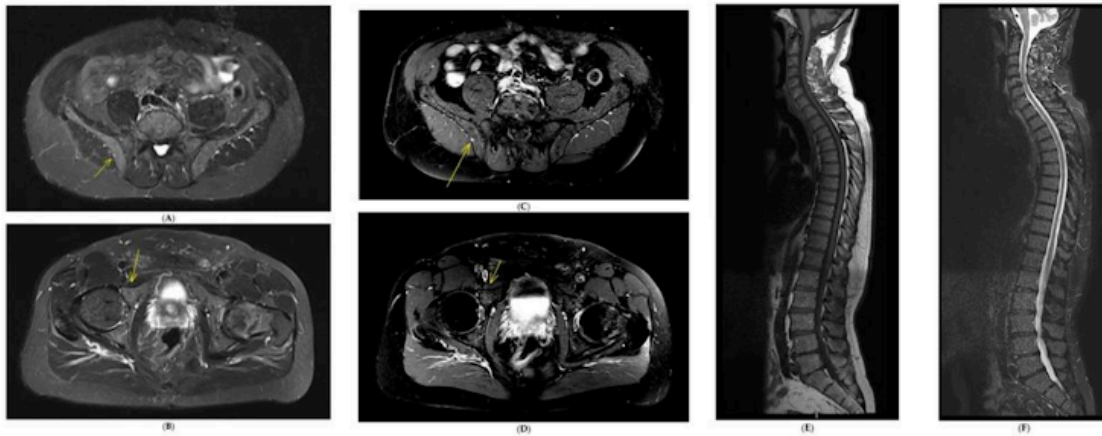


# Oncology Evaluation 1

1. Which finding on MRI is considered a myeloma-defining event in this patient with smoldering multiple myeloma?

Answer: Two focal bone lesions with increased T2 signal intensity

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.

- ☐ Diffuse bone marrow infiltration pattern
- ☐ Single focal bone lesion in the right iliac crest
- ☐ Enhancement of the spinal cord in T1-weighted images
- ☐ No focal lesions detected in the rachis
- ☐ Two focal bone lesions with increased T2 signal intensity

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?

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- ☐ Other: \_\_\_\_\_

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?

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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?

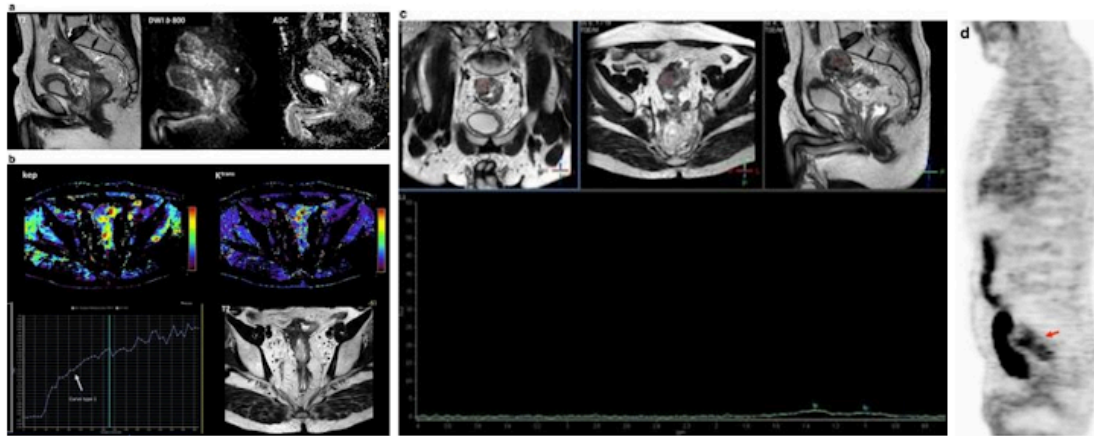
Is the difficulty reasonable (not trivial, not impossible)?

*Mark only one oval.*

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- ☐ 1 = Poor: Not acceptable in its current form; should be rewritten or discarded.
- ☐ Other: \_\_\_\_\_

6. Which imaging finding is most consistent with partial response to therapy in rectal cancer?

Answer: Decreased glucose uptake on 18F-FDG-PET



Mark only one oval.

- ☐ Decreased glucose uptake on 18F-FDG-PET
- ☐ Increased tumour volume on T2-weighted imaging
- ☐ Elevated metabolite peaks on MR spectroscopy
- ☐ Increased perfusion on Ktrans parametric map
- ☐ Reduced ADC values on diffusion-weighted imaging

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?

