



Bone Densitometry Report: 11 December 2022

Referring Physician: AF

PATIENT:

Name:	8987708494,	Birth Date:	09/07/1967	Height:	155.0 cm
Patient ID:	8987708494	Measured:	11/12/2022	Weight:	66.0 kg
Sex:	Female	Fractures:		Treatments:	
Indications:					

ASSESSMENT:

The BMD measured at AP Spine L1-L4 is 0.795 g/cm² with a T-score of -3.2 is markedly low. Treatment, if not already being done, should be started. A follow up DXA test is recommended in one year to monitor response to therapy.

Site	Region	Measured Date	Measured Age	WHO Classification	YA T-score	BMD
AP Spine	L1-L4	11/12/2022	55.4	N/A	-3.2	0.795 g/cm ²
Total Body	Total	11/12/2022	55.4	N/A	-	0.832 g/cm ²

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

RECOMMENDATION:

Mild to aggressive therapies are available in the form of Hormone replacement therapy (HRT), bisphosphonates, Calcitonin, and SERMs. Additionally, all patients should ensure an adequate intake of dietary calcium (1200 mg/d) and vitamin D (400-800 IU daily).

FOLLOW-UP:

People with diagnosed cases of osteoporosis or osteopenia should be regularly tested for bone mineral density. For patients eligible for Medicare, routine testing is allowed once every 2 years. The testing frequency can be increased to one year for patients who have rapidly progressing disease, or for those who are receiving medical therapy to restore bone mass.

Based on these results, a follow-up exam is recommended in December 2023

(not specified)



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 **ASSESSMENT:**

With a Z-score of -2.7, this patient has very low BMD for their age and sex. Causes of secondary bone loss should be investigated.

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Total Body	Total	11/12/2022	55.4	-2.7	0.832 g/cm ²

 **RECOMMENDATION:**

PLEASE ENTER RECOMMENDATION TEXT.

 **FOLLOW-UP:**

PLEASE ENTER FOLLOW-UP TEXT.

Based on these results, a follow-up exam is recommended in December 2024

(not specified)



Bone Densitometry Report: 11 December 2022

Referring Physician: AF

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Patient ID:	8987708494	Measured:	11/12/2022	Weight:	66.0 kg
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Based on these results, a follow-up exam is recommended in December 2023

(not specified)



Composition Report: 11 December 2022

Referring Physician: AF

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Patient ID:	8987708494	Measured:	11/12/2022	Weight:	66.0 kg
Sex:	Female	Fractures:		Treatments:	
Indications:					

ASSESSMENT:

Add text here...

RECOMMENDATION:

Add text here...

FOLLOW-UP:

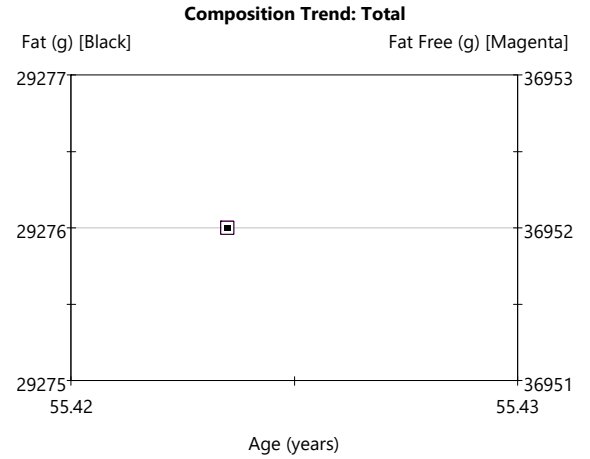
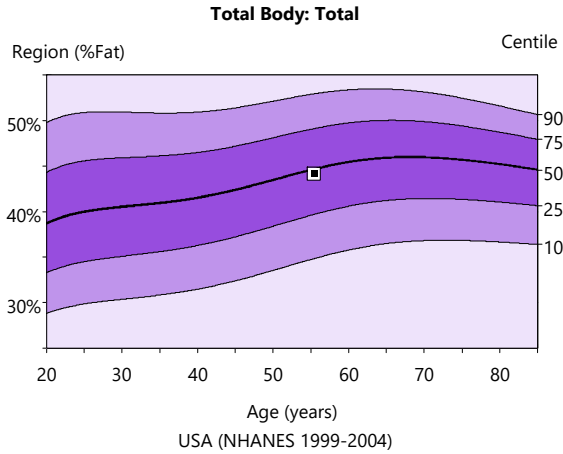
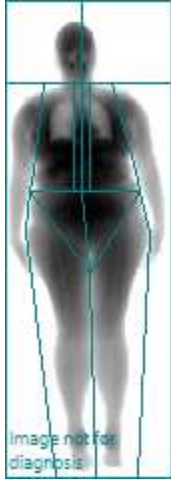
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PATIENT:

