Irish Health Care

███████████

DXA Bone Densitometry Report: 13 April 2017

Dear ███████

Your patient Geraldine Hayes completed a BMD test on 13/04/2017 using the **Lunar Prodigy Advance DXA System** (software version: 13.50) manufactured by **GE Medical Systems LUNAR**. The following summarizes the results of our evaluation.

⬗ PATIENT BIOGRAPHICAL:

|					
Name:	Geraldine Hayes, ████████████████				
Patient ID:	██████	**Birth Date:**	████████████	**Height:**	██████
Gender:	Female	**Exam Date:**	13/04/2017	**Weight:**	
Indications:		**Fractures:**	Thumb	**Treatments:**	Vitamin D

▮ ASSESSMENT:

The results confirm osteoporosis and treatment is indicated.

Site	Region	Measured Date	Measured Age	WHO Classification	Young Adult T-score	BMD	%Change vs. Previous	Significant Change (*)
AP Spine	L1-L3	13/04/2017	███	Osteoporosis	-3.8	0.719 g/cm²		
DualFemur	Total Mean	13/04/2017	███	Osteoporosis	-2.9	0.644 g/cm²		

World Health Organization (WHO) criteria for post-menopausal, Caucasian Women:
Normal: T-score at or above -1 SD
Osteopenia: T-score between -1 and -2.5 SD
Osteoporosis: T-score at or below -2.5 SD

AP Spine: L1-L3 (BMD)

DualFemur: Total (BMD)
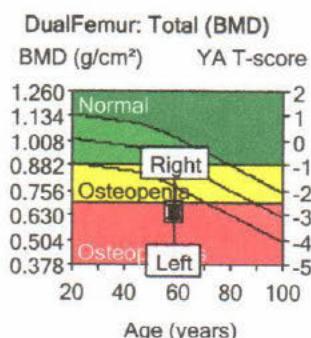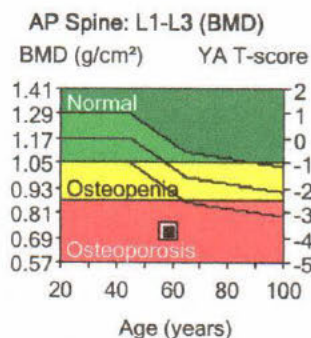
The LSC for the spine at this unit is 0.044 g/cm2 at 95% confidence level
The LSC for the hips at this unit is 0.016 g/cm2 at 95% confidence level

▼ RECOMMENDATIONS:

⬤ FOLLOW-UP:

Follow-up by a specialist may be useful to assess the efficacy of treatment and follow up BMD.
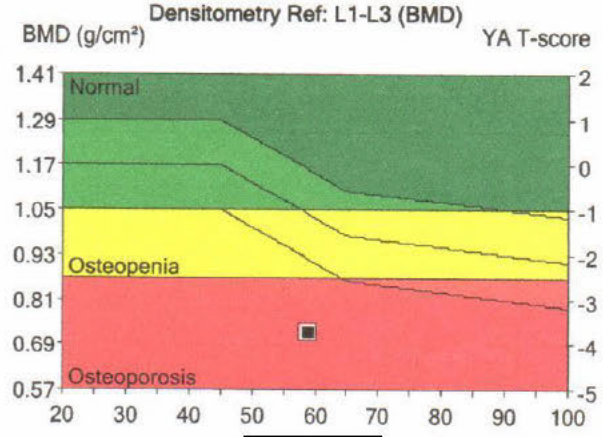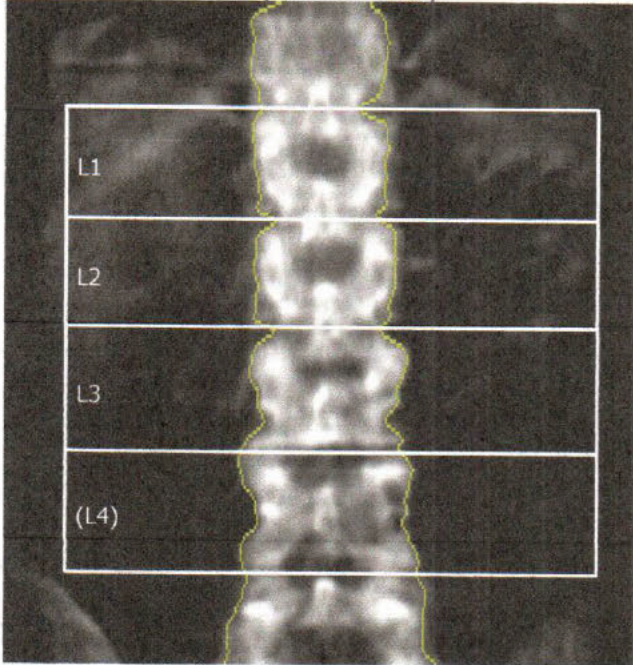
⬤ COMMENTS:

Sincerely,

███████████████

Irish Health Care

███████████

Patient:	Hayes, Geraldine	**Facility ID:**	IHC	
Birth Date:	███████████	**Referring Physician:**	███████	
Height / Weight:	███████████	**Measured:**	13/04/2017 13:09:52	(13.50)
Sex / Ethnic:	Female White	**Analyzed:**	13/04/2017 13:24:43	(13.50)

AP Spine Bone Density

Densitometry Ref: L1-L3 (BMD)

███████████

Region	BMD[1] (g/cm²)	Young-Adult[2] T-score	Age-Matched[3] Z-score
L1	0.720	-3.4	-2.3
L2	0.702	-4.1	-3.0
L3	0.732	-3.9	-2.8
L4	0.600	-5.0	-3.9
L1-L3	0.719	-3.8	-2.6

