

High-Tech Augmentative and Alternative Communication for Individuals with IDD and  
Complex Communication Needs: A Meta-Analysis (**Search Terms**)

Jennifer B. Ganz<sup>1</sup>, Ph.D., jeniganz@tamu.edu; Kristi Morin<sup>2</sup>, M.Ed., klmorin@tamu.edu;  
Margaret J. Foster<sup>3</sup>, MPH, margaretfoster@tamu.edu; Kimberly J. Vannest<sup>4</sup>, Ph.D.  
kvannest@tamu.edu; Derya Genç Tosun<sup>5</sup>, M.Ed., deryagenc@anadolu.edu.tr; Emily V. Gregori<sup>6</sup>,  
M.Ed., egregori@purdue.edu; Stephanie Gerow<sup>7</sup>, Ph.D., stephanie\_gerow@baylor.edu

<sup>1, 2, 4</sup> Texas A&M University

4225 Texas A&M University, College Station, TX 77843-4225

<sup>3</sup> Texas A&M University

4462 TAMU, Medical Sciences Library, College Station, TX 77843

<sup>5</sup> University of Tsukuba

1-1-1 Tennodai, Tsukuba, Ibaraki 305-8577 Japan

<sup>6</sup> Purdue University

Beering Hall, West Lafayette, IN 47907-2098

<sup>7</sup> Baylor University

Marrs McLean Science 316, One Bear Place #97301, Waco, TX 76798

Corresponding Author:

Jennifer B. Ganz, Ph.D.

**Declaration of Conflicting Interest:** The authors declare no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

**Funding:** The authors received no financial support for the research, authorship, and/or publication of this article.

## Search Terms

( TI ( (developmental n1 (disab\* or delay\*)) or intellectual disab\* or autism or autistic or “pervasive developmental disorder” or (Asperger\* n1 (disorder or syndrome)) or (Down\* n1 syndrome) or (Rett\* n1 (syndrome or disorder) or “cerebral palsy” or (“complex communication” n1 need\*) ) OR AB (developmental n1 (disab\* or delay\*)) or intellectual disab\* or autism or autistic or “pervasive developmental disorder” or (Asperger\* n1 (disorder or syndrome)) or (Down\* n1 syndrome) or (Rett\* n1 (syndrome or disorder) or “cerebral palsy” or (“complex communication” n1 need\*) ) OR ( ((DE "Autism") OR (DE "Pervasive Developmental Disorders") OR DE "Asperger Syndrome") OR (DE "Cerebral Palsy" OR DE "Developmental Disabilities") ) ) AND ( AB ( speech or speak\* or communicat\* or “joint attention” or (social n1 skill\*) or intraverbal or conversation\* ) OR TI ( speech or speak\* or communicat\* or “joint attention” or (social n1 skill\*) or intraverbal or conversation\* ) OR (DE "Communication Skills" OR DE "Communicative Competence (Languages)") OR (DE "Speech" OR DE "Articulation (Speech)" OR DE "Pronunciation" OR DE "Speech Acts") AND AB ( “assistive technology” or “technology” or ((augmentative or alternative or assistive) n1 communication) or technol\* or computer\* or mobile or ipad\* or ipod\* or tablet\* or “voice-output communication aid” or “voice output communication aid” or “speech-generating device” or “speech generating device” or (communication n2 app\*) or SGD or AAC ) OR TI ( “assistive technology” or “technology” or ((augmentative or alternative or assistive) n1 communication) or technol\* or computer\* or mobile or ipad\* or ipod\* or tablet\* or “voice-output communication aid” or “voice output communication aid” or “speech-generating device” or “speech generating device” or (communication n2 app\*) or SGD or AAC ) OR DE "Assistive Technology" OR (DE "Technology") ) )