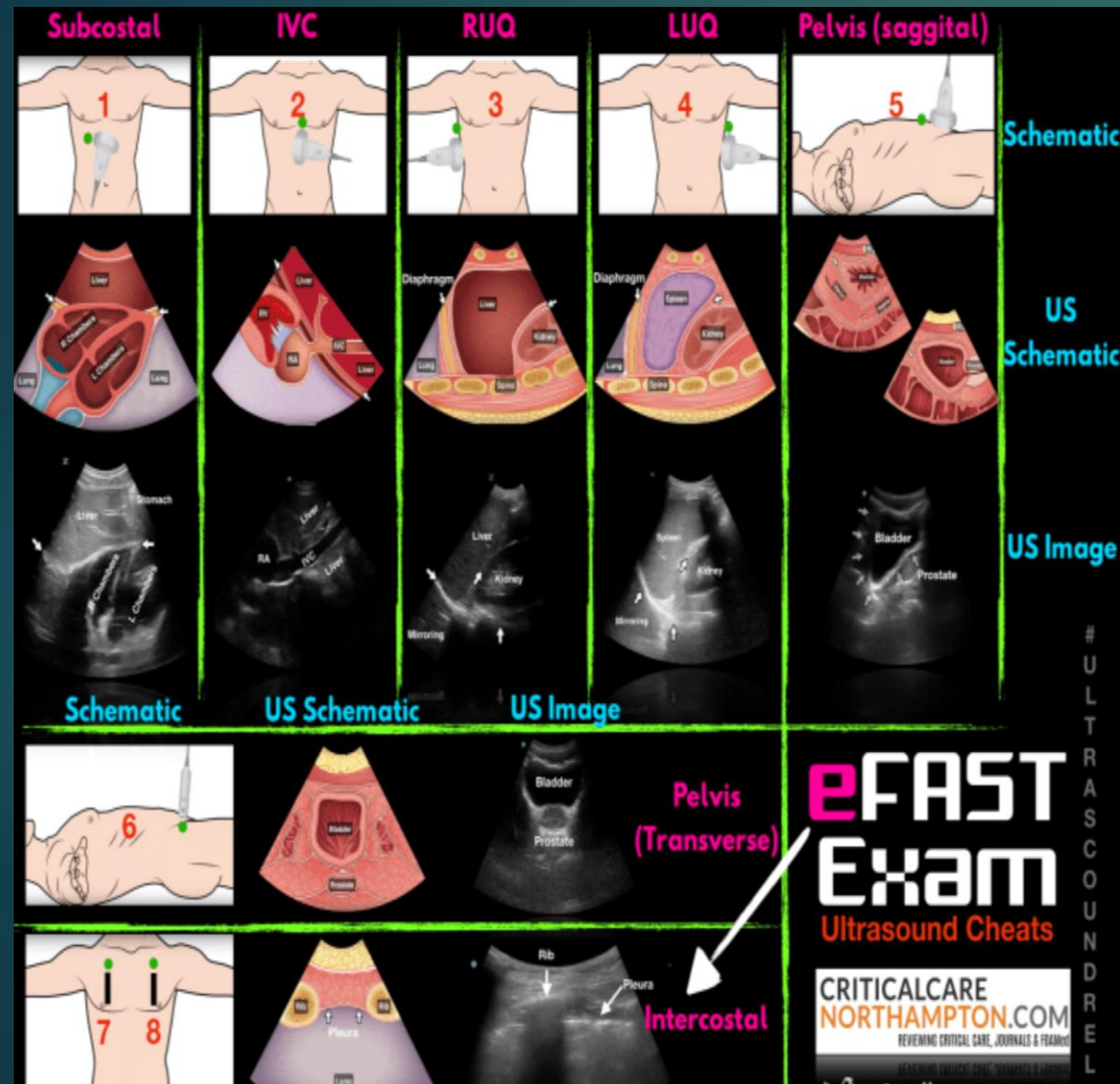




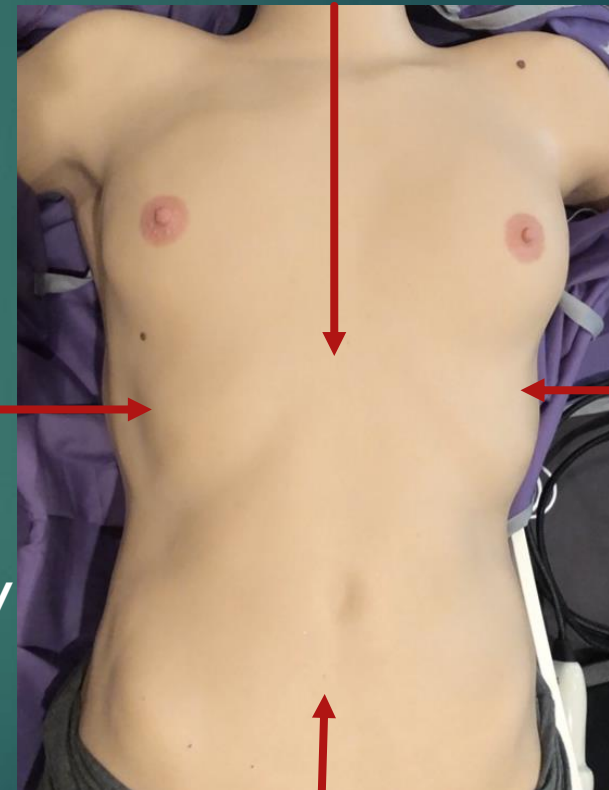
Point-of-Care Ultrasound Windows

POCUS SCANNING WINDOWS

Focused Assessed Sonography for Trauma (FAST)



Subxiphoid
1 Space: Pericardial

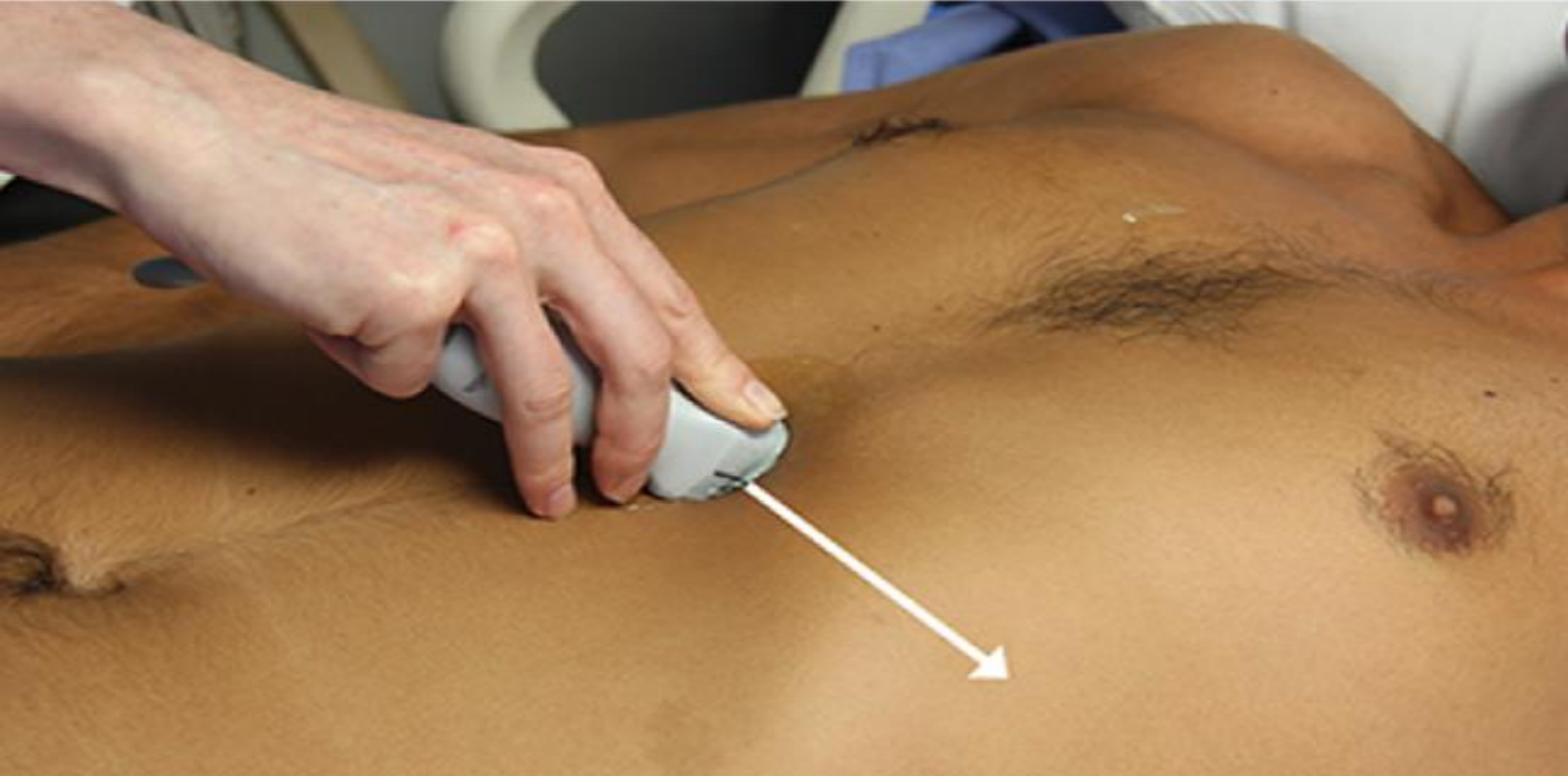


Right Upper
Quadrant
4 Spaces:
Pleural
Subphrenic
Hepatorenal
Inferior Kidney

Left Upper
Quadrant
4 Spaces:
Pleural
Subphrenic
Splenoarenal
Inferior Kidney

Suprapubic:
1 Space:

