MRAD 302 Specialized Imaging 2 Reflection #1 – forms part of quiz #1 (5%)

Reflection: Bone Mineral Densitometry and Osteoporosis

Reflections are designed to encourage you to think critically about your experiences, apply theoretical knowledge to practical situations, and develop your professional identity as a medical imaging technologist.

Topic: Reflecting on Bone Mineral Densitometry and Osteoporosis

1. Why is Bone Mineral Densitometry important in diagnosing and monitoring osteoporosis?

   It is important for testing the bone mineral density and to measure the bone strength before breaks happen in the bone. There is the T-score that compares bone density to peak bone mass towards a healthy same gender person to confirm osteoporosis or osteopenia. By early detections can find hidden bone loss before any bones break specially that osteoporosis is silent diseas that effects someone when a fracture occurs. Dual energy xray absorption, measures bone mineral density precisely using low radiation dose.

2. How might understanding osteoporosis affect the way a medical imaging technologist interacts with and positions patients during a medical imaging procedure?

   Understanding osteoporosis will help you learn to work around those patients who can't fully get into a position that is required in a BMD test. By gently transferring a patient, you must avoid pulling, pushing, or dragging the patient during the transfer onto an imaging table due to their weaken bones that are very fragile and can break. Working around the patients ability by uing the opposite hip that is effected for the BMD test.

Word count: 200-250 words

Reflective Writing Rubric

Criteria	1 Point	2 Points	3 Points
Critical Reflection	Basic understanding of topic	Some reflection, with basic analysis	Deep reflection with thoughtful analysis
Application to Practice	Limited connection to medical imaging practice	Clear connections to medical imaging practice	Insightful application to medical imaging practice
Writing Quality	Basic writing with some clarity issues	Clear writing with minor errors	Well-written, clear, and concise