



## Background

- Medical interpreting goals can differ substantially from speechlanguage pathologists' (SLPs) goals, particularly in assessments
- Medical interpreters aim to ensure understanding of meaning and equivalence between two languages
- Interpreters adopt an "invisible" role during interpreted interactions, which is problematic as SLPs rely on interpreters for active explanation and overt dialogue to inform a diagnosis effectively.1
- Lack of communication between disciplines and assumptions of skills of other professionals can lead to errors.2
- Numerous errors are introduced by interpreters in the form of information that is not conveyed or added without the SLP's knowledge.
- Lack of reporting errors blinds SLPs to patients' responses, impacting accurate diagnoses.3,4,5
- Aims: This pilot study aimed to 1) train interpreters on the purpose of aphasia assessments and 2) examine whether interpreter errors in aphasia assessments decreased after training.

## Methods

### **Participants**

- 8 Spanish-English interpreters; 2-10 years of experience
- 2 PWA; fluent and anomic chronic aphasia
- 1 SLP provided evaluations
- Each interpreter participated in 2 evaluations. 1 interpreter missed the 2<sup>nd</sup> evaluation. There were a total of 15 pre- and post-evaluations. Aphasia assessments included subtests of the BDAE + BNT-short form) with 1 randomly assigned PWA pre- and post- training.

### 4 of 8 interpreters randomly assigned to a training module Intervention

### **2-hour training module**:

- SLP evaluation process, language skills evaluated (e.g., semantic error vs phonemic error)
- Interpreter role for aphasia assessment

### **Checklist Development**

- A Bilingual SLP (EL) and Spanish Linguist/Interpreter (SE) developed a list of observed error codes a priori
- The team discussed the error codes and refined the definitions
- EL & ES coded a second video using updated definitions
- The team discussed and refined the error codes again Analysis: Bayesian mixed-effects models

The number of errors was analyzed using Bayesian mixed-effects models to identify changes in error frequency between the pre- and post-training sessions. The model included population-effects for time point (pre vs. post-training), condition (training vs. no-training groups) and their interaction.

## **Training Interpreters in Aphasia Evaluations: a pilot study**

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### aphasia

- failure to point out potential patient errors (Figure 1).
- linguistic and cultural differences (Figure 2).

Figure 1. Comparison of errors by untrained and trained interpreters: Omission, meaning, and cueing



*Notes*: The y-axis represents the raw count number of errors produced by the interpreters. The x-axis represents the types of errors as follows: O1 = Omission of Patient language/speech content; O2 = Omission of Potential Patient language/speech errors; O3 = Omission of SLP language/speech; O4 = Omission of Interpreter questions/comments; O5 = Omission of linguistic or cultural context; M1 = Changes to meaning of Patient language/speech; M2 = Changes to meaning of SLP language/speech; C1 = Provides verbal cue; C2 = Provides non-verbal cue.

## Conclusions

- This pilot study results supports the need for interpreter **training** to improve interpreter-SLP collaborations in the context of aphasia assessments.
- The number of errors in an interpreted-mediated assessment are prevalent.
- Trained interpreters showed fewer errors in the post-training session
- There is a range across several types of errors, however, the **high** number of omissions is noteworthy.
- Omissions of patient productions can contribute significantly to errors in differential diagnosis.
- The categories where the contrast was most pronounced between trained and untrained interpreters were those which may directly impact an SLP's diagnosis of aphasia.

## **Results**

• The untrained group showed little change in number of errors between the first and second assessment sessions. • The trained group showed reduced errors from baseline to post-training: 1) decreased omissions of content and 2) decreased instances of

• Trained interpreters improved in recognizing and calling attention to potential language/speech errors or potential confusion based on

Although the credible interval for the interaction included zero ( $\beta = -0.45$ , 90% CI: -1.02, 0.17), 90% of its posterior distribution was less than zero, suggesting that errors for the training group decreased more than errors for the no-training group from pre- to post-training.







*Notes*: The y-axis represents the raw count number of recognition behaviors produced by the interpreters. The x-axis represents the types of recognition behaviors as follows: R1 = the interpreter points out potential language/speech errors; R2 = the interpreter points out potential instances of confusion

# Future Directions

- Consider training SLPs interpreters.

### References

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Training for interpreters is needed as their role in aphasia evaluation sessions may be different from their previous education.

better understand interpreter to training/perspectives to facilitate improved collaboration with

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