Rectovesicular/Rectouterine Space

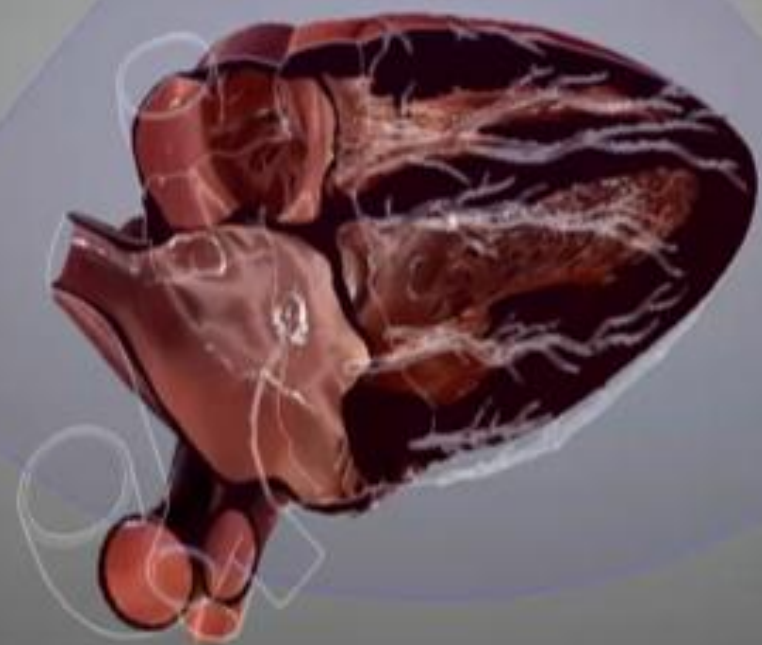
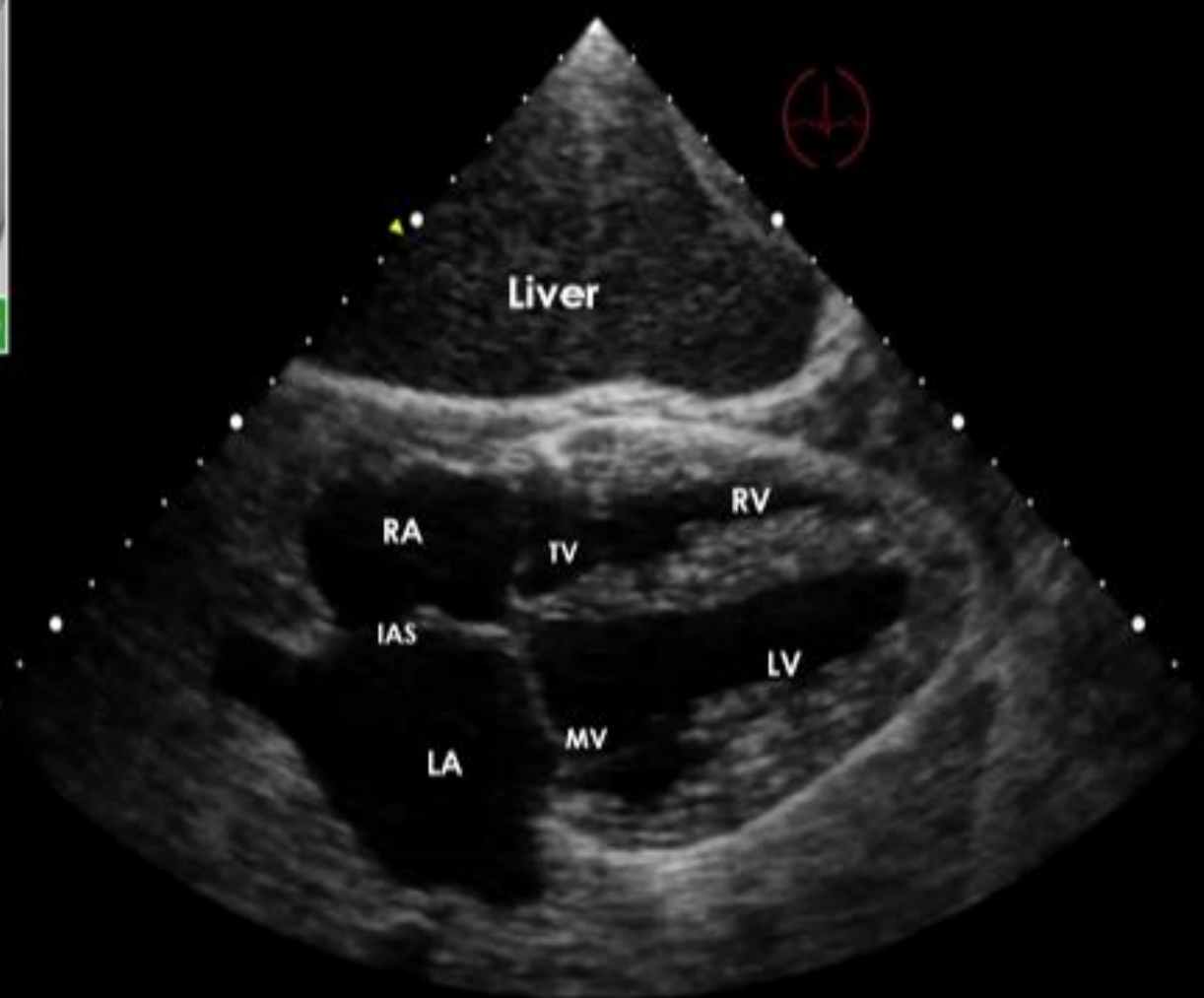


Subcostal Four Chamber View

Pericardial effusion
LV/RV function
Wall motion/filling
MR/TR/ASD



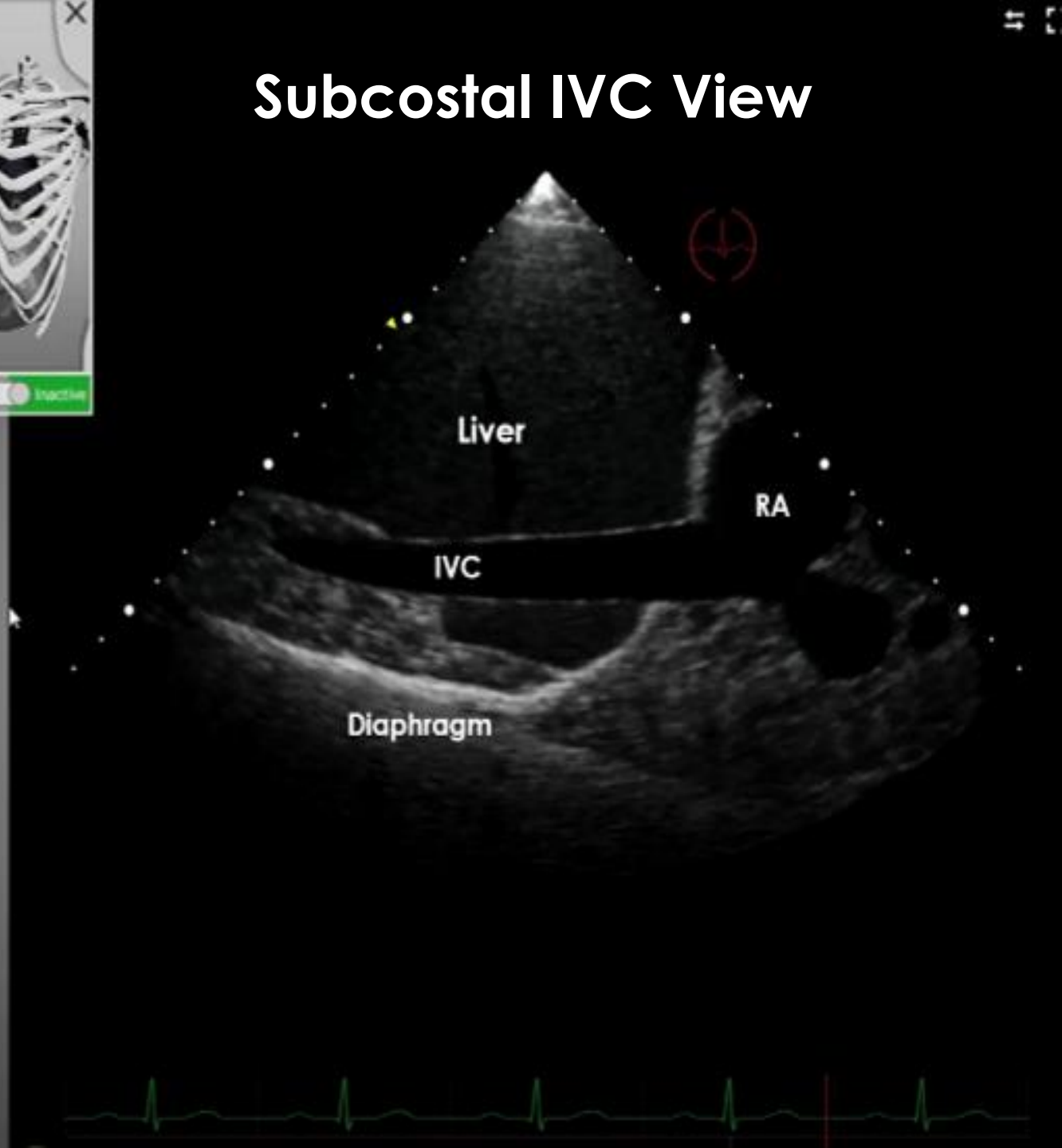
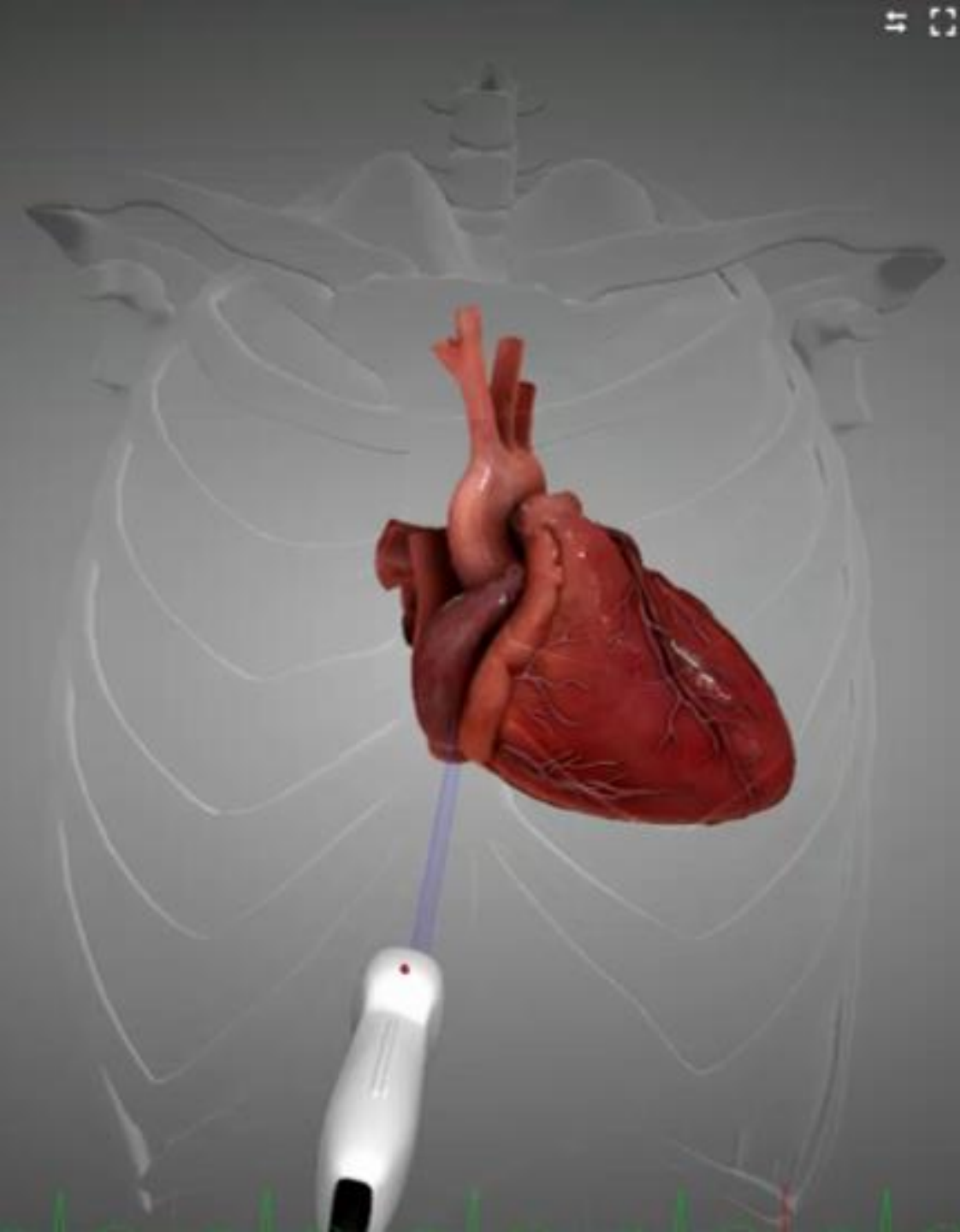
Subcostal Four Chamber (SC 4)





