

JAAA CEU Program

Volume 30, Number 9 (October 2019)

Questions refer to Aithal et al, “Eustachian Tube Dysfunction and Wideband Absorbance Measurements at Tympanometric Peak Pressure and 0 daPa,” 781–791.

Learner Outcomes:

Readers of this article should be able to:

- Understand the pattern of wideband absorbance (WBA) at ambient pressure (WBA_0) and at tympanometric peak pressure (WBA_{TPP}) in ears with negative middle ear pressure.
- Consider application of WBA technology during assessment of eustachian tube function in children.

CEU Questions:

1. A single measurement of normal resting middle ear pressure (MEP):
 - a. is always indicative of normal eustachian tube function.
 - b. can describe the effects of altered MEP on sound transmission through the middle ear.
 - c. does not provide indication of pressure regulation function of the eustachian tube.
2. The limitation of Toynbee and Valsalva tests is:
 - a. They do not provide serial determination of middle ear pressure.
 - b. It is not possible to control relative amounts of overpressure or underpressure generated.
 - c. They do not indicate the dynamics of the tubal function.
3. Compensated negative middle ear pressure is:
 - a. Negative ear canal pressure equal to the positive shift in the middle ear pressure.
 - b. Positive ear canal pressure equal to the negative shift in the middle ear pressure.
 - c. Negative ear canal pressure equal to the negative shift in the middle ear pressure.
4. WBA_0 of the eustachian tube dysfunction (ETD) group demonstrated a peak in the frequencies between:
 - a. 2.5 and 4 kHz
 - b. 0.8 and 1.5 kHz
 - c. 0.25 and 2 kHz
5. WBA_{TPP} of both control and ETD groups was highest between:
 - a. 0.25 and 1 kHz
 - b. 1 and 4 kHz
 - c. 3 and 8 kHz
6. In all the three ETD groups, the difference between WBA_{TPP} and WBA_0 was largest between:
 - a. 0.25 and 1.25 kHz
 - b. 1 and 4 kHz
 - c. 4 and 8 kHz
7. The frequency region that is optimal for detecting negative middle ear pressure (NMEP) is:
 - a. 1 to 4 kHz
 - b. 2 to 4 kHz
 - c. 0.8 to 2 kHz
8. If the ear canal pressure differs from the MEP, sound transmission is reduced in the:
 - a. low frequencies.
 - b. mid frequencies.
 - c. high frequencies.
9. In ears with otitis media with effusion and NMEP, WBA_{TPP}
 - a. was restored to near normal values.
 - b. remained significantly low in the low to mid frequencies.
 - c. was better than WBA_{TPP} in the ETD group.
10. During evaluation of ETD,
 - a. measuring WBA_0 alone is adequate.
 - b. measuring WBA_{TPP} alone is adequate.
 - c. measuring and comparing both WBA_0 and WBA_{TPP} should be done.



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