Increasing Social Interactions with Peer Partners for Adolescents with ASD using Video Visual Scene Displays

 Positive social interactions support quality of life Many individuals with ASD struggle with Background interacting socially Additional challenges for adolescents Complex communication needs

Chung, Carter, and Cisco (2012)

Background

- 51 hours of observation
 - two of the four adolescents with ASD and complex communication needs never interacted with peers
 - even when they were in close physical proximity
 - unless peer interactions were specifically planned and supported by teachers and/or staff, students with ASD and complex communication needs interacted with peers infrequently, if at all.

Rationale

- Age appropriate activity Interesting to both participants with ASD and peer partners YouTube videos
- Support communication
 - •Communication in the moment
 - Range of vocabulary AAC supports
- Provide a context for communication
 - YouTube videos

Video Visual Scene Displays (video VSDs)

 capture meaningful events within an individual's life in an integrated scene (i.e., video)

 with language concepts embedded as hotspots within the scene in order to reduce cognitive and linguistic demands

incorporate motivating interests

· Automatic pause creates a natural prompt

embed communication into the activity

• support just-in-time addition of relevant vocabulary

Just-In-Time programming



Just – In – Time Programming •Just-in-time programming allows the addition of vocabulary as it is needed in the moment

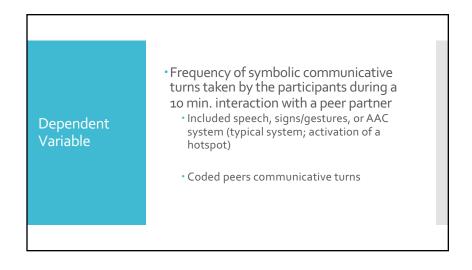
• may increase the individuals' engagement

• in the selection of vocabulary

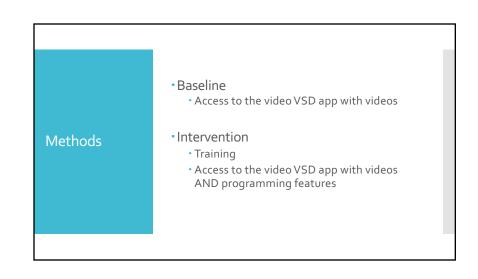
 $\boldsymbol{\cdot}$ as well as the programming process

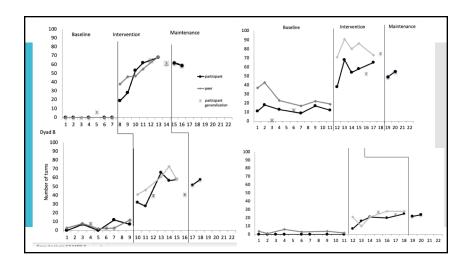
Research Question • What is the effect of a video VSD app, along with instruction in the use of the app and programming of the app, on the number of communicative turns taken by adolescents with ASD during social interactions with peer partners?

Design: Multiple probe experimental design across four dyads Participants 4 participants with ASD and complex communication needs 2 male; 2 female 4 peer partners 1 male, 3 female

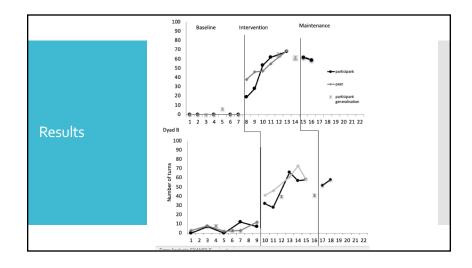


The video VSD app supports the use of videos with integrated VSDs and embedded hotspots, along with instruction and just-in-time programming Instruction Provided to the dyad A single training session Video model demonstration of the navigation of app Use of the app to communicate with a partner Wait, Respond, Expand Video model demonstration of adding hotspots with just-in-time training. approximately four minutes.

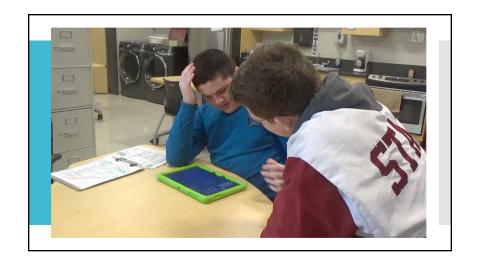




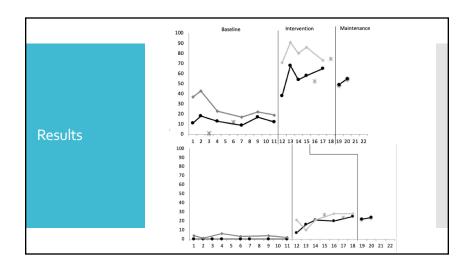




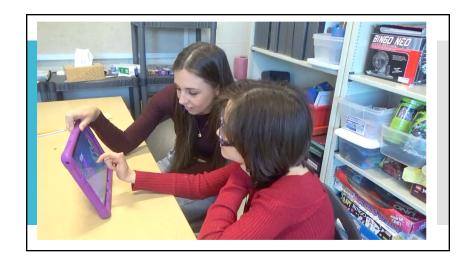




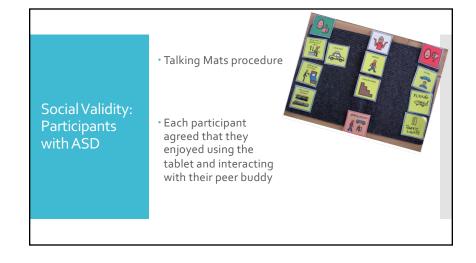














Implications

- Topic of shared interest for the participant and the peer
 - P1 enjoyed the peer's choice of video the best
- Automatic pausing of the video provides the opportunity for both the participant and the peer to contribute to the interaction
- Easy access to relevant vocabulary
- Limited need for adults



Discussion/ Questions

- Challenges in identifying areas of shared interests for adolescents with and without disabilities
 - Other activities?
- Creating opportunities for more balanced social interactions that represent the reciprocity typically identified in conversations
 - Initiations vs. responses
- Considerations for interventions that are easy to implement for both staff and peer partners