Subcostal IVC View

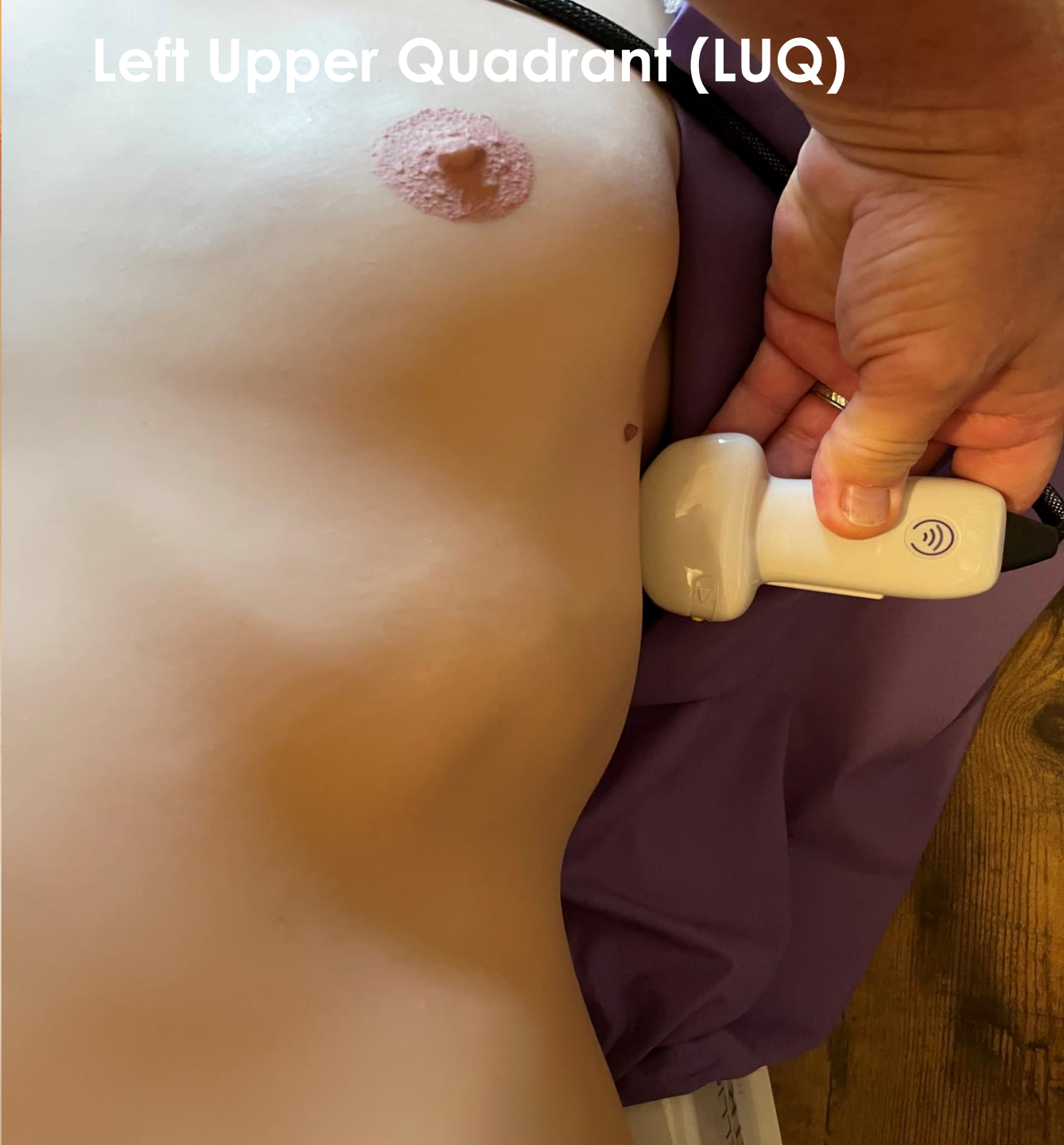
Subcostal IVC View



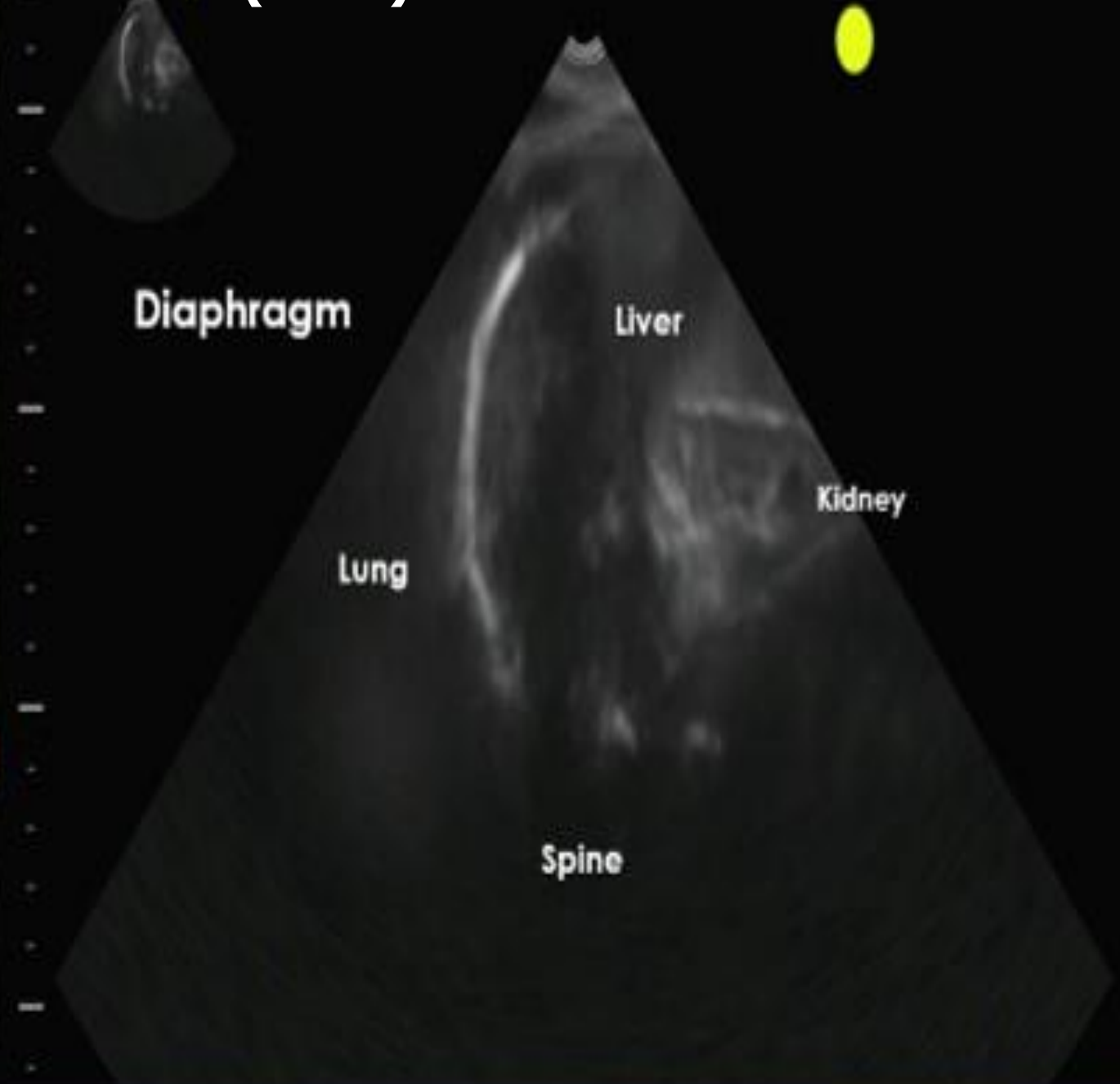
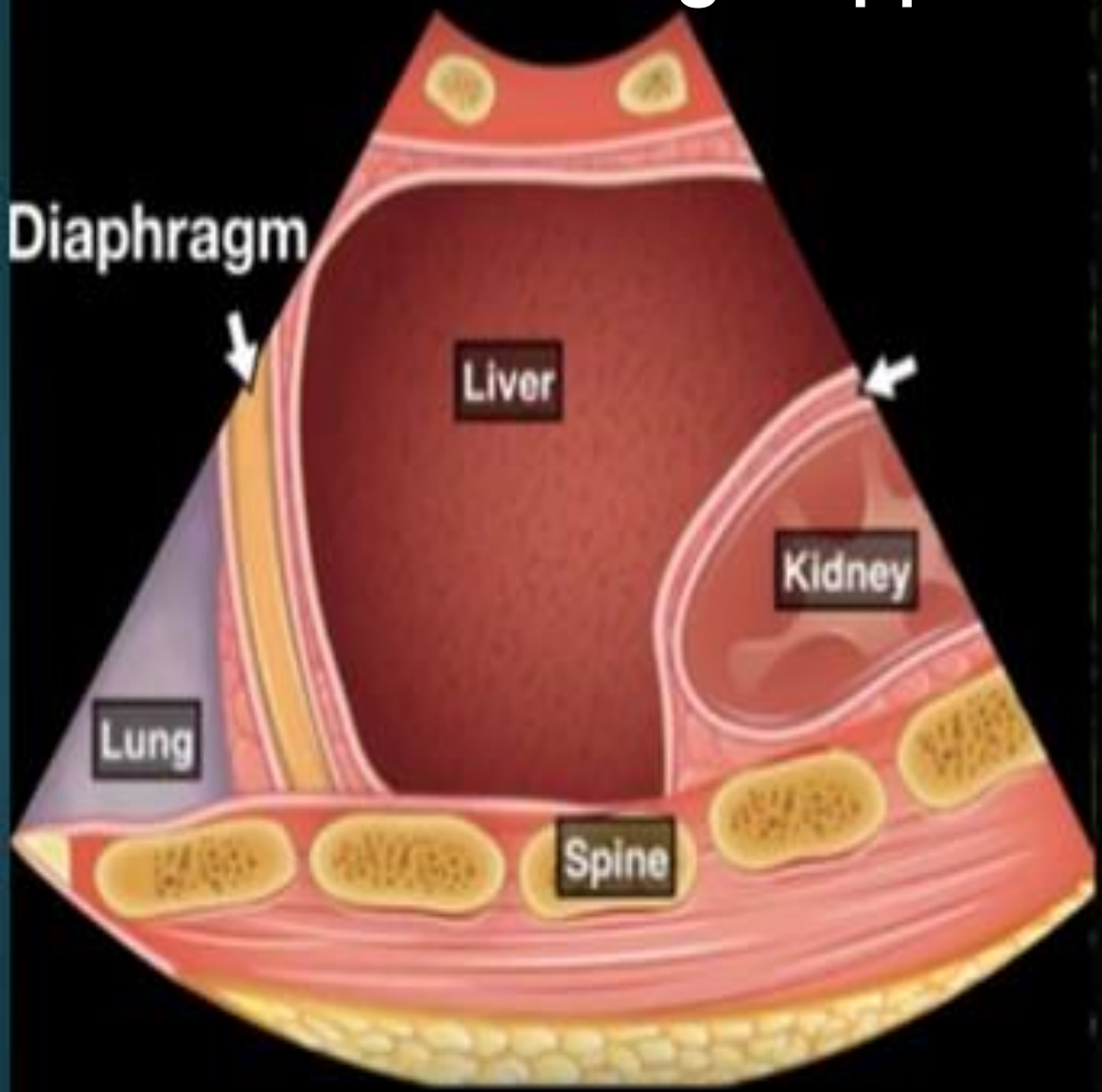
Right Upper Quadrant (RUQ)



Left Upper Quadrant (LUQ)



