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NM Bone Density DEXA - Details

Impression

IMPRESSIONS:

1. Osteoporosis in the femoral neck. Since the prior study BMD is stable.
2. Osteoporosis in the forearm.

Reductions in bone density to 2.0 or more standard deviations below those of age and gender-matched control subjects is considered to represent BMD which is low for chronological age (ACR Practice Guidelines 2008). Comparisons to prior studies are based on least significant change (LSC), typically 3 times the coefficient of variance (precision) to achieve a 95% CI of significant change. In general BMD changes have to be >4.5% for the spine, >7.5% for hip, and >10% for the wrist to be significant. The interpretation of BMDs are being based on T-scores for post-menopausal women and men >50 years, and on Z-scores for premenopausal women and men <50 years, with both values made available.

tlc

Narrative

10/30/2018

STUDY: EAA DUAL ENERGY X-RAY ABSORPTIOMETRY

INDICATION FOR STUDY:

Assess bone mineral density for osteoporosis.

PREVIOUS STUDIES:

5/26/2011 & 9/11/2009

PROCEDURE:

Bone mineral analysis was performed at the University of Michigan East Ann Arbor Health Center by dual energy absorptiometry of the left hip and left forearm. Measurements were made utilizing the GE Lunar iDXA bone densitometer.

FINDINGS:

Femur Study

Region	BMD	Young-Adult	Age-Matched	BMC
Neck	0.707	66	-2.8	75
Upper Neck	0.569	62	-2.6	73
Lower Neck	0.845	-	-	-
Wards	0.546	57	-3.2	72
Troch	0.589	63	-3.1	66
Shaft	0.872	-	-	-
Total	0.723	66	-2.6	70

Femur Study continued

Region	Area
Neck	6.47
Upper Neck	3.24
Lower Neck	3.24
Wards	4.65
Troch	18.45
Shaft	17.32
Total	42.24

Forearm Study

Region	BMD	Young-Adult	Age-Matched	BMC
Neck	0.707	66	-2.8	75

Radius UD | 0.345 | 66 | -3.5 | 71 | -2.8 | 1.34
|
Ulna UD | 0.291 | - | - | - | - | 0.92
|
Radius 33% | 0.726 | 73 | -2.7 | 79 | -2.0 | 2.03
|
Ulna 33% | 0.722 | - | - | - | - | 1.76
|
Both UD | 0.321 | - | - | - | - | 2.26
|
Both 33% | 0.724 | - | - | - | - | 3.79
|
Radius Total | 0.543 | 72 | -3.1 | 77 | -2.4 | 9.28
|
Ulna Total | 0.486 | - | - | - | - | 6.16
|
Both Total | 0.519 | - | - | - | - | 15.44
|

Forearm Study continued

| Area |
Region | cm2 |
Radius UD | 3.90 |
Ulna UD | 3.16 |
Radius 33% | 2.80 |
Ulna 33% | 2.43 |
Both UD | 7.05 |
Both 33% | 5.23 |
Radius Total | 17.11 |
Ulna Total | 12.66 |
Both Total | 29.77 |

Examination of the transmission images of the hip showed no significant features that would preclude accurate estimation of structural bone mineral density. Examination of the transmission images of the forearm showed no significant features that would preclude accurate estimation of structural bone mineral density.

Result Information

Exam

