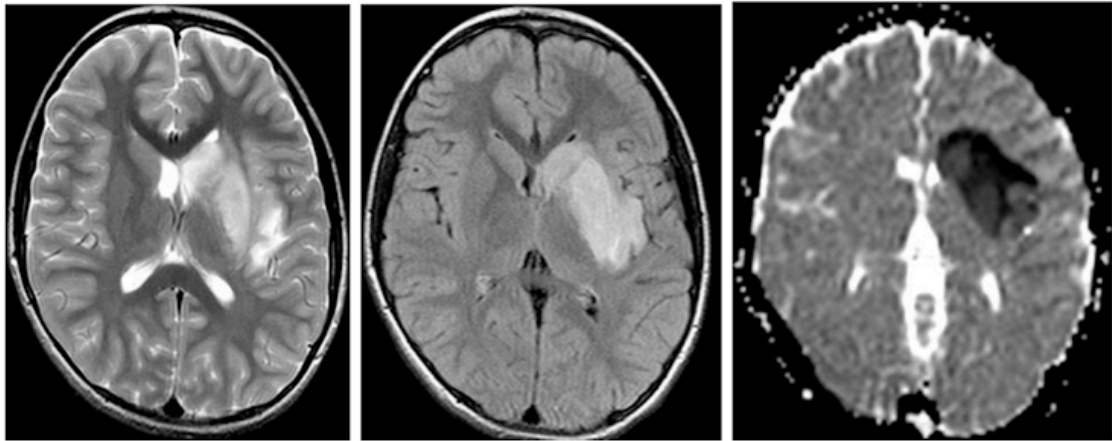


Brain Evaluation 1

1. Which vascular structure is most likely affected in the patient with the acute infarction shown in the MRI?

Answer: Left middle cerebral artery M1 segment

This is the question for you to evaluate. You don't need to answer this question. It is for you to judge its quality based on the question, options, answer and image(s).



Mark only one oval.

- ☐ Left internal carotid artery
- ☐ Right middle cerebral artery M1 segment
- ☐ Left middle cerebral artery M1 segment
- ☐ Left anterior cerebral artery
- ☐ Left posterior cerebral artery

2. Does the item reflect accurate medical knowledge, and is the keyed answer clearly the best choice?

Consider:

Are stem, options, and solution consistent with current medical practice and evidence?

Is there exactly one clearly superior answer?

Do imaging findings, clinical details, and diagnosis/management logic align?

Mark only one oval.

- ☐ 4 = Excellent: No meaningful changes needed.
- ☐ 3 = Good: Minor edits could improve clarity or precision, but item is acceptable.
- ☐ 2 = Fair: Usable only after substantial revision.
- ☐ 1 = Poor: Not acceptable in its current form; should be rewritten or discarded.
- ☐ Other: _____

3. Is the wording clear, concise, and professionally written?

Consider:

Is it clear what the question is asking?

Are medical terms used correctly and consistently?

Is the language free of ambiguity, slang, or confusing grammar?

Mark only one oval.

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4. Do the images support the question, and is visual information truly used?

Consider:

Do the images actually show the described key findings?

To answer correctly, does a learner need to look at the image, or could they answer purely from text?

Mark only one oval.

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5. Are the options well designed?

Consider:

Is there only one correct or clearly best option?

Are distractors plausible but ultimately incorrect for good reasons?

Are there no redundant, overlapping, or clearly irrelevant options?

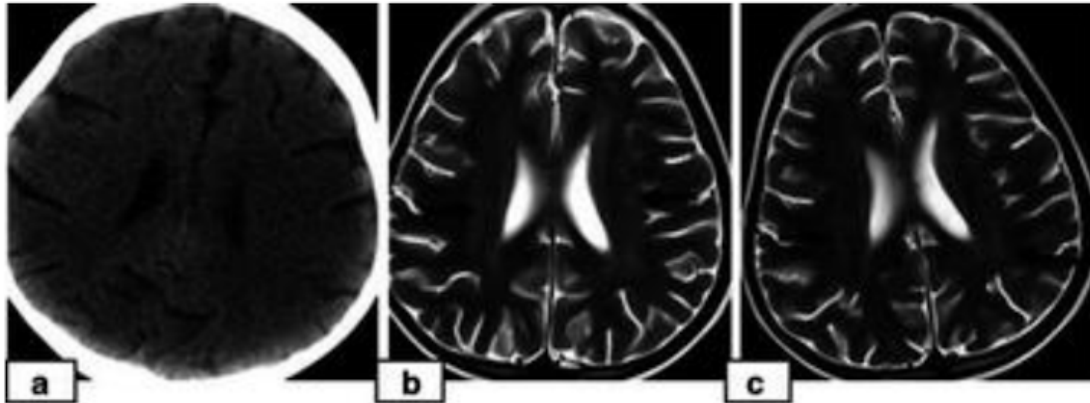
Is the difficulty reasonable (not trivial, not impossible)?