Right Upper Quadrant (RUQ) View



Left Upper Quadrant (LUQ) View

Diaphragm



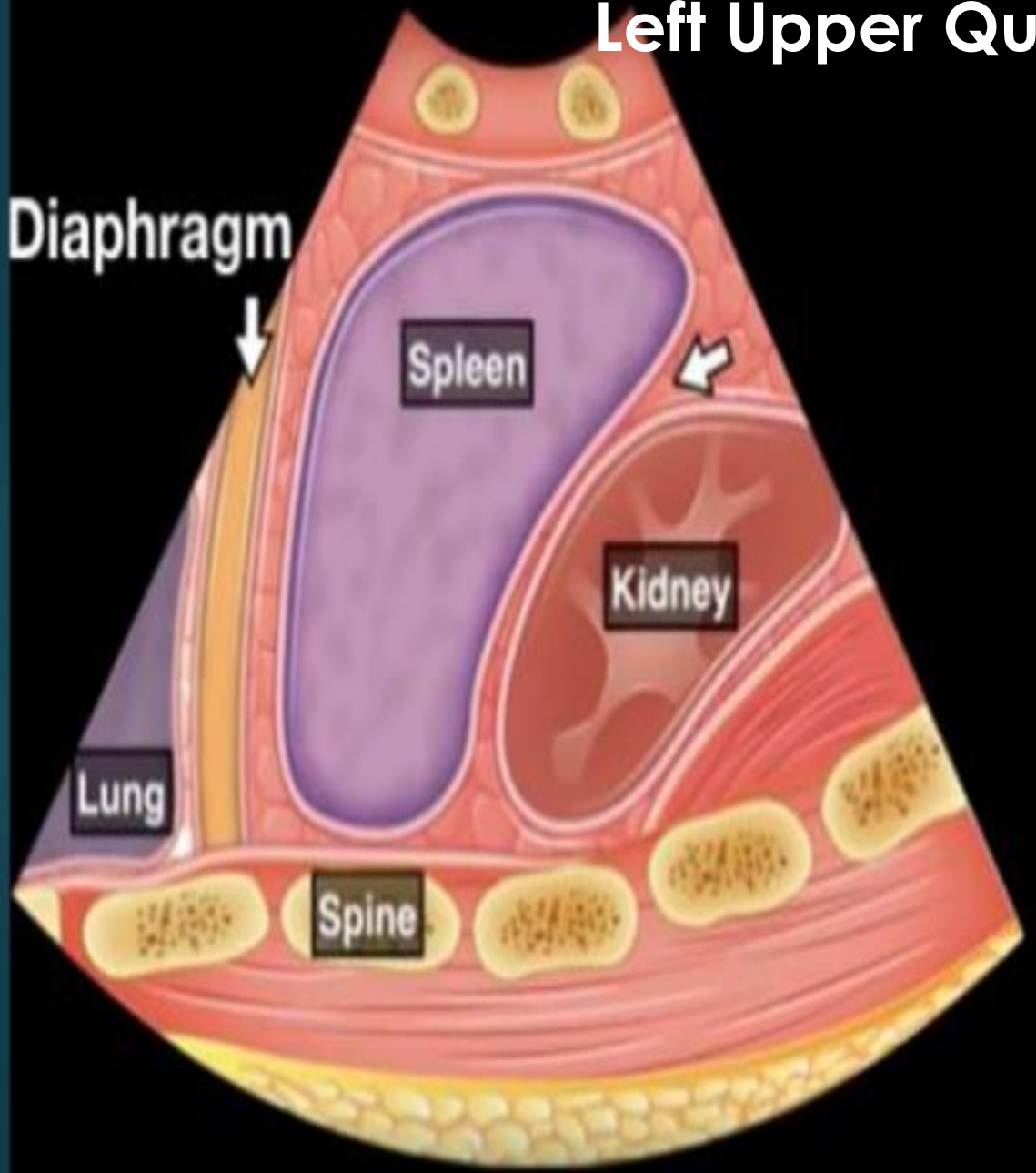
Spleen



Kidney

Lung

Spine



