

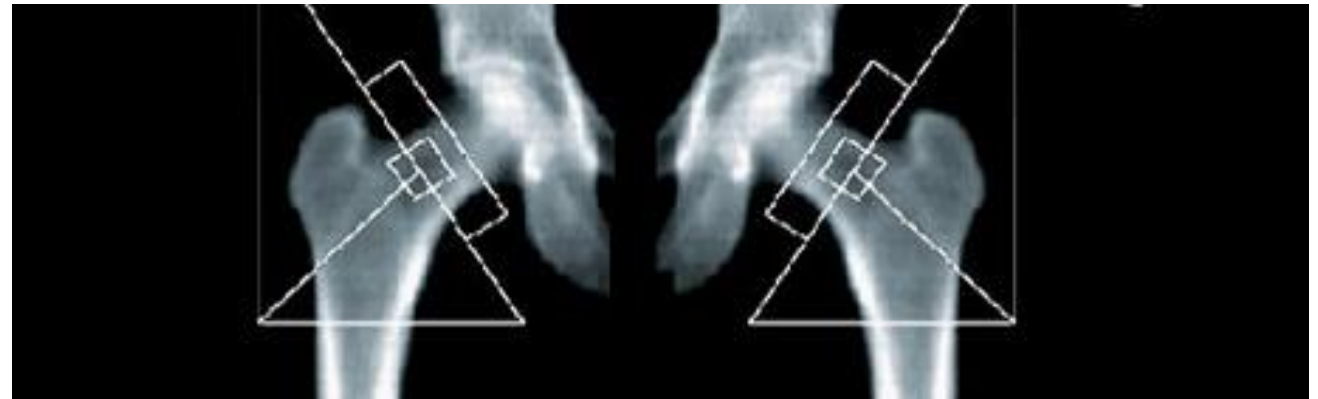
How to interpret and understand the information on a DXA report.

LECTURE 7

The BMD Printout

Images of anatomy

- Documents region measured
- Placement of ROI
- Artifacts on image
- Use for serial images to assist with consistency in measurements



The BMD Printout

Measurement of BMD for ROIs

- Area measured
- Match areas measured on serial scans
- BMC
- BMD

Results Summary:

Total BMD: **0.797 g/cm²**
Peak reference: **76%** T score: **-2.3**
Age matched: **94%** Z score: **-0.4**

Region	Area [cm ²]	BMC [g]	BMD [g/cm ²]	T score	%PR	Z score	%AM
L1	10.47	6.18	0.591	-3.0	64%	-1.4	79%
L2	11.77	9.47	0.805	-2.0	78%	-0.2	97%
L3	12.15	10.37	0.853	-2.1	79%	-0.2	98%
L4	15.03	13.37	0.889	-2.1	80%	-0.1	99%
Total	49.43	39.39	0.797	-2.3	76%	-0.4	94%

Bone mineral report

The BMD Printout

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Normal

- T-Score of -1.0 or better

Osteopenia/Low Bone Density

- T-Score between -1.0 and -2.5

Osteoporosis

- T-Score worse than -2.5

The BMD Printout

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Severe Osteoporosis

- T-Score worse than -2.5 and evidence of fragility fractures
- Be careful when using this classification

The BMD Printout

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Z-Score

- Compares patient to their peers
- Identifies need to look at secondary reasons for decrease in BMD

The BMD Printout

Bone Percentages

- Amount of bone patient has left compared to reference data

Results Summary:							
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Total	49.43	39.39	0.797	-2.3	76%	-0.4	94%

The BMD Printout

T-Score for each area measured

“Young-adult measurement”

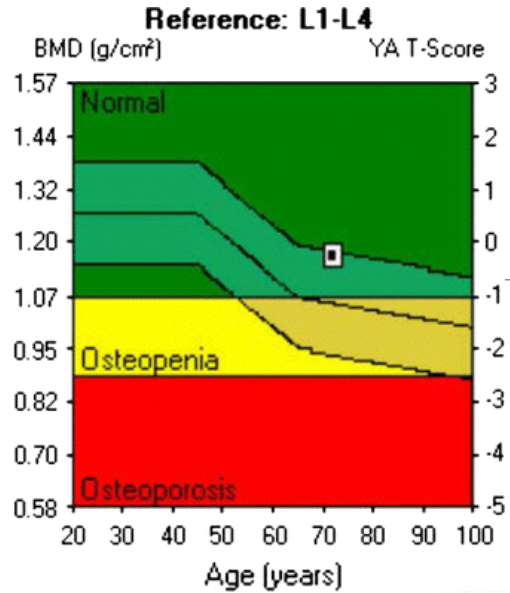
“Young-adult Z-Score”

Compares patient to peak bone mass
somewhere between ages 25-35

- Check your printout for the T-Score range used by your system

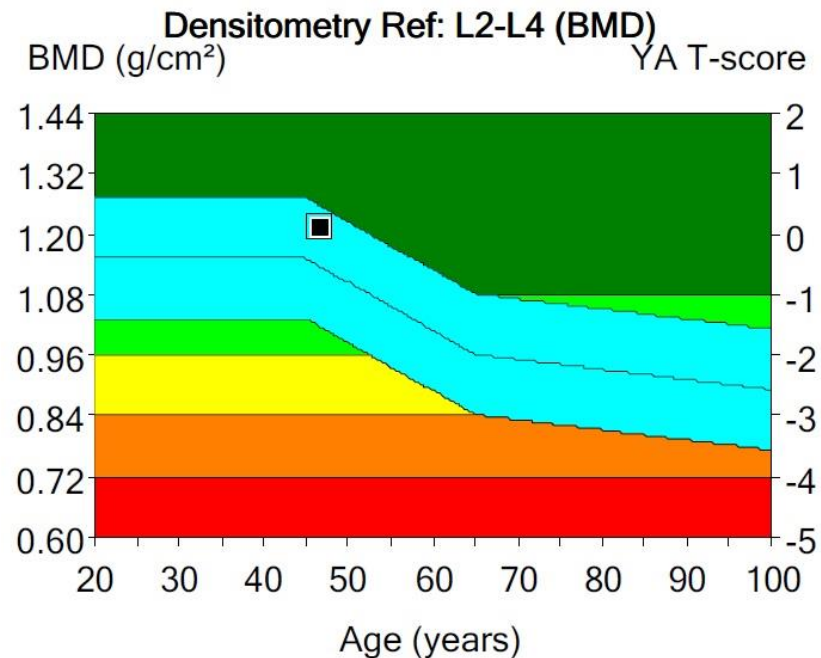
Classifies patient’s BMD status

The BMD Printout



Reference graph (what the heck?)