Name: 8987708494,
Patient ID: 8987708494 **Birth Date:** 09/07/1967 **Height:** 155.0 cm
Sex: Female **Measured:** 11/12/2022 **Weight:** 66.0 kg
Indications: **Fractures:** **Treatments:**

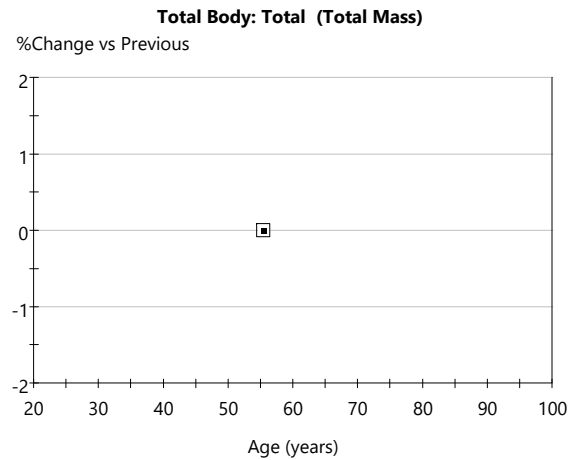
COMPOSITION:



Region	Measured Date	Measured Age	Region (%Fat)	Centile	Total Mass	Tissue Mass	Fat Mass	Lean Mass	Fat Free Mass	BMC
Total	11/12/2022	55.4	44.2 %	48	66.2 kg	64,669 g	29,276 g	35,392 g	36,952 g	1,560 g

COMPOSITION CHANGE:

Region	Measured Date	Measured Age	Total Mass	Change vs. Previous	%Change vs. Previous
Total	11/12/2022	55.4	66.2 kg	-	-



PATIENT:

Name: 8987708494,
Patient ID: 8987708494 **Birth Date:** 09/07/1967 **Height:** 155.0 cm
Sex: Female **Measured:** 11/12/2022 **Weight:** 66.0 kg
Indications: **Fractures:** **Treatments:**

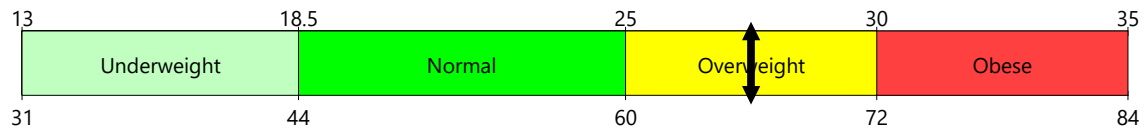
FAT DISTRIBUTION:

Measured Date	Measured Age	Android %Fat	Gynoid %Fat	A/G Ratio	Total Tissue %Fat	Total Region %Fat
11/12/2022	55.4	48.7 %	52.3 %	0.93	45.3 %	44.2 %

BODY MASS INDEX (BMI):

World Health Organization BMI Classification

BMI = 27.5 (kg/m²)



