

Document info

Result type: DXA Report
Result date: Feb 25, 2021, 12:00 a.m.
Result status: authenticated
Performed by: [REDACTED]
Verified by: [REDACTED]
Modified by: [REDACTED]

[REDACTED]

Patient: RONDA LEWIS DOB: [REDACTED]

DXA Report

DATE OF SERVICE: 02/25/2021

REFERRING PHYSICIAN: [REDACTED]

INDICATION FOR STUDY: The patient is [REDACTED] female patient who according to the bone mineral analysis checklist underwent menopause [REDACTED] She takes supplemental calcium and vitamin D on a daily basis. [REDACTED]
[REDACTED]

Bone densitometry of the PA spine and left proximal femur is performed using a Hologic bone densitometer.

Patient positioning appears good with no obvious confounding factors.

Bone mineral density of L1 through L4 is 0.642 gm/cm². T-score is -3.7. Z-score is -2.3.

Bone mineral density in the left femoral neck region is 0.572 gm/cm². T-score is -2.5. Z-score is -1.2.

DIAGNOSES:

1. Osteoporosis. This patient's T-score meets the WHO criteria for osteoporosis at one or more sites.

2. Patient is at severe increased risk for fracture. The risk of osteoporotic fracture increases approximately twofold for each 1.0 standard deviation decrease in T-score. Low bone density is not the only risk factor for fracture; also consider factors such as patient's age, risk of falling, risk of injury, previous osteoporotic fracture, and family history of osteoporosis.
3. This patient has a history of prior scans dating back to 2019. These were performed on the same machine and with these values, statistically significant changes are able to be calculated. The following changes were observed:
 - a. Bone mineral density in the PA lumbar spine has increased by 8% from the baseline in 2019. This number is statistically significant.
 - b. Bone mineral density in the left total hip region has increased by 18.7% from the baseline in 2019. This number is statistically significant.
 - c. Bone mineral density in the left femoral neck region has increased by 19.3% from the baseline in 2019. This number is statistically significant.
4. This patient's 10-year fracture risk is not applicable as she has osteoporosis.

The DXA scan is only one piece of information in a comprehensive evaluation of bone disease and must be used in conjunction with other clinical information. False elevations of bone mineral content do occur (false-negative DXA scan), usually due to overlying calcification or other x-ray dense objects in the scanned area. Vascular calcification, osteoarthritis, x-ray contrast media, foreign bodies and other disease processes may contribute to elevated measured bone mineral content. Further evaluation with plain x-rays or metabolic studies may be necessary to exclude these diseases. Falsely low bone mineral density is rare. It is always important to exclude secondary causes of osteoporosis including intrinsic bone marrow disease such as multiple myeloma or metabolic disorders such as hyperparathyroidism.

Per Julia Bishop, MD – I have reviewed the data associated with the test for this patient. The interpretation above is correct.

*_*_*

[REDACTED]

[REDACTED]

METHODIST HEALTH SYSTEM IMAGING SERVICES

Fax: 402-815-1030

Name: LEWIS, RONDA

Sex: Female
Ethnicity: White

Referring Physician:

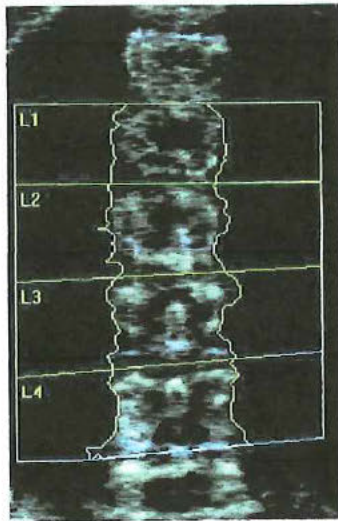


Image not for diagnostic use
k = 1.122, d0 = 43.4
116 x 110

Scan Information:

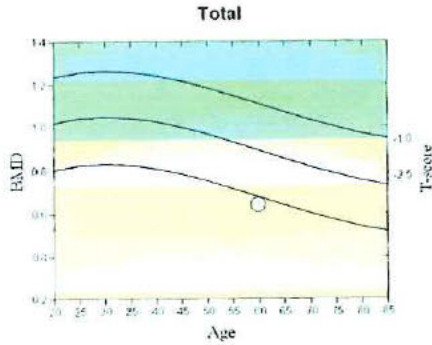
Scan Date: February 25, 2021
Scan Type: L Lumbar Spine
Analysis: February 25, 2021 11:09 Version 13.2:7
Spine (auto low density)
Operator: KRW
Model: Discovery C (S/N 84644)
Comment:

DXA Results Summary:

Region	Area (cm²)	BMC (g)	BMD (g/cm³)	T-score	Z-score
L1	12.83	6.95	0.542	-4.1	-2.8
L2	15.24	9.97	0.654	-3.4	-2.0
L3	15.82	10.17	0.643	-4.0	-2.6
L4	16.69	11.77	0.705	-3.2	-1.7
Total	60.58	38.87	0.642	-3.7	-2.3

