

Radiology Exams & Images

BMD BONE DENSITY SPINE HIPS

Patient: CHRISTIANSON, Kay [REDACTED]

Reason for Exam

History osteopenia with OP in past.

Dx: Open Reduction and Internal Fixation Forearm Status Post [REDACTED] Open Reduction and Internal Fixation Hip Status Post [REDACTED] Deficiency Estrogen Post Menopausal [REDACTED] Osteopenia [REDACTED]

DEPT_SPEC_Radiology [40]

IMPRESSION:

Low bone density (osteopenia).

EXAM: BMD BONE DENSITY SPINE HIPS

COMPARISON: 10/11/2018

Manufacturer/Mode : GE Lunar Prodigy

FINDINGS:

LUMBAR SPINE

L1-L4 included unless otherwise indicated.

Lumbar BMD: 1.073 gm/cm²

T-score: -1.0

BMD % change: -4.3%

Significance: Statistically significant BMD decrease from the comparison exam.

HIP(S)

Lowest femora BMD: 0.735 gm/cm²

Lowest T-score: -2.2

BMD % change: -1.1%

Significance: BMD not significantly changed from the comparison exam.

FRAX 10 year probability of major osteoporotic fracture 28.5 %

FRAX 10 year probability of hip fracture 2.3 %

FRAX scores: Not clinically validated for patients with history of therapy with bisphosphonates in the past two years, calcium in the last year, PTH in the last year, Denosumab in the last year. Calcium and vitamin D do NOT constitute "treatment" in this context. A treatment decision requires clinical judgement and consideration of individual patient factors which may not be captured in the

FRAX mode and the risk of fracture may be over- or under-estimated by FRAX.

Treatment recommended for:

Patients with hip or vertebral fracture (clinical or morphometric).

Patients with osteoporosis at the spine and/or hip as defined by T-score \leq -2.5.

Postmenopausal women or men age 50 and older with low bone mass (T-score -1 to -2.5, osteopenia) at the femoral neck, total hip, or spine and 10 year hip fracture probability $>3\%$ or a 10 year a major osteoporosis related fracture probability of $>20\%$ based on the U.S. adapted WHO absolute risk mode.

Exclude secondary causes of low bone density in the appropriate clinical setting.

Follow-up exams should be performed at no sooner than two-year intervals.

Direct comparison can only be performed on exams performed at the same facility.

World Health Organization T-score criteria:

0 to -1.0 Normal range

< -1.0 to > -2.5 Low bone density (osteopenia)

≤ -2.5 or less Osteoporosis

Electronically Signed by: Don B Stott, M.D. on 12/12/2019 9:29 AM

Read by:

STOTT, DON B