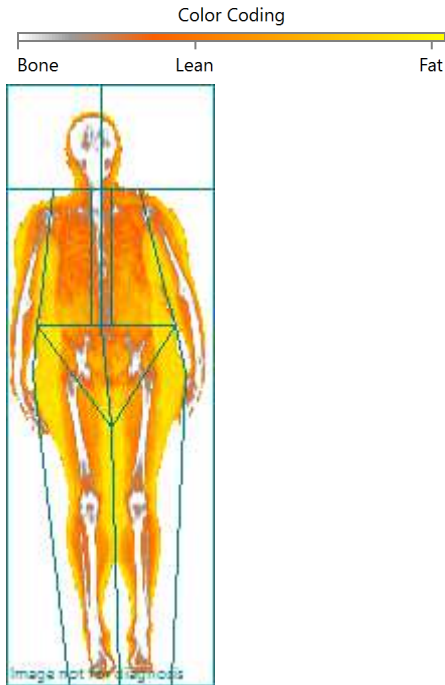
Weight (kg) for height = 155.0 cm

BMI Classification Overweight
BMI 27.5 kg/m²



Client	Sex	Ethnicity	Birth Date	Height	Weight	Measured
8987708494,	Female	White	09/07/1967	155.0 cm	66.0 kg	11/12/2022

Segmental Analysis

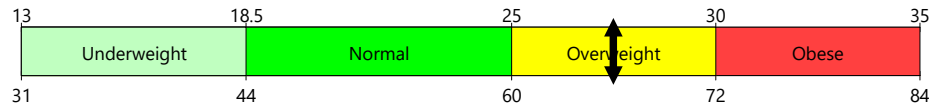


Region	%Fat (%)	Total Mass (kg)	Fat Mass (g)	Lean Mass (g)	BMC (g)
Arms Total	43.8	7.2	3,072	3,939	210
Right	44.3	3.7	1,594	2,006	113
Left	43.3	3.5	1,478	1,933	97
Difference	0.9	0.2	116	73	15
Legs Total	48.2	23.5	11,046	11,895	580
Right	47.4	12.2	5,633	6,247	295
Left	48.9	11.3	5,413	5,648	285
Difference	-1.5	0.8	221	599	10
Trunk	46.2	31.5	14,334	16,690	470
Android	48.7	4.9	2,369	2,495	31
Gynoid	52.3	10.1	5,211	4,755	166
Total	45.3	66.2	29,276	35,392	1,560

BMC = Bone Mineral Content

World Health Organization BMI Classification

BMI = 27.5 (kg/m²)



Weight (kg) for height = 155.0 cm

Body Composition History (Region: Total)

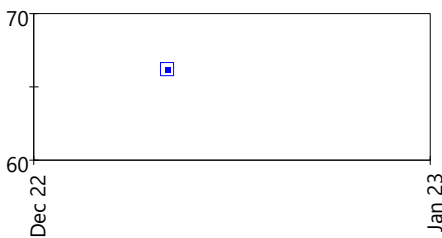
Measured Date	Total Mass (kg)	Change vs.		Fat Mass (g)	Change vs.		Lean Mass (g)	Change vs.	
		Baseline (kg)	Previous (kg)		Baseline (g)	Previous (g)		Baseline (g)	Previous (g)
11/12/2022	66.2	baseline	-	29,276	baseline	-	35,392	baseline	-

Composition Trend: Total

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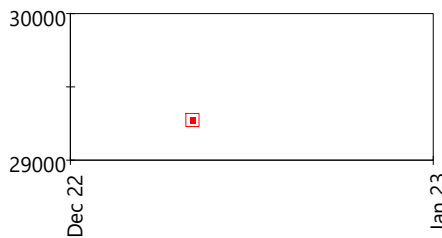
Composition Trend: Total

Total Mass (kg)



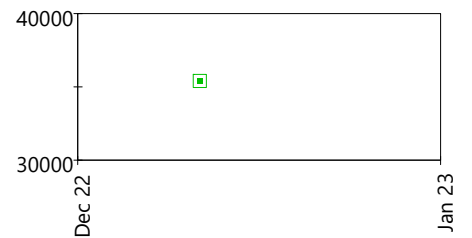
Measured Date

Fat (g)



