

## BD Bone Density DEXA Axial Skeleton (04/19/2016 11:28)

(Status: Final)

EXAM: CENTRAL BONE DENSITY STUDY (DXA)

[REDACTED] Personal history of osteopenia.

COMPARISON: 03/05/2014

TECHNIQUE: DXA scan was performed over the lumbar spine and proximal (right/left) femur. Bone mineral density is compared to sex matched young individuals (T-score), as well as age and sex matched individuals (Z-score). Measurements of the wrist are obtained when indicated.

According to the criteria of the World Health Organization (WHO), normal bone mineral density for post menopausal females lies within one standard deviation of the mean of young adult controls (T-score greater than or equal to -1.0). Low bone mass or osteopenia is defined as a T-score between -1.0 and -2.5. Osteoporosis is defined as a T-score of less than -2.5. WHO densitometry classification also is applicable to men age 50 and older and perimenopausal females.

This examination was performed on a Hologic, Discovery SL series machine. Please note that sequential examinations to assess change are most accurate in assessing interval change if performed on the same machine.

### FINDINGS:

LUMBAR SPINE: Positioning is appropriate and regions of interest are properly placed. The average bone mineral density in the AP projection of the lumbar vertebral bodies from L1-L4 is 0.797 gm/cm<sup>2</sup>. The T-score is -2.3. The Z-score is -0.2. Since the prior examination there is a -4.3% interval change of the bone mineral density which is significant.

AP RIGHT FEMORAL NECK 0.550 gm/cm<sup>2</sup>. T-score -2.7. Z-score -1.0.  
Total bone mineral density of the right hip 0.624 gm/cm<sup>2</sup>.

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ROOM:

[REDACTED] : [REDACTED] Age At Date Of Note

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T-score -2.6. Z-score -1.1. No prior examination of the right hip is available for comparison.

AP LEFT FEMORAL NECK 0.561 gm/cm2. T-score -2.6. Z-score -0.9.  
Total bone mineral density of the left hip 0.673 gm/cm2. T-score -2.2. Z-score -0.7. Since the prior examination there is a -4.8% interval change of the bone mineral density which is significant.

**IMPRESSION:**

1. WHO classification osteoporosis. Fracture risk high.
2. Since the prior examination there is significant interval decreased bone mineral density as described above.
3. The images and graphs from this exam are available on the PACS system.

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