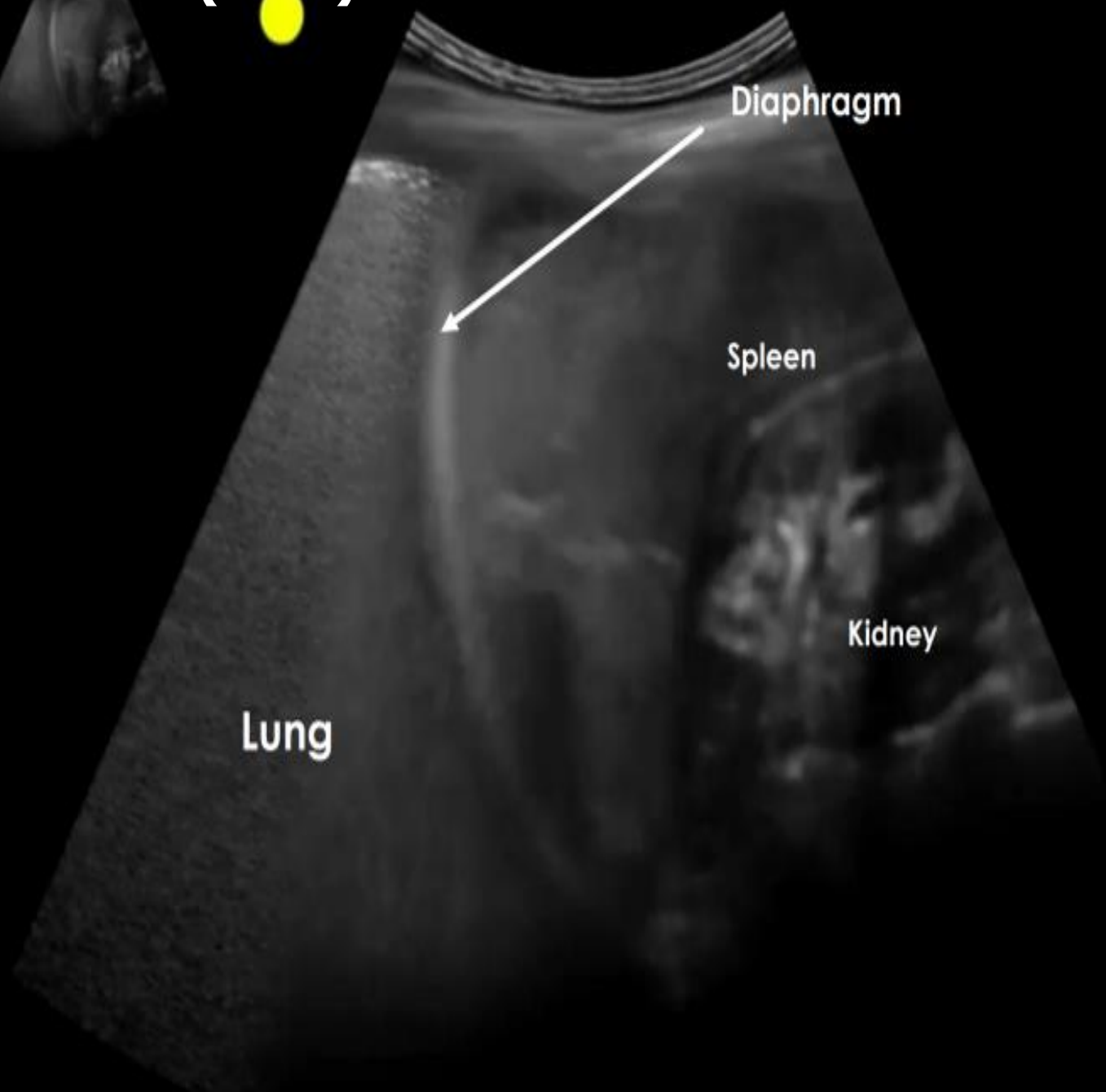
Diaphragm



Spleen

Kidney

Lung



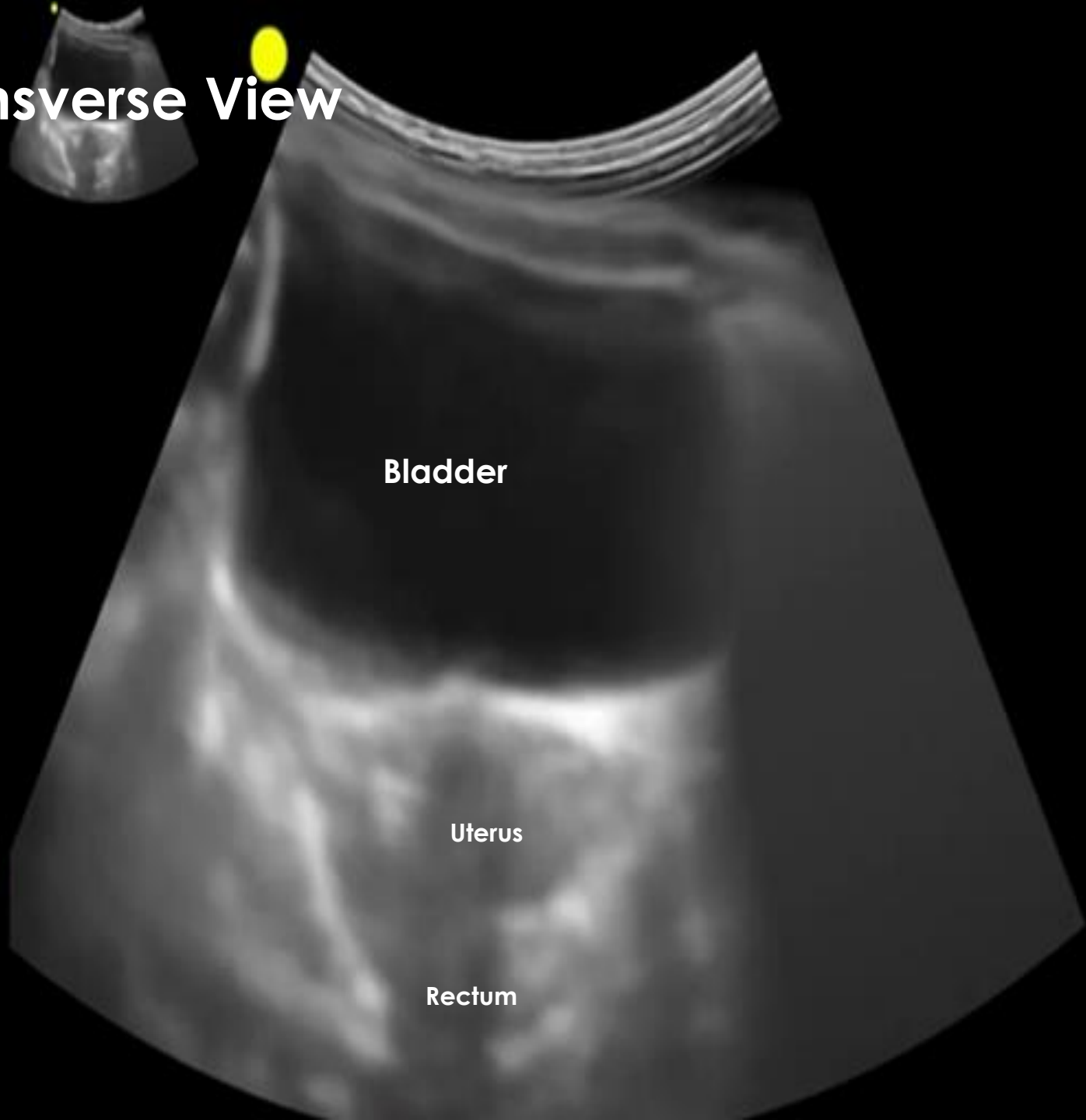
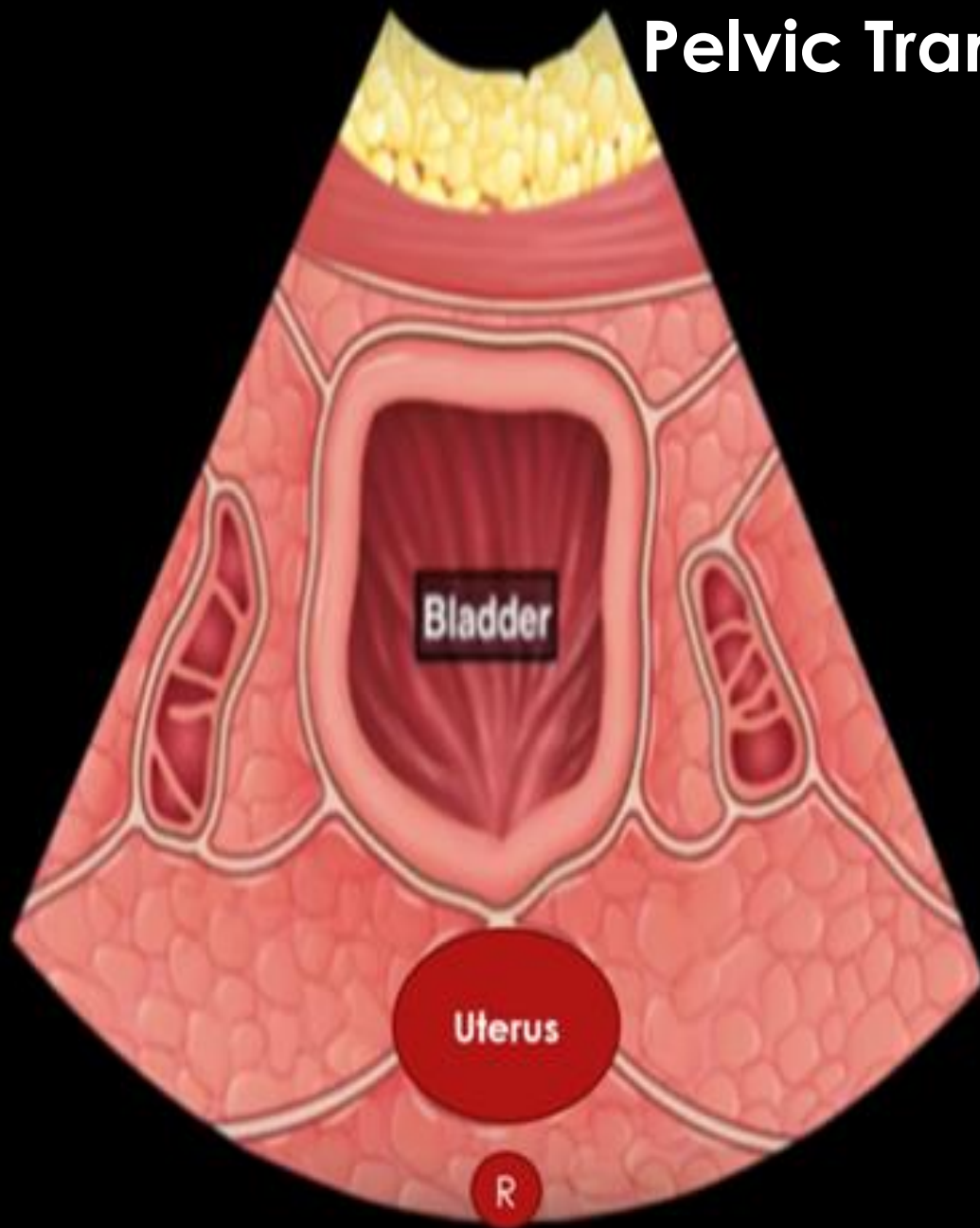
Pelvic Transverse View