Measured Date

Lean (g)



Measured Date

Recommendation / Follow-up

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Patient: 8987708494,	Referring Physician: AF
Birth Date: 09/07/1967	Age: 55.4 years
Height: 155.0 cm	Weight: 66.0 kg
Sex: Female	Ethnicity: White
	Patient ID: 8987708494
	Measured: 11/12/2022 10:04:37 (18 [SP 1])
	Analyzed: 11/12/2022 10:18:12 (18 [SP 1])

BODY COMPOSITION: Total Body (Enhanced Analysis)

Region	Tissue (%Fat)	Region (%Fat)	Tissue (g)	Fat (g)	Lean (g)	BMC (g)	Total Mass (kg)
Arms	43.8	42.5	7,012	3,072	3,939	210	7.2
Arm Right	44.3	42.9	3,601	1,594	2,006	113	3.7
Arm Left	43.3	42.1	3,411	1,478	1,933	97	3.5
Arms Diff.	0.9	0.8	189	116	73	15	0.2
Legs	48.2	47.0	22,942	11,046	11,895	580	23.5
Leg Right	47.4	46.3	11,881	5,633	6,247	295	12.2
Leg Left	48.9	47.7	11,061	5,413	5,648	285	11.3
Legs Diff.	-1.5	-1.4	820	221	599	10	0.8
Trunk	46.2	45.5	31,024	14,334	16,690	470	31.5
Trunk Right	47.1	46.4	14,704	6,929	7,776	238	14.9
Trunk Left	45.4	44.7	16,319	7,405	8,914	232	16.6
Trunk Diff.	1.7	1.6	-1,615	-477	-1,139	5	-1.6
Android	48.7	48.4	4,864	2,369	2,495	31	4.9
Gynoid	52.3	51.4	9,966	5,211	4,755	166	10.1
Total	45.3	44.2	64,669	29,276	35,392	1,560	66.2
Total Right	45.0	43.9	32,641	14,697	17,944	849	33.5
Total Left	45.5	44.5	32,028	14,579	17,448	711	32.7
Total Diff.	-0.5	-0.6	613	117	495	138	0.8

Fat Mass Ratios:

Trunk Fat Mass/Total Fat Mass	Legs Fat Mass/Total Fat Mass	Limbs Fat Mass/Trunk Fat Mass
0.49	0.38	0.99

Estimated Visceral Adipose Tissue

Volume	Mass	Area
753 cm ³	710 g	93 cm ²

Estimated Subcutaneous Adipose Tissue

Volume	Mass	Area
2,078 cm ³	1,960 g	258 cm ²

Resting Metabolic Rate (RMR)

1,141 cal/day Mifflin-St Jeor

Relative Skeletal Muscle Index (RSMI)

6.59 kg/m² Baumgartner

Hydration Levels

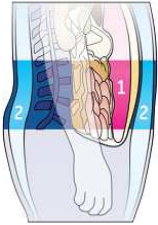
Total Body Water (TBW): -
Intra-cellular Water (ICW): -
Extra-cellular Water (ECW): -
TBW Device: -

Statistically 68% of repeat scans fall within 1SD (± 0.8 % Fat, ±210 g Tissue Mass, ±520 g Fat Mass, ±610 g Lean Mass for Total Body Total)

Date created: 11/12/2022 10:18:37 18 [SP 1]; Filename: tnvpmray11.dfx; Total Body; 76,0.15:153.04:31.4 0.00:-1.00 4.81x13.01 12.0:%Fat=45.3%; 0.00:0.00 0.00:0.00; Scan Mode: Standard; 0.4 µGy; 0.43 cGy*cm²

Client	Sex	Ethnicity	Birth Date	Height	Weight	Measured
8987708494,	Female	White	09/07/1967	155.0 cm	66.0 kg	11/12/2022