Mark only one oval.

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- ☐ 2 = Fair: Usable only after substantial revision.
- ☐ 1 = Poor: Not acceptable in its current form; should be rewritten or discarded.
- ☐ Other: _____

6. An 8-year-old girl presents with headache, nausea, and vomiting 5 months after allogeneic HSCT for ALL. Axial CT (a) shows no abnormalities, while axial T2W MRI (b) reveals increased signal intensity in the periventricular white matter. A follow-up T2W MRI (c) 3 months later shows persistent signal abnormalities. What is the most likely diagnosis?

Answer: Post-HSCT leukoencephalopathy



Mark only one oval.

- ☐ Acute subdural hematoma
- ☐ Fungal CNS infection
- ☐ Intracranial hemorrhage
- ☐ Brain abscess
- ☐ Post-HSCT leukoencephalopathy

7. Does the item reflect accurate medical knowledge, and is the keyed answer clearly the best choice?

Consider:

Are stem, options, and solution consistent with current medical practice and evidence?

Is there exactly one clearly superior answer?

Do imaging findings, clinical details, and diagnosis/management logic align?

Mark only one oval.

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8. Do the images support the question, and is visual information truly used?

Consider:

Do the images actually show the described key findings?

To answer correctly, does a learner need to look at the image, or could they answer purely from text?

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9. Is the wording clear, concise, and professionally written?

Consider:

Is it clear what the question is asking?

Are medical terms used correctly and consistently?

Is the language free of ambiguity, slang, or confusing grammar?

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10. Are the options well designed?

Consider:

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Are there no redundant, overlapping, or clearly irrelevant options?

Is the difficulty reasonable (not trivial, not impossible)?

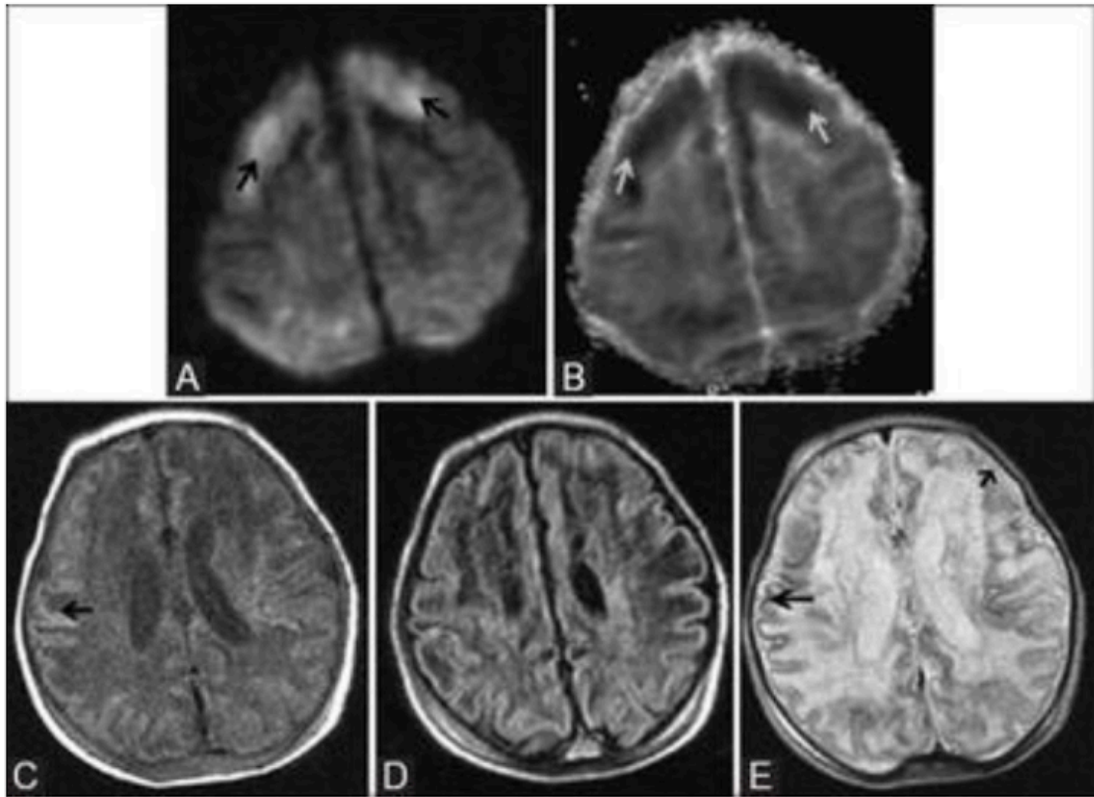
Mark only one oval.