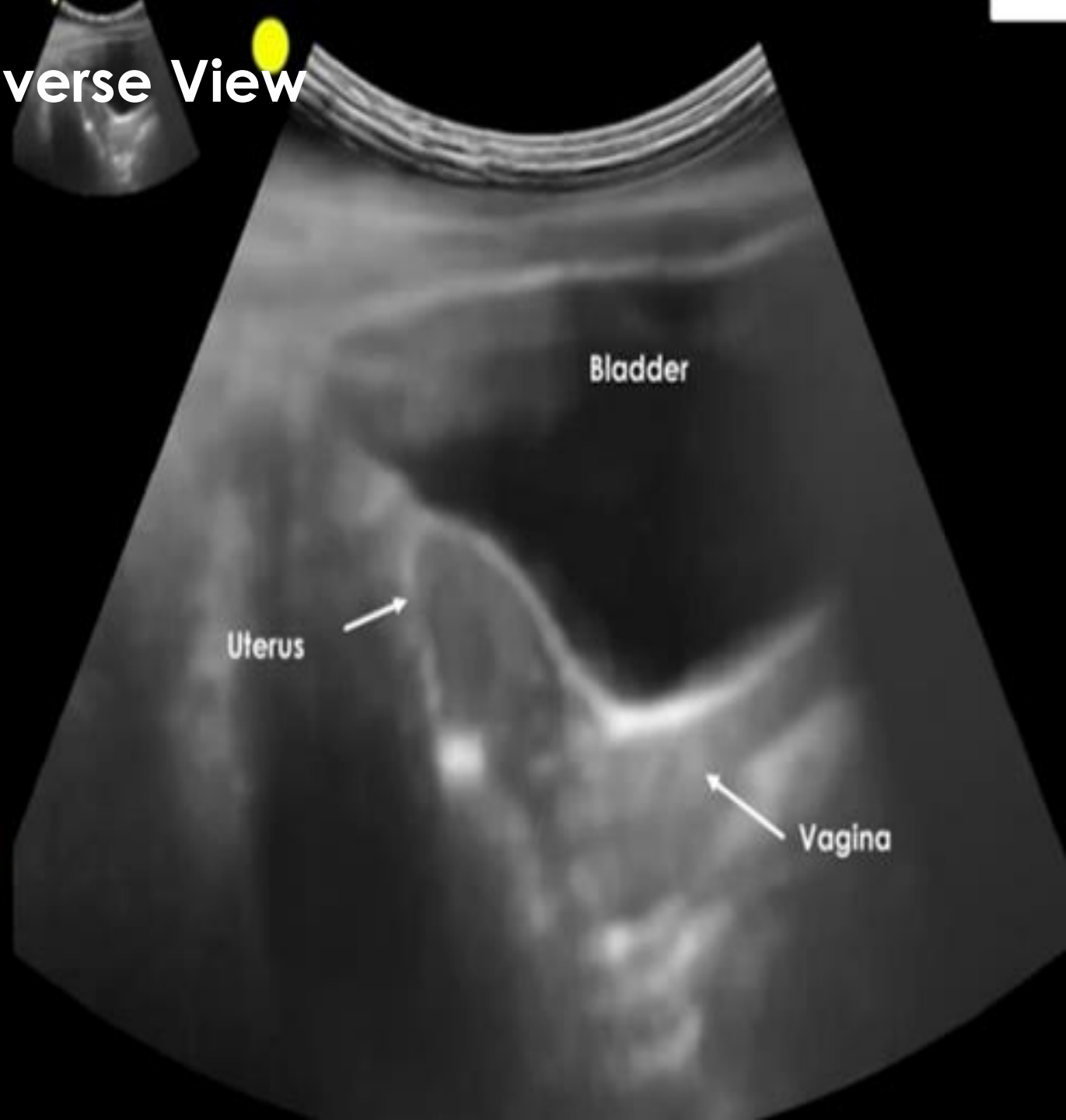
Pelvic Sagittal View

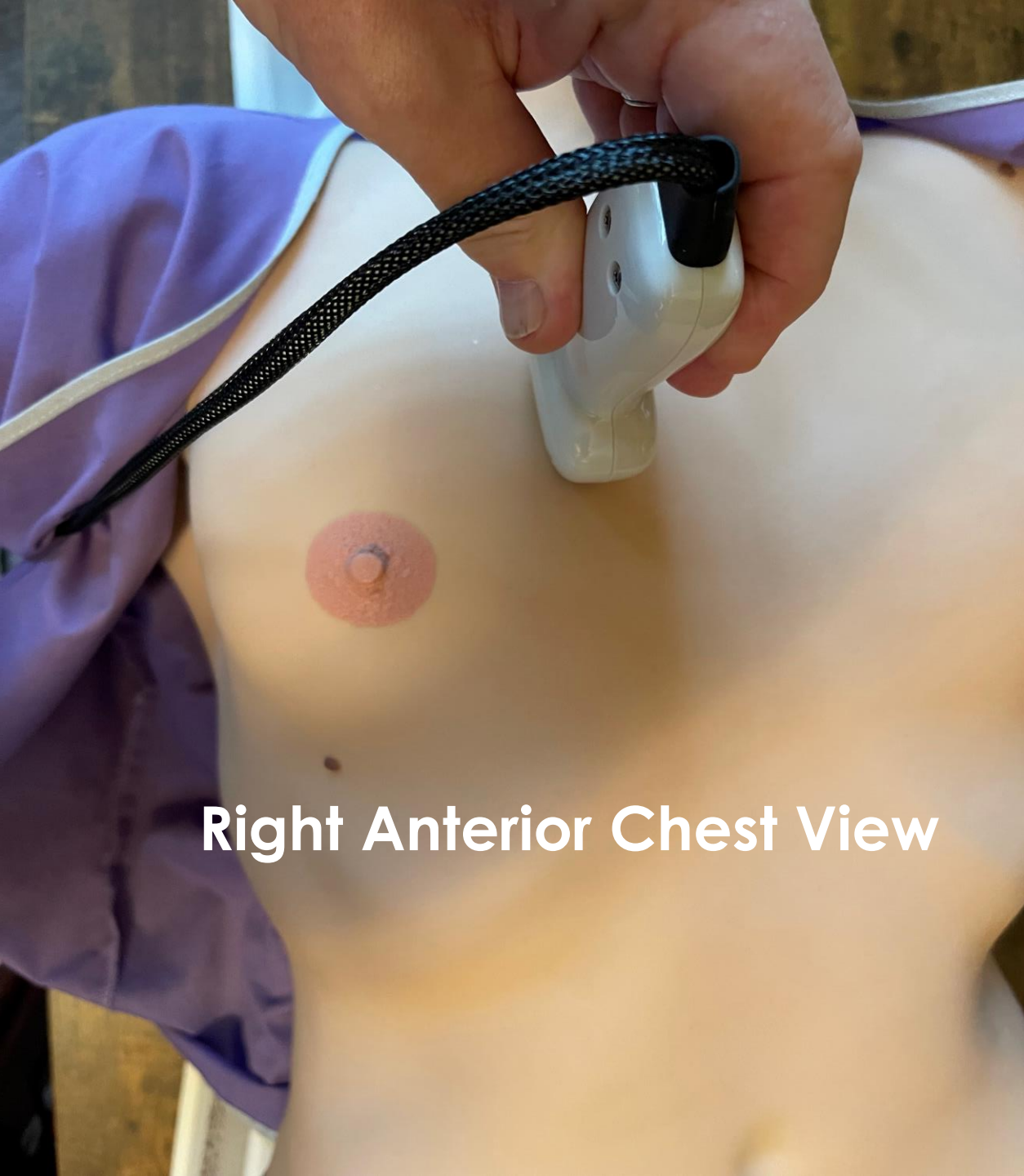


Pelvic Transverse View

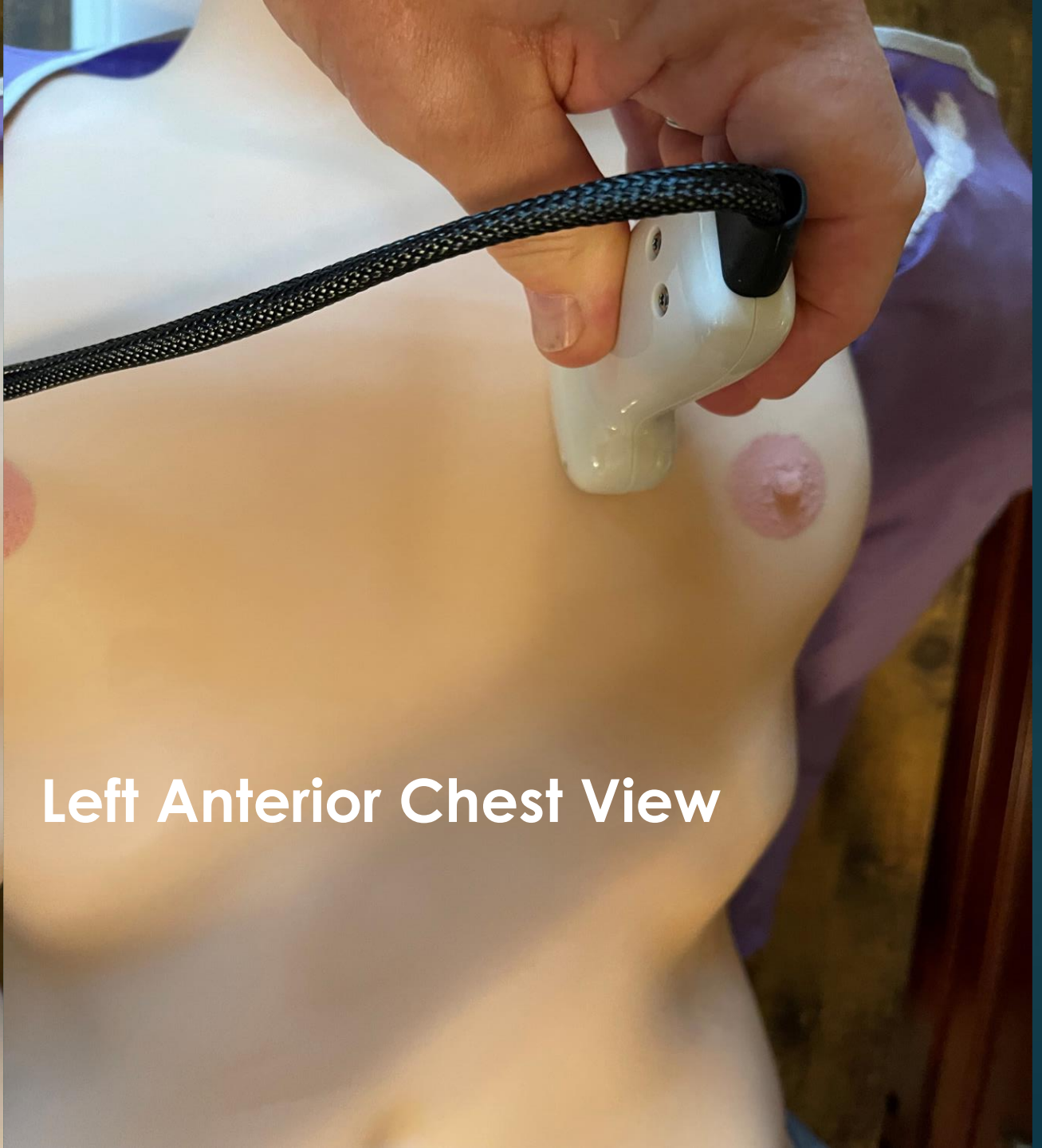


Pelvic Transverse View



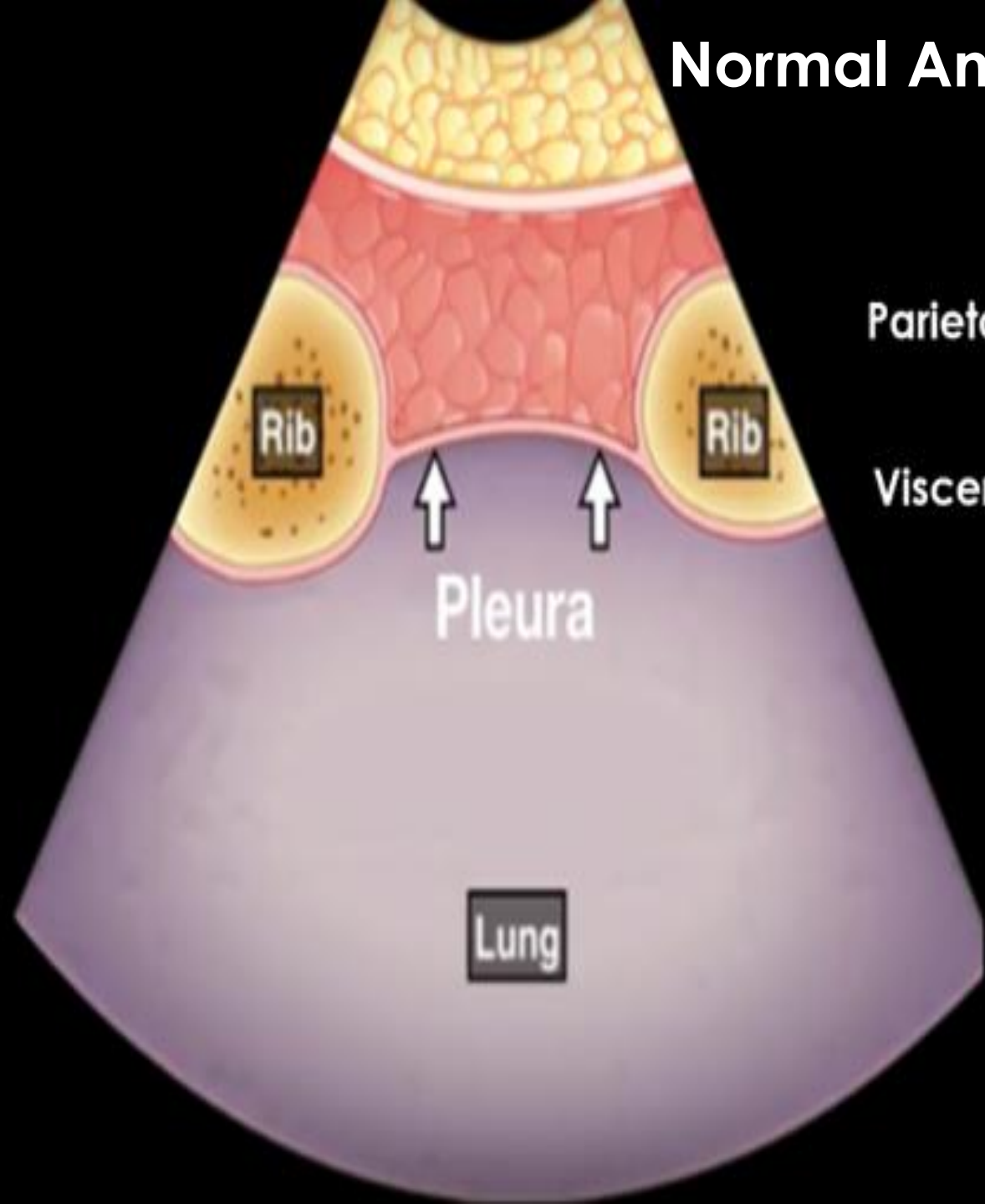


Right Anterior Chest View



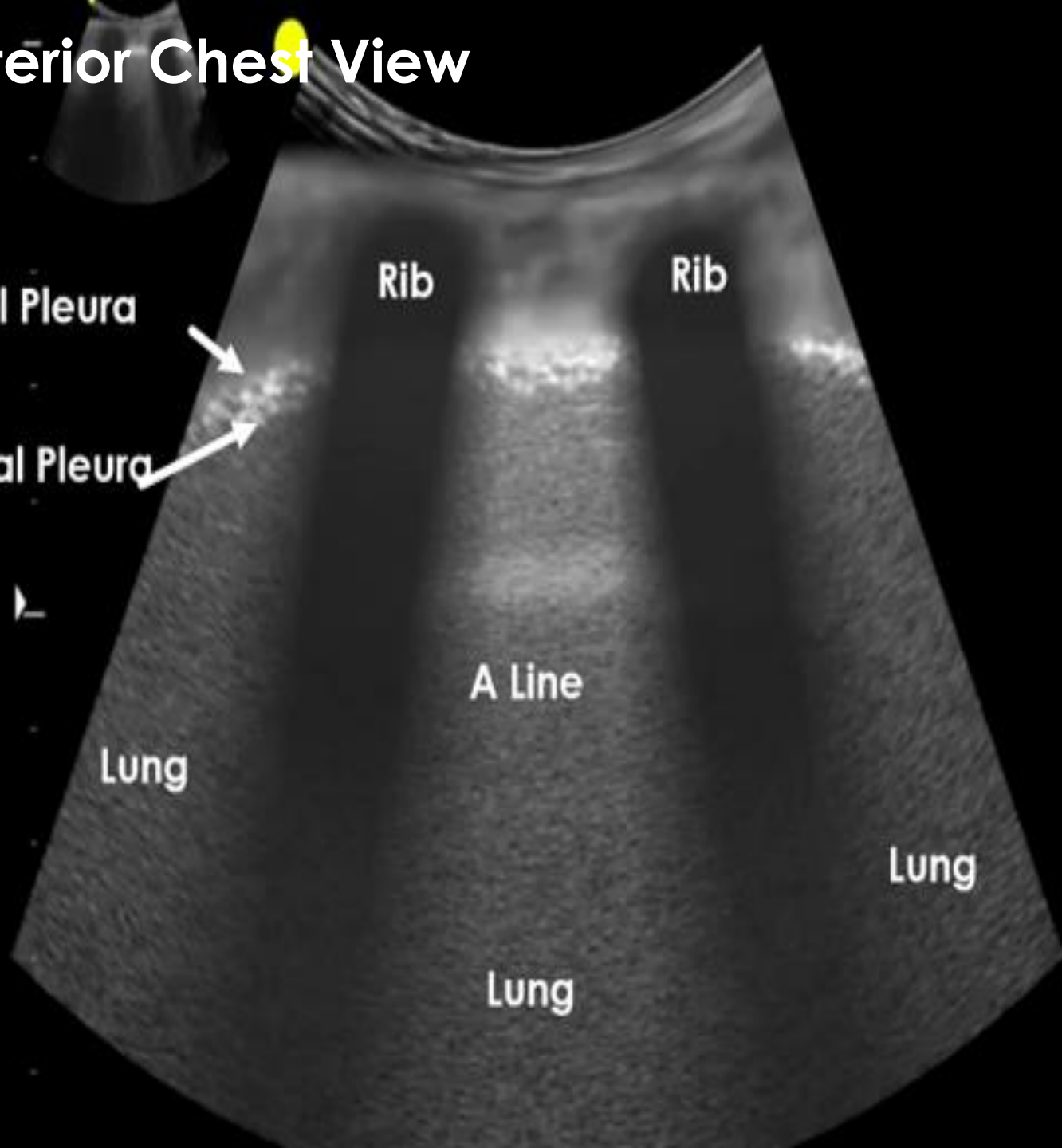