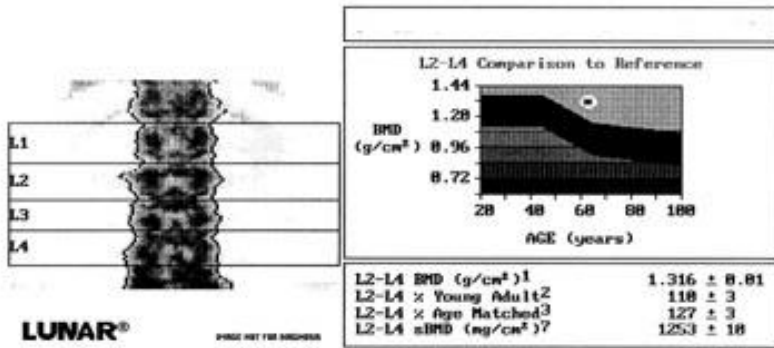
Make sure patient's age is correctly plotted



3155 Maplewood Ave., Winston Salem, N.C. 27103

PATIENT ID:
NAME:

SCAN:
ANALYSIS:



FEMUR RESULTS
Forsyth Radiological Associates

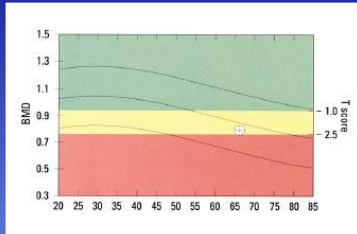
- Bone mineral report
- Z-score vs. T-score

Results Summary:

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Age matched:	94%		

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L2	11.77	9.47	0.805	-2.0	78%	-0.2	97%
L3	12.15	10.37	0.853	-2.1	79%	-0.2	98%
L4	15.03	13.37	0.889	-2.1	80%	-0.1	99%
Total	49.43	39.39	0.797	-2.3	76%	-0.4	94%

Bone mineral report



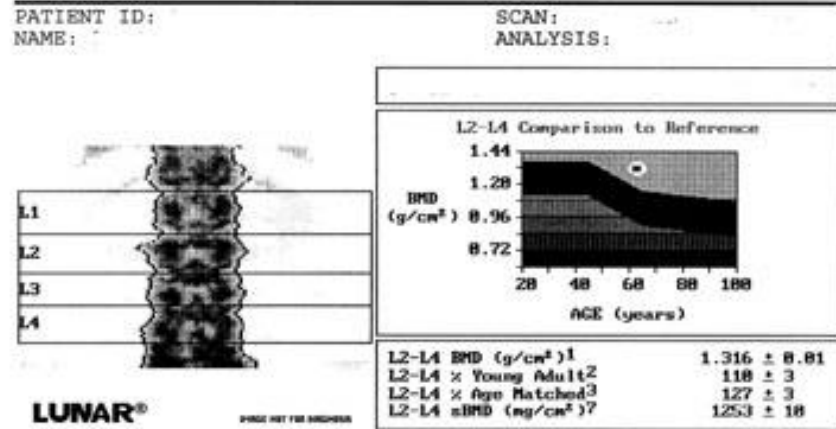
Age-BMD report

BMD Printout

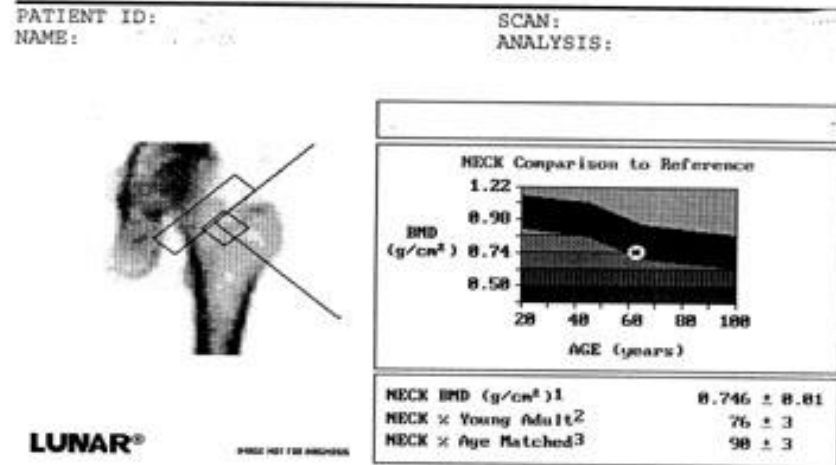
Includes:

- Images to demonstrate anatomy and ROI placement
- Reference graph
- BMD measurement
- T-Scores
- Z-Scores

AP SPINE RESULTS
 Forsyth Radiological Associates
 3155 Maplewood Ave., Winston Salem, N.C. 27103



FEMUR RESULTS
 Forsyth Radiological Associates
 3155 Maplewood Ave., Winston Salem, N.C. 27013



Patient Information

Name

DOB

Ethnic group

Sex

Height

Weight

Patient number

Physician name

BONE AND MINERAL LAB

Name: Patient ID: 26018-0281001 Sex: Ethnicity: White Height: 72.0 in Weight: 200.0 lb
 DOB: Age:

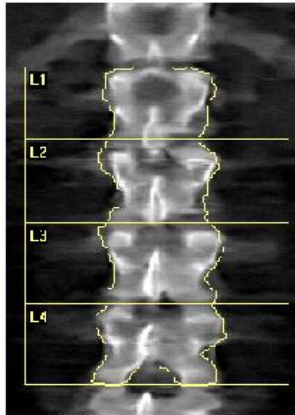


Image not for diagnostic use
 k = 1.130, d0 = 43.4
 116 x 146
 DAP: 3.7 cGy*cm²

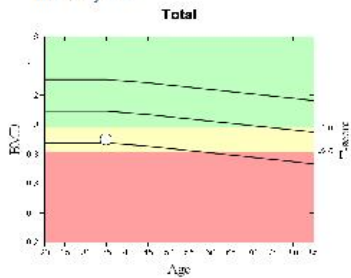
Scan Information:

Scan Date: August 30, 2016 ID: A08301609
 Scan Type: a Lumbar Spine
 Analysis: August 30, 2016 11:28 Version 13.5.3:3
 Spine
 Operator: GLY
 Mode: Horizon A (S/N 100183)
 Comment:

DXA Results Summary:

Region	Area (cm²)	BMC (g)	BMD (g/cm²)	T - score	Z - score
L1	14.56	13.11	0.901	-1.6	-1.6
L2	17.03	15.57	0.914	-1.6	-1.6
L3	17.91	16.46	0.919	-1.7	-1.7
L4	18.13	15.72	0.867	-2.0	-2.0
Total	67.62	60.87	0.900	-1.7	-1.7

Total BMD CV 1.0%, ACF = 1.039, BCF = 1.008, TH = 8.379
 WHO Classification: Osteopenia
 Fracture Risk: Increased

