Questions refer to Stewart, “Reception Thresholds for Sentences in Quiet, Continuous Noise, and Interrupted Noise in School-Age Children,” pp. 135–146.

Learner Outcomes
Each reader of this article should be able to

• Explain how the study of speech perception in fluctuating competing signals offers insight into temporal resolution abilities of listeners.
• Compare temporal resolution and processing efficiency as competing hypotheses for describing auditory development.
• Identify differences of speech recognition in interrupted noise between children and adult listeners.

1. Conditions that can worsen listening performance of children when competing signals are present include:
   a) listening through a second language
   b) history of recurrent otitis media
   c) learning disability
   d) all of the above

2. Speech recognition measured as a function of S/N in spectrally identical continuous and interrupted broadband noise allows examination of:
   a) temporal resolution
   b) spectral resolution
   c) temporal and spectral resolution
   d) acceptable noise level

3. Which of the following statements is true?
   a) the temporal resolution hypothesis suggests better temporal acuity for children than adults
   b) the temporal resolution hypothesis suggests similar temporal acuity for children and adults
   c) the processing efficiency hypothesis proposes poorer processing efficiency for children than adults
   d) the processing efficiency hypothesis proposes similar processing efficiency for children and adults

4. In this investigation, reception thresholds for sentences (RTSs) in quiet, for children, were equivalent to adult thresholds:
   a) after age 7 years
   b) after age 9 years
   c) after age 11 years
   d) after age 13 years

5. Release from masking in interrupted noise was determined by:
   a) dividing continuous noise RTS dB S/Ns by interrupted noise RTS dB S/Ns
   b) adding interrupted noise RTS dB S/Ns to continuous noise RTS dB S/Ns
   c) subtracting continuous noise RTS dB S/Ns from interrupted noise RTS dB S/Ns
   d) subtracting interrupted noise RTS dB S/Ns from continuous noise RTS dB S/Ns

6. The release from masking experienced by children in interrupted noise was:
   a) the same as adults by age 8 years
   b) no different than adults
   c) poorer than adults in all age groups of children
   d) better than adults in all age groups of children

7. Superior performance in interrupted noise was evidenced in all participants by:
   a) higher RTS S/Ns relative to RTS S/Ns in continuous noise.
   b) lower RTS S/Ns relative to RTS S/Ns in continuous noise.
   c) equivalent RTS S/Ns relative to RTS S/Ns in continuous noise.
   d) none of the above

8. The developmental differences between children and adults while listening in interrupted noise has been attributed to:
   a) masking level differences
   b) peripheral auditory maturation
   c) central auditory system maturation
   d) peripheral and central auditory system maturation

9. The release from masking observed in this investigation, collapsed across all age groups, was 9 dB. This value was:
   a) less than reported in previous investigations
   b) greater than previously reported
   c) about equal to values observed previously
   d) not compared with previously reported values

10. Administration of four Hearing in Noise Test for Children (HINT-C) 10-sentence lists can be completed in less than:
    a) 5 minutes
    b) 10 minutes
    c) 15 minutes
    d) 20 minutes
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CE Topic: Auditory Processing