ULTRASOUND

THYROID ULTRASOUND WORKSHEET

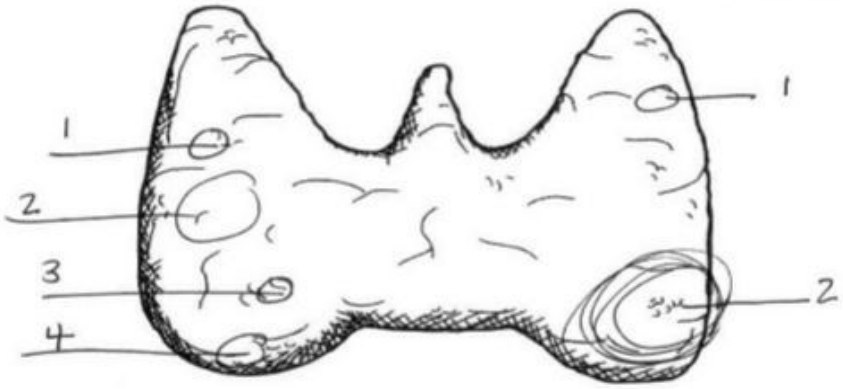
DOB: 03/13/46 79 M MR# Y000194414

THYROID ULTRASOUND WORKSHEET

DATE: 11/13/25	TECHNOLOGIST: KIW
HISTORY: Nodule seen on recent mri	

RIGHT LOBE	ISTHMUS	LEFT LOBE
5.2 x 1.5 x 1.3 cm	0.2 cm	5.1 x 1.4 x 1.9 cm

OVERALL ECHOTEXTURE: HOMOGENEOUS HETEROGENEOUS



RIGHT LOBE:	ISTHMUS:	LEFT LOBE:
1) complex 0.6 x 0.4 x 0.4cm 2) complex 1.4 x 1.2 x 1cm 3) complex 0.5 x 0.3 x 0.4cm 4) cyst w/ debri 0.4 x 0.4 x 0.5cm		① Solid 0.4 x 0.3 x 0.4cm ② complex w/ calcification + flow 2.5 x 1.7 x 1.3cm

PROCEDURE: US THYROID

PROCEDURE DATE: 11/13/2025 11:16 AM

HISTORY: A 79-year-old male with nodule visualized on recent MRI.

COMPARISON: No priors available for comparison.

TECHNIQUE: Multiplanar grayscale and color Doppler images were obtained on a thyroid ultrasound.

FINDINGS:

THYROID SIZE: Heterogeneous parenchyma.

Right lobe: 5.2 × 1.5 × 1.3 cm

Left lobe: 5.1 × 1.4 × 1.9 cm

Isthmus: 0.2 cm

NODULES

Right Lobe:

1. Complex nodule measuring 0.6 × 0.4 × 0.4 cm
2. Complex nodule measuring 1.4 × 1.2 × 1.0 cm
3. Complex nodule measuring 0.5 × 0.3 × 0.4 cm
4. Cyst with debris measuring 0.4 × 0.4 × 0.5 cm

Left Lobe:

1. Solid nodule measuring 0.4 × 0.3 × 0.4 cm
2. Complex nodule with calcification with flow measuring 2.5 × 1.7 × 1.3 cm

OTHER SOFT TISSUES

No abnormal soft tissue masses.

No significant cervical lymphadenopathy.

IMPRESSION:

1. Heterogeneous thyroid parenchyma.
2. Mixed nodules in the right lobe. TI-RADS 2.
3. Mixed nodules in the left lobe. TI-RADS 2.

ACR TI-RADS recommendations

TI-RADS 5 (greater than or equal to 7 points) - FNA if greater than or equal to 1 cm, follow-up if 0.5-0.9 cm every year for 5 years

TI-RADS 4 (4-6 points) - FNA if greater than or equal to 1.5 cm, follow-up if 1-1.4 cm in 1, 2, 3, and 5 years.

TI-RADS 3 (3 points) - FNA if greater than or equal to 2.5 cm, follow-up if 1.5-2.4 cm in 1, 3, and 5 years

TI-RADS 2 (2 points) and TI-RADS 1 (0 points) - no FNA or follow-up

ULTRASOUND PELVIS – TRANSVAGINAL

M _____ Transabdominal (Transvaginal)

Provider: _____

History: Rt sided pelvic pain x 1 month
Pt state LPT oophrectomy & salpingectomy

LMP: PMP

G 6 P 3





Uterus Position: (Anteverted) Retroverted Other

Uterus Size: 7.1 x 3.2 x 3.9 cm

Endometrium: 12 mm

Free Fluid: (None) Right Left cul-de-sac

Right Ovary: not visualized x _____ x _____ cm
Blood flow: Seen Not seen

Left Ovary: s/p surgically absent x _____ x _____ cm
Blood flow: Seen Not seen

Right Adnexa: (Normal) Abnormal

Left Adnexa: (Normal) Abnormal

Comments: - EMC thickened & hetero. s/A of endometrial hyperplasia

Procedure Date: 11/18/2025 – 1:18 PM

Procedure: Transvaginal Pelvic Ultrasound (with transabdominal survey)

History: Right lower quadrant abdominal pain; right-sided pelvic pain × 1 month. Patient reports prior left oophorectomy and salpingectomy. LMP: Postmenopausal. G6P3.

Comparison: None available.

Technique: Transabdominal and transvaginal ultrasound of the pelvis performed. Doppler spectral analysis of ovarian blood flow attempted.

FINDINGS

CERVIX:

Unremarkable.

UTERUS:

Anteverted. Measures 7.1 × 3.2 × 3.9 cm.

No fibroids or focal myometrial abnormalities.

ENDOMETRIUM:

Measures 12 mm.

Endometrium appears thickened and heterogeneous.

RIGHT OVARY:

Not visualized. No adnexal mass identified.

LEFT OVARY:

Surgically absent, consistent with history.

ADNEXA:

Normal bilaterally. No adnexal mass.

FREE FLUID:

None.

IMPRESSION

1. Thickened and heterogeneous endometrium (12 mm), suggestive of endometrial hyperplasia in a postmenopausal patient.
Recommend gynecologic evaluation; endometrial sampling may be considered.

2. Right ovary not visualized. No adnexal abnormality seen.

3. Left ovary surgically absent, consistent with prior oophorectomy and salpingectomy.

ULTRASOUND ABDOMEN – LIMITED

(RIGHT UPPER QUADRANT)

Provider: _____

History: fatty Liver

Prior: CT 21 Nov 2024

Aorta 2.0 x 1.4 x 1.1 (cm) Plaque _____

IVC Not seen (Patent) _____

MPV Not seen (Hepatopetal) Hepatofugal

Pancreas Seen Not seen (Partially seen) _____

Liver 14.6 cm Echogenicity: Normal (Increased)

fatty and Slightly Heterogeneous.

Gallbladder wall _____ mm Stones Sludge Murphy's sign + (-)

Removed

CBD 4.5 mm

Right Kidney 11.2 x 5.3 x 6.1 cm Cortex 1.5 cm

Left Kidney ____ x ____ x ____ cm Cortex ____ cm

Spleen ____ cm

Ascites (None) Mild Moderate Severe

Comments: Liver is fatty and slightly heterogeneous. GB removed.

Procedure Date: 11/18/2025 – 9:53 AM

History: 54-year-old female with fatty liver. Prior CT from 11/21/2024.

Comparison: Ultrasound abdomen dated 01/21/2011.

Technique: Multiplanar grayscale and color Doppler images were obtained of the right upper quadrant.

FINDINGS

LIVER:

Measures 14.6 cm.

Echogenicity: Increased and slightly heterogeneous, consistent with hepatic steatosis.

No focal hepatic mass or cyst.

Main portal vein demonstrates hepatopetal flow.

GALLBLADDER:

Surgically absent.

SONOGRAPHIC MURPHY SIGN:

Negative.

COMMON BILE DUCT:

Measures 4.5 mm (normal caliber).

PANCREAS:

Partially visualized.

RIGHT KIDNEY:

Measures 11.2 × 5.3 × 6.1 cm.

Cortex measures 1.5 cm.

Normal echogenicity.

No hydronephrosis, calculi, mass, or cyst.

LEFT KIDNEY:

Surgically absent, status post nephrectomy for renal cell carcinoma.

ABDOMINAL AORTA:

No aneurysm identified.

- Proximal: 2.0 cm
- Mid: 1.4 cm
- Distal: 1.1 cm

IVC:

Patent.

ASCITES:

None.

IMPRESSION

1. Fatty liver with increased and slightly heterogeneous echogenicity, compatible with hepatic steatosis. No focal hepatic lesion.

2. Status post cholecystectomy with normal common bile duct caliber.

3. Right kidney unremarkable. Left kidney surgically absent as per history.

ULTRASOUND RENAL

RENAL WORKSHEET

Reason for Exam: CKD3

Peri-aortic lymph nodes: ___ yes ~~X~~ no

Aorta: Prox 2.68 cm Mid 1.87 cm Dist 1.49 cm

Bladder Volume: Pre void 136.7ml Post void _____ Jets seen? _____

RIGHT KIDNEY ___ Normal

Size 9.14x4.54x4.10cm

Cortex 1.24cm Hydro ___ yes ~~X~~ no

Echogenicity ~~X~~ Normal ___ Hyper ___ Hypo

Ureter Prox _____ Dist _____

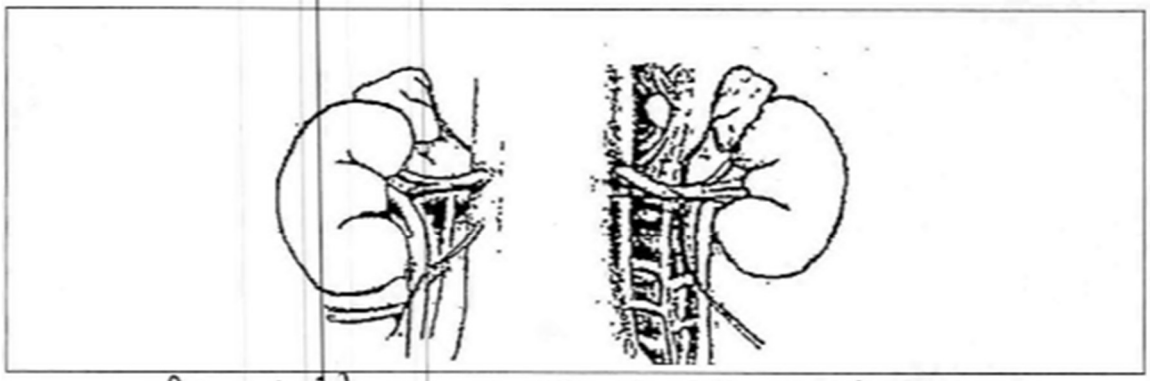
LEFT KIDNEY ___ Normal

Size 10.63x4.29x4.37cm

Cortex 1.66cm Hydro ___ yes ~~X~~ no

Echogenicity ~~X~~ Normal ___ Hyper ___ Hypo

Ureter Prox _____ Dist _____



Comments: Rt kidney cyst 2.93x2.71x3.81cm

Procedure Date: 11/18/2025 – 9:43 AM

History: 87-year-old female with chronic kidney disease stage 3a.

