

JAAA CEU Program

Volume 29, Number 7 (July/August 2018)

Questions refer to McNerney et al, “The Influence of Caffeine on Rotary Chair and Oculomotor Testing,” 587–595.

Learner Outcomes:

Readers of this article should be able to:

- Understand how oculomotor and rotary chair tests are administered and what parameters are used in the analysis of the responses.
- Describe the statistical vs. clinical significance of the consumption of caffeine on oculomotor and rotary chair tests.

CEU Questions:

1. Rotary chair testing can provide information regarding how the vestibular system functions in response to head acceleration consisting of which of the following frequency ranges?
 - a. 0.001–0.003 Hz
 - b. 0.5–1 Hz
 - c. 5–10 Hz
2. Oculomotor tests provide information regarding the function of the:
 - a. vestibulospinal reflex
 - b. vestibulocollic reflex
 - c. vestibular-ocular reflex
3. The peak absorption time of caffeine is:
 - a. 15 minutes
 - b. 30 minutes
 - c. 60 minutes
4. The half-life of caffeine typically ranges from:
 - a. 1–5 hours
 - b. 2.5–5 hours
 - c. 2.5–10 hours
5. The following is a test of otolith function:
 - a. subjective visual vertical (SVV)
 - b. trapezoidal step test
 - c. optokinetic
6. Which of the following rotary chair tests can provide information about the function of the vestibular system on the right side independent of the function of the vestibular system on the left side?
 - a. sinusoidal harmonic acceleration (SHA)
 - b. SVV
 - c. unilateral utricular centrifugation
7. Which of the following was the most commonly reported caffeine withdrawal symptom?
 - a. decreased energy
 - b. tiredness
 - c. decreased alertness
8. Which of the following oculomotor tests did not reveal a statistically-significant difference between the caffeine and no caffeine sessions?
 - a. smooth pursuit
 - b. saccades
 - c. optokinetic tests
9. When a statistically-significant result was found between the caffeine and no caffeine sessions, subjects were divided into groups based on their weekly caffeine intake. Which group continued to display a statistically-significant effect of caffeine?
 - a. low caffeine intake group
 - b. moderate caffeine intake group
 - c. high caffeine intake group
10. Which of the following parameters was used in the analysis of the SHA results obtained from rotary chair testing?
 - a. decay time
 - b. peak velocity
 - c. gain



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