

# JAAA CEU Program

Volume 28, Number 7 (July/August 2017)

Questions refer to Nair et al, “Verification of a Proposed Clinical Electroacoustic Test Protocol for Personal Digital Modulation Receivers Coupled to Cochlear Implant Sound Processors,” 625–635.

## Learner Outcomes:

Readers of this article should be able to:

- Cite differences between Academy fitting guidelines for frequency modulated listening systems employed with hearing aids and Academy guidelines when fitting these systems to cochlear implant users.
- Describe how electroacoustic measures can evaluate transparency of digital modulation listening systems combined with cochlear implant processors.

1. When fitting frequency modulation (FM) systems to hearing aids, Academy guidelines recommend use of:
  - a. behavioral testing
  - b. electroacoustic measures
  - c. both behavioral testing and electroacoustic measures
2. Which frequencies are averaged to calculate transparency?
  - a. 500, 1000, and 2000 Hz
  - b. 750, 1000, and 2000 Hz
  - c. 750, 1000, and 1500 Hz
3. The Schafer et al (2013) protocol utilizes a transparency measure of:
  - a.  $\pm 1$  dB
  - b.  $\pm 2$  dB
  - c.  $\pm 3$  dB
4. Research that demonstrates digital modulation technology offers superior speech in noise recognition when compared with FM listening systems has been published by:
  - a. McShefferty et al (2015)
  - b. Schafer et al (2013)
  - c. Wolfe et al (2013)
5. What is the manufacturer recommended EasyGain for Roger 14 and 17 receivers and the CI sound processors utilized in this study?
  - a.  $-10$  dB
  - b. 0 dB
  - c.  $+10$  dB
6. The dedicated receiver used with the Cochlear N5/CP810 sound processor was the Phonak Roger:
  - a. 14
  - b. 16
  - c. 17
7. The presentation level of the speech signal used in recording sound processor performance in Step 1 of the test protocol was:
  - a. 55 dB SPL
  - b. 60 dB SPL
  - c. 65 dB SPL
8. Which CI sound processor tested in this study met transparency at default gain for both protocols 100 percent of the time?
  - a. Cochlear N5 (CP810)
  - b. Cochlear N6 (CP910)
  - c. Advanced Bionics Naida CI Q70
9. For Advanced Bionics Naida CI Q70 sound processors coupled to Roger 17 DM receivers, the number of processors able to meet transparency after receiver gain was adjusted in both conditions was:
  - a. 11
  - b. 14
  - c. 16
10. One limitation of this investigation cited by the research team was:
  - a. only two cochlear implant manufacturers' sound processors were evaluated
  - b. only universal receivers were evaluated
  - c. electroacoustic measurements were recorded on equipment unavailable to most clinicians



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