

Tailoring ASL Support for Deaf Children:

Demographic Patterns and Language Outcomes

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Background

- Language outcomes for deaf children are notoriously difficult to predict ^{1 2 3}
 - For deaf children learning spoken language, interventions can help
 - Ex: early intervention, early access to language, hearing aids / cochlear implants ^{4 5}
 - Very little is known about the effects of these on sign language outcomes
 - Children's learning environments vary widely 6 7
 - Ex: parent ASL skill, amount of language access through vision / hearing

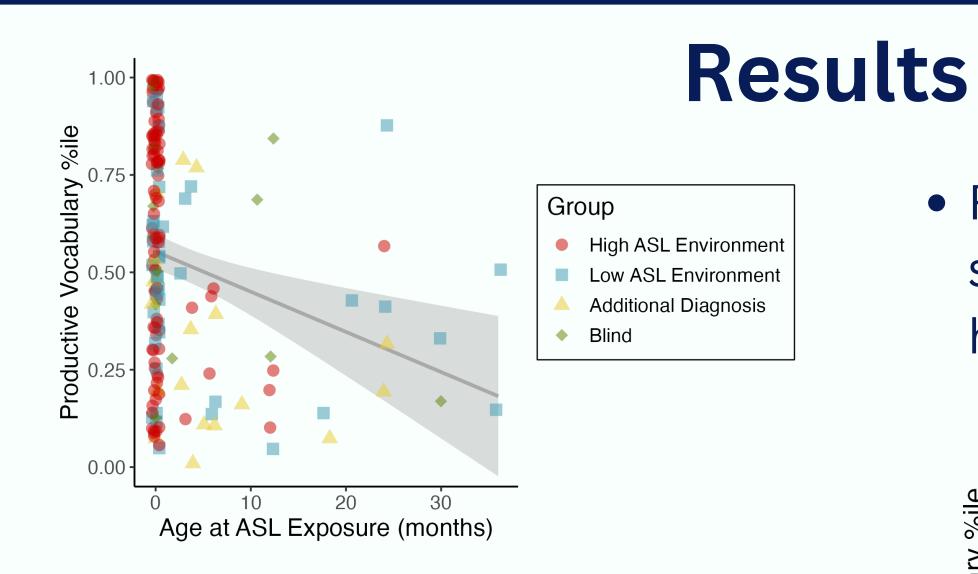
Do the relationships between intervention choices and sign vocabulary differ based on children's early life experiences?

Method

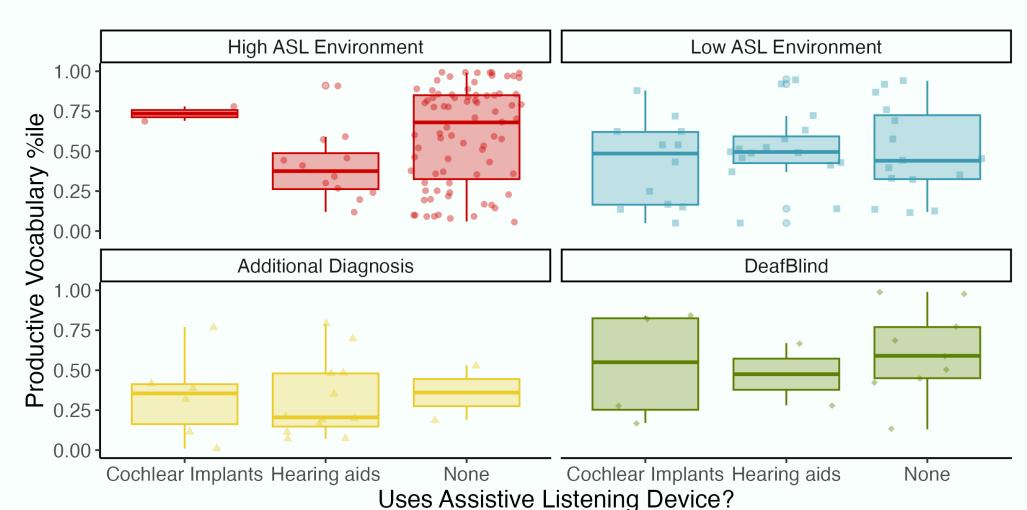
- 171 deaf children (0-5yrs; M: 2.5) learning American Sign Language
- Parents completed ASL-adapted MacArthur-Bates Communicative Development Inventory: reporting which signs their child produces
- Show English

 Child doesn't know.

