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A Feature Matching Protocol for Telepractice Augmentative and Alternative Communication (AAC) Evaluation

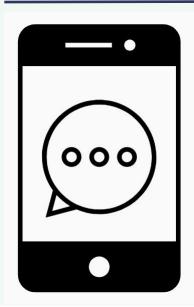
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A Feature Matching Protocol for Telepractice Augmentative and **Alternative Communication** (AAC) Evaluation



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Background

- A variety of communication modalities are used by people with communication disabilities.
- Augmentative and Alternative Communication (AAC) refers to systems, strategies, and tools used to support an individual's expressive and/or receptive communication when barriers to spoken/signed language are present.
- Speech-language pathologists (SLPs) provide evaluation and recommendations of AAC systems
- Barriers to effective service delivery
- limited training
- lack of research on efficacy of evaluation techniques;
- barriers to in-person SLP services
- SLPs transitioned clients to telepractice due to COVID-19
- Lack of evidence or guidance for telepractice AAC evaluations

 Develop a protocol for an AAC feature matching assessment to be administered via telepractice.

Barriers to in-person services including due to COVID-19 pandemic

Individuals continue to need timely access to effective communication supports

The need to communicate about health and safety is critical during global health crises.

Next Steps

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- Consult with adults with communication disabilities, including individuals who use AAC, using community-based research principles, and make revisions based on input provided
- Increase accessibility of protocol materials for access by clinicians and researchers with disabilities
- may benefit from AAC

Limitations

- This project involves co-researchers with communication disabilities, including one AAC user- however AAC user/s were not involved from project onset
- Unaided symbol sets were not included (ex. Signed Language)

Purpose

 Criterion-referenced measures were developed to assess clients using alternative access (e.g., scanning, head-pointing) in the areas of:access methods, symbol set, display type, message organization, and additional features.

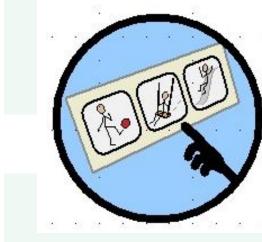
• Conduct research studies to evaluate the generalizability of the protocol to a diverse set of clients who



Davies (2020), Curtis (2014), Kanter (2020), Van Tatenhove (2013) Asynchronous • Video Observation with Permission • Questionnaire/Survey Synchronous • Technology Troubleshooting

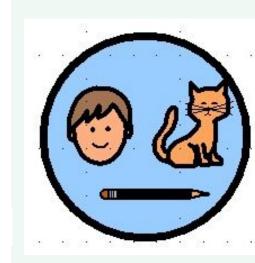


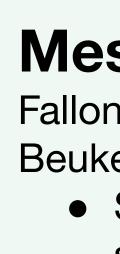
Beukelman & Light (2020) Beukelman & Mirenda (2013) • Direct Access Indirect Access (Switches)





Beukelman & Light (2020) Beukelman & Mirenda (2013) • Array Size • Layout







Display Beukelman & Light (2020) Beukelman & Mirenda (2013) • Static Display • Dynamic Display

"People with disabilities are underrepresented in teams designing and conducting research... Very few published studies in the rehabilitation literature have included consumers in the research process in roles other than research subject."

Methods

Pre-Assessment

- Interview

Access Method

Symbol Set Assessment

Beukelman & Light (2020) Beukelman & Mirenda (2013) • Receptive Formats • Functional Use • Receptive Labeling • Yes/No Alternative Visual Matching • Expressive Format