Abdomen Composition



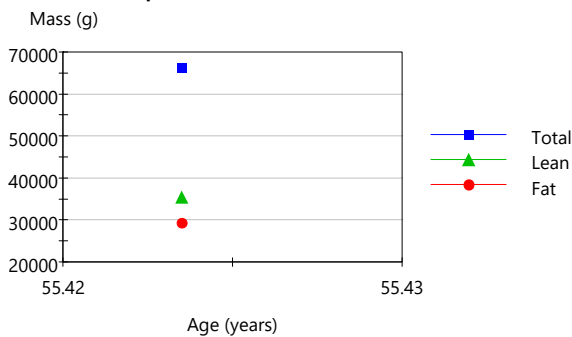
Adipose Tissue
1 Visceral
2 Subcutaneous

The Android region is that of the abdomen, and often the body type with increased fat in this area is described as "apple shaped." The Gynoid region is that around the hips and thighs and often the body type with increased fat in this area is described as "pear shaped." Understanding where fat is stored on the body is recognized as an important predictor of the potential health risks of obesity.

CoreScan estimates the VAT (Visceral Adipose Tissue) and SAT (Subcutaneous Adipose Tissue) content within the android region, VAT is a specific type of fat that is associated with several types of metabolic diseases such as obesity, metabolic syndrome, and type 2 diabetes. CoreScan results have been validated for adults between ages 18-90, and with a BMI in the range of 18.5-40.

Total

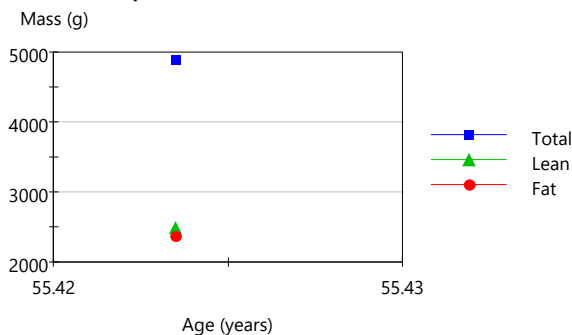
Composition Trend: Total



Date	Age	Total Mass (kg)	Lean Mass (g)	Fat Mass (g)
11/12/2022	55.4	66.2	35,392	29,276

Android / Gynoid

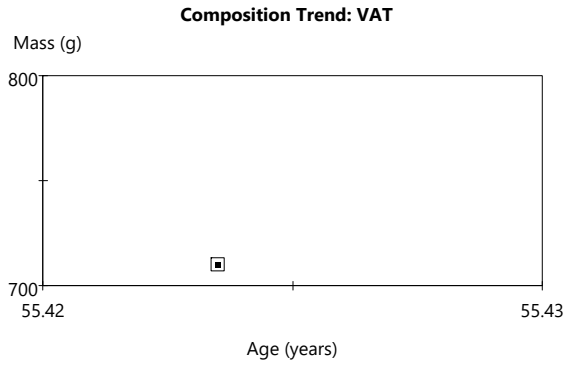
Composition Trend: Android



Date	Age	Android Mass (kg)	Android Lean (g)	Android Fat (g)	Android %Fat	Gynoid %Fat	A/G Ratio
11/12/2022	55.4	4.9	2,495	2,369	48.7	52.3	0.93

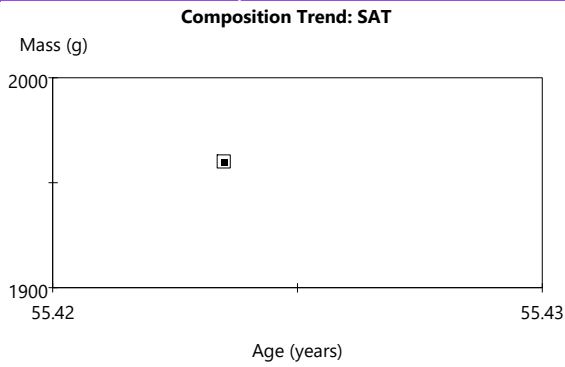
Client	Sex	Ethnicity	Birth Date	Height	Weight	Measured
8987708494,	Female	White	09/07/1967	155.0 cm	66.0 kg	11/12/2022

