

JAAA CEU Program

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Questions refer to Tan et al, “Pitch Matching between Electrical Stimulation of a Cochlear Implant and Acoustic Stimuli Presented to a Contralateral Ear with Residual Hearing,” 187–199.

Learner Outcomes:

Readers of this article should be able to:

- Discuss how pitch perception changes after cochlear implantation.
 - List two methods for evaluating nonsensory bias in pitch perception of individuals with cochlear implants.
1. One reason for success of a cochlear implant (CI) electrode design more responsive to lower frequencies apically, and more responsive to higher frequencies along the basal section, is that it:
 - a. mimics the tonotopic organization of the cochlea
 - b. improves frequency resolution
 - c. reduces the number of electrodes in the cochlea
 2. An equation originally derived to estimate characteristic frequencies along the organ of Corti (OC) was published by:
 - a. Cohen et al (1996)
 - b. Greenwood (1990)
 - c. Tan et al (2012)
 3. Cochlear implants stimulate neurons in the:
 - a. cochlear nuclei
 - b. organ of Corti
 - c. spiral ganglion (SG)
 4. A check for nonsensory bias in pitch comparisons was based on:
 - a. correlations between starting frequency and final pitch match across runs
 - b. range of starting frequencies used between initial and final pitch matches
 - c. size of standard deviations between initial and final pitch match values
 5. The Frequency Allocation Table (FAT) curve represents the:
 - a. frequency position function imposed by a CI
 - b. frequency position function prior to placement of a CI
 - c. pitch perception of normal-hearing listeners
 6. The number of participants identified as demonstrating complete adaptation was:
 - a. one
 - b. two
 - c. five
 7. Adaptation demonstrated by Participant Ten was categorized as:
 - a. complete
 - b. incomplete
 - c. near complete
 8. For nearly every participant, pitch matching (PM) curves demonstrated frequency values _____ the SG curve.
 - a. equal to
 - b. higher than
 - c. lower than
 9. About ____ of participants demonstrated PM curves identical or very close to their FAT curves.
 - a. one-third
 - b. one-half
 - c. three-fourths
 10. Previous research cited by the authors reporting significant changes in PM over time included:
 - a. McDermott et al (2009)
 - b. Svirsky et al (2001)
 - c. Vermeire et al (2015)



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