SCANS WORLD

Excellence in Speciality Imaging
(A Unit of Roentgen Scans World Pvt. Ltd.)

DEXA BONE DENSITOMETRY REPORT 21.9 kg/m²

Patient VIGNESH 27Y/M completed a BMD test on 04-03-2023 using the **Lunar DPX DEXA System** (analysis version: 14.10) manufactured by **GE Healthcare**. The following summarizes the results of our evaluation.

PATIENT BIOGRAPHICAL:

Name:	VIGNESH 27Y/M				
Patient ID:	22029	Referring Physician:	Dr.AGNI RAJ	Height:	164.0 cm
Gender:	Male	Birth Date:	21-06-1996, 26.7 Years	Weight:	59.0 kg

RESULT: BONE DENSITOMETRY

Site	Region	BMD	Young Adult T-score	Age Matched Z-score
Total Body	Total	1.151 g/cm²	-0.9	0.0 Z-score
DualFemur	Total Left	1.058 g/cm²	-0.3	0.1 Z-score
DualFemur	Total Right	1.094 g/cm²	0.0	0.4 Z-score
AP Spine	L1-L3	0.879 g/cm²	-2.8	-2.1 Z-score

World Health Organization (WHO) criteria :
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

ASSESSMENT:

1. Above DEXA bone mineral density analysis suggestive of osteoporosis. Fracture risk is high.

2. The BMI measured is 21.9 kg/m² corresponds to Normal (as per WHO classification).

3. Whole body fat composition is 37.3% which is above 90 percentile value of standard reference population.
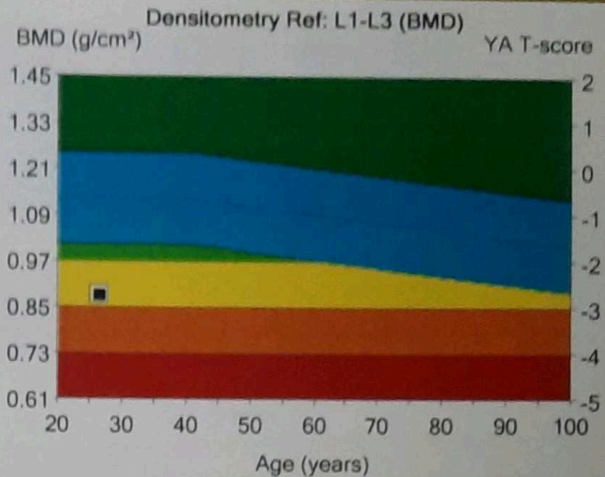
Dr. J. Philson.,MD.,FRCR,PDCC.,,
Consultant Radiologist.

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Patient:	VIGNESH, 27Y/M	**Patient ID:**	22029
Birth Date:	21-06-1996 26.7 years	**Referring Physician:**	Dr.AGNI RAJ
Height / Weight:	164.0 cm 59.0 kg	**Measured:**	04-03-2023 PM 2:54:01 (14.10)
Sex / Ethnic:	Male	**Analyzed:**	04-03-2023 PM 3:18:05 (14.10)

AP Spine Bone Density

Densitometry Ref: L1-L3 (BMD)

BMD (g/cm²)   YA T-score

Age (years)

Region	BMD [1] (g/cm²)	Young-Adult [2] T-score	Age-Matched [3] Z-score
L1	0.891	-2.2	-1.6
L2	0.897	-2.9	-2.2
L3	0.854	-3.2	-2.6
L1-L3	0.879	-2.8	-2.1

