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PET

2013 JRCNMT OFFICERS

The following board members were elected to serve as officers in 2013:

Chairman: Vesper Grantham, MEd, RT(N), CNMT
Vice-Chairman: Hung Q. Dam, MD

2013 SPRING MEETING

The next meeting of the Joint Review Committee on Educational Programs in Nuclear Medicine Technology is scheduled for April 12–13, 2013.

Jan M. Winn, MEd, RT(N), CNMT
Executive Director, JRCNMT

Answers to the Questions on Page 53

Question 1

Answer = A

In patients with allergy to sulfonamides, there is significant risk of serious allergic reaction, even life-threatening, with the administration of acetazolamide (1,2). Acetazolamide is a carbonic anhydrase inhibitor, which produces a vasodilatory effect on the cerebral circulation. Similar to pharmacologic myocardial perfusion scintigraphy, a significantly stenosed cerebral vessel is not able to dilate in proportion to the nonstenosed vessels, resulting in a relative low flow state and a relative underperfusion.

Question 2

Answer = D

There is a 30% decrease in radiotracer distribution to the entire left hemisphere on challenge imaging. This decrease is interpreted as a significant perfusion defect. Examples of SPECT images of regional cerebral blood flow in healthy subjects are available for review at <http://brainscans.indd.org>.

Question 3

Answer = A

The decreased radiotracer distribution, on challenge imaging, suggests a vascular involvement within the left cerebral hemisphere only.