

JAAA CEU Program

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Questions refer to Portnuff et al, “Safe Use of Acoustic Vestibular-Evoked Myogenic Potential Stimuli: Protocol and Patient-Specific Considerations,” 708–717.

Learner Outcomes:

Readers of this article should be able to:

- Summarize the risk of hearing loss from high stimulus presentation levels used in testing vestibular evoked myogenic potentials (VEMPs).
 - Discuss how stimulus parameters for recording VEMPs must be evaluated to minimize noise induced hearing loss.
1. Vestibular evoked myogenic potentials (VEMPs) originating from the sternocleidomastoid muscle are:
 - a. cervical VEMPs (cVEMPs)
 - b. ocular VEMPs (oVEMPs)
 - c. triceps VEMPs (tVEMPs)
 2. Acoustic stimuli considered most effective in eliciting VEMPs are:
 - a. 250 Hz bone conduction clicks
 - b. 500 Hz air conduction tone bursts
 - c. short duration electrical clicks
 3. Mattingly et al (2015) observed sudden permanent sensorineural hearing loss after VEMP testing with stimuli of:
 - a. 95 – 100 dB nHL
 - b. 128 and 135 dB pSPL
 - c. 133 dB pSPL
 4. Price (1981) suggested that for ears at the 25th percentile of susceptibility, the critical level for instantaneous damage by impulsive noises was:
 - a. 132 dB pSPL
 - b. 136 dB pSPL
 - c. 140 dB pSPL
 5. Based on Beattie and Rochverger (2001), the difference between a “fast response” sound level meter reading of a 500 Hz tone burst, and the actual peak value is approximately:
 - a. 3 dB
 - b. 6 dB
 - c. 12 dB
 6. To assess risk for acoustic trauma from VEMP stimuli, the authors recommend establishing presentation levels in:
 - a. dB m
 - b. dB nHL or dB HL
 - c. dB pSPL or dB peSPL
 7. Reducing ear canal volume from 2.0 cc to 1.0 cc changes a stimulus level by a(n):
 - a. decrease of 6 dB
 - b. increase of 3 dB
 - c. increase of 6 dB
 8. The benefit of VEMP testing might not outweigh the risk for noise induced hearing loss for:
 - a. cochlear implant candidates
 - b. elderly patients (> 70 years of age)
 - c. patients with superior semicircular canal dehiscence (SSCD)
 9. When SSCD is suspected, VEMP testing:
 - a. can begin at lower starting presentation levels
 - b. requires a larger number of trials
 - c. should not be conducted
 10. In the authors’ protocol for VEMP stimuli designed not to exceed NIOSH noise exposure values, fewer total sweeps are recommended for
 - a. cVEMPs
 - b. oVEMPs
 - c. tVEMPs



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