Image not for diagnosis

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Filename: Smozqr398d.ntx
Scan Mode: Standard   20.0 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 (v113)
3 - Matched for Age, Weight (males 25-100 kg), 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.)
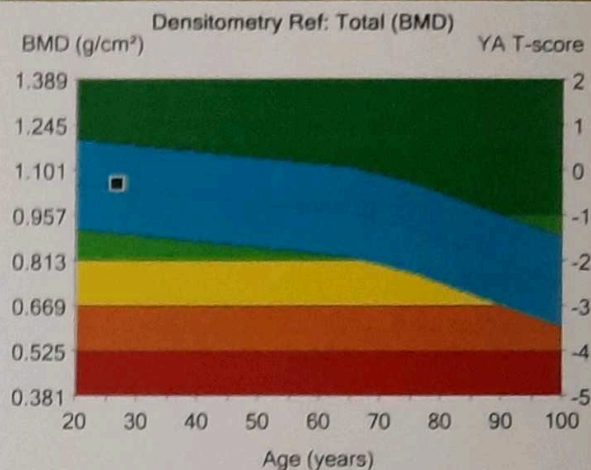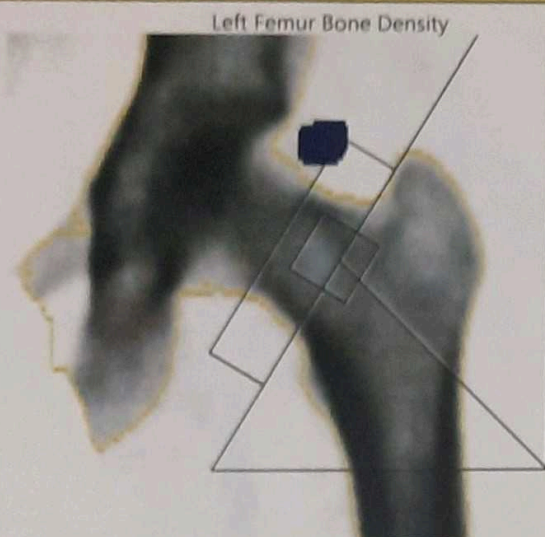
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Patient:	VIGNESH, 27Y/M	**Patient ID:**	22029	
Birth Date:	21-06-1996 26.7 years	**Referring Physician:**	Dr.AGNI RAJ	
Height / Weight:	164.0 cm 59.0 kg	**Measured:**	04-03-2023 PM 2:59:52	(14.10)
Sex / Ethnic:	Male	**Analyzed:**	04-03-2023 PM 3:17:08	(14.10)

Left Femur Bone Density

Densitometry Ref: Total (BMD)

Region	BMD ^{1} (g/cm^2)	Young-Adult ^{2} T-score	Age-Matched ^{3} Z-score
Total	1.058	-0.3	0.1

Image not for diagnosis

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Neck Angle (deg)= 59

Filename: 5mozqr398d.ntx

Scan Mode: Thin   5.0 µGy

1 - Statistically 68% of repeat scans fall within 1SD (± 0.012 g/cm^2 for Left Femur Total)

2 - USA (Combined NHANES (ages 20-30) / Lunar (ages 20-40)) Femur Reference Population
    (v113)

3 - Matched for Age, Weight (males 25-100 kg), 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.)
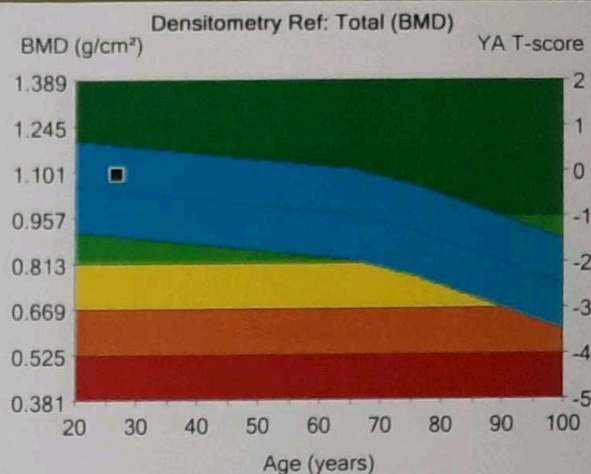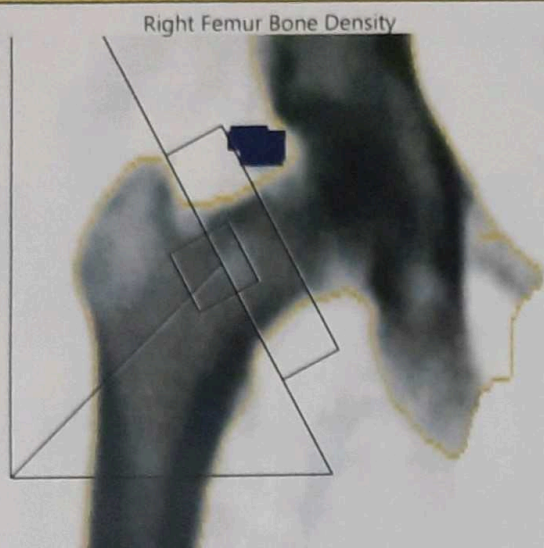
Patient:	VIGNESH, 27Y/M	Patient ID:	22029	
Birth Date:	21-06-1996 26.7 years	Referring Physician:	Dr.AGNI RAJ	
Height / Weight:	164.0 cm 59.0 kg	Measured:	04-03-2023 PM 3:04:29	(14.10)
Sex / Ethnic:	Male	Analyzed:	04-03-2023 PM 3:17:08	(14.10)