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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?

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9. 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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10. Are the options well designed?

Consider:

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

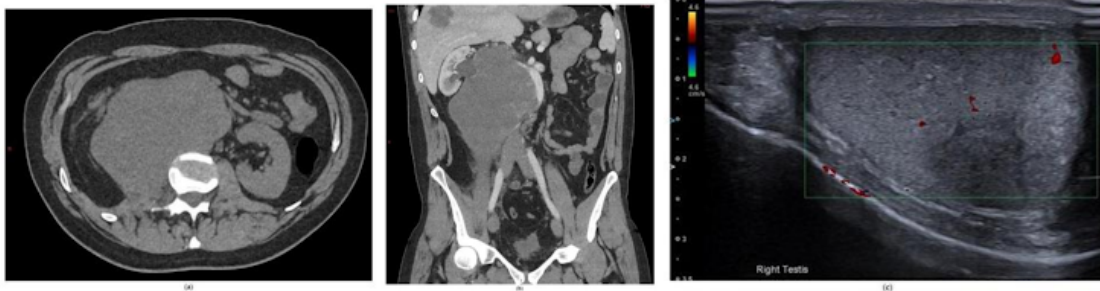
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### Oncology Evaluation 3

11. A 35-year-old male presents with acute right flank pain. Imaging reveals large retroperitoneal nodal disease, right hydronephrosis, and a solitary liver metastasis. Ultrasound of the right testis shows a solitary lesion. What is the most likely primary site of the malignancy?

Answer: Primary testicular germ cell tumor



*Mark only one oval.*

- ☐ Retroperitoneal lymphoma
- ☐ Renal cell carcinoma
- ☐ Primary testicular germ cell tumor
- ☐ Hepatocellular carcinoma
- ☐ Adrenal cortical carcinoma

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?

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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?

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15. Are the options well designed?

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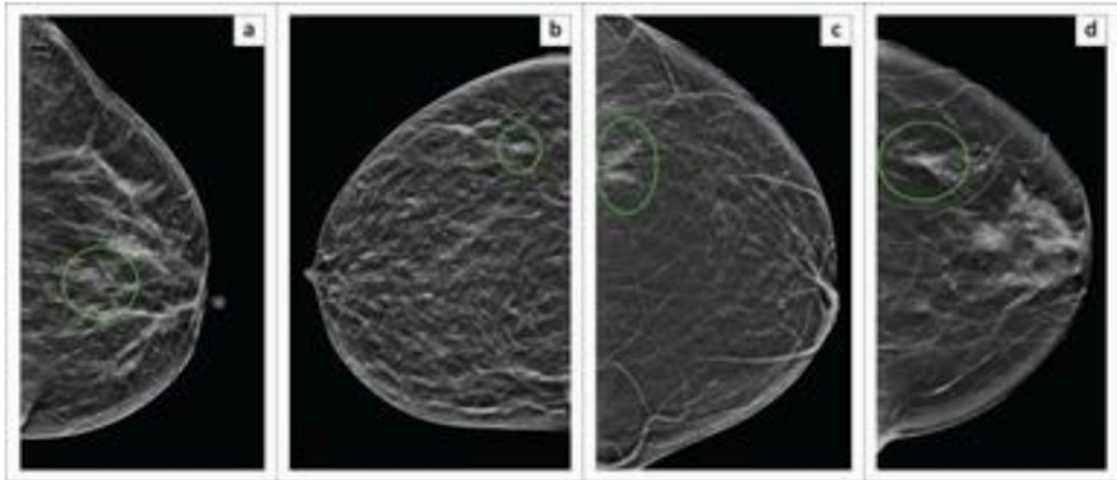
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16. Which of the following findings is most commonly associated with high-grade ductal carcinoma in situ (DCIS) in the provided breast imaging examples?

Answer: Grouped pleomorphic microcalcifications in the central retroareolar region



Mark only one oval.

- ☐ Architectural distortion with associated microcalcifications
- ☐ Grouped pleomorphic microcalcifications in the central retroareolar region
- ☐ Solitary round mass with smooth margins
- ☐ Diffuse parenchymal asymmetry
- ☐ Cystic lesion with posterior acoustic enhancement

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?

