

References: Hearing Aid Technologies for Supporting Teenagers' Unique Listening Needs

Presenter: Erin Margaret Picou, AuD, PhD, CCC-A

- Elkayam, J., & English, K. (2003). Counseling adolescents with hearing loss with the use of self-assessment/significant other questionnaires. *Journal of the American Academy of Audiology*, 14, 485-499.
- English, K. (2012). Counseling Strategies for Tweens and Teens with Hearing Impairment. *Journal of Educational Audiology*, 18, 3 - 9.
- Gravel, J. S., Fausel, N., Liskow, C., & Chobot, J. (1999). Children's speech recognition in noise using omni-directional and dual-microphone hearing aid technology. *Ear and Hearing*, 20, 1-11.
- Gustafson, S. J., Ricketts, T. A., & Picou, E. M. (2021). Individual differences offer insight into clinical recommendations for directional and remote microphone technology use in children. *Journal of Speech, Language, and Hearing Research*, 64, 635-650. https://doi.org/10.1044/2020_JSLHR-20-00281
- Hsu, B. C.-L., Vanpoucke, F., Langereis, M., Dierckx, A., & van Wieringen, A. (2021). Age-related changes in listening effort for children and teenagers with normal hearing and cochlear implants. *Ear and Hearing*, 42, 506-519.
- Lakshmi, M., Rout, A., & O'Donoghue, C. (2019). A systematic review and meta-analysis of digital noise reduction hearing aids in adults. *Disability and rehabilitation. Assistive Technology*, 16, 120-129. <https://doi.org/10.1080/17483107.2019.1642394>
- McCreery, R. W., Venediktov, R. A., Coleman, J. J., & Leech, H. M. (2012). An evidence-based systematic review of directional microphones and digital noise reduction hearing aids in school-age children with hearing loss. *American Journal of Audiology*, 21, 295 - 312. [https://doi.org/10.1044/1059-0889\(2012/12-001](https://doi.org/10.1044/1059-0889(2012/12-001)
- Picou, E. M., Davis, H., Healy, K., & Tharpe, A. M. (2025). Validation of the Vanderbilt Classroom Listening Assessment Short Survey (V-CLASS) for Children with Unilateral Hearing Loss. *Ear and Hearing*.
- Picou, E. M., Moore, T. M., & Ricketts, T. A. (2017). The effects of directional processing on objective and subjective listening effort. *Journal of Speech, Language, and Hearing Research*, 60, 199–211. https://doi.org/10.1044/2016_JSLHR-H-15-0416
- Ricketts, T., & Picou, E. (2013). Speech recognition for bilaterally asymmetric and symmetric hearing aid microphone modes in simulated classroom environments. *Ear and Hearing*, 34, 601-609. <https://doi.org/10.1097/AUD.0b013e3182886d1e>
- Ricketts, T. A., Picou, E. M., & Galster, J. (2017). Directional microphone hearing aids in school environments: Working toward optimization. *Journal of Speech, Language, and Hearing Research*, 60, 263 - 275. https://doi.org/10.1044/2016_JSLHR-H-16-0097
- Sarampalis, A., Kalluri, S., Edwards, B., & Hafter, E. (2009). Objective measures of listening effort: Effects of background noise and noise reduction. *Journal of Speech, Language and Hearing Research*, 52, 1230-1240. [https://doi.org/10.1044/1092-4388\(2009/08-0111\)](https://doi.org/10.1044/1092-4388(2009/08-0111))

Valente, D. L., Plevinsky, H. M., Franco, J. M., Heinrichs-Graham, E. C., & Lewis, D. E. (2012). Experimental investigation of the effects of the acoustical conditions in a simulated classroom on speech recognition and learning in children. *Journal of the Acoustical Society of America*, 131, 232-246.
<https://doi.org/10.1121/1.3662059>