Right Femur Bone Density

Densitometry Ref: Total (BMD)

Region	BMD¹ (g/cm²)	Young-Adult² T-score	Age-Matched³ Z-score
Total	1.094	0.0	0.4

Image not for diagnosis

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Neck Angle (deg) = 62
Filename: 5mozqr398d.ntx
Scan Mode: Thin   5.0 µGy

1 - Statistically 68% of repeat scans fall within 1SD (± 0.012 g/cm² for Right Femur Total)
2 - USA (Combined NHANES (ages 20-30) / Lunar (ages 20-40)) Femur Reference Population (v113)
3 - Matched for Age, Weight (males 25-100 kg), 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.)
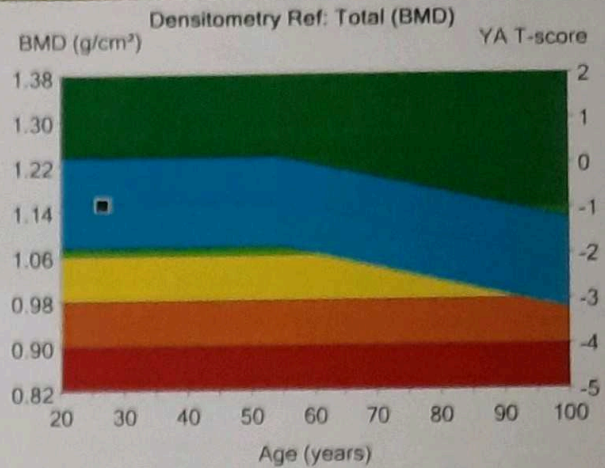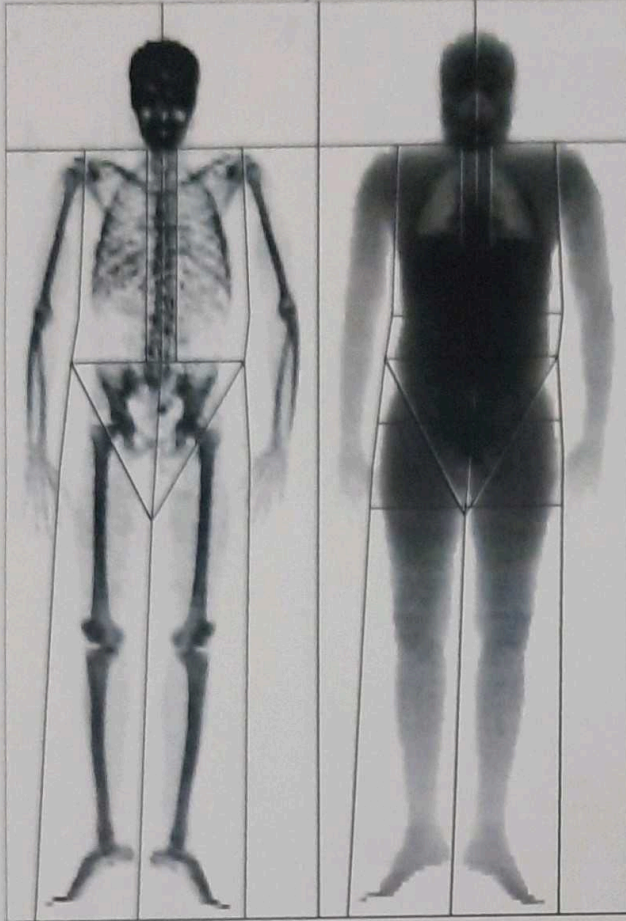
Patient:	VIGNESH, 27Y/M	Patient ID:	22029	
Birth Date:	21-06-1996 26.7 years	Referring Physician:	Dr.AGNI RAJ	
Height / Weight:	164.0 cm 59.0 kg	Measured:	04-03-2023 PM 3:15:21	(14.10)
Sex / Ethnic:	Male	Analyzed:	04-03-2023 PM 3:15:23	(14.10)

