The 3D Volumetric Spine Advantage

Faster

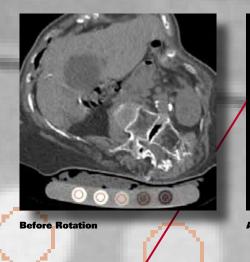
- Takes advantage of your helical/multi-slice scanner to expedite BMD studies
- Scan time typically less than 30 seconds

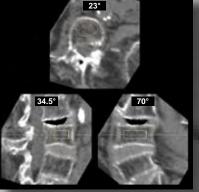
Easier and Simpler

- Simpler scan localization-define only scan start and end points
- No gantry angulation—no need to stop/start scan for each slice
- Only 2 vertebral bodies scanned instead of 3 or 4

Clinically Advantageous

- Sensitive serial comparisons
 - Monitor changes in trabecular bone only
 - Best published precision, sub 1%
- Easily measure patients with severe scoliosis
 - Retrospective ROI adjustment in any arbitrary plane
- Adjust ROI height/location/angle to successfully measure patients with scoliosis and other degenerative conditions that are impossible with other methods
- Extract BMD measurements from routine abdomen CT studies with no extra scans or exposure





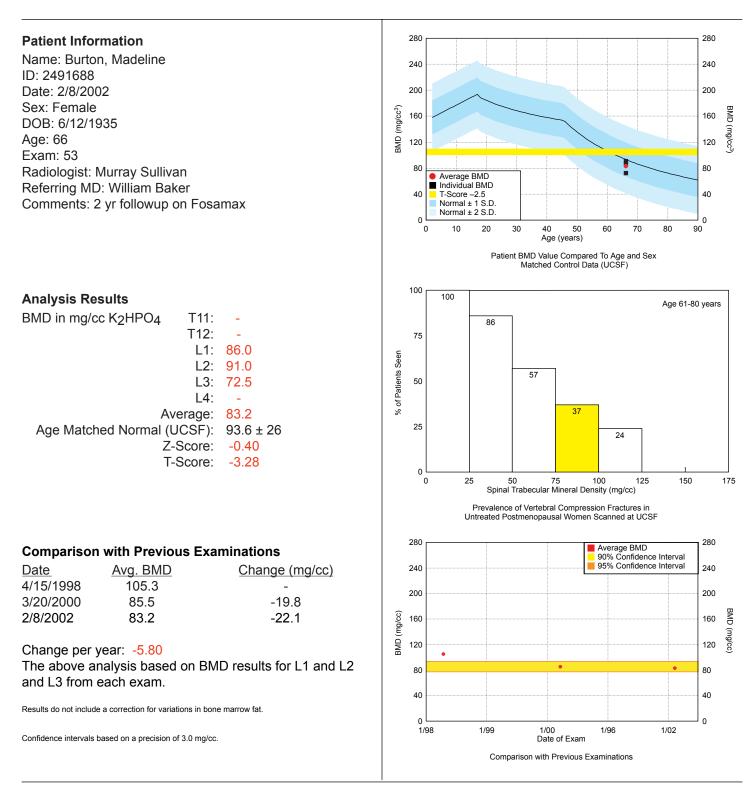
The spine of the severely scoliotic patient depicted in the background CT axial image would require 23° axial, 34.5° sagittal, and 70° coronal gantry angulation to position a standard ROI within the vertebral body. The 3D QCT method of rotating the patient in software instead of angling the gantry allows even severely scoliotic patients to be easily accommodated.

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3D QCT Bone Mineral Densitometry



Interpretation: Patient treated with Fosamax past 2 years. Spinal trabecular density of 83.2 mg/cm³ indicates mild osteoporosis, below baseline value of 105 mg/cm³. Consistent with treatment preventing further bone loss since last exam. Note is made of significant aortic with some other vascular calcification.

Murray Sullivan, MD

Patient Information

Name: BURTON, MADELINE ID: 2491688 Date: 2/8/2002 DOB: 6/12/1915 Sex: Female Age: 66 Exam: 53 Radiologist: Murray Sullivan Referring Physician: William Baker Technologist: CF Comments: 2 yr followup on Fosamax

Scan Parameters

Vertebra Analyzed: L1. L2, L3 L1 ROI: area=248.5 mm², width=22.5 mm, height=14.1 mm, depth=9.0 mm L2 ROI: area=260.9 mm², width=22.5 mm, height=14.8 mm, depth=9.0 mm L3 ROI: area=264.8 mm², width=21.8 mm, height=15.5 mm, depth=9.0 mm kVp: 120 SFOV: 500 mm FUC: 1.019 Table Height: 177.80

