MyChart - Test Details

Name: Linda Murphy | Skidmore, MD | PCP: Allen R.

DEXA BONE DENSITY STUDY WO VERT FX ASSESSMENT - Details

About this test

Details

Comments from the Doctor's Office

Bone density scores the same in the spine as it was in October 2016. Its a little worse in the femoral neck of the hip compared to October 2016. I would like to have you try generic Boniva or Fosamax if you are willing.

My assistant has been asked to call you to instruct y eresults. If she has not call us at Or you may email .

If all else fails and we haven't been able reach you, please schedule an appointment with Dr. Skidmore to come in and discuss these results.

Study Result

Narrative

DUAL ENERGY X-RAY ABSORPTIOMETRY

CLINICAL INFORMATION: Postmenopausal, osteoporosis, current use of estradiol. FRAX risk factors: Parental hip fracture.

COMPARISON: 10/18/2016

PROCEDURE: Regional bone mass was determined with the Hologic Horizon W. The lumbar spine L1-L4 and left hip were evaluated. Study quality: Good technical quality without artifact or local structural change.

FINDINGS: Lumbar Spine

8/5/2021

Total BMD: 0.766 T-Score: -2.6 Z-Score: -0.2 No significant change in BMD since the most recent exam.

Left hip Total BMD: 0.664 T-Score: -2.3 Z-Score: -0.5 Femoral neck T-Score: -2.5 There has been a statistically significant interval change of -0.051 g/cm^2 (-7.2 %) since the most recent exam.

The LSC for Inland Imaging facilities in Spokane is 0.026 g/cm2 for the lumbar spine, 0.019 g/cm2 for the total hip, 0.032 g/cm2 for the femoral neck and 0.023 g/cm2 for the forearm.

(Based on a precision measurement of the scanner, the least significant change (LSC) represents the smallest difference between successive measurements of bone mineral density (BMD) that can be considered to be a real change and not attributable to random error.)

IMPRESSION: Osteoporosis.

See appendix 1,2 for definitions and follow up recommendations.

FRACTURE RISK:

Absolute fracture risk not able to be calculated in patients currently or recently (within 1 year) receiving pharmacotherapy for osteoporosis.

Increased fracture risk secondary to osteoporosis diagnosed by BMD.

See appendix 3, 4 for explanation and treatment recommendations.

APPENDIX:

1. EXPLANATION OF BMD INTERPRETATION

BMD: Bone Mineral Density in grams/cm²

T-score: Number of standard deviations above (+) or below (-) the mean bone density compared to young adult Caucasian reference population. Z-score: Number of standard deviations above (+) or below (-) the mean bone density compared to age-matched and ethnically matched controls.

WHO Diagnostic Criteria Postmenopausal women and men age 50 and above T-Score: Normal: > = -1.0Low Bone Density (Osteopenia): < -1.0 > -2.4Osteoporosis: < -2.5 Premenopausal women, men younger than age 50, and children Z-Score: Within the expected range for age: -1.9 and above Below the expected range for age: < -2.0

(Lowest value between total lumbar spine, total hip, femoral neck or, if studied, one-third radius, determines final interpretation) (Assessment of fracture risk and its application to screening for postmenopausal osteoporosis. Report of a WHO Study Group. Geneva, World Health Organization, 1994 WHO Technical Report Series, No. 843)

2. FOLLOW UP RECOMMENDATIONS Recommendation for Follow-up Screening DXA Scan: T-score -1.5 or greater: Repeat DXA in 15 years T-score -1.5 to -1.9: Repeat DXA in 5 years T-score -2.0 or less: Repeat DXA in 1-2 years

Shorter follow up intervals may be appropriate in patients who have a history of prior hip or clinical vertebral body fracture, are undergoing treatment for osteoporosis/being evaluated for response to treatment, are of advanced age, or have an underlying medical condition or are receiving drug therapy known to affect BMD (ie secondary hyperparathyroidism, high dose glucocorticoids). Follow up intervals for patients undergoing pharmacotherapy are typically 1-2 years while follow up intervals for patients on high dose glucocorticoids may be as short as 6 months. (N Engl J Med 2012;366:225-33)

3. EXPLANATION OF FRACTURE RISK ASSESSMENT Absolute fracture risk calculated using FRAX USA-adapted database and patient reported data.

Risk may be increased by additional risk factors not included in FRAX (eg fall risk, recent fracture, multiple (>1) prior fragility fractures, elevated bone turnover markers) and modified by a dose-response effect of multiple clinical risk factors included in FRAX (excess alcohol consumption, smoking, and use of glucocorticoids). (www.shef.ac.uk/FRAX)

4. GENERAL TREATMENT RECOMMENDATIONS

Before initiating treatment for osteoporosis, medical evaluation for secondary causes of decreased bone density should be considered.

National Osteoporosis Foundation (NOF) treatment guidelines

Initiate pharmacological treatment:

- In those with hip or vertebral (clinical or morphometric) fracture.

- In those with T-score less than or equal to -2.5 at the femoral neck, total hip, or spine.

- In postmenopausal women and men age 50 and over with low bone mass (T-score between -1.0 and -2.5, osteopenia) at the femoral neck, total hip, or lumbar spine by DXA and a 10-year hip fracture probability equal or greater than 3% or a 10-year major osteoporosis-related fracture probability greater than 20% based on the USA-adapted WHO absolute fracture risk model (Fracture Risk Algorithm (FRAX); <u>www</u>. NOF.org and <u>www.shef.ac.uk/FRAX</u>). (NOF (2014) National Osteoporosis Foundation: Clinician's Guide to Prevention and Treatment of Osteoporosis.

http://link.springer.com/article/10.1007%2Fs00198-014-2794-2)

Dictated by: Monaghan, Donna

Signed by: Holznagel, M.D., David Sign Date/Time: 05/14/2019 6:06 PM

The radiologist has reviewed the images and edited/approved the report. For interventional procedures, the signing radiologist was present for the key portions of the exam.

Exam Performed Location: Inland Imaging at Providence Medical Park

Component Results

There is no component information for this result.

General Information

Ordered by Allen R. Skidmore, MD

Collected on 05/14/2019 8:55 AM

Resulted on 05/14/2019 6:06 PM

Result Status: Final result

If you have any questions or concerns about your test, please contact your clinic to review your results with your physician.