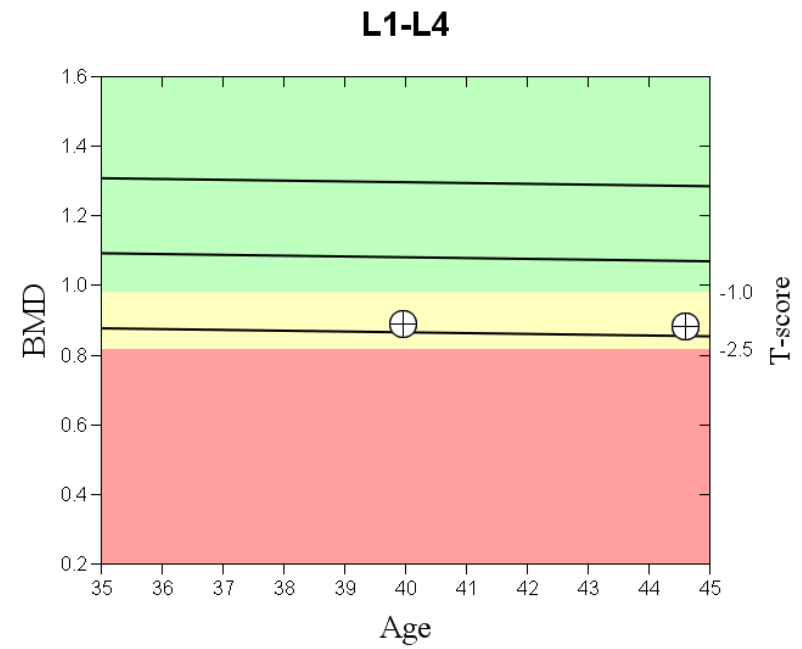
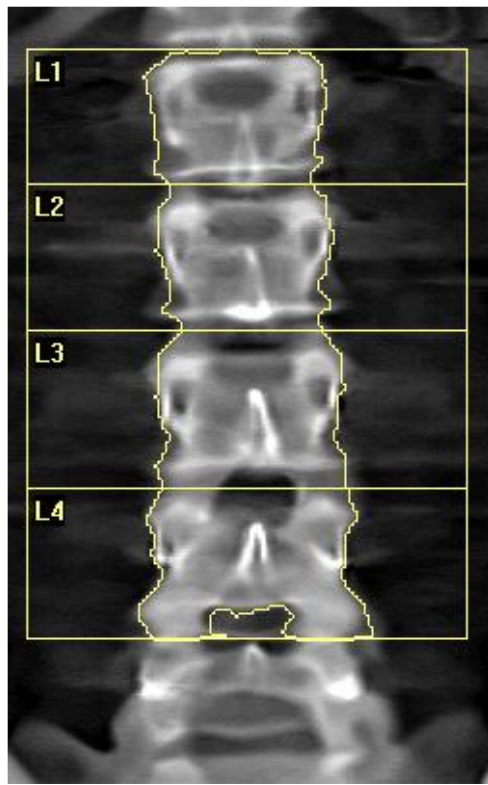


Comment:

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

HOLOGIC

Components of BMD Printout



DXA Results Summary: L1-L4

Scan Date	Age	BMD (g/cm ²)	T-score	BMD Change vs Baseline	BMD Change vs Previous
05/20/2021	44	0.883	-1.9	-0.9%	-0.9%
09/29/2016	39	0.890	-1.8		

* Denotes significance at 95% confidence level, LSC is 0.022 g/cm²

BONE AND MINERAL LAB

Name: Patient ID: 6874-0281001
 Sex: Ethnicity: Height: 69.0 in Weight: 185.0 lb
 DOB: Age:

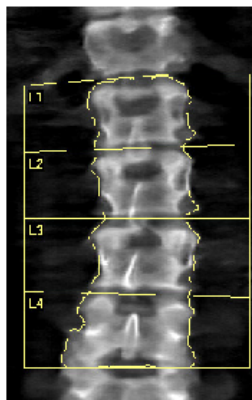


Image not for diagnostic use
 k = 1.138, d0 = 45.4
 116 x 151

Scan Information:

Scan Date: September 30, 2019 ID: A09301908
 Scan Type: a Lumbar Spine
 Analysis: September 30, 2019 11:21 Version 13.5.3
 Lumbar Spine
 Operator: GLY
 Model: Horizon A (S/N 100183)
 Comment:

DXA Results Summary:

Region	Area (cm ²)	BMC (g)	BMD (g/cm ³)	T-score	Z-score
L1	17.83	18.54	1.040	0.3	0.7
L2	17.53	19.61	1.119	0.2	0.7
L3	20.16	21.73	1.078	-0.2	0.2
L4	23.39	26.41	1.129	-0.1	0.3
L1-L2	35.36	38.16	1.079	0.2	0.7
L1,L3	37.99	40.27	1.060	0.0	0.4
L1,L4	41.22	44.95	1.091	0.1	0.5
L2-L3	37.68	41.34	1.097	0.0	0.4
L2,L4	40.91	46.02	1.125	0.0	0.5
L3-L4	43.54	48.14	1.106	-0.2	0.3
L1-L3	55.52	59.88	1.079	0.1	0.5
L1-L2,L4	58.75	64.57	1.099	0.1	0.5
L1,L3-L4	61.38	66.68	1.086	0.0	0.4
L2-L4	61.07	67.75	1.109	-0.1	0.4
L1-L4	78.90	86.30	1.094	0.0	0.5

Total BMD CV 1.0%
 WHO Classification: Normal
 Fracture Risk: Not Increased

HOLOGIC

BONE AND MINERAL LAB

Name: Patient ID: Height: 70.0 in
 Sex: Ethnicity: Weight: 187.0 lb
 DOB: Age:

Referring Physician: UNKNOWN, UNKNOWN

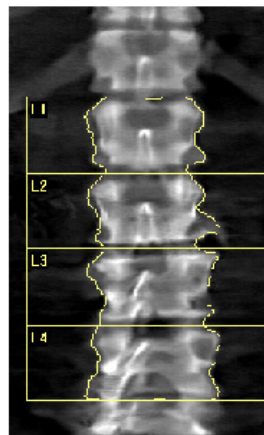
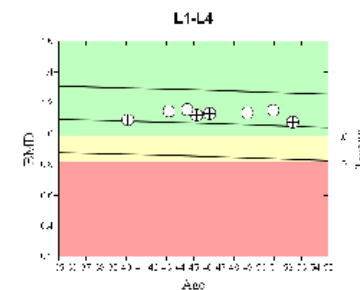


Image not for diagnostic use
 116 x 143
 DAP: 4.0 cGy*cm²

Scan Information:

Scan Date: May 07, 2021 ID: A0507210K
 Scan Type: a Lumbar Spine
 Analysis: May 07, 2021 14:23 Version 13.5.3
 Spine
 Operator: GLY
 Model: Horizon A (S/N 100183)
 Comment:



