

# 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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