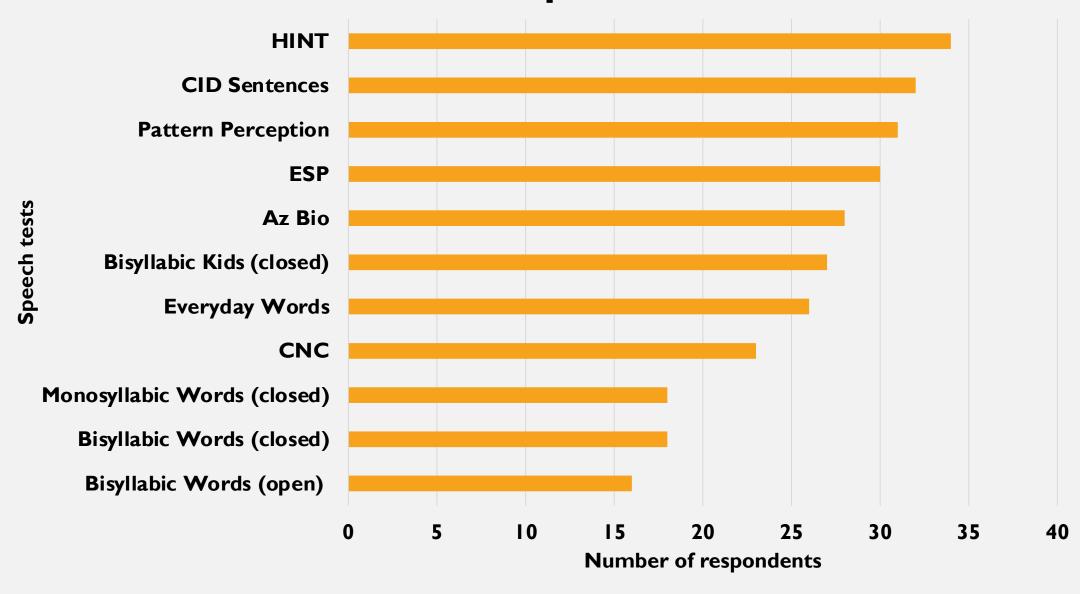
Level of Comfort administering and scoring tests in Spanish



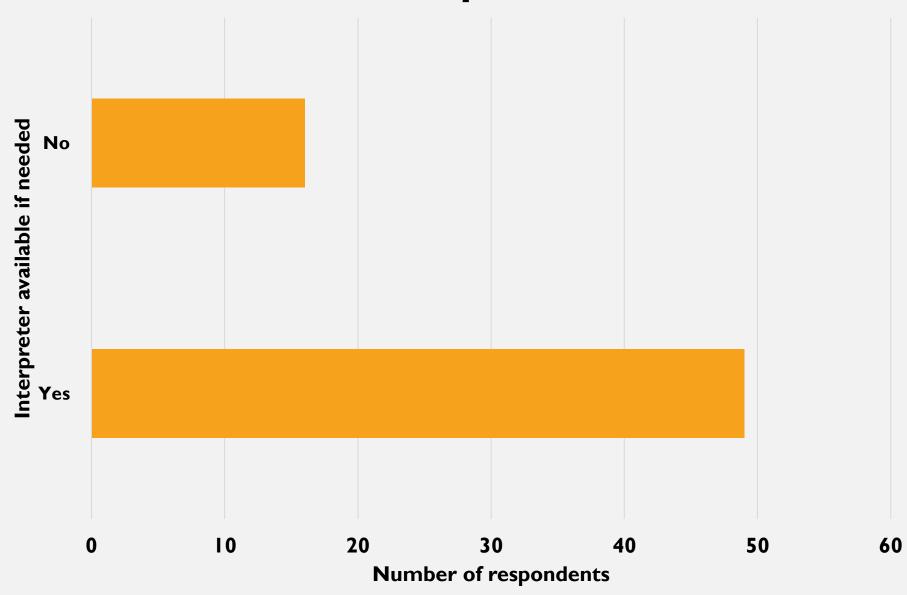
Speech tets used for assessment



No access to Spanish version



Access to interpreter service



DISCUSSION/ THEMES

- There are currently no widely accepted protocols for assessing bilingual patients and audiologists use a variety of different speech tests.
- Approximately a quarter of all respondents self-reported their ability to speak and understand Spanish as good or excellent but over half of all respondents indicated that they were comfortable administering and scoring tests in Spanish.
- Few audiologists can provide language concordant care to Spanish-speaking patients.

