The Neuro Image Quiz, Questions

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You are shown four axial images (fig. 1a-d) and four coronal images (fig. 1e-h) from a contrast-enhanced CT scan of a 9-month-old girl with schizencephaly; note the white arrowheads

True or False

Multiple Choice

Question 1:
Of the two major types of schizencephaly, this case is an example of closed-lip schizencephaly.

Question 4:
Open-lip schizencephaly can be diagnosed confidently when

Question 2:
Schizencephaly clearly represents sequelae of bilateral middle cerebral artery strokes occurring within the first 48 h of life.

A. The defect extends through the full thickness of the brain from the pial surface to the ventricle.
B. The defect is lined by gray matter.

Question 3:
Since focal bulging of the calvarium and thinning of the bone are rarely signs of schizencephaly, these observations should suggest instead a diagnosis of extreme hydrocephalus or arachnoid cyst.

C. The septum pellucidum is absent.
D. A and B
E. None of the above

The answers to the questions appear on pp. 54–56 of this issue.

a-d

e. e-h, Fig. 1. Axial (a-d) and coronal (e-h) images.