

***Sample* 1 Day Bone Densitometry Review In-Service Course Agenda**

8 Hour Program / 1 Day

 Bone Densitometry Overview

 Patient Care and Management

* What is Bone Densitometry?
* Why Bone Densitometry?
* The history and present techniques
* Advantages and disadvantages
* DXA technology in vertebral fracture assessment
* DXA technology in body composition assessment

Suggestions for setting up a Bone Densitometry room/office/ laboratory

Procedures and Image Production

* Discuss what is expected from reception staff
* Educational materials
* Bone densitometer room set-up
* Apply state rules/regulations for record keeping
* Understand the importance of archiving and backing up
* Communication with all operators of the equipment

Principles and Instrumentation of DXA equipment

Image Production

* DPA
* DXA
* What are x-rays?
* Two methods of x-ray production
* Radiation detection

DXA Scanning of the Lumbar Spine, Proximal Femur and Forearm

* Anatomy
* Scan acquisition
* Scan analysis
* Dilemmas related to positioning
* ROI placement and analysis

Quality Control

Image Production

* Define quality control
* Phantoms
* Utilize the phantoms to make control table/charts
* Type of QC
* Relocation of DXA unit
* Cross calibration

Radiation Safety

Patient Care

Protocol Setup and Procedures

Case Studies

**~ Agenda Subject to Change ~**

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