Comparison: None available.

Technique: Multiplanar grayscale and color Doppler images of the kidneys and urinary bladder were obtained.

FINDINGS

RIGHT KIDNEY:

- Measures 9.14 × 4.54 × 4.10 cm.
- Cortical thickness: 1.24 cm.
- Echogenicity: Normal.
- Cyst: Present, measuring 2.93 × 2.71 × 3.81 cm.
- Hydronephrosis: None.
- Calcifications: None.

LEFT KIDNEY:

- Measures 10.63 × 4.29 × 4.37 cm.
- Cortical thickness: 1.66 cm.
- Echogenicity: Normal.
- Masses/Cysts: None.
- Hydronephrosis: None.
- Calcifications: None.

URINARY BLADDER:

Unremarkable.

Prevoid bladder measures 5.48 × 6.08 × 7.84 cm with an estimated volume of 136.77 mL.

AORTA:

- Proximal: 2.68 cm
- Mid: 1.87 cm
- Distal: 1.49 cm

PERI-AORTIC LYMPH NODES:

None visualized.

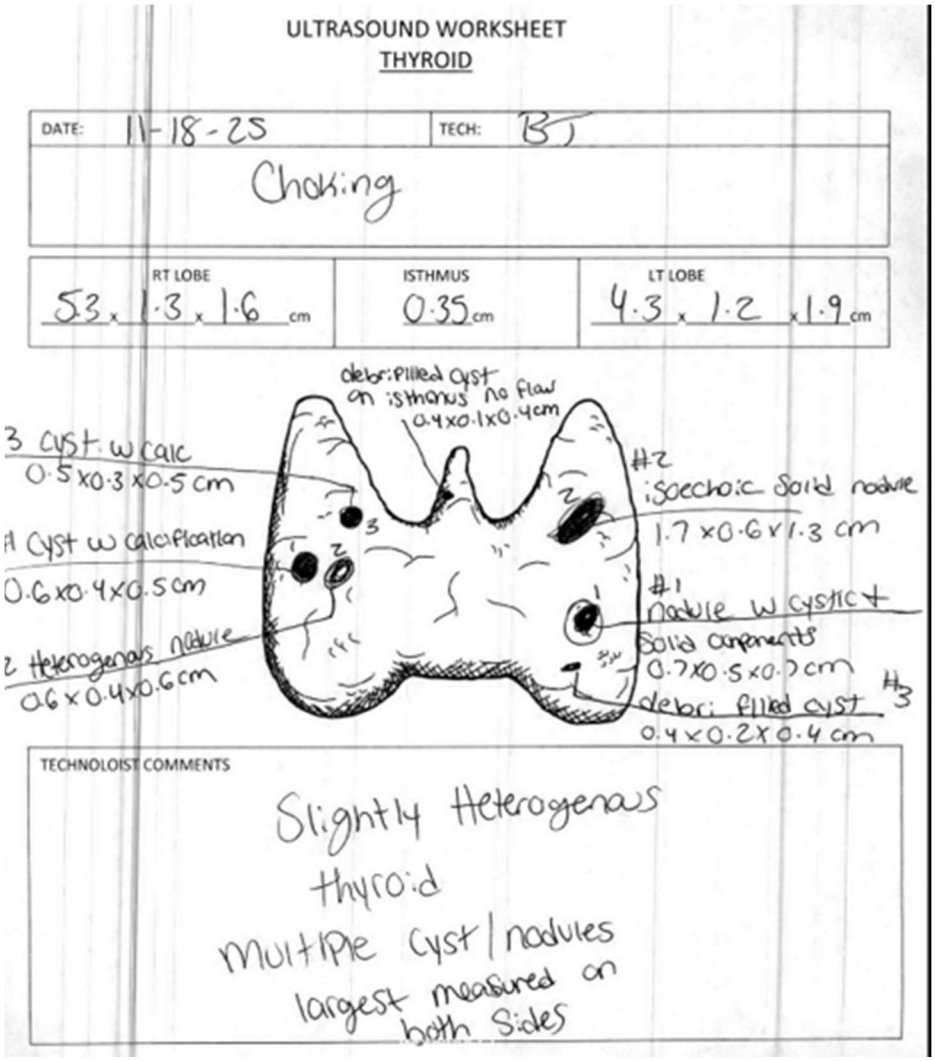
IMPRESSION

1. Right renal Bosniak classification 1 cyst measuring 2.93 × 2.71 × 3.81 cm. No solid renal mass identified.

2. Both kidneys show normal echogenicity with preserved cortical thickness and no hydronephrosis.

3. Urinary bladder and abdominal aorta unremarkable. No peri-aortic lymphadenopathy.

ULTRA SOUND WORKSHEET THYROID



ULTRASOUND WORKSHEET
THYROID

DATE: 11-18-25 TECH: BJ

Choking

RT LOBE	ISTHMUS	LT LOBE
5.3 x 1.3 x 1.6 cm	0.35 cm	4.3 x 1.2 x 1.9 cm

debri: filled cyst on isthmus no flow 0.4x0.1x0.4cm

3 cyst w calc 0.5x0.3x0.5 cm

1 Cyst w calcification 0.6x0.4x0.5 cm

2 Heterogenous nodule 0.6x0.4x0.6 cm

#2 isoechoic solid nodule 1.7x0.6x1.3 cm

#1 nodule w cystic + solid components 0.7x0.5x0.7 cm

debri filled cyst #3 0.4x0.2x0.4 cm

TECHNOLOIST COMMENTS

Slightly Heterogenous thyroid
multiple cyst/nodules
largest measured on both sides

PROCEDURE: US THYROID

PROCEDURE DATE: 11/18/2025 9:12 AM

HISTORY: 60 years old female with choking.

TECHNIQUE: Multiplanar grayscale and color Doppler images were obtained and a thyroid ultrasound.

COMPARISON: None.

FINDINGS:

THYROID: Slightly heterogenous thyroid.

Right lobe: Length 5.3 x 1.3 x 1.6 cm.

Left lobe: Length 4.3 x 1.2 x 1.9 cm.

Isthmus: Length 0.35 cm.

NODULES:

In the right lobe, there is a heterogenous nodule measuring 0.6 x 0.4 x 0.6 cm and 2 cysts with calcification measuring 0.6 x 0.4 x 0.5 cm and 0.5 x 0.3 x 0.5 cm.

In the left lobe, there is a nodule with cystic and solid components measuring 0.7 x 0.5 x 0.7 cm, isoechoic solid nodule measuring 1.7 x 0.6 x 1.3 cm, debris filled cyst measuring 0.4 x 0.2 x 0.4 cm.

There is evidence of a debris filled cyst on isthmus with no flow measuring 0.4 x 0.1 x 0.4 cm.

OTHER SOFT TISSUES:

No soft tissue abnormality demonstrated.

No significant lymphadenopathy.

IMPRESSION:

1. Slightly heterogeneous thyroid. Cyst in the isthmus. TI-RADS 2.
2. Solid nodule and two cysts in the right lobe as described, TI-RADS 2.
3. Mixed nodule, solid nodule and cyst in the left lobe as described. TI-RADS 2.

ACR TI-RADS recommendations

TI-RADS 5 (greater than or equal to 7 points) - FNA if greater than or equal to 1 cm, follow-up if 0.5-0.9 cm every year for 5 years

TI-RADS 4 (4-6 points) - FNA if greater than or equal to 1.5 cm, follow-up if 1-1.4 cm in 1, 2, 3, and 5 years.

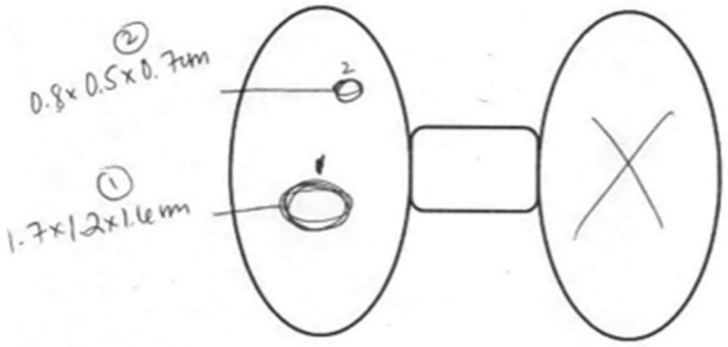
TI-RADS 3 (3 points) - FNA if greater than or equal to 2.5 cm, follow-up if 1.5-2.4 cm in 1, 3, and 5 years

TI-RADS 2 (2 points) and TI-RADS 1 (0 points) - no FNA or follow-up.

US THYROID

History: Rt thyroid nodule - lt thyroidectomy 20+ years ago per pt

Right lobe:	Isthmus	Left lobe:
5.1 x 1.8 x 2.1 cm	___ cm	* surgically absent ___ x ___ x ___ cm



Cyst Solid complex Flow *

Comments: Multiple Rt thyroid nodules us, largest measures above

PROCEDURE: US THYROID

PROCEDURE DATE: 11/17/2025 2:05 PM

HISTORY: 77 years old female with nodule of right lobe of thyroid gland. History of left thyroidectomy 20+ years ago per patient.

TECHNIQUE: Multiplanar grayscale and color Doppler images were obtained and a thyroid ultrasound.

COMPARISON: Ultrasound of the thyroid dated 01/09/2018.

FINDINGS:

THYROID SIZE:

Right lobe: Length 5.1 x 1.8 x 2.1 cm.

Left lobe: Surgically absent

NODULES:

There is evidence of multiple right thyroid nodules, the largest 2 measures 1.7 x 1.2 x 1.6 cm and 0.8 x 0.5 x 0.7 cm.

OTHER SOFT TISSUES:

No soft tissue abnormality demonstrated.

No significant lymphadenopathy.