Left Anterior Chest View

Normal Anterior Chest View



Parietal Pleura

Visceral Pleura



Rib

Rib

A Line

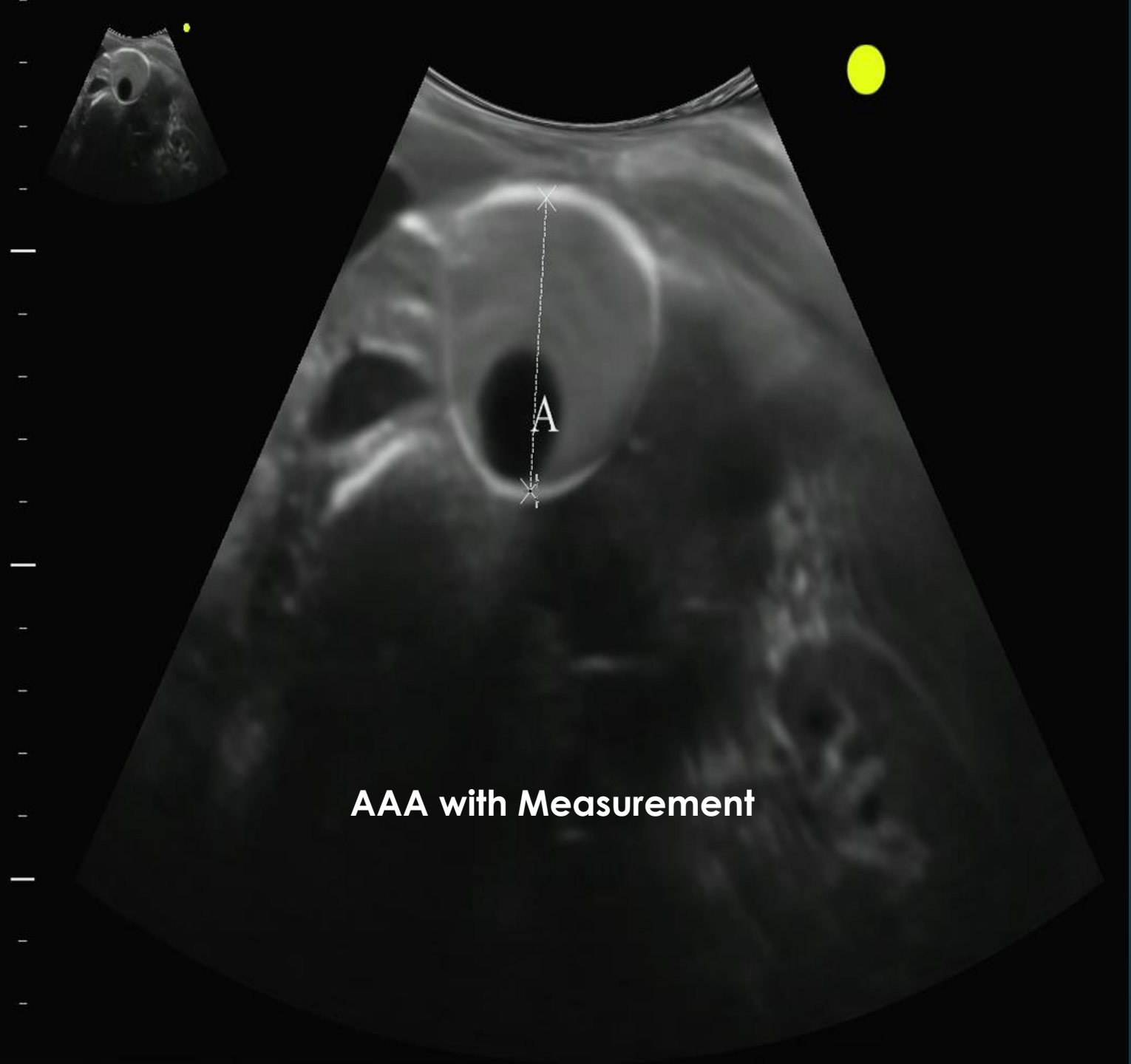
Lung

Lung

Lung

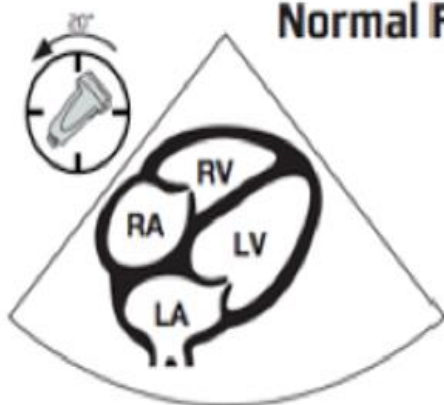


Abdominal Aorta Scan

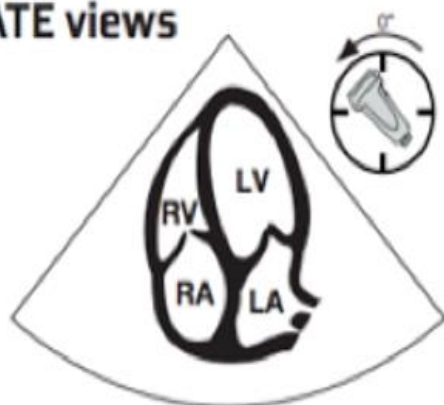