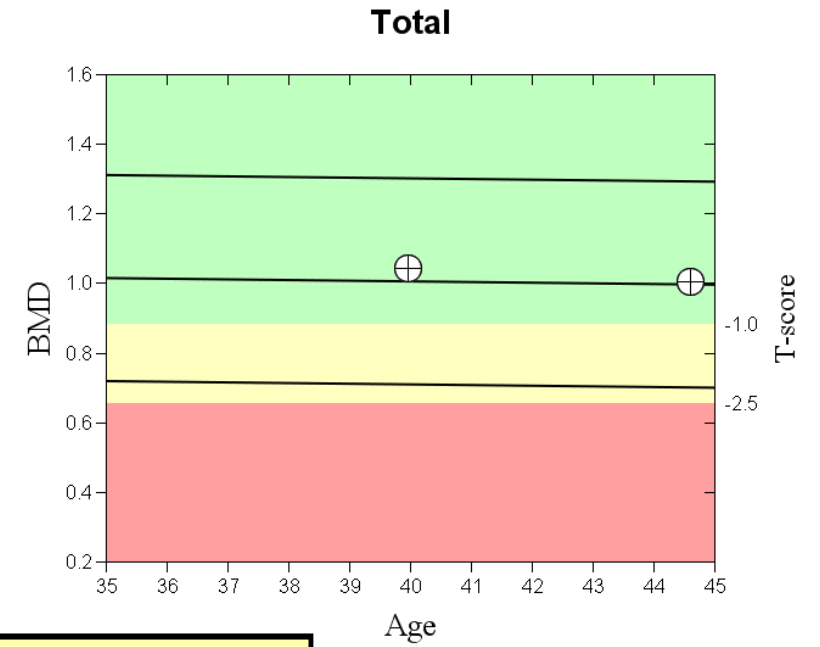
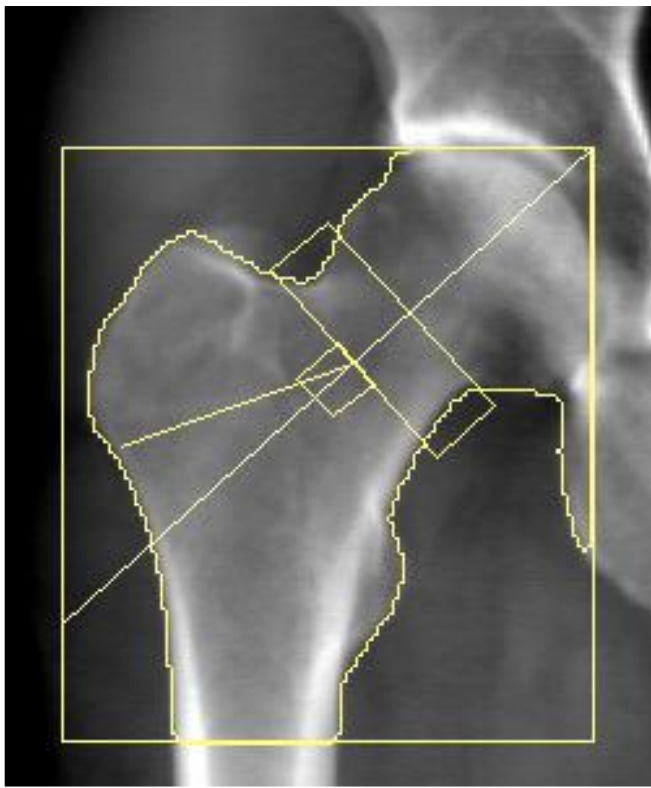
T-score vs. White Male. Source: BMDCS/Hologic White Male. Z-score vs. White Male. Source: BMDCS/Hologic White Male.

DXA Results Summary: L1-L4

Scan Date	Age	BMD (g/cm ²)	T-score	BMD Change vs Baseline	BMD Change vs Previous
05/07/2021	52	1.076	-0.1	-1.1%	-6.7%*
12/02/2019	50	1.153	0.6	6.0%*	1.5%
12/21/2017	48	1.136	0.4	4.4%*	0.6%
03/05/2015	46	1.130	0.4	3.8%*	0.7%
03/19/2014	45	1.122	0.3	3.1%*	-3.1%*
07/09/2013	44	1.157	0.6	6.4%*	1.0%
02/22/2012	43	1.146	0.5	5.3%*	5.3%*
02/09/2009	40	1.088	0.0		

* Denotes significance at 95% confidence level, LSC is 0.022 g/cm²

HOLOGIC



10-year Fracture Risk

FRAX not reported because:
 Man under age 50

Scan Date	Age	BMD (g/cm ²)	T - score	BMD Change vs Baseline	BMD Change vs Previous
05/20/2021	44	1.004	-0.2	-3.6%*	-3.6%*
09/29/2016	39	1.042	0.1		

BONE AND MINERAL LAB

Name: Patient ID: 26018-0281001 Sex: Ethnicity: Height: 72.0 in Weight: 200.0 lb Age: DOB:

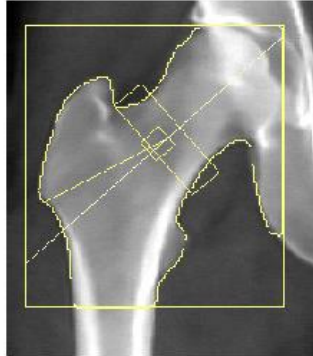


Image not for diagnostic use
k = 1.138, d0 = 48.3
106 x 115
NECK: 49 x 15
HAL: 119 mm
DAP: 2.9 cGy*cm²

Scan Information:

Scan Date: August 30, 2016 ID: A08301608
Scan Type: a Right Hip
Analysis: August 30, 2016 11:39 Version 13.5.3.3
Hip
Operator: GLY
Model: Horizon A (S/N 100183)
Comment:

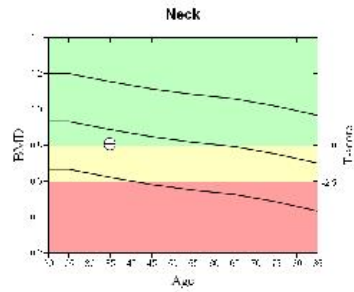
DXA Results Summary:

Region	Area (cm ²)	BMC (g)	BMD (g/cm ²)	T-score	Z-score
Neck	6.03	4.86	0.806	-0.9	-0.6
Troch	13.39	10.12	0.756	-0.2	0.0
Inter	25.39	30.59	1.205	0.1	0.1
Total	44.80	45.57	1.017	-0.1	0.0
Ward's	1.13	0.69	0.613	-1.2	-0.7

Total BMD CV 1.0%, ACF = 1.039, BCF = 1.008, TH = 6.511
WHO Classification: Normal

10-year Fracture Risk

FRAX not reported because:
Man under age 50



T-score vs. White Male. Source: BMDCS/NHANES White Male. Z-score vs. White Male. Source: BMDCS/NHANES White Male.

Comment:

BONE AND MINERAL LAB

Name: Patient ID: Sex: Ethnicity: Height: 72.5 in Weight: 178.0 lb Age: DOB:

Referring Physician: UNKNOWN, UNKNOWN

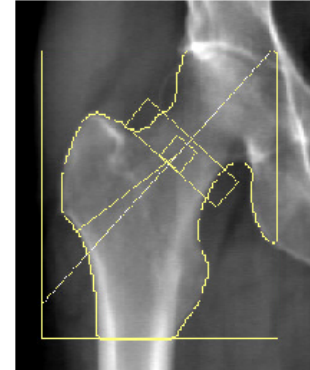
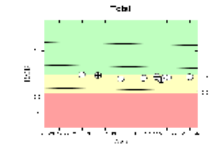


Image not for diagnostic use
97 x 118
NECK: 51 x 15
HAL: 111 mm
DAP: 3.0 cGy*cm²

Scan Information:

Scan Date: August 26, 2021 ID: A08262106
Scan Type: a Right Hip
Analysis: August 26, 2021 09:36 Version 13.5.3
Right Hip
Operator: GLY
Model: Horizon A (S/N 100183)
Comment:



T-score vs. White Male. Source: BMDCS/NHANES White Male. Z-score vs. White Male. Source: BMDCS/NHANES White Male.