IMPRESSION:

1. Multiple mixed right thyroid nodules. TI-RADS 2. Stable since the prior.

2. Left lobe is surgically absent.

ACR TI-RADS recommendations

TI-RADS 5 (greater than or equal to 7 points) - FNA if greater than or equal to 1 cm, follow-up if 0.5-0.9 cm every year for 5 years

TI-RADS 4 (4-6 points) - FNA if greater than or equal to 1.5 cm, follow-up if 1-1.4 cm in 1, 2, 3, and 5 years.

TI-RADS 3 (3 points) - FNA if greater than or equal to 2.5 cm, follow-up if 1.5-2.4 cm in 1, 3, and 5 years

TI-RADS 2 (2 points) and TI-RADS 1 (0 points) - no FNA or follow-up

THYROID ULTRASOUND

THYROID ULTRASOUND WORKSHEET

DATE: 11 | 14 | 25	TECHNOLOGIST: ~~THE~~

HISTORY: (*) per pt nodules seen on u/s at outside facility Approx 2016 F/u was Recommended + pt did not F/u / no Biopsies no thy meds taken

RIGHT LOBE	ISTHMUS	LEFT LOBE
4.4 x 1.2 x 1.3 cm	.24 cm	3.4 x 1.0 x 1.2 cm

OVERALL ECHOTEXTURE: HOMOGENEOUS ~~HETEROGENEOUS~~ Diffuse



RIGHT LOBE:	ISTHMUS:	LEFT LOBE:
(1). 4x.4x.6cm cyst2-focus inf/mid peripheral vascularity (2). 8x.4x.7cm complex-focus inf ⊕vascularity (3). 4x.3x.5cm Hyperchoic focus inf/lat ⊕vascularity	no cysts/ nodules V.S	(1). 5x.2x.5cm complex-focus ⊕vascularity Suppole

PROCEDURE: US THYROID

PROCEDURE DATE: 11/14/2025 10:45 AM

HISTORY: A 62-year-old female with nodule seen on ultrasound at outside facility approximately 2016. Follow-up was recommended, but the patient did not follow-up. No biopsies.

COMPARISON: No priors available for comparison.

TECHNIQUE: Multiplanar grayscale and color Doppler images were obtained on a thyroid ultrasound.

FINDINGS:

THYROID SIZE: Heterogeneous parenchyma.

Right lobe: Length measures 4.4 x 1.2 x 1.3 cm.

Left lobe: Length measures 3.4 x 1.0 x 1.2 cm.

Isthmus: Length measures 0.24 cm.

NODULES:

Right Lobe: There are 3 nodules, measures as below:

1. Cystic focus with peripheral vascularity in the inferior and mid area, measures 0.6 x 0.4 x 0.6 cm.

2. Complex focus with vascularity in the inferior area, measures 0.8 x 0.4 x 0.7 cm.

3. Hypoechoic focus in the inferior/lateral area, measures 0.4 x 0.3 x 0.5 cm.

Left Lobe: Complex focus with vascularity in the superior pole, measures 0.5 x 0.2 x 0.5 cm.

Isthmus: No cysts or nodules visualized.

OTHER SOFT TISSUES:

No soft tissue abnormality demonstrated.

No significant lymphadenopathy.

IMPRESSION:

1. Heterogeneous thyroid parenchyma.
2. Mixed nodule in the left lobe. TI-RADS 2.
3. Mixed nodule and cysts in the right lobe. TI-RADS 2.

ACR TI-RADS recommendations

TI-RADS 5 (greater than or equal to 7 points) - FNA if greater than or equal to 1 cm, follow-up if 0.5-0.9 cm every year for 5 years

TI-RADS 4 (4-6 points) - FNA if greater than or equal to 1.5 cm, follow-up if 1-1.4 cm in 1, 2, 3, and 5 years.

TI-RADS 3 (3 points) - FNA if greater than or equal to 2.5 cm, follow-up if 1.5-2.4 cm in 1, 3, and 5 years

TI-RADS 2 (2 points) and TI-RADS 1 (0 points) - no FNA or follow-up.



LMP•: 03/19/2025 GA: 34w6d EDD(EDD): 12/24/2025 AUA 35w5d EDD(AUA): 12/18/2025

2D Measurements

EFW

EFW: Hadlock(AC,FL,HC,BPD) 2595g (5 lbs 12 oz) ±379g (13 oz)

EFW-GA: Hadlock 35w0d

EFW-GP(EDD)(William) 50.00%

	Formula	Value		1	2	3	Method	GA	Range
BPD	Hadlock	9.11cm	94.74%	9.11			Avg	36w6d	33w5d-40w0d
HC	Hadlock	32.52cm	65.91%	32.52			Avg	36w6d	34w1d-39w4d
AC	Hadlock	30.70cm	50.40%	30.70			Avg	34w5d	31w5d-37w5d
FL	Hadlock	6.74cm	36.69%	6.74			Avg	34w5d	31w5d-37w5d

	Value	1	2	3	4	5	6	Method
Cervix L	4.11cm	4.11						Avg

	Value	1	2	3	Method
OFD(HC)	11.15cm	11.15			Avg

CI(HC) 81.70 (70.00~86.00) HC/AC(Campbell) 1.06 (0.93~1.11) FL/BPD 73.98 (71.00~87.00)

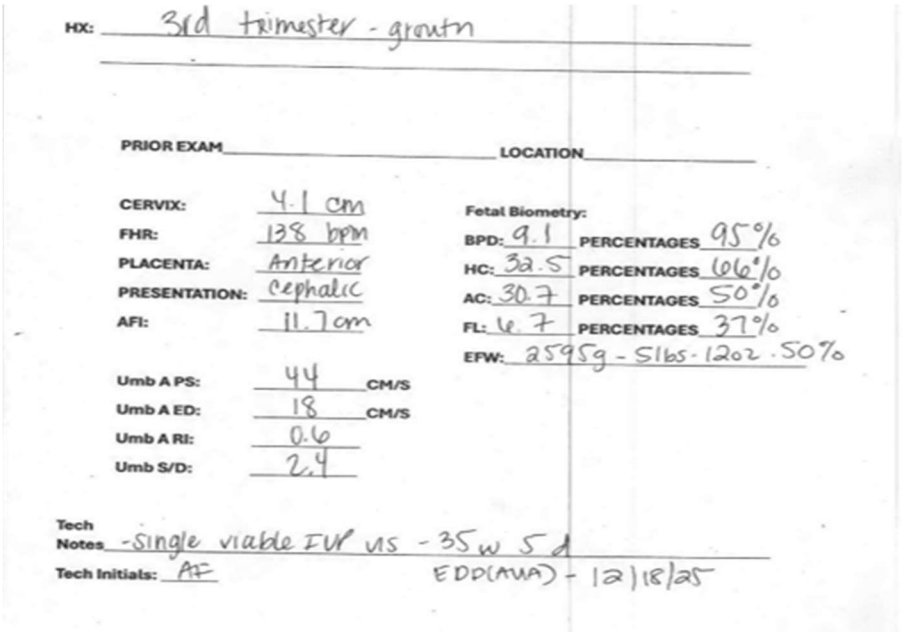


LMP•: 03/19/2025 GA: 34w6d EDD(EDD): 12/24/2025 AUA 35w5d EDD(AUA): 12/18/2025

FL/HC(Hadlock) 20.73 (20.00~22.23) FL/AC 21.95 (20.00~24.00)

	Value	1	2	3	Method
AFI					
AF1	3.72cm	3.72			Last
AF2	2.86cm	2.86			Last
AF3	3.07cm	3.07			Last
AF4	2.08cm	2.08			Last
AFI(4)	11.73cm				

	Value	1	2	3	4	5	6	Method
M Measurements								
FHR (M)	138bpm	138						Avg
Doppler Measurements								
Umb A								
PS	43.70cm/s	43.70						Last
ED	18.40cm/s	18.40						•



HX: 3rd trimester - growth

PRIOR EXAM _____ LOCATION _____

CERVIX: 4.1 cm

FHR: 138 bpm

PLACENTA: Anterior

PRESENTATION: Cephalic

AFI: 11.7cm

Umb A PS: 44 CM/S

Umb A ED: 18 CM/S

Umb A RI: 0.6

Umb S/D: 2.4

Fetal Biometry:

BPD: 9.1 PERCENTAGES 95%

HC: 32.5 PERCENTAGES 66%

AC: 30.7 PERCENTAGES 50%

FL: 6.7 PERCENTAGES 37%

EFW: 2595g - 5lbs-12oz-50%

Tech Notes: -single viable IUP US - 35w 5d

Tech Initials: AF EDD(AUA) - 12/18/25

PROCEDURE: US PREGNANCY 2ND-3RD TRIMESTER

PROCEDURE DATE: 11/18/2025 2:13 PM

HISTORY: Encounter for supervision of other normal preg third trimester. LMP 03/19/2025.

TECHNIQUE: Transabdominal imaging in the maternal pelvis and a >14 weeks gestation with image documentation. Spectral analysis of the Doppler waveforms of the ovaries were performed if visualized.

COMPARISON: No priors available for comparison.

FINDINGS:

FETUS:

There is a single live intrauterine gestation.

HEART RATE:

The fetal heart rate is 138 beats per minute.

FETAL BIOMETRICS:

BPD- 9.11cm - 36 wks 6 days-94.74%

HC- 32.52 cm - 36 wks 6 days- 65.91%

AC-30.70 cm - 34 wks 5 days-50.40%

FL-6.74 cm - 34 wks 5 days- 36.69%.

OFD(HC) - 11.15 cm.

CI(HC) - 81.70.

HC/AC - 1.06

FL/BPD - 73.98.

FL/HC - 20.73.

FL/AC - 21.95.

Estimated gestational age by ultrasound is 35 weeks,5 days.

Estimated fetal weight is 2595 g(5 lbs 12 oz) +/- 379 g(13 oz). This is the 50.00 percentile.

FETAL ANATOMIC SURVEY:

The fetus is in cephalic presentation.

PLACENTA:

The placenta is anterior in location. No sonographic evidence for abruption or previa.

AMNIOTIC FLUID:

11.73 cm within normal limits.

CERVIX:

Closed. Unremarkable as visualized. Cervical length: 4.11 cm.

Umb A PS: 43.70 cm/ s.

Umb A ED: 18.40 cm/s.

Umb A RI: 0.58.

Umb A S/D: 2.38.

NOTE: Single live intrauterine gestation with estimated date (AUA) 12/18/2025.

IMPRESSION:

1. Single live intrauterine gestation with estimated age of 35 weeks,5 days.
2. Fetal heart rate, amniotic fluid and growth within normal limits.



