

Topic: EXTREMITIES RADIOGRAPHY

Case-Based Puzzle

Scenario: A 45-year-old construction worker presents to the ER after falling on his outstretched hand, complaining of pain in the wrist and forearm. Suspected distal radius fracture. You must select and justify the appropriate radiographic projections.

Objectives:

- Identify standard views for wrist and forearm.
- Explain patient positioning, centering, and collimation.
- Discuss radiation safety and immobilization techniques.

Task: List the minimum projections required, describe setup (e.g., PA/oblique/lateral for wrist), and note any modifications for trauma (e.g., no rotation).

Clues:

- Clue 1: Primary view shows the radius and ulna in profile without overlap.
- Clue 2: For scaphoid evaluation, use a specific angled view.
- Clue 3: Use splint if unstable; SID is 100 cm.
- Clue 4: kVp range: 50-60; mAs adjusted for penetration.



Task: List the projections, positioning details, and potential findings. Explain why each view is essential.

Rubrics	Marks Alloted (out of 10 marks)
Understanding of Positioning/Anatomy	3
Technical Factors & Safety	3
Reasoning & Problem-Solving	2
Completeness & Creativity	1

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B.SC., RADIOGRAPHY AND IMAGING TECHNOLOGY

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Presentation	1
TOTAL MARKS	10 marks

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