FRAX: 10-year Fracture Risk

10-year Fracture Risk¹

Major Osteoporotic Fracture **4.8%**
Hip Fracture **0.5%**
Reported Risk Factors:
US (Caucasian), Neck BMD = -0.724, BMI = 23.8

¹ FRAX® Version 3.0.8. Fracture probability calculated for an untreated patient. Fracture probability may be lower if the patient has received treatment.

DXA Results Summary:

Scan Date	Age	BMD (g/cm ²)	T-score	BMD Change vs Baseline	BMD Change vs Previous
08/26/2021	53	0.861	-1.1	-3.3%*	0.7%
11/14/2018	51	0.855	-1.2	-4.0%*	0.1%
05/30/2018	50	0.854	-1.2	-4.1%*	3.9%*
12/20/2017	50	0.822	-1.4	-7.7%*	-5.1%*
05/03/2017	49	0.866	-1.1	-2.8%	2.1%
09/01/2015	47	0.849	-1.2	-4.7%*	0.9%
09/07/2012	44	0.842	-1.3	-5.5%*	-4.5%*
09/21/2009	42	0.882	-1.0	-1.1%	-1.1%
08/21/2007	39	0.891	-0.9		

* Denotes significance at 95% confidence level, LSC is 0.027 g/cm²

BONE AND MINERAL LAB

Name:	Sex:	Height:
Patient ID:	Ethnicity:	Weight:
DOB:		Age:

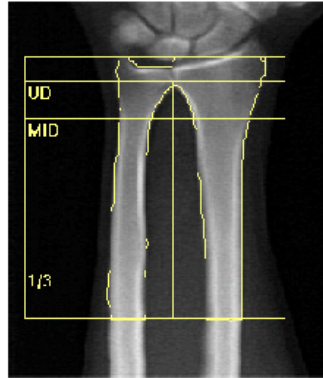


Image not for diagnostic use
k = 1.214, d0 = 66.2
208 x 107, Forearm Length: 29.3 cm
DAP: 0.6 cGy*cm²

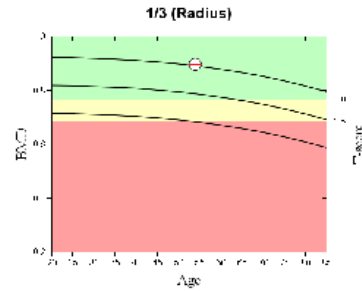
Scan Information:

Scan Date: August 26, 2021 ID: A08262103
Scan Type: a.L.Forearm
Analysis: August 26, 2021 09:44 Version 13.5.3:3
Left Forearm
Operator: GLY
Model: Horizon A (S/N 100183)
Comment:

DXA Results Summary:

Radius	Area (cm ²)	BMC (g)	BMD (g/cm ²)	T - score	Z - score
UD	3.90	2.11	0.543	-0.1	0.6
MID	9.09	6.89	0.758	1.0	1.4
1/3	2.73	2.45	0.897	1.5	2.1
Total	15.72	11.46	0.729	0.8	1.4

Total BMD CV 1.0%, ACF = 1.039, BCF = 1.008
WHO Classification: Normal
Fracture Risk: Not Increased



Comment:

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

Bone Densitometry Results

04-Feb-2024

Dear Dr [Name],

For Mrs [Name] 55Y 2.65m 70kg 181 (161)2475 2 (2000) 04007030

Summary: This study is performed on 27-Feb-2024 for the assessment of **SP Spine, Left Hip, Metacarpals and Left Forearm** with the Lunar Prodigy (Scan # 27-644). The Young's Modulus (YBM) and Age (AGE) are 16.14 GPa and 52.00 years, respectively.

Site	MD (g/cm ³)	T-score	Fracture Risk	Z-score	Age-adjusted T-score
SP Spine	1.000	-1.0	Mild	-1.1	normal (age)
Total Hip (L)	1.000	-1.0	Mild	-1.1	average
Metacarpals (Right & L)	1.000	-1.0	Mild	-1.1	normal (age)

Lateral Spine: T12 vertebral body are usually averaged (T12v4). However, L12v4 has been used in this analysis. The absolute BMD is 1.000 g/cm³ and the T-score is -1.0. The Z-score is -1.1. The density is in the **lowest quartile for age**. The rate of bone loss is 0.0% (less than the 1000 year (1.00%/year) (To be 50% reduction of a average + 2.0% change in density (1000 year) (1000 year)).

Left Hip: The Total Hip region of the hip contains the femoral head, neck and shaft. The average T-score of the femoral head is 1.000 g/cm³ and the T-score is -1.0. The Z-score is -1.1. The density is in the **lowest quartile for age**. The rate of bone loss is 0.0% (less than the 1000 year (1.00%/year) (To be 50% reduction of a average + 2.0% change in density (1000 year) (1000 year)).

Left Forearm: The forearm was measured at the 30% radius site. The patient has a measured BMD of 1.000 g/cm³ and the T-score is -1.0. The density is in the **lowest quartile for age**. The rate of bone loss is 0.0% (less than the 1000 year (1.00%/year) (To be 50% reduction of a average + 2.0% change in density (1000 year) (1000 year)).

Lateral Spine Metacarpals: A lateral spine metacarpals scan of T1 to L4 was performed, which allowed density of the hand of L2.

Comments: Bone density results may vary from region to region, and each of these values may need a clinical correlation with the patient. A conservative approach may take density of the lowest density measured, which is the lowest site of the region. L12v4. This is the most conservative approach and the patient may go on to have a fracture because of the low density. The results should be used to account for available clinical information, including bone density.

Suggested follow-up: The patient should be re-scanned in 12 months to assess further bone loss. A 24-month scan is also possible. There is a significant change in the hip.

NOTE: The lateral spine scan is usually affected by an apparent degenerative effect, and the results should be considered with caution.

Dr. S. S. S. S. S.
Senior Director - Nuclear Medicine and Bone Densitometry

1000 Adelaide Hospital - Adelaide, South Australia 5000. Tel: (08) 8406 1000. Fax: (08) 8406 1001. Email: info@rahd.org.au

BMD Report

Includes:

- Indications for scan
- Diagnosis by MD
- Treatment recommendations if appropriate
- When the patient needs to be rescanned
- May or may not include images

Report Options

Each DXA scanner comes with a report option, and you can even format the report however you want it.

Many facilities will just have the radiologist put it in an x-ray format and it will look like an x-ray report.