LMP•: 03/14/2025 GA: 35w4d EDD(EDD): 12/19/2025 AUA 37w0d EDD(AUA): 12/09/2025

2D Measurements

EFW

EFW	Hadlock(AC,FL,HC,BPD)	3095g (6 lbs 13 oz)	±452g (1 lbs)						
EFW-GA	Hadlock	37w2d							
EFW-GP(EDD)(William)		74.54%							

	Formula	Value		1	2	3	Method	GA	Range
BPD	Hadlock	8.94cm	73.24%	8.94			Avg	36w1d	33w0d-39w2d
HC	Hadlock	33.06cm	69.85%	33.06			Avg	37w5d	35w0d-40w3d
AC	Hadlock	33.16cm	91.31%	33.16			Avg	37w0d	34w0d-40w0d
FL	Hadlock	7.23cm	79.95%	7.23			Avg	37w1d	34w0d-40w2d

	Value	1	2	3	4	5	6	Method
Cervix L	5.61cm		5.61					Avg

	Value	1	2	3	Method
OFD(HC)	11.42cm	11.42			Avg

CI(HC) 78.28 (70.00~86.00) HC/AC(Campbell) 1.00 (0.93~1.11) FL/BPD 80.87 (71.00~87.00)

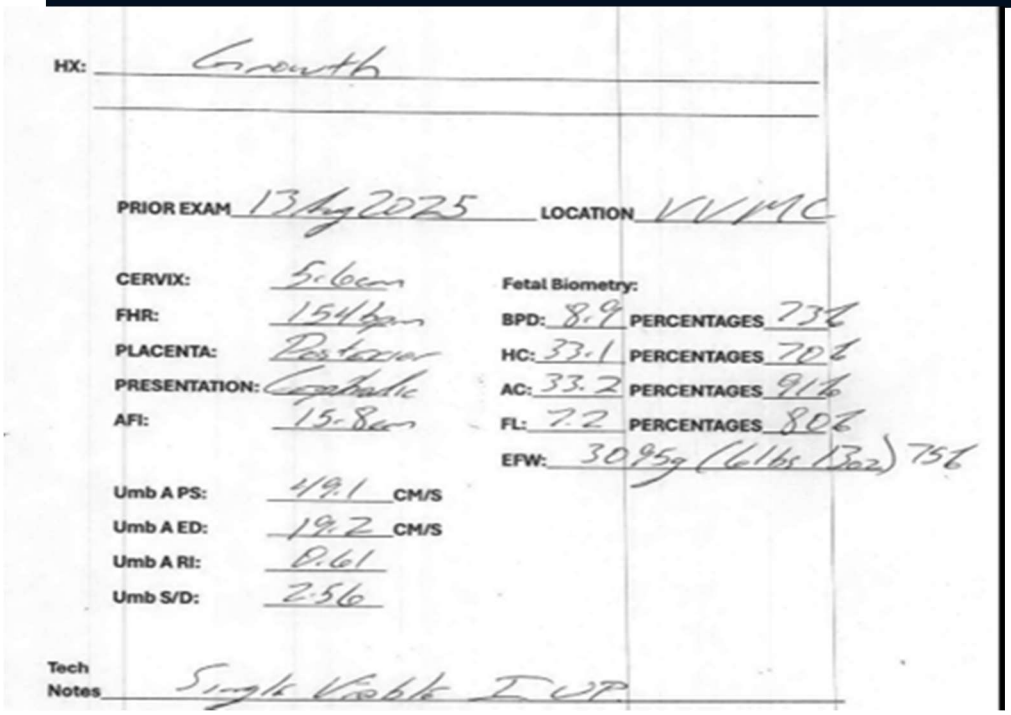


LMP•: 03/14/2025 GA: 35w4d EDD(EDD): 12/19/2025 AUA 37w0d EDD(AUA): 12/09/2025

FL/HC(Hadlock) 21.87 (20.10~22.19) FL/AC 21.80 (20.00~24.00)

	Value	1	2	3	Method
AFI					
AF1	3.07cm	3.07			Last
AF2	4.76cm	4.76			Last
AF3	4.67cm	4.67			Last
AF4	3.27cm	3.27			Last
AFI(4)	15.77cm				

	Value	1	2	3	4	5	6	Method
Doppler Measurements								
FHR (Doppler)	154bpm	154						Avg
Umb A								
PS	49.06cm/s	49.06						Last
ED	19.17cm/s	19.17						•
RI	0.61	0.61						



HX: Growth

PRIOR EXAM 13 Aug 2025 LOCATION VVMC

CERVIX: 5.6cm

FHR: 154bpm

PLACENTA: Posterior

PRESENTATION: Cephalic

AFI: 15.8cm

Fetal Biometry:

BPD: 8.9 PERCENTAGES 73%

HC: 33.1 PERCENTAGES 70%

AC: 33.2 PERCENTAGES 91%

FL: 7.2 PERCENTAGES 80%

EFW: 3095g (6lbs 13oz) 75%

Umb A PS: 49.1 CM/S

Umb A ED: 19.2 CM/S

Umb A RI: 0.61

Umb S/D: 2.56

Tech Notes: Single Viable IUP

PROCEDURE: US PREGNANCY 2ND-3RD TRIMESTER

PROCEDURE DATE: 11/18/2025 1:49 PM

HISTORY: Encounter for supervision of other normal preg third trimester.

TECHNIQUE: Transabdominal imaging in the maternal pelvis and a >14 weeks gestation with image documentation. Spectral analysis of the Doppler waveforms of the ovaries were performed if visualized.

COMPARISON: Obstetric ultrasound dated 08/13/2025.

FINDINGS:

FETUS:

There is a single live intrauterine gestation.

HEART RATE:

The fetal heart rate is 154 beats per minute.

FETAL BIOMETRICS:

BPD- 8.94 cm - 36 wks 1 day-73.24%

HC- 33.06 cm - 37 wks 5 days- 69.85%

AC- 33.16 cm - 37 wks 0 days-91.31%

FL- 7.23 cm - 37 wks 1day- 79.95%.

OFD(HC) - 11.42cm.

CI(HC) - 78.28.

HC/AC - 1.00

FL/BPD - 80.87.

FL/HC - 21.87.

FL/AC - 21.80.

Estimated gestational age by ultrasound is 37 weeks,0 days.

Estimated fetal weight is 3095 g(6 lbs 13 oz) +/- 452 g(1 lbs). This is the 74.54 percentile.

FETAL ANATOMIC SURVEY:

The fetus is in cephalic presentation.

PLACENTA:

The placenta is posterior in location. No sonographic evidence for abruption or previa.

AMNIOTIC FLUID:

15.77 cm within normal limits.

CERVIX:

Closed. Unremarkable as visualized. Cervical length: 5.61 cm.

Umb A PS: 49.06 cm/ s.

Umb A ED: 19.17cm/s.

Umb A RI: 0.61.

Umb A S/D: 2.56.

IMPRESSION:

1. Single live intrauterine gestation with estimated age of 37 weeks,0 days

2. Fetal heart rate, amniotic fluid and growth within normal limits. Growth parameters are consistent with the prior.



LMP•: 03/15/2025 GA: 34w6d EDD(EDD): 12/20/2025 AUA 35w0d EDD(AUA): 12/19/2025

2D Measurements

EFW

EFW	Hadlock(AC,FL,HC,BPD)	2576g (5 lbs 11 oz)	±376g (13 oz)							
EFW-GA	Hadlock	34w6d								
EFW-GP(EDD)(William)	48.40%									
	Formula	Value		1	2	3	Method	GA	Range	
BPD	Hadlock	8.65cm	53.59%	8.65			Avg	35w0d	31w6d-38w1d	
HC	Hadlock	31.31cm	21.19%	31.31			Avg	35w0d	32w0d-38w0d	
AC	Hadlock	31.16cm	63.68%	31.16			Avg	35w1d	32w1d-38w1d	
FL	Hadlock	6.80cm	44.43%	6.80			Avg	35w0d	32w0d-38w0d	

	Value	1	2	3	4	5	6	Method
Cervix L	5.06cm	5.06						Avg

	Value	1	2	3	Method
OFD(HC)	10.57cm	10.57			Avg

CI(HC) 81.84 (70.00~86.00) HC/AC(Campbell) 1.00 (0.93~1.11) FL/BPD 78.61 (71.00~87.00)

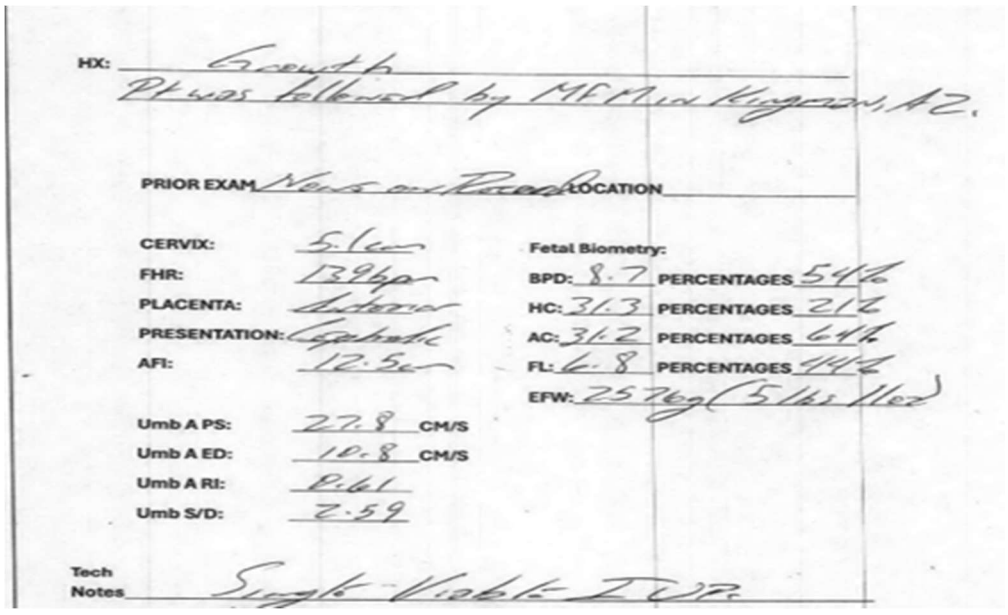


LMP•: 03/15/2025 GA: 34w6d EDD(EDD): 12/20/2025 AUA 35w0d EDD(AUA): 12/19/2025

FL/HC(Hadlock) 21.72 (20.00~22.23) FL/AC 21.82 (20.00~24.00)

	Value	1	2	3	Method
AFI					
AF1	3.95cm	3.95			Last
AF2	1.61cm	1.61			Last
AF3	3.46cm	3.46			Last
AF4	3.46cm	3.46			Last
AFI(4)	12.48cm				

	Value	1	2	3	4	5	6	Method
Doppler Measurements								
FHR (Doppler)	139bpm	139						Avg
Umb A								
PS	27.83cm/s	27.83						Last
ED	10.75cm/s	10.75						•
RI	0.61	0.61						



HX: Growth
Pt was followed by MFM in Kingman, AZ.