COMMENTS:

Image not for diagnosis

Printed: 13/04/2017 13:25:19 (13.50)76:3.00:50.00:12.0 0.00:7.74 0.60x1.05
20.5:%Fat=21.4%
0.00:0.00 0.00:0.00
Filename: 4dkcoovx0.dfx
Scan Mode: Standard   37.0 µGy

1 - Statistically 68% of repeat scans fall within 1SD (± 0.010 g/cm² for AP Spine L1-L3)
2 - USA (Combined NHANES (ages 20-30) / Lunar (ages 20-40)) AP Spine Reference Population (v112)
3 - Matched for Age, Ethnic
11 - World Health Organization - Definition of Osteoporosis and Osteopenia for Caucasian Women:
Normal = T-score at or above -1.0 SD; Osteopenia = T-score between -1.0 and -2.5 SD;
Osteoporosis = T-score at or below -2.5 SD; (WHO definitions only apply when a young
healthy Caucasian Women reference database is used to determine T-scores.)

GE Healthcare

Lunar Prodigy Advance
PA+41364

Irish Health Care
Galway Clinic

Patient:	Hayes, Geraldine	**Facility ID:**	IHC		
Birth Date:	███████████	**Referring Physician:**	█████		
Height / Weight:		**Measured:**	13/04/2017	13:12:50	(13.50)
Sex / Ethnic:	Female White	**Analyzed:**	13/04/2017	13:20:18	(13.50)

DualFemur Bone Density

Image not for diagnosis

Densitometry Ref: Total (BMD)
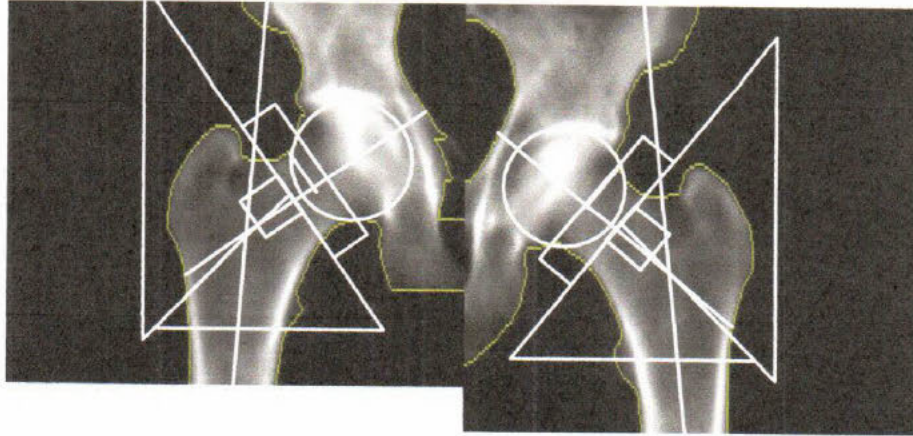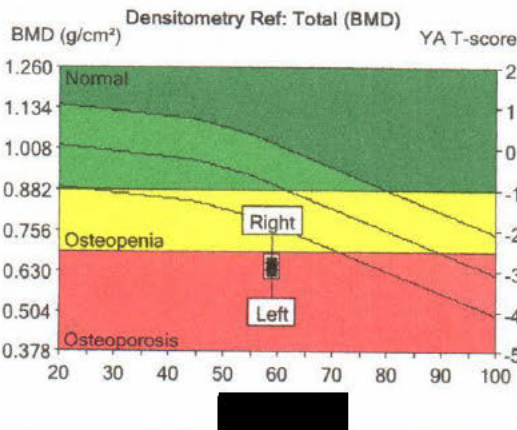
Region	BMD [1] (g/cm²)	Young-Adult [2,7] T-score	Age-Matched [3] Z-score
Neck			
Left	0.644	-2.8	-1.6
Right	0.694	-2.5	-1.3
Mean	0.669	-2.7	-1.5
Difference	0.050	0.4	0.4
Total			
Left	0.632	-3.0	-2.1
Right	0.656	-2.8	-1.9
Mean	0.644	-2.9	-2.0
Difference	0.024	0.2	0.2

Hip Axis Length Comparison (mm)

Right = 2.7   Left = 7.4

-30   -20   -10   Mean   10   20   30

(Right = 108.5 mm) (Mean = 105.8 mm) (Left = 113.2 mm)
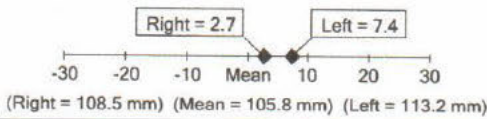
COMMENTS:

1 - Statistically 68% of repeat scans fall within 1SD (± 0.010 g/cm² for DualFemur Total)
2 - USA (Combined NHANES (ages 20-30) / Lunar (ages 20-40)) Femur Reference Population (v112)
3 - Matched for Age, Ethnic
7 - DualFemur Total T-score difference is 0.2. Asymmetry is None.
11 - World Health Organization - Definition of Osteoporosis and Osteopenia for Caucasian Women: Normal = T-score at or above -1.0 SD; Osteopenia = T-score between -1.0 and -2.5 SD; Osteoporosis = T-score at or below -2.5 SD; (WHO definitions only apply when a young healthy Caucasian Women reference database is used to determine T-scores.)

Printed: 13/04/2017 13:25:25 (13.50); Filename: 4dkcoovx0.dfx; Right Femur; 15.9:%Fat=31.5%; Neck Angle (deg)= 55; Scan Mode: Standard   37.0 µGy; Left Femur; 15.5:%Fat=31.8%; Neck Angle (deg)= 51; Scan Mode: Standard   37.0 µGy