Areas Typically Diagnosed

At Least one Hip:
Neck Region
Total Region

L-Spine L1-4

DXA Results Summary:

Region	Area (cm ²)	BMC (g)	BMD (g/cm ²)	T - score	Z - score
Neck	5.89	4.96	0.842	-0.6	-0.3
Troch	12.44	9.01	0.724	-0.4	-0.2
Inter	22.85	28.00	1.225	0.2	0.2
Total	41.18	41.96	1.019	-0.1	0.1
Ward's	1.31	0.87	0.663	-0.9	-0.2

Total BMD CV 1.0%, ACF = 1.039, BCF = 1.008, TH = 6.347
WHO Classification: Normal

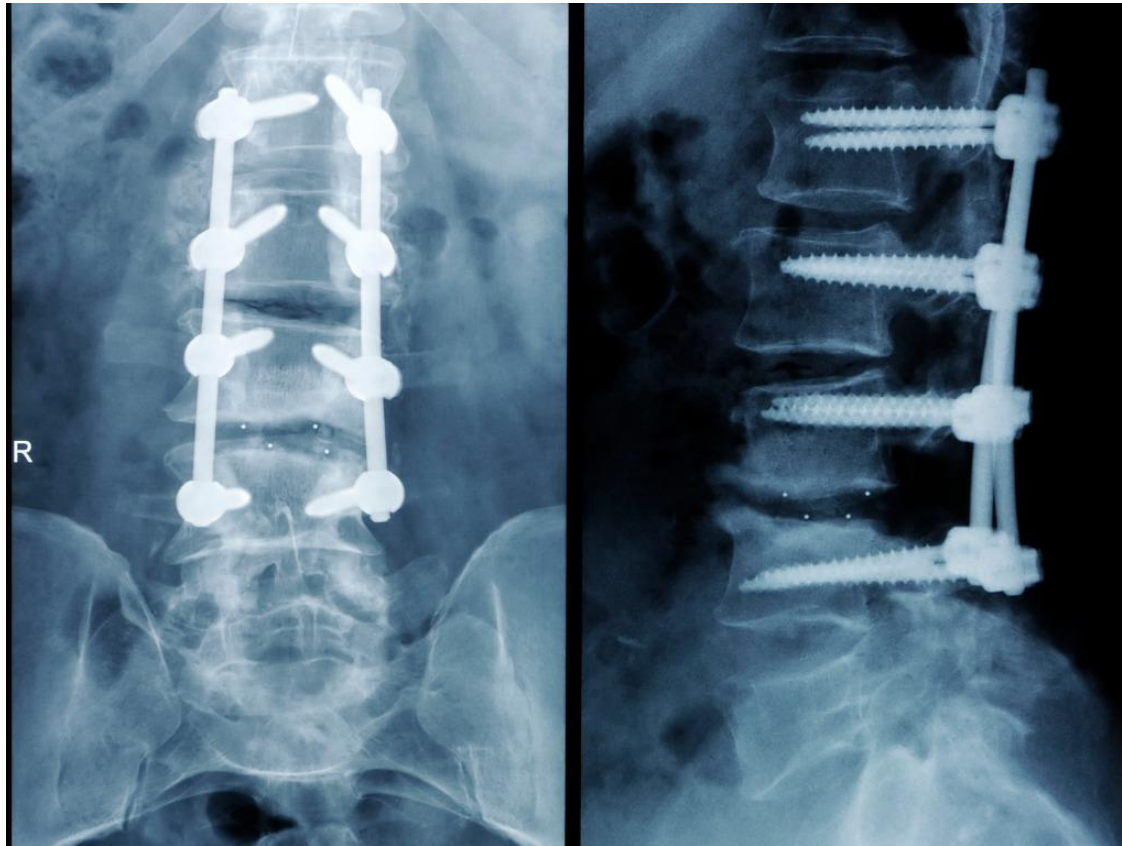
DXA Results Summary:

Region	Area (cm ²)	BMC (g)	BMD (g/cm ²)	T - score	Z - score
L1	13.96	13.75	0.985	-0.8	-0.8
L2	15.71	17.96	1.144	0.5	0.5
L3	16.38	18.98	1.159	0.5	0.5
L4	19.03	22.28	1.170	0.7	0.7
Total	65.08	72.97	1.121	0.3	0.3

Total BMD CV 1.0%, ACF = 1.039, BCF = 1.008, TH = 7.902
WHO Classification: Normal
Fracture Risk: Not Increased

What about these
scans?

What If?



Spine Internal Artifacts

Internal artifacts such as spine hardware and hip replacements should **never** be included in the exam or the result.

What do you do?

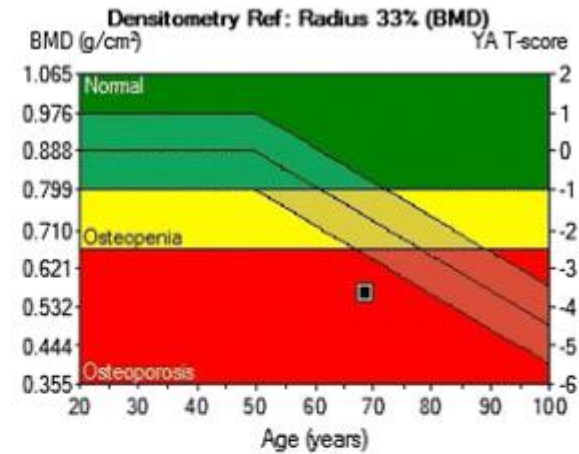
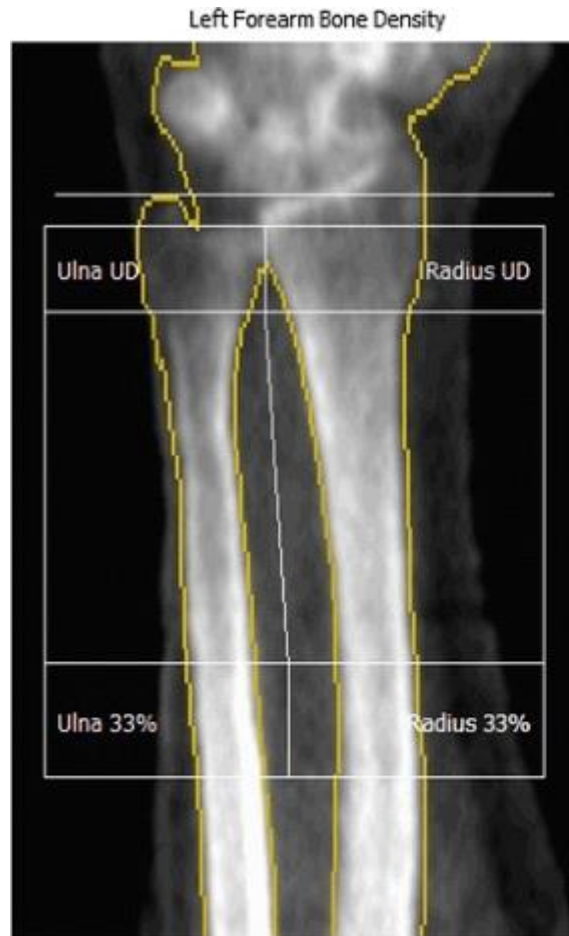
- For the spine you can include any were from 2 to 4 vertebrae.
- The vertebrae does not have to be adjacent to each other. It can be L1 and L3 if it needs to be.
- If all four vertebrae have hardware in them the spine must be excluded.
- If the spine is excluded scan the forearm in its place.