PRIOR EXAM: Neg on Record LOCATION:

CERVIX: 5.1cm
FHR: 139bpm
PLACENTA: Anterior
PRESENTATION: Cephalic
AFI: 12.5cm

Fetal Biometry:
BPD: 8.7 PERCENTAGES 54%
HC: 31.3 PERCENTAGES 21%
AC: 31.2 PERCENTAGES 64%
FL: 6.8 PERCENTAGES 44%
EFW: 2576g (5 lbs 11oz)

Umb A PS: 27.8 CM/S
Umb A ED: 10.8 CM/S
Umb A RI: 0.61
Umb S/D: 2.59

Tech Notes: Single Viable IUP.

PROCEDURE: US PREGNANCY 2ND-3RD TRIMESTER

PROCEDURE DATE: 11/14/2025 4:27 PM

HISTORY: Growth scan. LMP 03/15/2025. Follow up.

TECHNIQUE: Transabdominal imaging in the maternal pelvis and a >14 weeks gestation with image documentation. Spectral analysis of the Doppler waveforms of the ovaries were performed if visualized.

COMPARISON: No priors available for comparison.

FINDINGS:

FETUS:

There is a single live intrauterine gestation.

HEART RATE:

The fetal heart rate is 139 beats per minute.

FETAL BIOMETRICS:

BPD- 8.65 cm - 35 wks 0 days-53.59%

HC- 31.31 cm - 35 wks 0 days- 21.19%

AC- 31.16 cm - 35 wks 1 day-63.68%

FL- 6.80 cm - 35 wks 0 days- 44.43%.

OFD(HC) - 10.57 cm.

CI(HC) - 81.84.

HC/AC - 1.00

FL/BPD - 78.61.

FL/HC - 21.72.

FL/AC - 21.82.

Estimated gestational age by ultrasound is 35 weeks,0 days.

Estimated fetal weight is 2576 g(5 lbs 11 oz) +/- 376 g(13 oz). This is the 48.40 percentile.

FETAL ANATOMIC SURVEY:

The fetus is in cephalic presentation.

PLACENTA:

The placenta is anterior in location. No sonographic evidence for abruption or previa.

AMNIOTIC FLUID:

12.48 cm within normal limits.

CERVIX:

Closed. Unremarkable as visualized. Cervical length: 5.06 cm.

Umb A PS: 27.83 cm/ s.

Umb A ED: 10.75 cm/s.

Umb A RI: 0.61.

Umb A S/D: 2.59.

IMPRESSION:

1. Single live intrauterine gestation with estimated age of 35 weeks,0 days.
2. Fetal heart rate, amniotic fluid and growth within normal limits.

CALCIUM SCORE

EXAM:
CT Cardiac calcium scoring.

CLINICAL HISTORY:
Screening.

TECHNIQUE:
Thin collimated axial CT cardiac images were obtained. A CT scan is done according to ALARA (As Low As Reasonably Achievable).

CONTRAST:
None.

COMPARISON:
None provided.

FINDINGS:

Calcium Score:

VESSEL	Number of lesions	Volume mm3	Equi. Mass/mg	Calcium score
LM	1	19.6	-	26.5
LAD	3	7.1	-	9.0
LCX	0	0.0	-	0.0
RCA	1	9.3	-	11.6
Total	5	36.0	-	47.1

IMPRESSION:
The total calcium score is 47.1. 72th percentile.

Prominent ascending aorta measuring 4.2 cm.

EXAM:
CT Cardiac calcium scoring.

CLINICAL HISTORY:
Screening.

TECHNIQUE:
Thin collimated axial CT cardiac images were obtained. A CT scan is done according to ALARA (As Low As Reasonably Achievable).

CONTRAST:
None.

COMPARISON:
None provided.

FINDINGS:

Calcium Score:

VESSEL	Number of lesions	Volume mm3	Equi. Mass/mg	Calcium score
LM	0	0.0	0.00	0.0
LAD	3	118.1	21.05	109.3
LCX	1	37.6	7.03	43.2
RCA	6	34.0	5.13	21.7
Ca	3	20.1	3.15	14.4
Total	13	209.9	36.36	188.5

IMPRESSION:
The total calcium score is 188.5. 89th percentile.

1.5 cm spiculated nodule in the right middle lobe of the lung. Requires further evaluation with CT scan of the chest.

CLINICAL HISTORY:
Screening.

TECHNIQUE:
Thin collimated axial CT cardiac images were obtained. A CT scan is done according to ALARA (As Low As Reasonably Achievable).

CONTRAST:
None.

COMPARISON:
None provided.

FINDINGS:
Calcium Score:

VESSEL	Number of lesions	Volume mm3score	Equi. Mass/mg	Calcium
LM	1	1.0	-	1.3
LAD	2	28.0	-	40.1
LCX	2	28.0	-	35.3
RCA	0	0.0	-	0.0
Total	5	57.0	-	76.7

IMPRESSION:
The total calcium score is 76.7. 82th percentile.

Mild interstitial lung thickening in the visualized portions of the lung. Request further evaluation with dedicated CT scan of the chest.

Prominent ascending aorta measuring 3.8 cm.

EXAM:
CT Cardiac calcium scoring.

CLINICAL HISTORY:
Screening.

TECHNIQUE:
Thin collimated axial CT cardiac images were obtained. A CT scan is done according to ALARA (As Low As Reasonably Achievable).

CONTRAST:
None.

COMPARISON:
None provided.

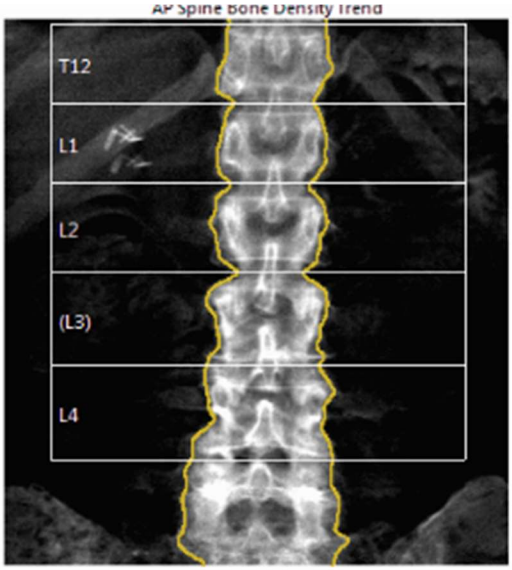
FINDINGS:
Calcium Score:

VESSEL	Number of lesions	Volume mm3	Equi. Mass/mg score	Calcium
LM	1	1.0	-	1.3
LAD	3	3.2	-	6.6
LCX	0	0.0	-	0.0
RCA	1	0.1	-	0.4
Total	5	4.3	-	8.4

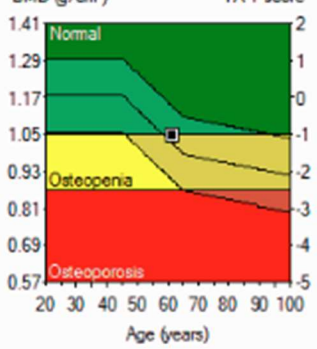
IMPRESSION:
The total calcium score is 8.4. 61th percentile.

DEXA

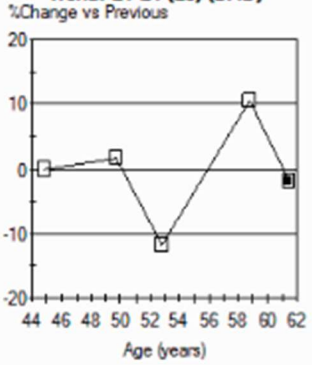
AP Spine Bone Density Trend



Densitometry Ref: L1-L4 (L3) (BMD)



Trend: L1-L4 (L3) (BMD)



Region	[1] BMD (g/cm²)	[2] Young-Adult T-score	[3] Age-Matched Z-score
L1	0.926	-1.7	-0.5
L2	0.979	-1.8	-0.6
L3	1.137	-0.5	0.7
L4	1.181	-0.2	1.1
L1-L4 (L3)	1.047	-1.0	0.2

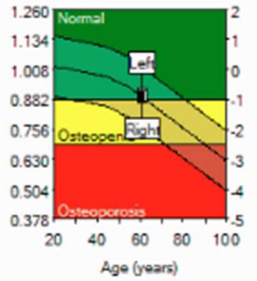
COMMENTS:

Trend: L1-L4 (L3)

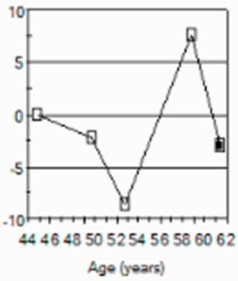
Measured Date	Age (years)	[1] BMD (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	61.4	1.047	-0.020	-1.9
03/03/2023	58.7	1.067	0.102 *	10.6 *
03/16/2017	52.8	0.965	-0.128 *	-11.7 *
02/20/2014	49.7	1.093	0.018	1.7
03/19/2009	44.8	1.075	-	-

Image not for diagnosis

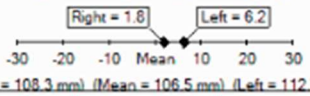
Densitometry Ref: Total (BMD)



Trend: Total Mean (BMD)



Hip Axis Length Comparison (mm)



(Right = 108.3 mm) (Mean = 106.5 mm) (Left = 112.7 mm)

COMMENTS:

Region	[1] BMD (g/cm²)	[2,7] Young-Adult T-score	[3] Age-Matched Z-score
Neck			
Left	0.817	-1.6	-0.3
Right	0.825	-1.5	-0.3
Mean	0.821	-1.6	-0.3
Difference	0.008	0.1	0.1
Total			
Left	0.902	-0.8	0.1
Right	0.887	-1.0	0.0
Mean	0.894	-0.9	0.1
Difference	0.015	-0.1	-0.1

Trend: Total Mean

Measured Date	Age (years)	[1] BMD (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	61.4	0.894	-0.027	-2.9
03/03/2023	58.7	0.921	0.065 *	7.6 *
03/16/2017	52.8	0.856	-0.080 *	-8.5 *
02/20/2014	49.7	0.936	-0.021	-2.2
03/19/2009	44.8	0.957	-	-

Risk Factors:

- [ ] None
- [ ] Alcohol (3 or more units per day)
- [ ] Family Hist. (Parent hip fracture)
- [ ] Glucocorticoids (Chronic)
- [ ] History of Fracture (Adult)
- [ ] Secondary Osteoporosis
- [x] Rheumatoid Arthritis
- [ ] Tobacco User (Current Smoker)

NOF/ISCD Filters:

- [ ] On Treatment
- [ ] Previous Fracture (Hip or Spine)

10-year Probability of Fracture:[17]

Major Osteoporotic[18]	11.1%
Hip	1.2%
Population	USA (Caucasian)
Based on DualFemur (Left) Neck BMD	

ASSESSMENT:

The BMD measured at Femur Neck Left is 0.817 g/cm² with a T-score of -1.6. This patient is considered osteopenic according to World Health Organization (WHO) criteria. Bone density is between 10 and 25% below young normal. Fracture risk is moderate. Treatment is advised.