Total BMD CV 1.0%, ACF = 1.028, BCF = 0.990, TI = 8.659

WHO Classification: Osteoporosis
Fracture Risk: High



Comment:

LEWIS, RONDA L
PAT: 59
APP: DEX SCAN
ATT: [redacted]
PCP: [redacted]
FEB 25 2021 11:00
The 1511 JHC Soft L&S® C-110, NE



T-score vs. White Female; Z-score vs. White Female. Source: BMDCS/Hologic

HOLOGIC

METHODIST HEALTH SYSTEM IMAGING SERVICES
 717 N 190TH PLAZA , SUITE 2300
 OMAHA, NE 68022

Telephone: 402-815-1650

Fax: 402-815-1030

Name: LEWIS, RONDA [REDACTED] Sex: Female
 [REDACTED] Ethnicity: White [REDACTED]

Referring Physician: [REDACTED]

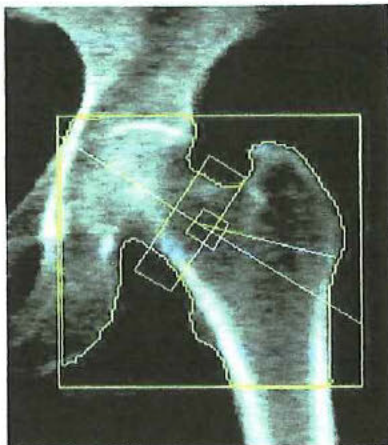


Image not for diagnostic use
 k = 1.125, d0 = 47.1
 100 x 93
 NECK: 47 x 15

Scan Information:

Scan Date: February 25, 2021 [REDACTED]
 Scan Type: L Left Hip
 Analysis: February 25, 2021 11:10 Version 13.2.7
 Hip
 Operator: KRW
 Model: Discovery C (S/N 84644)
 Comment:

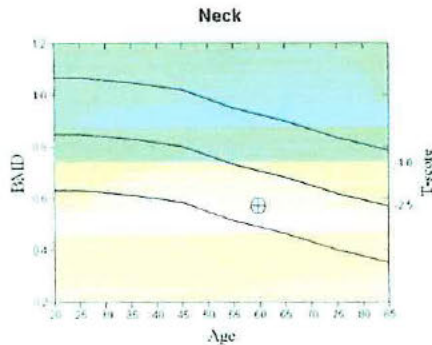
DXA Results Summary:

Region	Area (cm ²)	BMC (g)	BMD (g/cm ³)	T - score	Z - score
Neck	4.85	2.78	0.572	-2.5	-1.2
Troch	10.68	5.39	0.505	-2.0	-1.1
Inter	20.86	17.63	0.845	-1.6	-1.0
Total	36.39	25.80	0.709	-1.9	-1.0
Ward's	1.19	0.38	0.323	-3.5	-1.5

Total BMD CV 1.0%, ACF = 1.028, BCF = 0.990, TH = 6.640
 WHO Classification: Osteoporosis

10-year Fracture Risk

FRAX not reported because:
 Some T-score at or below -2.5



T-score vs. White Female, Z-score vs. White Female. Source:BMDC/SNHANES

Comment:

LEWIS, RONDA L
 MRN: [REDACTED]
 FR: [REDACTED]
 02/25/21 11:00
 Ins: 1511 UHC Salt Lake City, NE
 APPT: TUN SCAN
 [REDACTED]
 [REDACTED]
 [REDACTED]

HOLOGIC

METHODIST HEALTH SYSTEM IMAGING SERVICES

Name: LEWIS, RONDA
 Sex: Female
 Ethnicity: White

Referring Physician

Scan Information:

Scan Date: February 25, 2021
 Scan Type: FLumbar Spine
 Analysis: February 25, 2021 11:09 Version 13.2
 Spine (auto low density)
 Operator: KRW
 Model: Discovery C (S/N 84644)
 Comment:

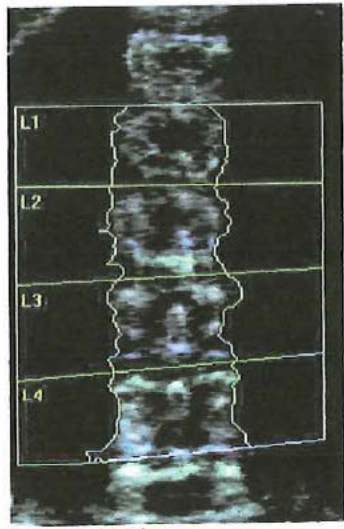
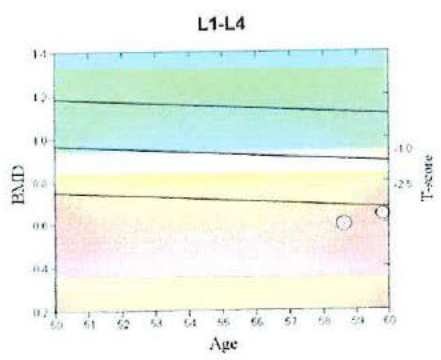