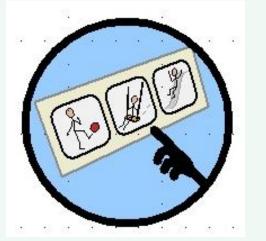
- Question and Answer
- Requesting

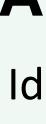
Vocabulary Presentation

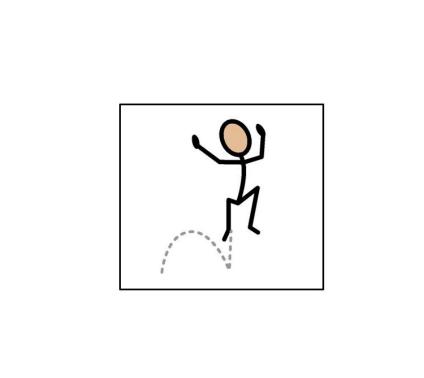
Message Organization

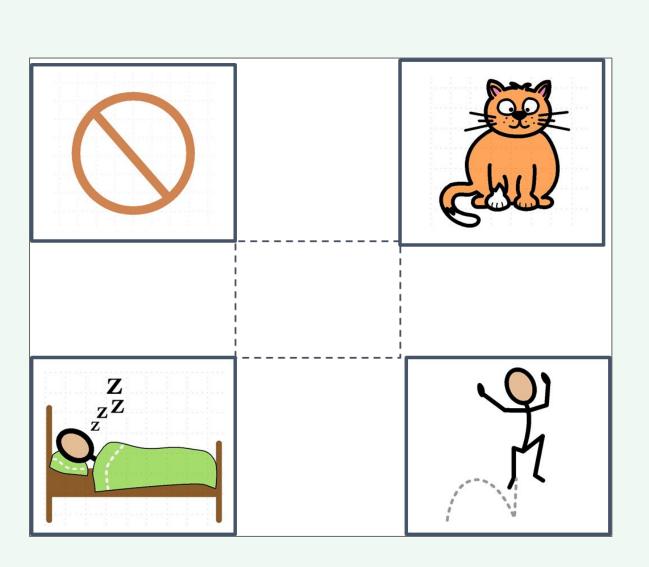
Fallon, Light, Achenbach (2003) Beukelman & Light (2020) • Sorting: taxonomic, syntactic-semantic • Sorting: activity, pragmatic, syntactic-semantic

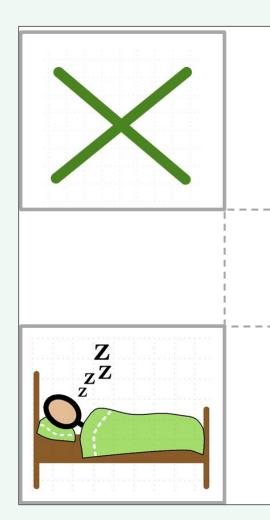
(Ehde, 2013)

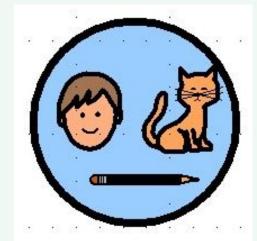




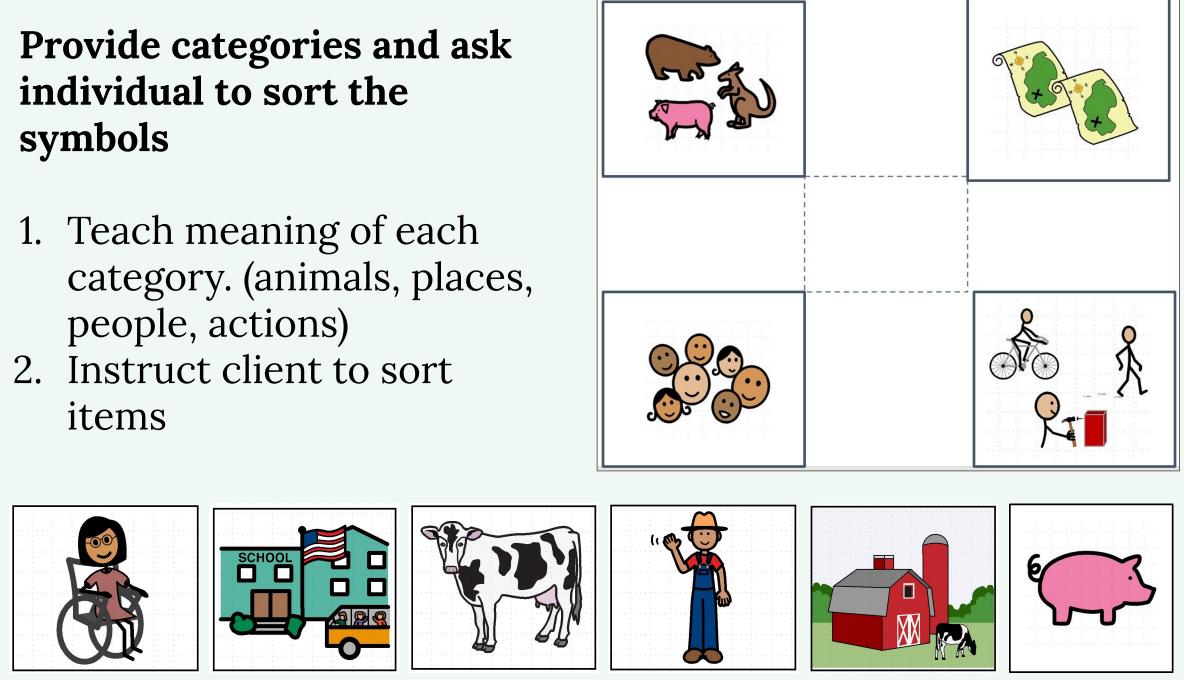








- items



Materials

(Excerpts from Protocol)

Aided Symbol Set Assessment

Identify potential types of representation

Teach Target

"Look, this symbol means jump."

Teach/Demonstrate Selection

"Let's tell (parent) to jump! We can tell (parent) to jump by choosing the jump symbol."

Demonstrate using the identified access method to choose target symbol.

Instruct parent/caregiver to jump when target is selected.

"Now it's your turn!"

Test Items 1-4

"Let's tell (parent) to jump!"

Instruct (parent) to jump if target is selected.

If a non-target cell is selected, label the symbol "Thats a (non-target item). Let's tell (parent) to jump!"

Record selection. Advance to the next item.

Message Organization

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Identify potential organization strategies

Scan QR Code for **Reference List**