Site	Region	Measured Date	Measured Age	WHO Classification	Young Adult T-score	BMD
DualFemur	Neck Left	11/20/2025	61.4	Osteopenia	-1.6	0.817 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

RECOMMENDATIONS:

NOF Guidelines recommend treatment for patients with a T-score of -1.5 and below with risk factors or -2.0 and below without risk factors. Effective therapies are available in the form of bisphosphonates (Fosamax and Actonel), and Evista. Hormone therapy may be an option based on review of risks and benefits of treatment. All patients should ensure an adequate intake of dietary calcium (1200 mg/d) and vitamin D (400-800 IU daily).

PROCEDURE:

BONE MINERAL DENSITY EXAMINATION

HISTORY:

Osteoporosis screening. Rheumatoid arthritis.

COMPARISON:

Comparison charts within the report.

FINDINGS:

The bone mineral density of the lumbar spine is 1.047 g/cm2. The T score is -1.0. The Z score is 0.2. These values indicate normal bone mineral density. Interval worsening.

The bone mineral density of the left femur is 0.817 g/cm2. The T score is -1.6. The Z score is -0.3. These values indicate osteopenia.

The bone mineral density of the right femur is 0.825 g/cm2. The T score is -1.5. The Z score is -0.3. These values indicate osteopenia.

Interval worsening the total BMD of both femurs.

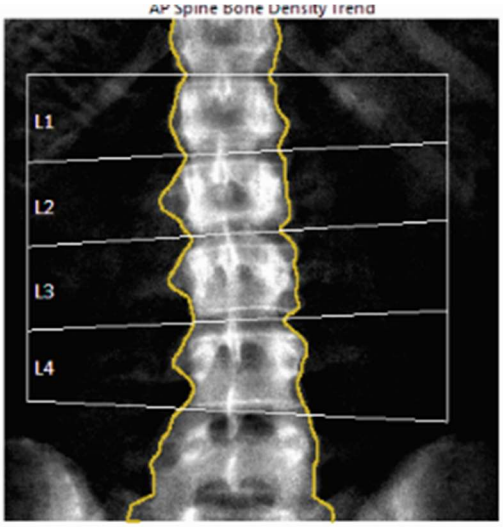
IMPRESSION:

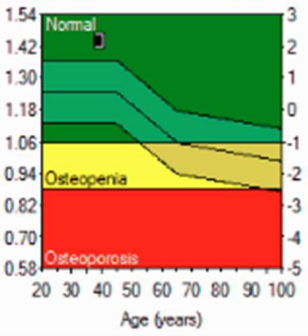
The BMD measured at the Femur Neck Left is 0.817 g/cm2 with a T-score of -1.6. This patient is considered osteopenic according to World Health Organization (WHO) criteria. Bone density is between 10 and 25% below young normal. Fracture risk is moderate. Treatment is advised.

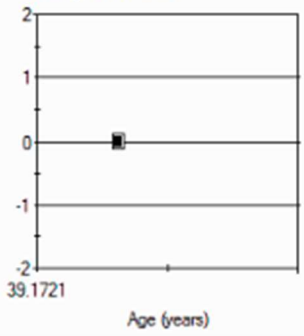
FRAX* 10-year probability of fracture: Major osteoporotic fractures: 11.1%. Hip:1.2 %.

In addition, the National Osteoporosis Foundation recommends a daily intake of 1200 mg of calcium and 400-800 IU of Vitamin D3 (cholecalciferol) in addition to weight-bearing exercise. If the patient is found to be Vitamin B deficient, additional supplements may be required.

AP Spine Bone Density Trend







Region	BMD [1] (g/cm²)	Young-Adult T-score	Age-Matched [3] Z-score
L1	1.419	2.4	1.9
L2	1.496	2.5	1.9
L3	1.478	2.3	1.8
L4	1.376	1.5	0.9
L1-L4	1.441	2.2	1.6

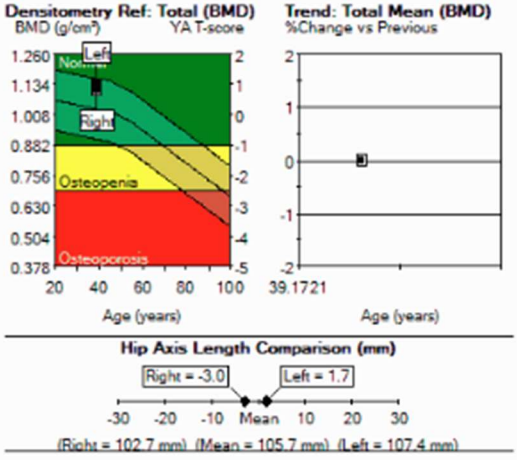
Trend: L1-L4

Measured Date	Age (years)	BMD [1] (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	39.1	1.441	-	-

COMMENTS: TECH:R.A.T.



Image not for diagnosis



Region	BMD [1] (g/cm²)	Young-Adult [2,7] T-score	Age-Matched [3] Z-score
Neck			
Left	1.196	1.1	1.2
Right	1.024	-0.1	-0.1
Mean	1.110	0.5	0.6
Difference	0.172	1.2	1.2
Total			
Left	1.132	1.0	0.8
Right	1.114	0.8	0.7
Mean	1.123	0.9	0.7
Difference	0.017	0.1	0.1

Trend: Total Mean

Measured Date	Age (years)	BMD [1] (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	39.1	1.123	-	-

Risk Factors:

- [ ] None
- [ ] Alcohol (3 or more units per day)
- [ ] Family Hist. (Parent hip fracture)
- [ ] Glucocorticoids (Chronic)
- [ ] History of Fracture (Adult)
- [ ] Secondary Osteoporosis
- [x] Rheumatoid Arthritis
- [ ] Tobacco User (Current Smoker)

NOF/ISCD Filters:

- [ ] On Treatment
- [ ] Previous Fracture (Hip or Spine)

10-year Probability of Fracture:[17]

Major Osteoporotic[18]	-
Hip	-
Population	USA (Caucasian)
Based on DualFemur (Right) Neck BMD	

ASSESSMENT:

The BMD measured at Femur Neck Right is 1.024 g/cm² with a T-score of -0.1. Bone density is up to 10% below young normal. This patient is considered normal according to World Health Organization (WHO) criteria. Fracture risk is low.

Site	Region	Measured Date	Measured Age	WHO Classification	Young Adult T-score	BMD
DualFemur	Neck Right	11/20/2025	39.1	Normal	-0.1	1.024 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

RECOMMENDATIONS:

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 at high risk for fracture should have regular bone mineral density tests. 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, those who are receiving or discontinuing medical therapy to restore bone mass, or have additional risk factors.

PROCEDURE:
BONE MINERAL DENSITY EXAMINATION

HISTORY:
Osteoporosis screening. Rheumatoid arthritis.

COMPARISON:
None.

FINDINGS:

The bone mineral density of the lumbar spine is 1.441 g/cm2. The T score is 2.2. The Z score is 1.6. These values indicate normal bone mineral density.

The bone mineral density of the left femur is 1.196 g/cm2. The T score is 1.1. The Z score is 1.2. These values indicate normal bone mineral density.

The bone mineral density of the right femur is 1.024 g/cm2. The T score is -0.1. The Z score is -0.1. These values indicate normal bone mineral density.

IMPRESSION:

The BMD measured at Femur Neck Right is 1.024 g/cm2 with a T-score of -0.1. Bone density is up to 10% below young normal. This patient is considered normal according to World Health Organization (WHO) criteria. Fracture risk is low.

In addition, the National Osteoporosis Foundation recommends a daily intake of 1200 mg of calcium and 400-800 IU of Vitamin D3 (cholecalciferol) in addition to weight-bearing exercise. If the patient is found to be Vitamin B deficient, additional supplements may be required.

Dualfemur Bone Density

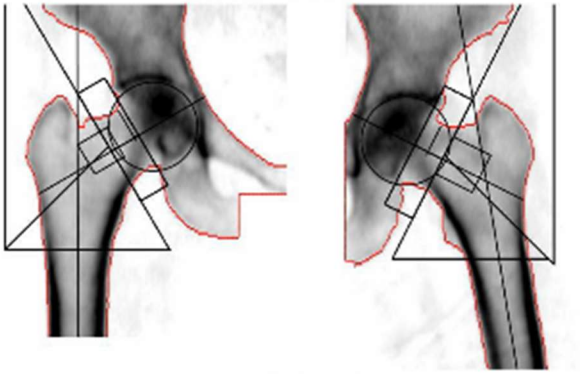
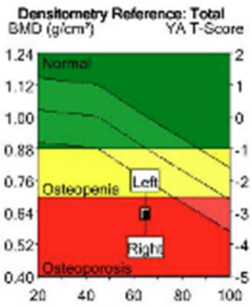
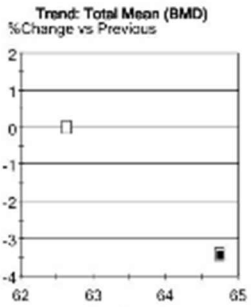


