

JAAA CEU Program

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Questions refer to Stuart et al, “Reception Thresholds for Sentences in Quiet and Noise for Monolingual English and Bilingual Mandarin-English Listeners,” 239–248.

Learner Outcomes:

Each reader of this article should be able to:

- Choose whether Mandarin Chinese or English speakers demonstrate superior auditory temporal resolution.
- Contrast energetic and informational masking.
- Select whether monolingual or bilingual listeners demonstrated a greater release from masking for speech recognition in their native languages.

1. Which of the following statements is true about speech perception of bilingual (BL) listeners?
 - a. perception of second language (L2) is more difficult than first language (L1) in adverse listening conditions
 - b. perception of L2 is easier than L1 in adverse listening conditions
 - c. perception of L2 is the same as L1 in adverse listening conditions
 - d. BL listeners demonstrate the same L2 perception as native monolingual (ML) listeners with equal signal-to-noise ratios (SNRs)
2. Which of the following statements is NOT true?
 - a. noise impairs speech perception because it serves as an energetic masker and/or an informational masker
 - b. both energetic masking and informational masking are central auditory processing phenomena
 - c. energetic masking occurs when noise overlaps spectral or temporal domains of a speech stimuli, making speech inaudible
 - d. informational masking refers to masking that cannot be explained by energetic masking
3. The perception of L2 in noise by BL listeners is affected by:
 - a. competing stimulus
 - b. age of L2 acquisition
 - c. length of L2 experience/use
 - d. all of the above
4. This study was novel in that nonnative listeners’ speech perception with both L1 and L2 stimuli was examined in competing:
 - a. stationary energetic maskers
 - b. nonstationary informational maskers
 - c. stationary and nonstationary informational maskers
 - d. stationary and nonstationary energetic maskers
5. Spoken Mandarin Chinese:
 - a. has more complex syllables than English
 - b. has three lexical pitches that are characterized by fundamental frequency contours
 - c. is tonal where stressed syllables have a “contrastive pitch”
 - d. includes only stops as final consonants
6. The *Mandarin Hearing in Noise Test* (MHINT):
 - a. consists of 20 lists of 12 sentences
 - b. has sentences of varying length
 - c. has similar measurement properties and test characteristics as the *Hearing in Noise Test* (HINT)
 - d. is a modification of the *Cantonese Hearing in Noise Test* (CHINT)
7. Release from masking in interrupted noise is determined by:
 - a. subtracting interrupted noise RTS dB SNRs from continuous noise RTS dB SNRs scores
 - b. subtracting continuous noise RTS dB SNRs from interrupted noise RTS dB SNRs scores
 - c. adding continuous noise RTS dB SNRs to interrupted noise RTS dB SNRs scores
 - d. averaging interrupted noise RTS dB SNRs with continuous noise RTS dB SNRs scores
8. BL Mandarin-English Chinese listeners performed significantly better (i.e., lower RTSs) than ML English listeners on the English HINT in:
 - a. quiet
 - b. interrupted and continuous noise
 - c. interrupted noise, only
 - d. none of the English HINT tasks
9. The significantly greater release from masking displayed by the ML English participants relative to the BL Mandarin-English Chinese participants with their respective L1 stimuli can be attributed to:
 - a. differential masking effects with both noises on one of the two language stimuli
 - b. differential masking effects with continuous noise on one of the two language stimuli
 - c. differential masking effects with interrupted noise on one of the two language stimuli
 - d. English participants having better temporal acuity
10. The authors concluded from their investigation:
 - a. English speakers possess poorer auditory temporal resolution
 - b. Mandarin Chinese speakers possess superior auditory temporal resolution
 - c. auditory temporal resolution is similar for Mandarin Chinese and English speakers
 - d. auditory temporal resolution was not addressed



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