Degenerative Changes and Disease Processes



Spines like this normally would be excluded and a forearm scan should be performed. However, many places will perform the spine and add the forearm for spine comparison changes.

If you scan the forearm the 33% or 1/3 area is the area of the forearm that is diagnosed.



Region	¹ BMD (g/cm ²)	² Young-Adult T-score	³ Age-Matched Z-score
Radius 33%	0.560	-3.7	-2.0

Forearms are also done if patient is too large for the table

Hip Replacements



Hip Replacements

Depending on your facility protocol, if you normally scan one hip scan the other hip without the replacement.

If your patient has bilateral hip replacements, then you will scan the forearm.

If you normally scan bilateral hip and one is replaced, then just scanning one hip should due.

Types of Reports You Might See

LET'S SEE WHAT WE
SEE

10/22/1938 67.0 years
Height / Weight: 60.0 in. 91.0 lbs.
Sex / Ethnic: Female Asian
Physician: [Redacted]
Measured: [Redacted]
Analyzed: [Redacted]

DualFemur Bone Density

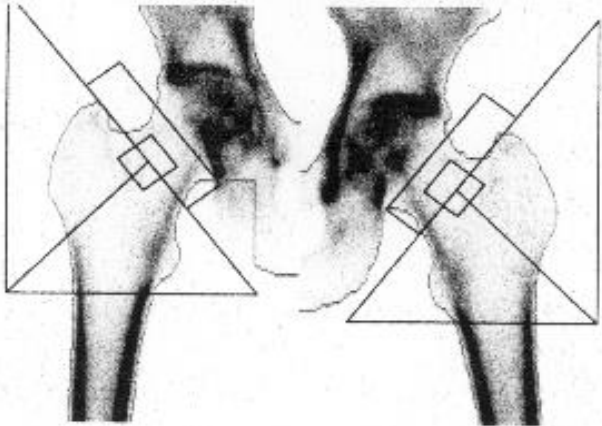
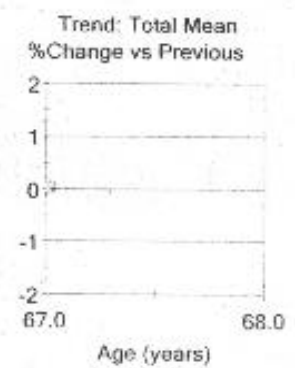
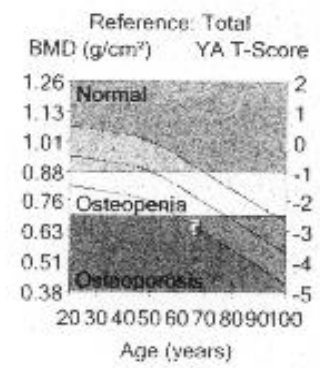


image not for diagnosis



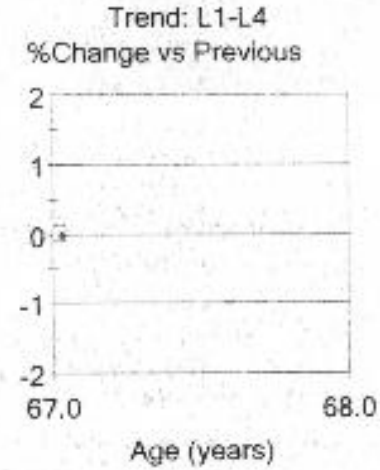
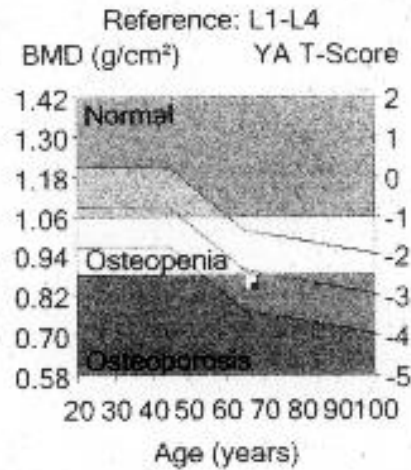
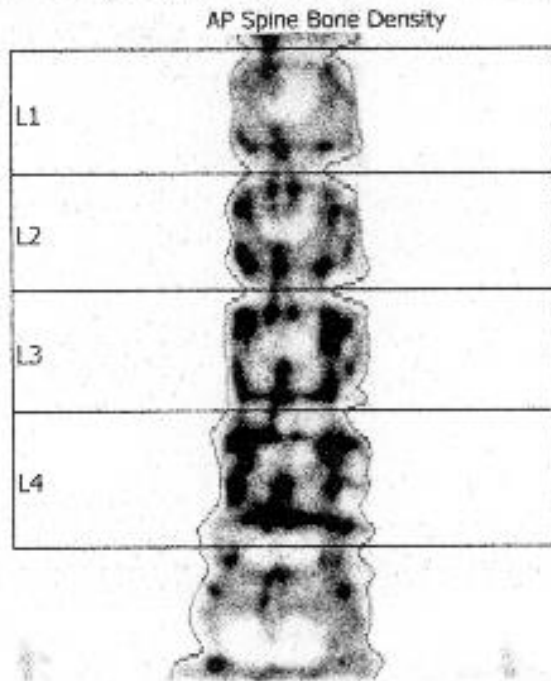
Region	BMD ^{1,6} (g/cm ²)	Young-Adult ^{2,7} T-Score	Age-Matched ³ Z-Score
Neck			
Left	0.622	-3.0	-0.9
Right	0.640	-2.8	-0.8
Mean	0.631	-2.9	-0.8
Difference	0.018	0.2	0.2
Total			
Left	0.657	-2.8	-0.9
Right	0.640	-2.9	-1.1
Mean	0.648	-2.9	-1.0
Difference	0.017	0.1	0.1

Measured Date	Age (years)	Trend: Total Mean		
		BMD ^{1,6} (g/cm ²)	Change vs Baseline (%)	Baseline (%)
10/29/2005	67.0	0.648	baseline	baseline

COMMENTS:

Birth Date: 10/22/1938 67.0 years
Height / Weight: 60.0 in. 91.0 lbs.
Sex / Ethnic: Female Asian

Physician: [REDACTED]
Measured: [REDACTED]
Analyzed: 10/29/2005 10:54:42 AM (6.70)