Image not for diagnosis





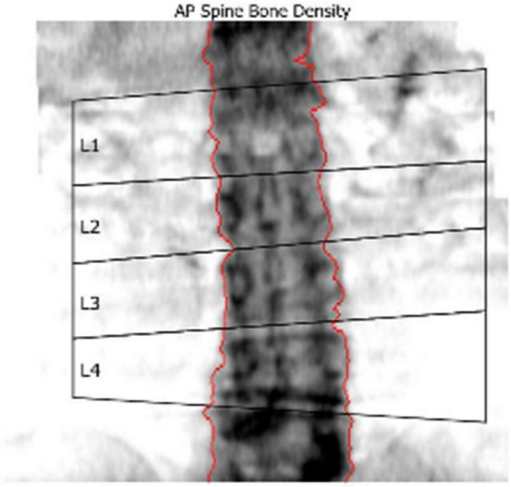
HAL chart results unavailable

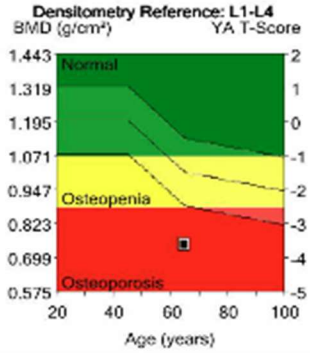
Region	BMD [1,6] (g/cm²)	Young-Adult [2,7] (%)	Young-Adult [2,7] T-Score	Age-Matched [3] (%)	Age-Matched [3] Z-Score
Neck					
Left	0.624	64	-3.0	75	-1.7
Right	0.644	66	-2.8	78	-1.5
Mean	0.634	65	-2.9	77	-1.6
Difference	0.020	2	0.2	2	0.2
Total					
Left	0.637	64	-3.0	72	-2.0
Right	0.632	63	-3.1	72	-2.1
Mean	0.635	63	-3.0	72	-2.1
Difference	0.005	0	0.0	-1	0.0

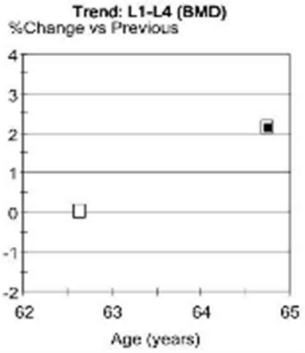
Trend: Total Mean

Measured Date	Age (years)	BMD [1,6] (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	64.7	0.635	-0.023	-3.4
10/10/2023	62.6	0.657	-	-

AP Spine Bone Density







Region	BMD [1] (g/cm²)	Young-Adult [2] (%)	Young-Adult [2] T-Score	Age-Matched [3] (%)	Age-Matched [3] Z-Score
L1	0.632	56	-4.2	66	-2.8
L2	0.699	58	-4.2	67	-2.8
L3	0.761	64	-3.6	74	-2.3
L4	0.861	72	-2.8	84	-1.4
L1-L4	0.745	63	-3.6	73	-2.2

Trend: L1-L4

Measured Date	Age (years)	BMD [1] (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	64.7	0.745	0.016	2.2
10/10/2023	62.6	0.729	-	-

COMMENTS:

PROCEDURE:
BONE MINERAL DENSITY EXAMINATION

HISTORY:
Osteoporosis screening.

COMPARISON:
DEXA scan dated 10/10/2023.

FINDINGS:

The bone mineral density of the lumbar spine is 0.745 g/cm2. The T score is -3.6. The Z score is -2.2. These values indicate osteoporosis. Interval improvement.

The bone mineral density of the left femur is 0.624 g/cm2. The T score is -3.0. The Z score is -1.7. These values indicate osteoporosis.

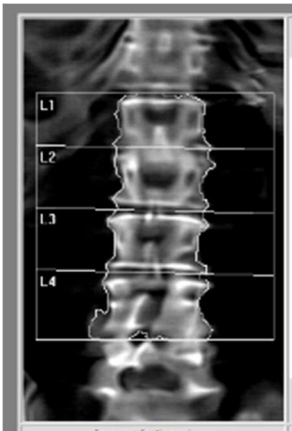
The bone mineral density of the right femur is 0.644 g/cm2. The T score is -2.8. The Z score is -1.5. These values indicate osteoporosis.

Interval worsening in the total BMD of both femurs.

IMPRESSION:

Osteoporosis in both hips and lumbar spine. Fracture risk is high.

In addition, the National Osteoporosis Foundation recommends a daily intake of 1200 mg of calcium and 400-800 IU of Vitamin D3 (cholecalciferol) in addition to weight-bearing exercise. If the patient is found to be Vitamin B deficient, additional supplements may be required.



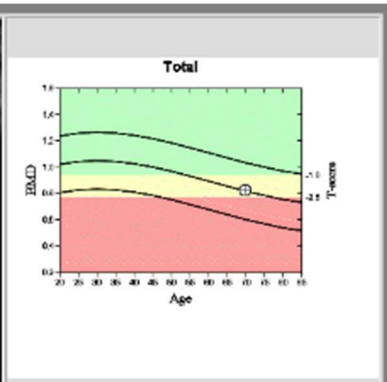


Image not for diagnostic use

116 x 124

k = 1.137, d0 = 48.3

T-score vs. Hispanic Female, Source:Hologic
Z-score vs. Hispanic Female, Source:Hologic

Results Summary:

Region	Area[cm²]	BMC[(g)]	BMD[g/cm²]	T-score	PR (Peak Reference)	Z-score	AM (Age Matched)
L1	11.33	8.92	0.787	-1.8	80	0.0	100
L2	13.93	11.51	0.826	-1.8	80	0.2	103
L3	13.79	11.50	0.834	-2.3	77	-0.1	99
L4	17.22	14.41	0.837	-2.0	79	0.2	103
Total	**56.27**	**46.34**	**0.824**	**-2.0**	**79**	**0.1**	**101**

Total BMD CV 1.0%, ACF = 1.030, BCF = 1.009, TH = 6.972



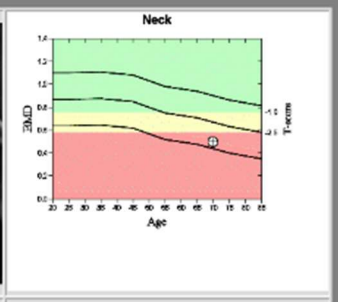


Image not for diagnostic use

97 x 89

NECK: 49 x 15

k = 1.141, d0 = 51.0

T-score vs. Hispanic Female, Source:NHANES
Z-score vs. Hispanic Female, Source:NHANES

Results Summary:

Region	Area[cm²]	BMC[(g)]	BMD[g/cm²]	T-score	PR (Peak Reference)	Z-score	AM (Age Matched)
Neck	**4.67**	**2.32**	**0.497**	**-3.2**	**57**	**-1.5**	**74**
Total	21.14	11.60	0.549	-3.1	57	-1.6	71

Total BMD CV 1.0%, ACF = 1.030, BCF = 1.009, TH = 5.961

WHO Classification: Osteoporosis

10-year Fracture Risk

FRAX not reported because:
Some T-score for Spine Total or Hip Total or Femoral Neck at or below -2.5
Prior hip or vertebral fracture

PROCEDURE:
BONE MINERAL DENSITY EXAMINATION

HISTORY:
Osteoporosis screening.

COMPARISON:
None.

FINDINGS:

The bone mineral density of the lumbar spine is 0.824 g/cm2. The T score is -2.0. The Z score is 0.1. These values indicate osteopenia.

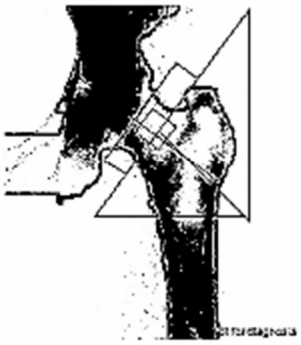
The bone mineral density of the right femur is 0.497 g/cm2. The T score is -3.2. The Z score is -1.5. These values indicate osteoporosis.

IMPRESSION:

FRAX* 10-year probability of fracture: Could not be calculated as T score for spine total or hip total left femoral neck is at or below -2.5.

In addition, the National Osteoporosis Foundation recommends a daily intake of 1200 mg of calcium and 400-800 IU of Vitamin D3 (cholecalciferol) in addition to weight-bearing exercise. If the patient is found to be Vitamin B deficient, additional supplements may be required.

FRAX* RESULTS: *(version: 3.5)*



10-year Probability of Fracture[1]	
Major Osteoporotic Fracture[2]	**Hip Fracture**
26.3%	8.5%
Population:	USA (Caucasian)
Risk Factors:	History of Fracture (Adult)

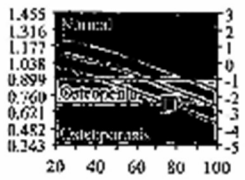
Based on Femur (Left) Neck BMD

1 -The 10-year probability of fracture may be lower than reported if the patient has received treatment.
2 -Major Osteoporotic Fracture: Clinical Spine, Forearm, Hip or Shoulder

*FRAX is a trademark of the University of Sheffield Medical School's Centre for Metabolic Bone Disease, a World Health Organization (WHO) Collaborating Centre.

ASSESSMENT:

The BMD measured at Femur Neck Left is 0.667 g/cm² with a T-score of -2.7. This patient is considered osteoporotic according to World Health Organization (WHO) criteria. Fracture risk is high. Pharmacological treatment, if not already prescribed, should be started. A follow up bone density test is recommended in one year to monitor response to therapy.



Site	Region	Measured Date	Measured Age	WHO Classification	Young Adult T-score	BMD
DualFemur	Neck Left	11/20/2025	76.6	Osteoporosis	-2.7	0.667 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

ANCILLARY RESULTS

Region	BMD[1,6] (g/cm²)	aBMD (mg/cm²)	Young-Adult[2] (%)	Young-Adult[2] T-score	Age-Matched[3] (%)	Age-Matched[3] Z-score	BMC (g)	Area (cm²)
Neck	0.693	627	67	-2.5	84	-0.9	3.57	5.15
Upper Neck	0.507	-	62	-2.6	77	-1.3	1.28	2.52
Lower Neck	0.871	-	-	-	-	-	2.28	2.62
Wards	0.461	-	51	-3.5	70	-1.5	1.36	2.94
Troch	0.574	-	68	-2.4	80	-1.3	8.56	14.90
Shaft	0.838	-	-	-	-	-	12.08	14.42
Total	0.702	656	70	-2.4	84	-1.1	24.20	34.47

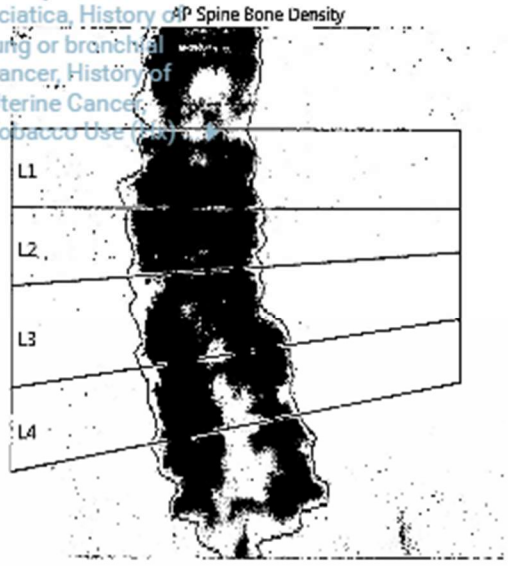
suicidal, History of lung or bronchial cancer, History of Uterine Cancer, Tobacco Use (Hx) ...