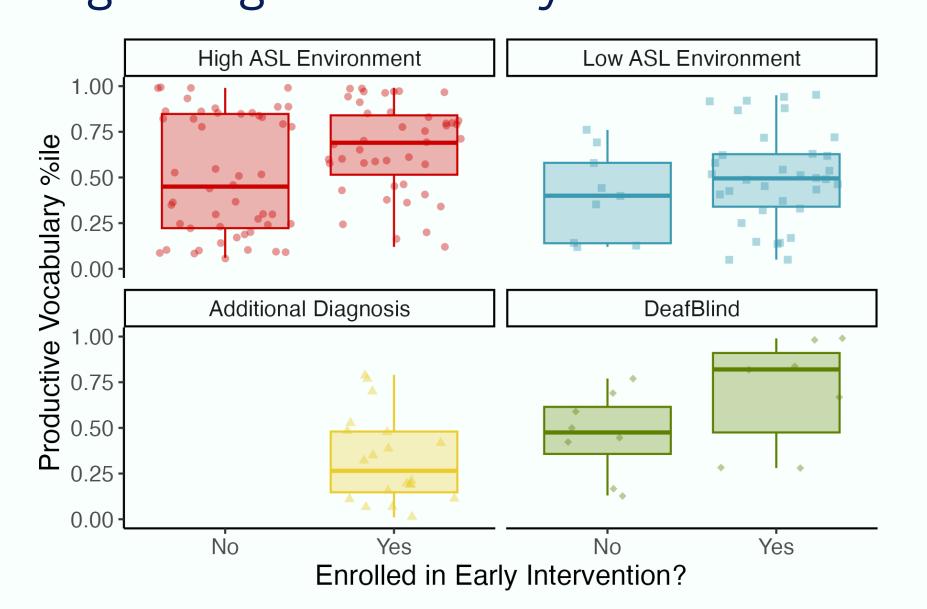
 Child understands.
- This is converted into ASL vocabulary percentile
- Using demographic information, participants split into 4 groups:
 - High ASL environment
 - Low ASL environment
 - DeafBlind
 - DeafDisabled



• For all groups, enrollment in early intervention associated with higher sign vocabulary

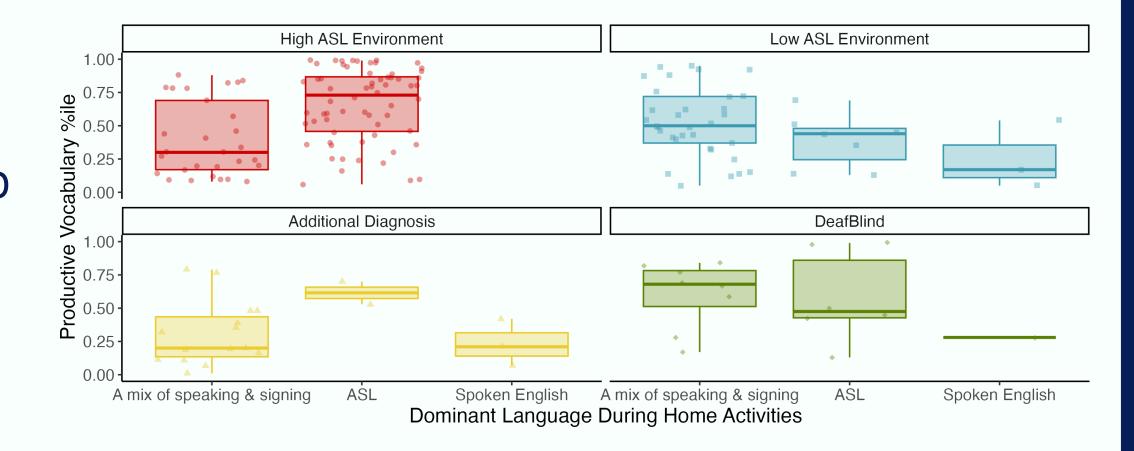


• For all children, earlier exposure to sign language is associated with higher sign vocabulary



- Across groups, no difference between CI use and no assistive listening device
 - For some groups, hearing aids associated with lower ASL vocabulary

- Using ASL during family activities associated with higher sign vocab
 - Except for DeafBlind group:
 mix of spoken/signing associated
 with higher vocab



Take-aways & Recommendations

- Early intervention and early language exposure provide consistent benefits for deaf children's spoken *and* sign language development
 - For children in low-ASL environments, sign language support should focus on getting children early access
- Providing accessible language input during home activities is associated with larger vocabulary

¹ Herman, Knoors, & Verhoeven, 2010; ² Pisoni et al., 2018; ³ Szagun & Schramm, 2016; ⁴ de Diego-Lázaro et al., 2018; ⁵ Ching et al., 2013; ⁶ Geeslin, 2007; ¹ Cupples et al., 2018