Visceral Adipose Tissue (VAT)



Date	Age	Volume (cm ³)	Fat Mass (g)	Area (cm ²)
11/12/2022	55.4	753	710	93

Subcutaneous Adipose Tissue (SAT)



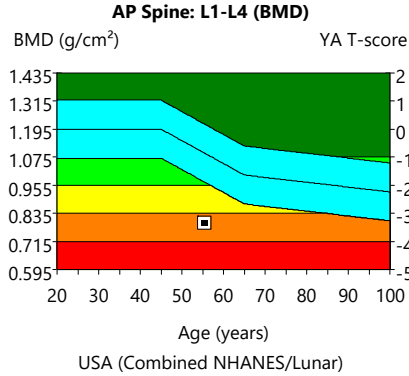
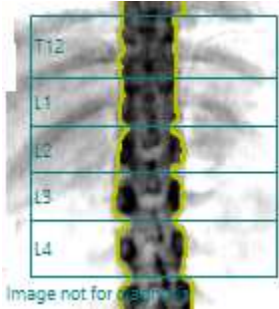
Date	Age	Volume (cm ³)	Fat Mass (g)	Area (cm ²)
11/12/2022	55.4	2,078	1,960	258

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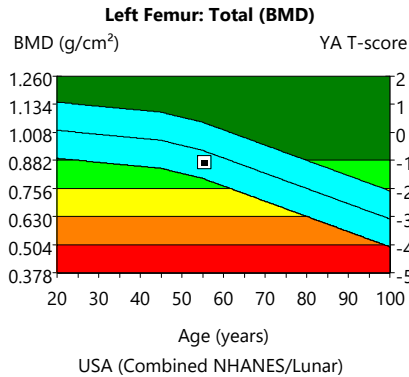
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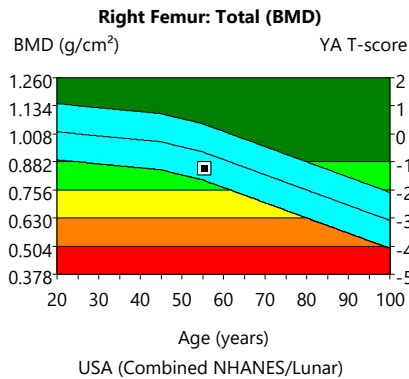
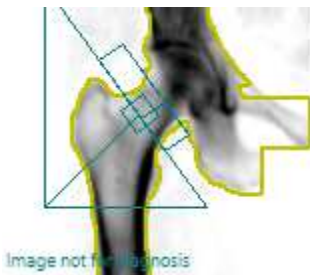
Patient:	8987708494,	Referring Physician:	AF
Birth Date:	09/07/1967	Age:	55.4 years
Height:	155.0 cm	Weight:	66.0 kg
Sex:	Female	Ethnicity:	White
		Patient ID:	8987708494
		Measured:	11/12/2022 10:04:37 (18 [SP 1])
		Analyzed:	11/12/2022 10:18:12 (18 [SP 1])



Region	BMD (g/cm ²)	YA T-score	AM Z-score
L1	0.822	-2.6	-1.8
L2	0.799	-3.4	-2.6
L3	0.805	-3.3	-2.5
L4	0.762	-3.6	-2.7
L1-L2	0.810	-3.0	-2.2
L1-L4	0.795	-3.2	-2.4
L2-L3	0.802	-3.4	-2.5
L2-L4	0.787	-3.4	-2.6
L3-L4	0.782	-3.5	-2.6



