

Academy CEU Program

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Questions refer to Trimble et al, “Speech Perception Outcome in Multiply Disabled Children following Cochlear Implantation: Investigating a Predictive Score,” pp. 602–611.

Learner Outcomes

Each reader of this article should be able to:

- Rank the complexity of perception represented in the auditory tasks comprising the Pediatric Ranked Order Speech Perception score.
 - Contrast the composition of the Graded Profile Analysis score with the elements of the Pediatric Ranked Order Speech Perception score.
 - Discuss challenges faced when considering cochlear implants for individuals with multiple disabilities.
1. Prediction of postimplant performance in deaf children is related to all of the following except:
 - a. age at implantation
 - b. duration of deafness
 - c. type of hearing aid used
 - d. communication strategy before surgery
 2. Generally, pre-implant Graded Profile Analysis scores correlate well with postimplant performance:
 - a. on closed set speech perception tests
 - b. in children with pattern perception only
 - c. on open set speech perception tests
 - d. in children with multiple disabilities
 3. What is the percentage of deaf children in our implant program with multiple disabilities?
 - a. 1%
 - b. 3%
 - c. 6%
 - d. 12%
 4. The modified Battelle Developmental Inventory Screening Test, used to determine pre-implant functional disability scores, does not include:
 - a. intelligence quotient
 - b. gross motor
 - c. receptive language
 - d. personal-social
 5. The Pediatric Ranked Order Speech Perception score (PROSPER) is based on a hierarchy of sound perception and speech recognition, increasing in order of complexity from:
 - a. detection, pattern perception, open set speech recognition, closed set speech recognition
 - b. detection, pattern perception, closed set speech recognition, open set speech recognition
 - c. detection, pattern perception, open set word recognition, open set sentence recognition
 - d. pattern perception, detection, closed set word recognition, closed set sentence recognition
 6. The c-index or c-statistic assesses what aspect of a prognostic model?
 - a. goodness-of-fit
 - b. accuracy
 - c. discrimination
 - d. kurtosis
 7. The c-statistic used in this study is analogous to what other statistic?
 - a. area under the receiver operating curve
 - b. likelihood ratio
 - c. Wald chi-square
 - d. z-statistic
 8. One patient in the reported cohort was explanted because of facial nerve stimulation. This patient exhibited which birth defect?
 - a. Goldenhar syndrome
 - b. Usher syndrome
 - c. CHARGE syndrome
 - d. Down syndrome
 9. Logistic regression analysis identified what pre-implant disability score as necessary to predict with 90% probability a high PROSPER score following implantation?
 - a. 11
 - b. 14
 - c. 22
 - d. 29
 10. The authors suggest that an acceptable endpoint following cochlear implantation for multiply disabled children is:
 - a. oral communication mode
 - b. device usage
 - c. behavior improvement
 - d. any evidence of auditory awareness