Total Body Bone Density

Densitometry Ref: Total (BMD)

Densitometry (Basic Analysis)

Region	BMD (g/cm²) [1]	Young-Adult T-score [2]	Age-Matched Z-score [3]
Total	1.151	-0.9	0.0

Image not for diagnosis

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0.00:0.00 0.00:0.00
Filename: Smozqr398d.ntx
Scan Mode: Standard   0.2 µGy

1 - Statistically 68% of repeat scans fall within 1SD (± 0.010 g/cm² for Total Body Total)
2 - USA (Combined NHANES (ages 20-30) / Lunar (ages 20-40)) Total Body Reference Population (v113)
3 - Matched for Age, Weight (males 25-100 kg), Ethnic

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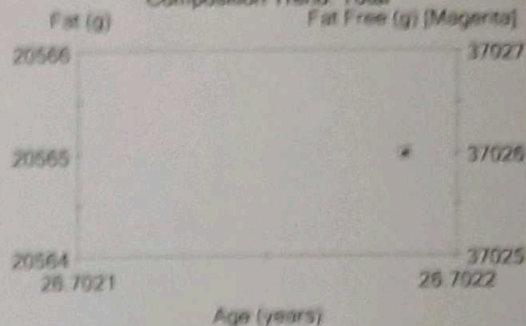|			
Patient:	VIGNESH, 27Y/M	**Patient ID:**	22029
Birth Date:	21-06-1996 26.7 years	**Referring Physician:**	Dr AGNI RAJ
Height / Weight:	164.0 cm 59.0 kg	**Measured:**	04-03-2023 PM 3:15:21 (14.10)
Sex / Ethnic:	Male	**Analyzed:**	04-03-2023 PM 3:15:23 (14.10)

Total Body Tissue Quantitation

Composition Reference: Total
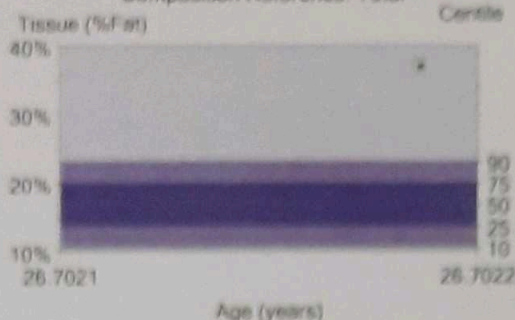
Composition Trend: Total

Trend: Total (Basic Analysis)

Measured Date	Age (years)	Tissue [1] (%Fat)	Centile [2,3]	Total Mass (kg)	Region (%Fat)	Tissue [1] (g)	Fat [1] (g)	Lean [1] (g)	BMC (g)	Fat Free (g)
04-03-2023	26.7	37.3	100	57.6	35.7	55,196	20,565	34,631	2,395	37,026

Trend: Fat Distribution (Basic Analysis)

Measured Date	Age (years)	Android (%Fat)	Gynoid (%Fat)	A/G Ratio	Total Body [1] (%Fat)
04-03-2023	26.7	50.9	43.1	1.18	37.3

World Health Organization BMI Classification

BMI = 21.9 (kg/m²)

13	18.5	25	30	35
Underweight	Normal	Overweight	Obese	
35	50	67	81	94

Weight (kg) for height = 164.0 cm

Image not for diagnosis
Printed: 04-03-2023 PM 3:21:23 (14.10)76:0.10:153.04 31.4 0.00:-1.00 4.81x9.61
12.7:%Fat=37.3%
0.00:0.00 0.00:0.00
Filename: Smozqr398d.ntx
Scan Mode: Standard 0.2 µGy

1 - 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)
2 - USA (Lunar) Total Body Composition Reference Population (v113)
3 - Composition Matched for Age