Region	BMD (g/cm ²)	YA T-score	AM Z-score
Neck Left	0.843	-1.4	-0.4
Total Left	0.874	-1.1	-0.4

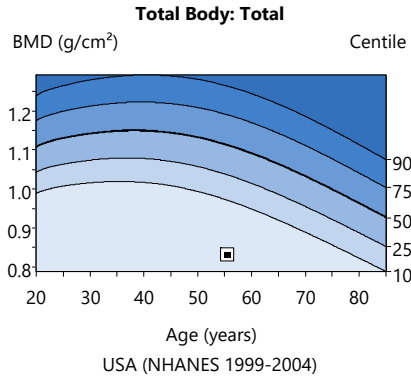
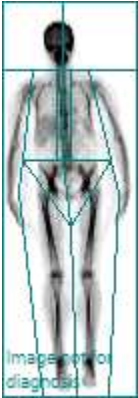


Region	BMD (g/cm ²)	YA T-score	AM Z-score
Neck Right	0.858	-1.3	-0.3
Total Right	0.852	-1.2	-0.6

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Patient: 8987708494,		Referring Physician: AF	
Birth Date: 09/07/1967	Age: 55.4 years	Patient ID: 8987708494	
Height: 155.0 cm	Weight: 66.0 kg	Measured: 11/12/2022 10:04:37 (18 [SP 1])	
Sex: Female	Ethnicity: White	Analyzed: 11/12/2022 10:18:12 (18 [SP 1])	



Region	BMD (g/cm ²)	YA T-score	AM Z-score
Head	1.374	-	-
Arms	0.629	-	-
Legs	0.862	-	-
Trunk	0.723	-	-
Ribs	0.573	-	-
Spine	0.843	-	-
Pelvis	0.795	-	-
Total	0.832	-	-2.7

Statistically 68% of repeat scans fall within 1SD (± 0.010 g/cm² for AP Spine L1-L4 BMD); (± 0.012 g/cm² for Left Femur Total BMD); (± 0.010 g/cm² for Total Body Total BMD); T-score: USA (Combined NHANES (ages 20-30) / Lunar (ages 20-40)) AP Spine, Female, White Reference Population (v113); T-score: USA (Combined NHANES (ages 20-30) / Lunar (ages 20-40)) Femur, Female, White Reference Population (v113); USA (NHANES 1999-2004) Total Body, Female Reference Population (v100); Z-score: AP Spine Matched for Age, Sex, Ethnicity; Z-score: Left Femur Matched for Age, Sex, Ethnicity; Total Body Matched for Age, Sex, Weight (females 25-100 kg), Ethnicity; World Health Organization - Definition of Osteoporosis and Low Bone Mass for Caucasian Women: Normal = T-score at or above -1.0 SD; Low Bone Mass = 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.)

Date created: 11/12/2022 10:18:42 18 [SP 1]; Filename: tnvpmray11.dfx; AP Spine; 76,3.00:50.03:12.0 0.00:9.90 0.60x1.05 21.8:%Fat=28.8%; 0.00:0.00 0.00:0.00; Scan Mode: Standard;OneScan; 37.0 μ Gy; 1.12 cGy*cm²; Left Femur; 76,3.00:50.03:12.0 0.00:11.64 0.60x1.05 16.9:%Fat=35.9%; 0.00:0.00 0.00:0.00; Neck Angle (deg)= 57; Scan Mode: Standard; 37.0 μ Gy; 0.85 cGy*cm²; Right Femur; 76,3.00:50.03:12.0 0.00:12.78 0.60x1.05 17.5:%Fat=36.2%; 0.00:0.00 0.00:0.00; Neck Angle (deg)= 54; Scan Mode: Standard; 37.0 μ Gy; 0.85 cGy*cm²; Total Body; 76,0.15:153.04:31.4 0.00:-1.00 4.81x13.01 12.0:%Fat=45.3%; 0.00:0.00 0.00:0.00; Scan Mode: Standard; 0.4 μ Gy; 0.43 cGy*cm²