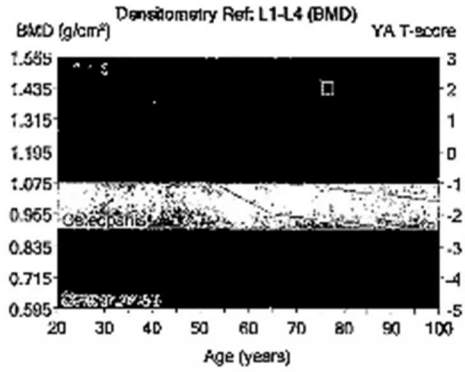
sciatica, History of lung or bronchial cancer, History of Uterine Cancer, Tobacco Use (Hx) ...

ANCILLARY RESULTS

Region	BMD [1,6] (g/cm²)	sBMD (mg/cm³)	Young-Adult [2] (%)	Young-Adult [2] T-score	Age-Matched [3] (%)	Age-Matched [3] Z-score	BMC (g)	Area (cm²)
Neck	0.667	604	64	-2.7	81	-1.1	3.40	5.10
Upper Neck	0.441	-	54	-3.2	66	-1.9	1.11	2.52
Lower Neck	0.890	-	-	-	-	-	2.29	2.58
Wards	0.448	-	49	-3.6	68	-1.6	1.29	2.89
Troch	0.667	-	78	-1.6	93	-0.5	9.97	14.96
Shaft	0.969	-	-	-	-	-	14.11	14.57
Total	0.794	746	79	-1.7	95	-0.3	27.49	34.62

sciatica, History of lung or bronchial cancer, History of Uterine Cancer, Tobacco Use (Hx) ...





AP Spine Results: L1-L4	
BMD [1] (g/cm²)	1.434
T-score (SD of young-adult BMD) [2]	1.9
Z-score (SD of age-matched BMD) [3]	3.1

PROCEDURE:
BONE MINERAL DENSITY EXAMINATION

HISTORY:
Osteoporosis screening.

COMPARISON:
None.

FINDINGS:

The bone mineral density of the lumbar spine is 1.434 g/cm2. The T score is 1.9. The Z score is 3.1. These values indicate normal bone mineral density.

The bone mineral density of the left femur is 0.667 g/cm2. The T score is -2.7. The Z score is -1.1. These values indicate osteoporosis.

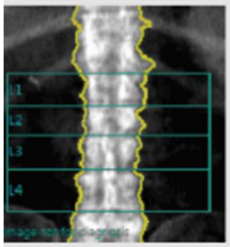
The bone mineral density of the right femur is 0.693 g/cm2. The T score is -2.5. The Z score is -0.9. These values indicate osteoporosis.

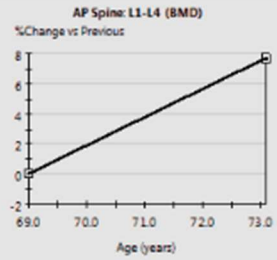
IMPRESSION:

The BMD measured at Femur Neck Left is 0.667 g/cm2 with a T-score of -2.7. This patient is considered osteoporotic according to World Health Organization (WHO) criteria. Fracture risk is high. Pharmacological treatment, if not already prescribed, should be started. A follow-up bone density test is recommended in one year to monitor the response to therapy.

FRAX* 10-year probability of fracture: Major osteoporotic fractures: 26.3%. Hip:8.5 %.

In addition, the National Osteoporosis Foundation recommends a daily intake of 1200 mg of calcium and 400-800 IU of Vitamin D3 (cholecalciferol) in addition to weight-bearing exercise. If the patient is found to be Vitamin B deficient, additional supplements may be required.

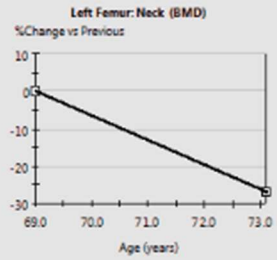




Trend: L1-L4

Measured Date	Measured Age	BMD (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	73.1	1.597	0.115 *	7.8 *
10/06/2021	69.0	1.482	-	-

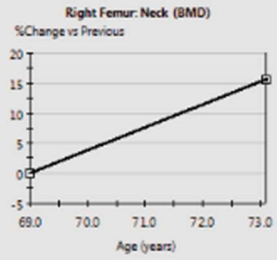




Trend: Neck Left

Measured Date	Measured Age	BMD (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	73.1	0.843	-0.305 *	-26.6 *
10/06/2021	69.0	1.148	-	-

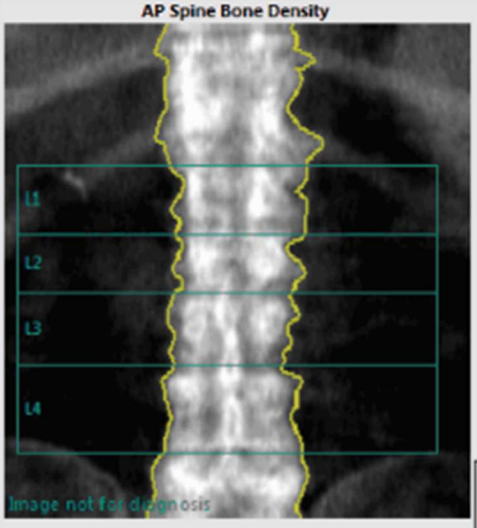




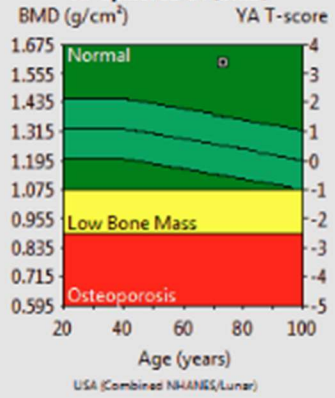
Trend: Neck Right

Measured Date	Measured Age	BMD (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	73.1	1.130	0.152 *	15.5 *
10/06/2021	69.0	0.978	-	-

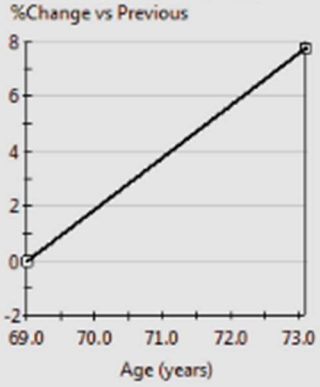
AP Spine Bone Density



AP Spine: L1-L4 (BMD)



AP Spine: L1-L4 (BMD)



COMMENTS:

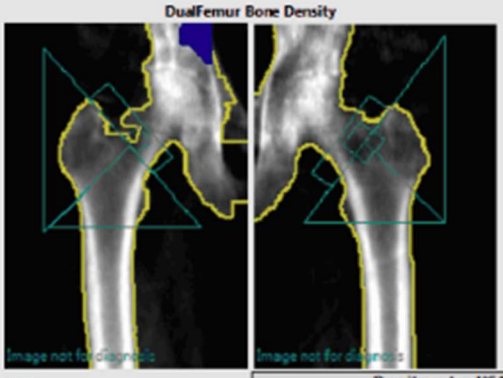
Densitometry: USA (Combined NHANES/Lunar)

Region	BMD (g/cm²)	YA T-score	AM Z-score
L1	1.549	3.3	2.9
L2	1.692	4.0	3.5
L3	1.631	3.3	2.8
L4	1.551	2.6	2.1
L1-L4	1.597	3.3	2.8

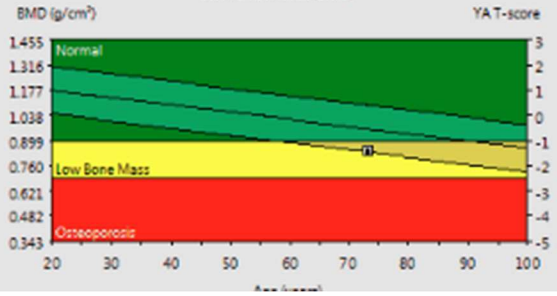
Densitometry Trend: L1-L4

Measured Date	Age (years)	BMD (g/cm²)	Change vs Previous (g/cm²)	Change vs Previous (%)
11/20/2025	73.1	1.597	0.115 *	7.8 *
10/06/2021	69.0	1.482	-	-

DualFemur Bone Density



Left Femur: Neck (BMD)



Densitometry: USA (Combined NHANES/Lunar)

Region	BMD (g/cm²)	YA T-score	AM Z-score
Neck Left	0.843	-1.4	-0.9
Neck Right	1.130	0.7	1.3
Neck Mean	0.987	-0.4	0.2
Neck Diff.	0.286	2.1	2.2
Total Left	1.066	0.5	0.1
Total Right	1.186	1.4	0.9
Total Mean	1.126	0.9	0.5
Total Diff.	0.120	1.0	0.8

FRAX* 10-year Probability of Fracture

Based on femoral neck BMD: DualFemur (Left)



Major Osteoporotic Fracture:	**6.0%**
Hip Fracture:	**1.5%**
Population:	USA (Hispanic)
Risk Factors:	History of Fracture (Adult) (Z87.81)

PROCEDURE:
BONE MINERAL DENSITY EXAMINATION

HISTORY:
Osteoporosis screening.

COMPARISON:
DEXA scan dated 10/06/2021.

FINDINGS:

The bone mineral density of the lumbar spine is 1.597 g/cm2. The T score is 3.3. The Z score is 2.8. These values indicate normal bone mineral density. Interval improvement.

The bone mineral density of the left femur is 0.843 g/cm2. The T score is -1.4. The Z score is -0.9. These values indicate osteopenia. Interval worsening.

The bone mineral density of the right femur is 1.130 g/cm2. The T score is 0.7. The Z score is 1.3. These values indicate normal bone mineral density. Interval improvement.

IMPRESSION:

Osteopenia in the left femur. Fracture risk is moderate.

FRAX* 10-year probability of fracture: Major osteoporotic fractures: 6.0%. Hip: 1.5%.

In addition, the National Osteoporosis Foundation recommends a daily intake of 1200 mg of calcium and 400-800 IU of Vitamin D3 (cholecalciferol) in addition to weight-bearing exercise. If the patient is found to be Vitamin B deficient, additional supplements may be required.