

JAAA CEU Program

Volume 30, Number 6 (June 2019)

Questions refer to Spankovich et al, “Early Indices of Reduced Cochlear Function in Young Adults with Type-1 Diabetes Revealed by DPOAE Fine Structure,” 459–471.

Learner Outcomes:

Readers of this article should be able to:

- Discuss the evidence of compromised cochlear function in persons with type-1 diabetes.
- Summarize the source components of DPOAE fine structure based on the two-source theory.
- Consider the potential application of DPOAE fine structure in detecting early indices of cochlear pathology.

CEU Questions:

1. The literature has shown that OAE amplitudes in persons with type-1 diabetes are:
 - a. consistently reduced compared to controls
 - b. consistently higher compared to controls
 - c. contradictory with some studies showing reduced amplitude and others no difference
2. The OAE fine-structure source related to linear reflection and believed to dominate the TEOAE response is the:
 - a. distortion component
 - b. reflection component
 - c. generator component
3. The OAE fine-structure component that pertains to the non-linear element is called the:
 - a. distortion component
 - b. reflection component
 - c. deflection component
4. The DPOAE fine-structure stimuli presented in this study were performed using what kind of stimuli?
 - a. fixed frequency
 - b. sweeping frequency
 - c. mixed frequency
5. The DPOAE-level paradigm that was developed to maximize the overlap of the stimuli with changing levels is called the:
 - a. scissor paradigm
 - b. ladder paradigm
 - c. sound paradigm
6. The OAE fine-structure component that showed a significant difference between persons with type-1 diabetes compared to controls was:
 - a. the reflection component
 - b. the distortion component
 - c. the middle-ear muscle reflex
7. Which measure showed a significant difference between persons with type-1 diabetes and controls?
 - a. standard clinical DPOAEs
 - b. standard clinical TEOAEs
 - c. DPOAE fine structure
8. The results in Figure 5 show that the overall DPOAE response is very comparable in amplitude compared to which component?
 - a. the distortion component
 - b. the reflection component
 - c. the middle-ear muscle reflex
9. In regard to stimulus level, how was stimulus level related to the number of fine-structure peaks?
 - a. more peaks with higher stimulus levels
 - b. more peaks with lower stimulus levels
 - c. no difference in peak count with change in level
10. The major limitation of performing DPOAEs to obtain fine structure with standard fixed-frequency stimuli is:
 - a. cost
 - b. time
 - c. lack of code



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