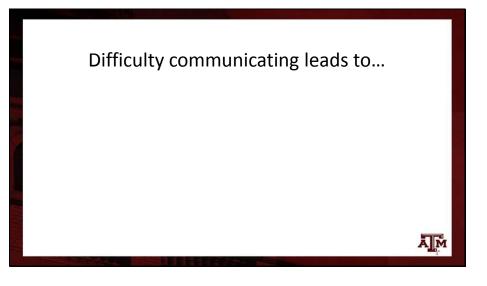


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Evidence-Based Communication Interventions

- 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

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- Supports limited communicative functions
 - Behavior regulation
 - Information exchange
 - Social Interaction
- Supports early phases of communication instruction
- Unfounded concerns regarding AAC and speech

Research Support: Participant Characteristics

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

Research Support

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- 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
- Mobile tech revolution...

High-Tech Versus No- or Low-Tech

- Limited research
- Little apparent different in results
 - between high- and low-or no-tech
 - Exception: unaided AAC (such as sign language)
- This is an emerging area of research

Strengths of High-Tech-Based Interventions for Communication • 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

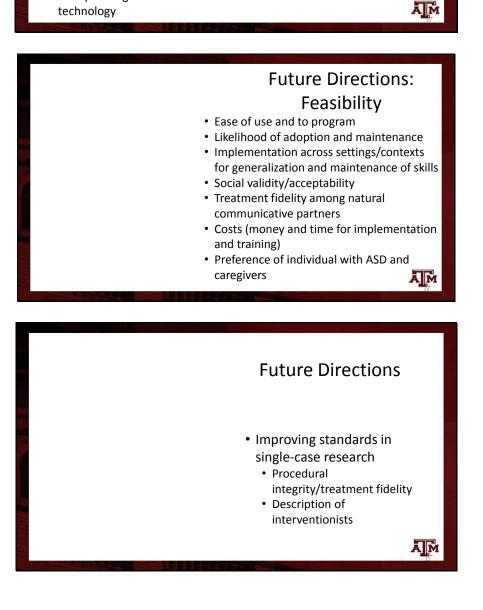
- Preference
- Distractions on the device
- Difficulties with funding
- Future research on mobile tech...

Future Directions

- Characteristics of participants
 - Large group studies
 - Adolescents and adults
 - Matching participant characteristics to interventions
- Communicative functions
 - Behavior regulation
 - Information exchange
 - Social Interaction



- Intervention packages
 - Overlap between intervention components across packages
 - Same thing, different name
 - Multimodal communication interventions
 - Expansion to broader communicative functions/skills
 - Incorporating mobile technology



Future Directions

 Addressing unestablished/ controversial treatments accepted by the public

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Final Issues

- Success of an intervention has more to do with the intervention techniques than materials/technology
- Avoid controversial/ unproven "treatments"
- Communicative competence: People with ASD deserve access to the full range of communicative functions and broad vocabularies

References

Ganz, J. B. (2015, July). A perspective on access to communication as a basic human right. *Hawks Hopes Blog: Change is a Collaborative Act* (University of Kansas Special Education Department). Retrieved from: https://hawkhopesblog.wordpress.com/2015/07/12/a-perspective-on-access-to-communication-as-a-basic-human-right/ Ganz, J. B. (in press). AAC interventions for individuals with autism spectrum disorders: State of the science and future

- research directions. Augmentative and Alternative Communication. doi: 10.3109/07434618.2015.1047532 Light, J., & McNaughton. (2015). Designing AAC research and intervention to improve outcomes for individuals with complex communication needs. Augmentative and Alternative Communication, 31(2), 85-96.
- doi:10.3109/07434618.2015.1036458
- National Autism Center. (2015). Findings and conclusions: National Standards Project, Phase 2: Addressing the need for evidence-based practice guidelines for autism spectrum disorder. Randolf, MA: Author.

Odom, S. L., Thompson, S., Hedges, B. A., Boyd, J. R., Dykstra, M. A., Duda, K. L., . . . Bord. (2014). Technology-aided interventions and instruction for adolescents with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, doi:10.1007/s10803-014-2320-6

Wong, C., Odom, S. L., Hume, K., Cox, A. W., Brock, M. E., Plavnick, J. B., Schultz, T. R., Fettig, A., & Kucharczyk, S. (2012). *Evidence-based practices update: Reviewer training*. Chapel Hill: The University of North Carolina, Frank Porter Graham Child Development Institute, Autism Evidence-Based Practice Review Group.doi: 10.1007/s10803-014-2351-z

Wong, S. L., Odom, K. A., Hume, A. W., Cox, A., Fettig, S., Kucharczyk, M. E., . . . Schultz. (2015). Evidence-based practices for children, youth, and young adults with autism spectrum disorder: A comprehensive review. *Journal of Autism Developmental Disorders*, 45(7), 1951-1966. doi:10.1007/s10803-014-2351-z



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