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- ☐ Other: _____

Brain Evaluation 3

11. An 11-day-old neonate with birth asphyxia and seizures shows imaging findings consistent with hypoxic-ischemic injury. Which sequence best demonstrates the earliest sign of cortical involvement in this condition?

Answer: Axial diffusion weighted imaging (DWI)



Mark only one oval.

- ☐ Axial apparent diffusion coefficient (ADC) map
- ☐ Axial T1-weighted imaging (T1WI)
- ☐ Axial fluid-attenuated inversion recovery (FLAIR)
- ☐ Axial diffusion weighted imaging (DWI)
- ☐ Axial T2-weighted imaging (T2WI)

12. Does the item reflect accurate medical knowledge, and is the keyed answer clearly the best choice?

Consider:

Are stem, options, and solution consistent with current medical practice and evidence?

Is there exactly one clearly superior answer?

Do imaging findings, clinical details, and diagnosis/management logic align?

Mark only one oval.

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- ☐ Other: _____

13. Do the images support the question, and is visual information truly used?

Consider:

Do the images actually show the described key findings?

To answer correctly, does a learner need to look at the image, or could they answer purely from text?

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14. Is the wording clear, concise, and professionally written?

Consider:

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Is the language free of ambiguity, slang, or confusing grammar?

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15. Are the options well designed?

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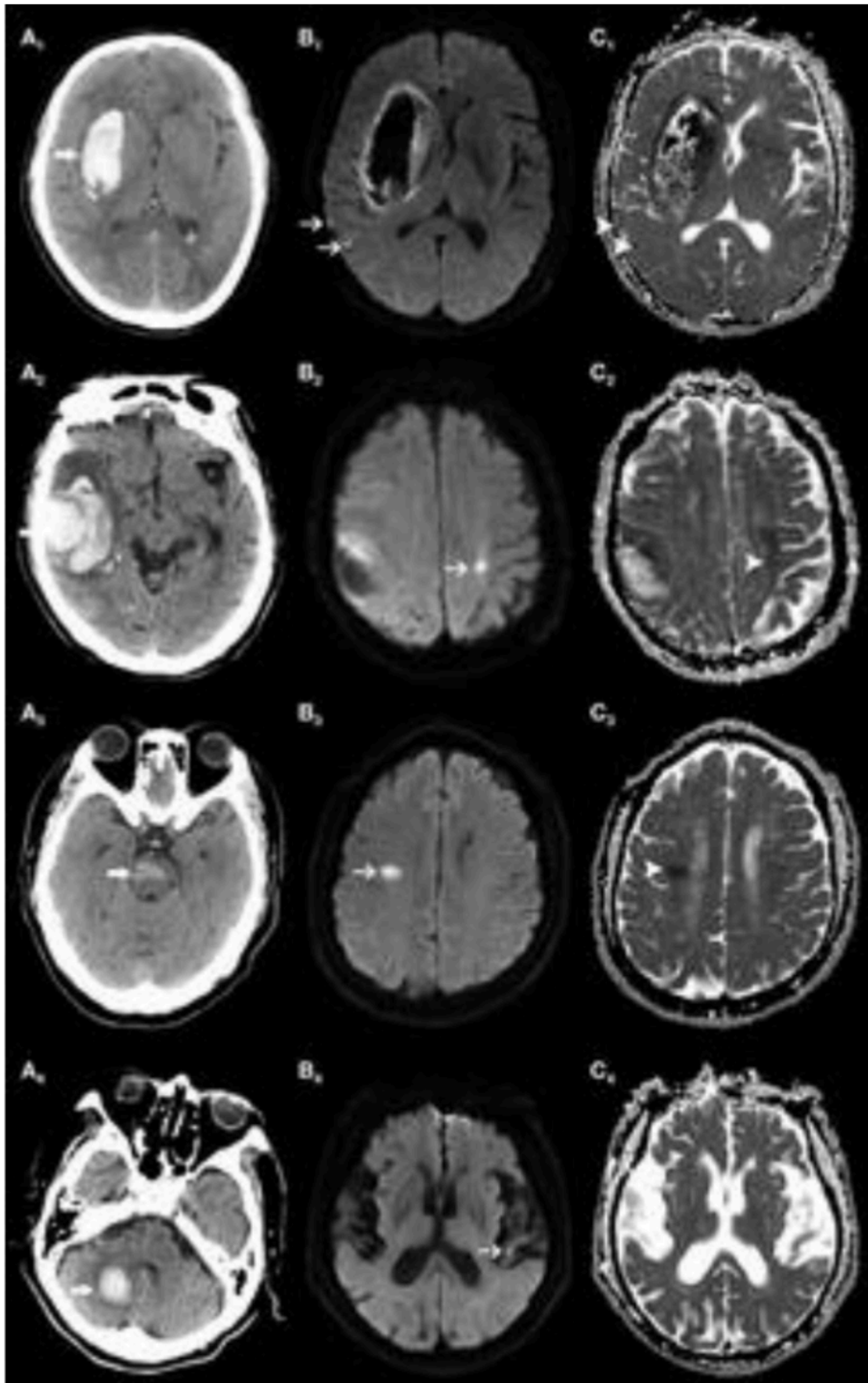
Is the difficulty reasonable (not trivial, not impossible)?

