

Handout

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Uniqueness of Communication Deficits in ASD

- Compounded by deficits in:
 Social connectedness/ orientation toward other
- Understanding/using nonverbal communication
 Responding restricted to particular stimuli
 Complex communication needs

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Access to Communication as a Basic Civil Right Communication is ubiquitous

Difficulty communicating leads to...

Evidence-Based **Communication Interventions**

- Behavioral interventions (prompts, task analysis, time delay, reinforcement)

 Augmentative and alternative communication interventions

 Functional communication training

 Naturalistic behavioral interventions (PRT, Incidental teaching)

 Modeling (video and in vivo)

 Peer-mediated interventions

 Visual scripts

Research Support: Skills Taught • Supports limited communicative functions • Behavior regulation • Information exchange • Social Interaction • Supports early phases of communication instruction • Unfounded concerns regarding AAC and speech • Rote contexts/scenarios

Research Support:

Participant Characteristics

- Primarily preschool and elementary ages
- More support with people with ASD without co-occurring conditions
- conditions
 Girls/women tend to be underrepresented
- Little support for use of interventions with culturally and linguistically diverse learners

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Research Support

- Small scale:
 - Much of the research has been conducted with small numbers of participants
- Limited contexts:
 - Only limited research has been conducted in natural settings/contexts
 - Instructional strategies tend to be didactic
- Researcher implemented Mobile tech revolution...

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High-Tech Versus No- or Low-Tech

- Limited research
- Little apparent difference in results between high- and
- low-or no-tech

 Exception: unaided

 AAC (such as sign
 language)

 This is an emerging
- area of research

Apparent Strengths of High-Tech

- Interventions

 Social validity/
 acceptability
 Portability
 Affordability
 Increasingly intuitive
 Flexibility and just-in-time use

Integrate communication with other tech tools

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Mobile Tech-Based Interventions May Not be Suited for Everyone

- Preference
- Distractions on the device
- Difficulties with funding
- Future research on mobile tech...

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Future Directions Characteristics of participants Large group studies Adolescents and adults Matching participant characteristics to interventions or components of them Communicative functions Behavior regulation Information exchange Social Interaction	
Future Directions Intervention packages Overlap between intervention components across packages Same thing, different name Multimodal communication interventions Incorporating mobile technology	
Future Directions: Feasibility • Ease of use and to program • Likelihood of adoption and maintenance • Implementation across contexts for generalization and maintenance • Social validity/acceptability • Treatment fidelity among natural communicative partners • Costs (money and time for implementation and training) • Preference of individual with ASD and caregivers	

Future Directions

- Improving standards in
- single-case research
 Procedural integrity/
 treatment fidelity
- Description of interventionists
- Measures of social validityConsistency with
- assessments of participants

Future Directions

Addressing unestablished/ controversial treatments accepted by the public

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- Final Points
 Success of an intervention has more to do with the intervention techniques than materials/technology
 - Communicative competence: People with ASD deserve access to the full range of communicative functions

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