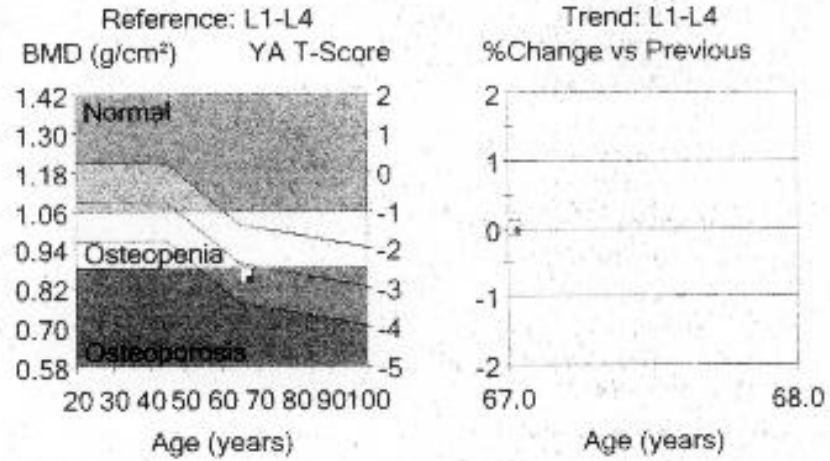
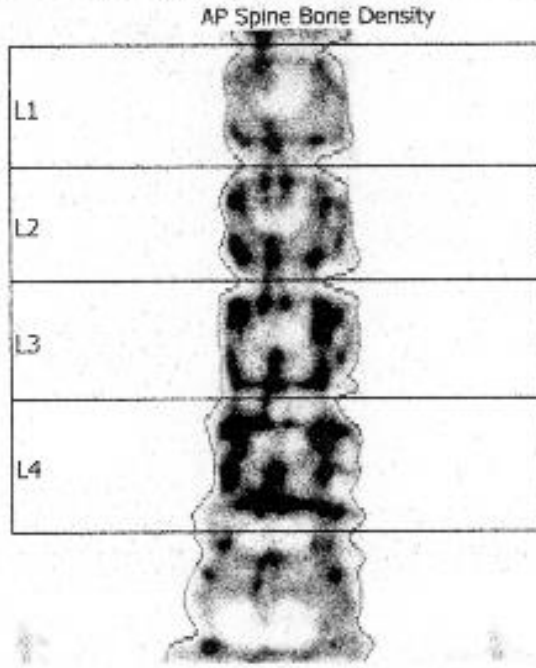
Region	¹ BMD (g/cm ²)	² Young-Adult T-Score	³ Age-Matched Z-Score
L1	0.765	-3.0	-0.6
L2	0.822	-3.2	-0.7
L3	0.903	-2.5	-0.1
L4	0.924	-2.3	0.1
L1-L4	0.861	-2.7	-0.2
L2-L4	0.888	-2.6	-0.2

Measured Date	Age (years)	Trend: L1-L4		
		¹ BMD (g/cm ²)	Change vs Baseline (%)	Baseline (%)
10/29/2005	67.0	0.861	baseline	baseline

COMMENTS:

Birth Date: 10/22/1938 67.0 years
Height / Weight: 60.0 in, 91.0 lbs.
Sex / Ethnic: Female Asian

Physician: DR. XU-Xudong & DR. CHEN Yongfang
Measured: 10/29/2005 10:54:10 AM (6.70)
Analyzed: 10/29/2005 10:54:42 AM (6.70)



Region	¹ BMD (g/cm ²)	² Young-Adult T-Score	³ Age-Matched Z-Score
L1	0.765	-3.0	-0.6
L2	0.822	-3.2	-0.7
L3	0.903	-2.5	-0.1
L4	0.924	-2.3	0.1
L1-L4	0.861	-2.7	-0.2
L2-L4	0.888	-2.6	-0.2

Measured Date	Age (years)	Trend: L1-L4		
		¹ BMD (g/cm ²)	Change vs Baseline (%)	Baseline Change vs Baseline (%/yr)
10/29/2005	67.0	0.861	baseline	baseline

COMMENTS:

Patient: [REDACTED]
Birth Date: [REDACTED] 36.6 years
Height / Weight: 64.0 in. 125.0 lbs.
Sex / Ethnic: Female White

Patient ID: P&G6
Referring Physician: Dr. Petak
Measured: 04/12/2005 10:38:52 AM (9.15)
Analyzed: 04/12/2005 10:38:56 AM (9.15)

DualFemur Bone Density

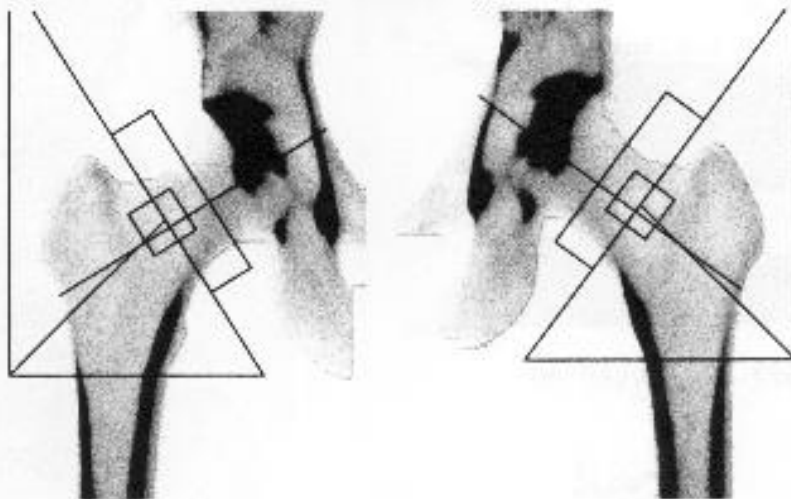
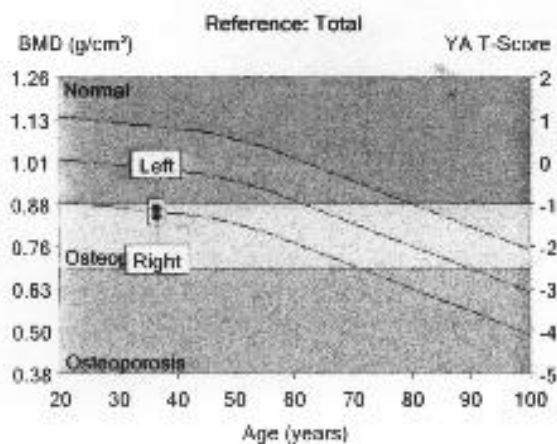


Image not for diagnosis



Region	¹ BMD (g/cm ³)	^{2,7} Young-Adult (%) T-Score	³ Age-Matched (%) Z-Score
Neck			
Neck Left	0.807	78 -1.7	81 -1.3
Neck Right	0.827	80 -1.5	83 -1.2
Neck Mean	0.817	79 -1.6	82 -1.3
Neck Diff.	0.021	2 0.2	2 0.2
Total			
Total Left	0.871	86 -1.1	88 -0.9
Total Right	0.842	84 -1.3	85 -1.2
Total Mean	0.856	85 -1.2	87 -1.0
Total Diff.	0.030	3 0.2	3 0.2

Norland report