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- ☐ Other: _____

16. Which of the following best describes the location of the remote diffusion-weighted imaging lesions (R-DWILs) relative to the intracerebral hemorrhage in the provided images?

Answer: Located in cortical or subcortical areas of lobes



Mark only one oval.

- ☐ Always ipsilateral to the hematoma
- ☐ Always contralateral to the hematoma
- ☐ Located in the same lobe as the hematoma
- ☐ Located within 20 mm of the hematoma margin
- ☐ Located in cortical or subcortical areas of lobes

17. Does the item reflect accurate medical knowledge, and is the keyed answer clearly the best choice?

Consider:

Are stem, options, and solution consistent with current medical practice and evidence?

Is there exactly one clearly superior answer?

Do imaging findings, clinical details, and diagnosis/management logic align?

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18. Do the images support the question, and is visual information truly used?

Consider:

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19. Is the wording clear, concise, and professionally written?

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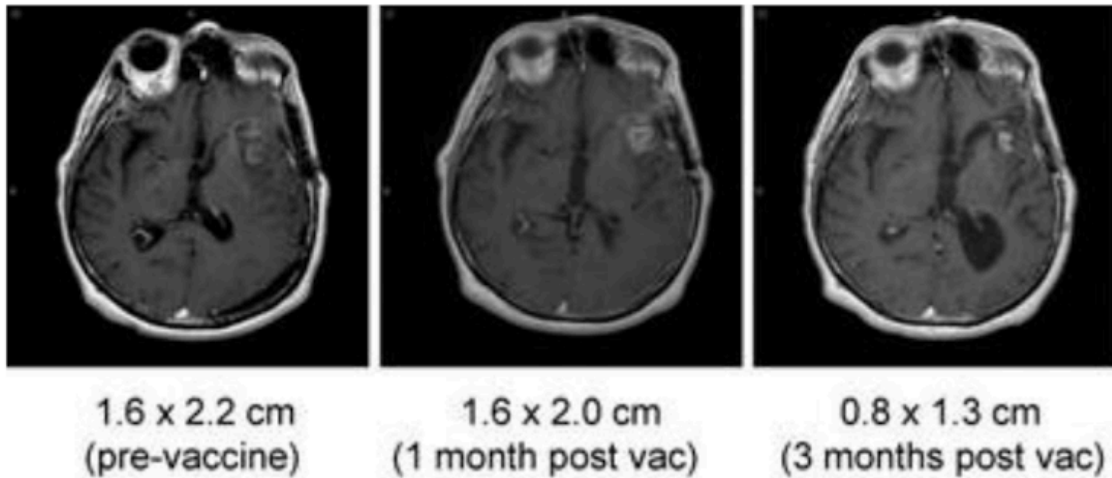
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- ☐ Other: _____

21. Which of the following best describes the change in the enhancing lesion size on serial axial gadolinium-enhanced T1-weighted MRI in this patient with recurrent glioblastoma?
Answer: Decrease in size from pre-vaccination to 1 month post-vaccination, then further decrease at 3 months



Mark only one oval.

- ☐ Stable size at all time points
- ☐ Decrease in size from pre-vaccination to 1 month post-vaccination, then further decrease at 3 months
- ☐ Increase in size from pre-vaccination to 1 month post-vaccination, then decrease at 3 months
- ☐ Increase in size from pre-vaccination to 1 month post-vaccination, then stable at 3 months
- ☐ Decrease in size from pre-vaccination to 1 month post-vaccination, then stable at 3 months

22. Does the item reflect accurate medical knowledge, and is the keyed answer clearly the best choice?

Consider:

Are stem, options, and solution consistent with current medical practice and evidence?

Is there exactly one clearly superior answer?

Do imaging findings, clinical details, and diagnosis/management logic align?

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24. Do the images support the question, and is visual information truly used?

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