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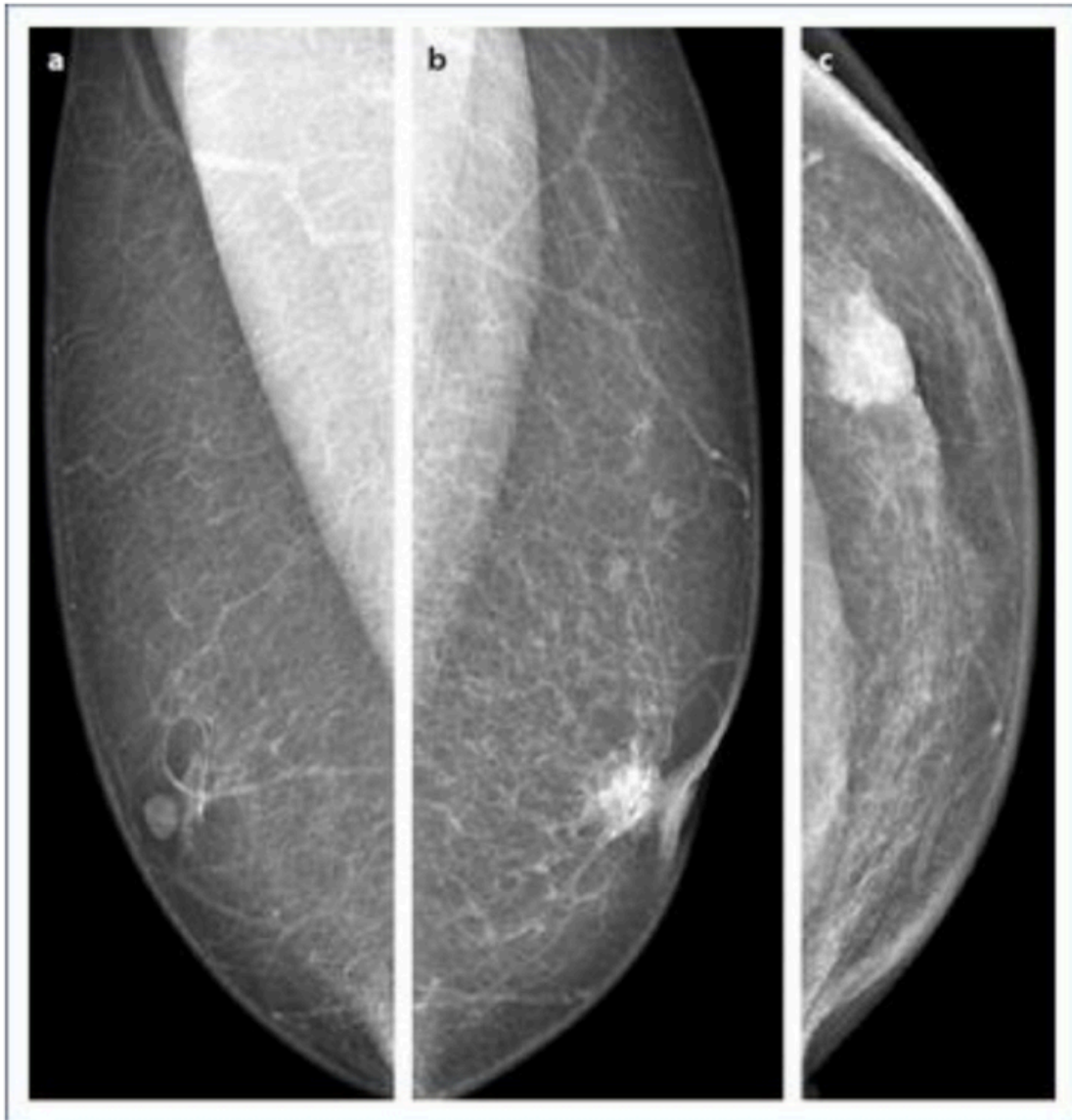
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Oncology Evaluation 5

21. Which imaging feature is most consistent with invasive ductal carcinoma in male breast cancer based on the provided mammograms?

Answer: Irregular mass with spiculated margins and associated nipple retraction



Mark only one oval.

- ☐ Smooth, well-circumscribed mass with homogeneous density
- ☐ Multiple clustered microcalcifications without associated mass
- ☐ Asymmetrical density without distinct mass formation
- ☐ Cystic lesion with thin, smooth walls and posterior acoustic enhancement
- ☐ Irregular mass with spiculated margins and associated nipple retraction

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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23. Are the options well designed?

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

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

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