Image not for diagnostic use
 116 x 140



T-score vs. White Female; Z-score vs. White Female. Source: BMDCS/Hologic

DXA Results Summary: L1-L4

Scan Date	Age	BMD (g/cm ³)	T-score	BMD Change vs Baseline	BMD Change vs Previous
02/25/2021		0.642	-3.7	8.0%*	8.0%*
12/24/2019		0.594	-4.1		

* Denotes significance at 95% confidence level, LSC is 0.022326 g/cm²

METHODIST HEALTH SYSTEM IMAGING SERVICES

Name: LEWIS, RONDA

Sex: Female
Ethnicity: White

Referring Physician:

Scan Information:

Scan Date: February 25, 2021
Scan Type: f Left Hip
Analysis: February 25, 2021 11:10 Version 13.2
Hip
Operator: KRW
Model: Discovery C (S/N 84644)
Comment:

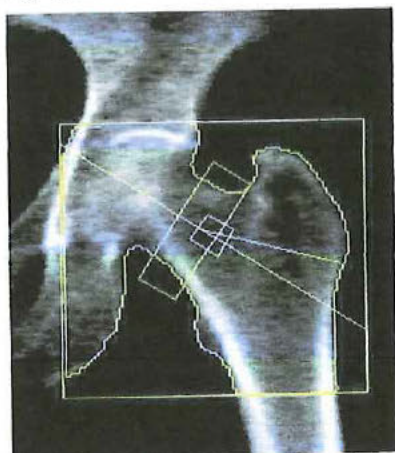
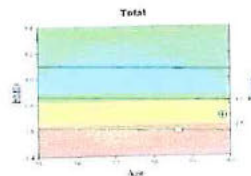


Image not for diagnostic use
100 x 93
NECK: 47 x 15



T-score vs. White Female; Z-score vs. White Female. Source:BMDCS/NIHANES

10-year Fracture Risk

FRAX not reported because:
Some T-score at or below -2.5

DXA Results Summary:

Scan Date	Age	BMD (g/cm ³)	T-score	BMD Change vs Baseline	BMD Change vs Previous
02/25/2021		0.709	-1.9	18.7%*	18.7%*
12/24/2019		0.597	-2.8		

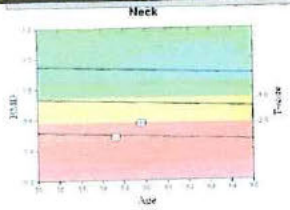
* Denotes significance at 95% confidence level, LSC is 0.026675 g/cm²

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METHODIST HEALTH SYSTEM IMAGING SERVICES

Name: LEWIS, RONDA

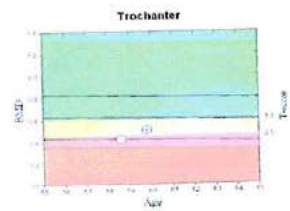
Sex: Female
Ethnicity: White



DXA Results Summary:

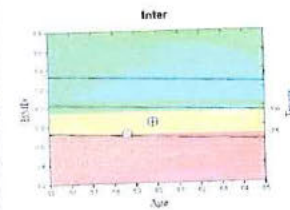
Scan Date	Age	BMD (g/cm ³)	T-score	BMD Change vs Baseline	BMD Change vs Previous
02/25/2021		0.572	-2.5	19.3%*	19.3%*
12/24/2019		0.480	-3.3		

* Denotes significance at 95% confidence level, LSC is 0.028808 g/cm³



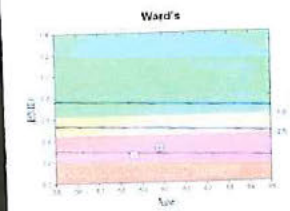
Scan Date	Age	BMD (g/cm ³)	T-score	BMD Change vs Baseline	BMD Change vs Previous
02/25/2021		0.505	-2.0	20.1%*	20.1%*
12/24/2019		0.420	-2.8		

* Denotes significance at 95% confidence level, LSC is 0.017506 g/cm³



Scan Date	Age	BMD (g/cm ³)	T-score	BMD Change vs Baseline	BMD Change vs Previous
02/25/2021		0.845	-1.6	17.2%*	17.2%*
12/24/2019		0.721	-2.4		

* Denotes significance at 95% confidence level, LSC is 0.024930 g/cm³



Scan Date	Age	BMD (g/cm ³)	T-score	BMD Change vs Baseline	BMD Change vs Previous
02/25/2021		0.323	-3.5	25.8%*	25.8%*
12/24/2019		0.257	-4.1		

* Denotes significance at 95% confidence level, LSC is 0.044597 g/cm³

Scan Type: Left Hip - A022521011

T-score vs. White Female; Z-score vs. White Female.
Source: BMDCS/NIH/NES

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