

Academy CEU Program

Volume 19, Number 9 (October 2008)

Questions refer to Olson and Shinn, “A Systematic Review to Determine the Effectiveness of Using Amplification in Conjunction with Cochlear Implantation,” pp. 657–671.

Learner Outcomes

Each reader of this article should be able to:

- Summarize how audiologists can employ evidence-based practices in making clinical decisions.
 - List two factors that limit the level of evidence found in audiology research.
 - Evaluate available evidence for recommending use of conventional hearing aids with cochlear implants.
1. Bimodal stimulation is observed most commonly in what population?
 - a. musicians
 - b. individuals with residual hearing and/or good performance with amplification in the nonimplanted ear
 - c. those who have prelinguistic hearing loss
 - d. those with bilateral implants
 2. Which is *NOT* a theoretical benefit of using amplification opposite implantation?
 - a. improved self-esteem
 - b. prevention of additional deprivation to the nonimplanted ear
 - c. bilateral advantage for listening in noise
 - d. improved localization ability
 3. When using evidence-based practice (EBP) principles, what three sources of evidence should practitioners use to assist in clinical decision making?
 - a. client values, current best evidence relative to the clinical question, and practitioner’s clinical expertise
 - b. client values, current best evidence, and expert opinion
 - c. family values and preferences, practitioner’s clinical expertise, and professional organization position statements
 - d. client values, evidence from only RCTs, and practitioner’s clinical expertise
 4. What is the first step in conducting an EBP review?
 - a. ask patient/client what information is desired
 - b. set criteria for best information
 - c. conduct a systematic database search based on the topic
 - d. identify a clinical question to answer
 5. The ranking of evidence that reflects research design is:
 - a. Steps I–III
 - b. Levels I–VI
 - c. Grades A–D
 - d. Methods A–F
 6. One finding from this review was that individuals using CI + HA:
 - a. all preferred bimodal stimulation to CI stimulation alone
 - b. none perceived additional speech understanding in the bimodal mode
 - c. many individuals obtained significantly better speech understanding in the CI + HA condition, especially in noise
 - d. many individuals obtained significantly better speech understanding in the CI + HA condition, but only in quiet
 7. Based on this review, great improvements were observed 0–6 months after CI + HA fitting. Additional improvements in speech understanding were reported after what additional period of CI + HA use?
 - a. 6–9 months
 - b. 7–12 months
 - c. 3 years
 - d. 5 years
 8. Better performance in the CI + HA condition was found in individuals with more:
 - a. subjective tinnitus
 - b. active electrodes
 - c. hearing loss
 - d. residual hearing
 9. Much audiologic research fails to reach the highest levels of evidence for intervention studies because of what limitations?
 - a. small sample sizes
 - b. participants drawn from convenient clinical populations rather than random sampling
 - c. obstacles to blinding subjects and evaluators
 - d. all of the above
 10. Most evidence identified from this review received grades of B or C, indicating _____ for the recommendation of using amplification opposite of implantation.
 - a. some support
 - b. weak support
 - c. moderate strength
 - d. strong evidence