

# Radiology Exams & Images

## BMD BONE DENSITY SPINE HIPS

Patient: CHRISTIANSON, Kay [REDACTED]

Reason for Exam

Monitoring for therapeutic response

Dx: Osteopenia [REDACTED]  
[REDACTED]

### IMPRESSION:

Low bone density (osteopenia).

EXAM: BMD BONE DENSITY SPINE HIPS

COMPARISON: 12/12/2019

Manufacturer/Mode: GE

### FINDINGS:

#### LUMBAR SPINE

L1-L4 included unless otherwise indicated.

Lumbar BMD: 1.130 gm/cm<sup>2</sup>

T-score: -0.5

BMD % change: 5.3%

#### HIP(S)

Lowest femora BMD: 0.750 gm/cm<sup>2</sup>

Lowest T-score: -2.0

BMD % change: 2.1%

FRAX 10 year probability of major osteoporotic fracture 27.7 %

FRAX 10 year probability of hip fracture 2.0 %

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 model 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 all major osteoporosis related fracture probability of  $>20\%$  based on the U.S. adapted WHO absolute risk model.

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)

$\leq -2.5$  or less Osteoporosis

Electronically Signed by: Jason W Steine, M.D. on 6/18/2020 10:20 AM

Read by:

STEINLE, JASON W

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