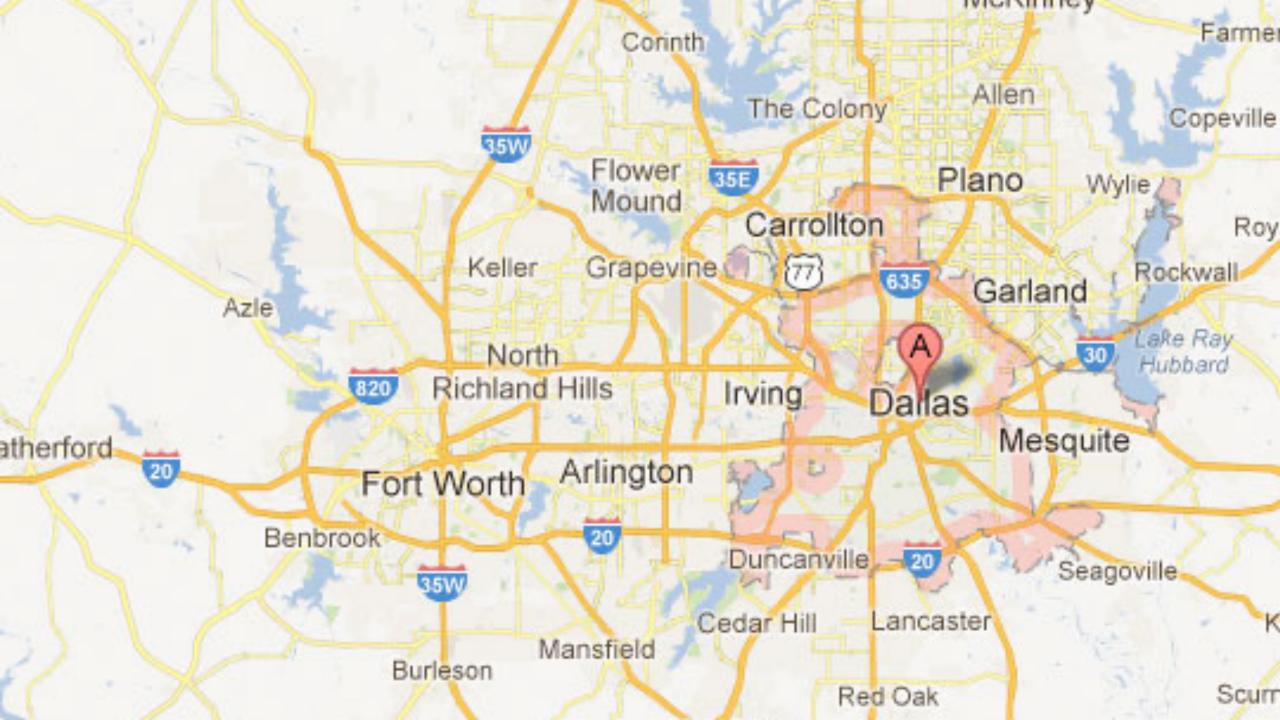
ADDRESSING LANGUAGE DISCORDANT CARE



TRAINED MEDICAL INTERPRETERS

THREE PROBLEMS TO SOLVE

- Lack of providers
- Lack of second language proficiency to be effective as a clinician
- Limited test materials



INCREASE
THE NUMBER
OF
CLINICIANS
WHO
PROVIDE
BILINGUAL
SERVICES

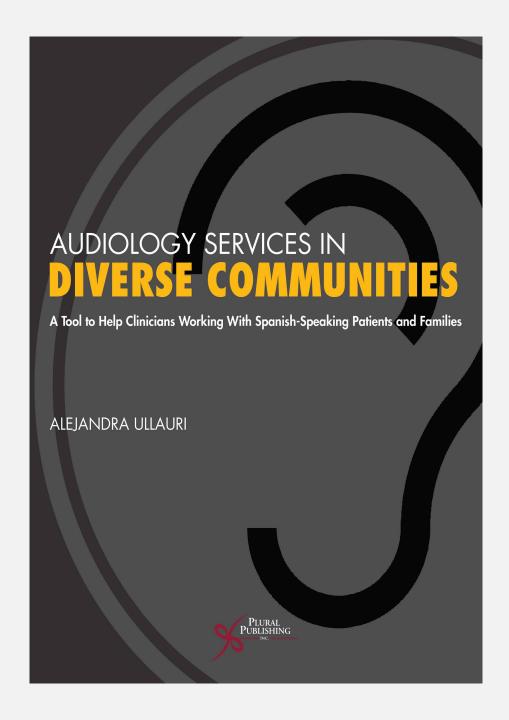
- 1:117,000 \rightarrow 1:100,000
- Training for clinicians and students
- Ample clinical opportunities with bilingual patients

ASSESS SECOND LANGUAGE PROFICIENCY

- Dual-role staff interpreter linguistic competency¹
 - Oral and written exams
 - College level proficiency



I. Moreno, M. R., Otero-Sabogal, R., & Newman, J. (2007). Assessing dual-role staff-interpreter linguistic competency in an integrated healthcare system. *Journal of General Internal Medicine*: *JGIM*, 22(2), 331–335. https://doi.org/10.1007/s11606-007-0344-8



https://www.audiologyenespanol.com/

COLLABORATION

- Partnerships with clinicians and researchers in Spanish speaking countries¹
- Collaborate with researchers across the country

CONCLUSIONS

- The best care is language concordant care
- 3 problems need to be addressed
 - No clear solutions
- Further research must be conducted
- Collaboration is needed

WHAT'S NEXT?

- 3rd year AuD and Ist year PhD student
- Continuing to conduct research surrounding this topic
- Open to collaborating

ACKNOWLEDGEMENTS

- Dr. Molis
- Dr. Lobariñas
- NCRAR



QUESTIONS

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