AAA with Measurement

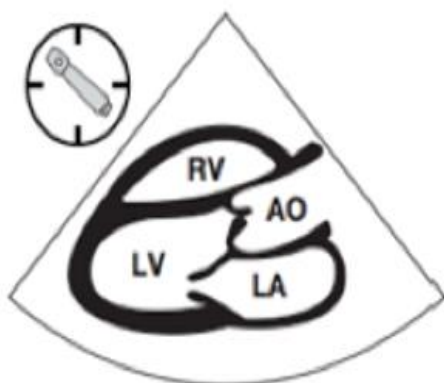
Normal FATE views



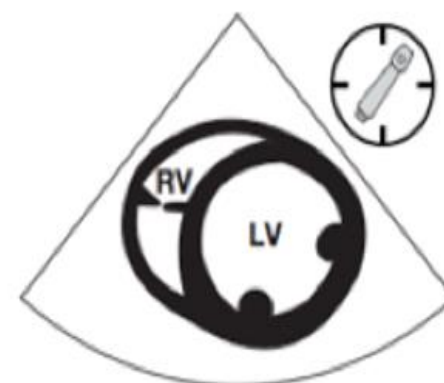
Pos 1: Subcostal 4-chamber



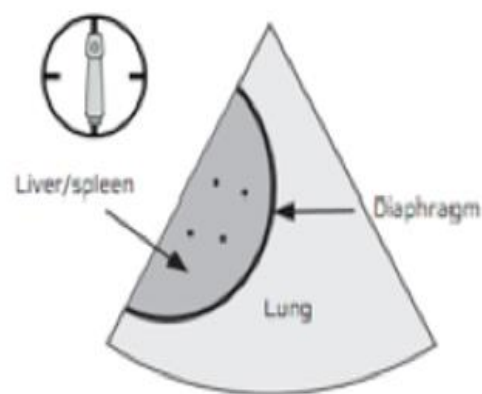
Pos 2: Apical 4-chamber



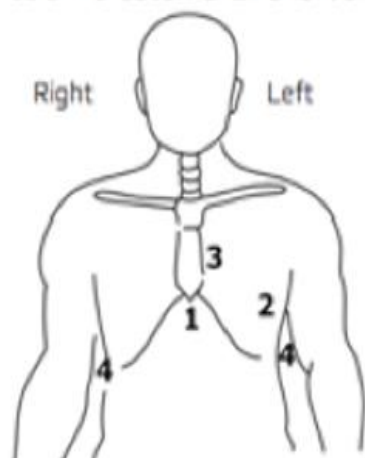
Pos 3: Parasternal long axis



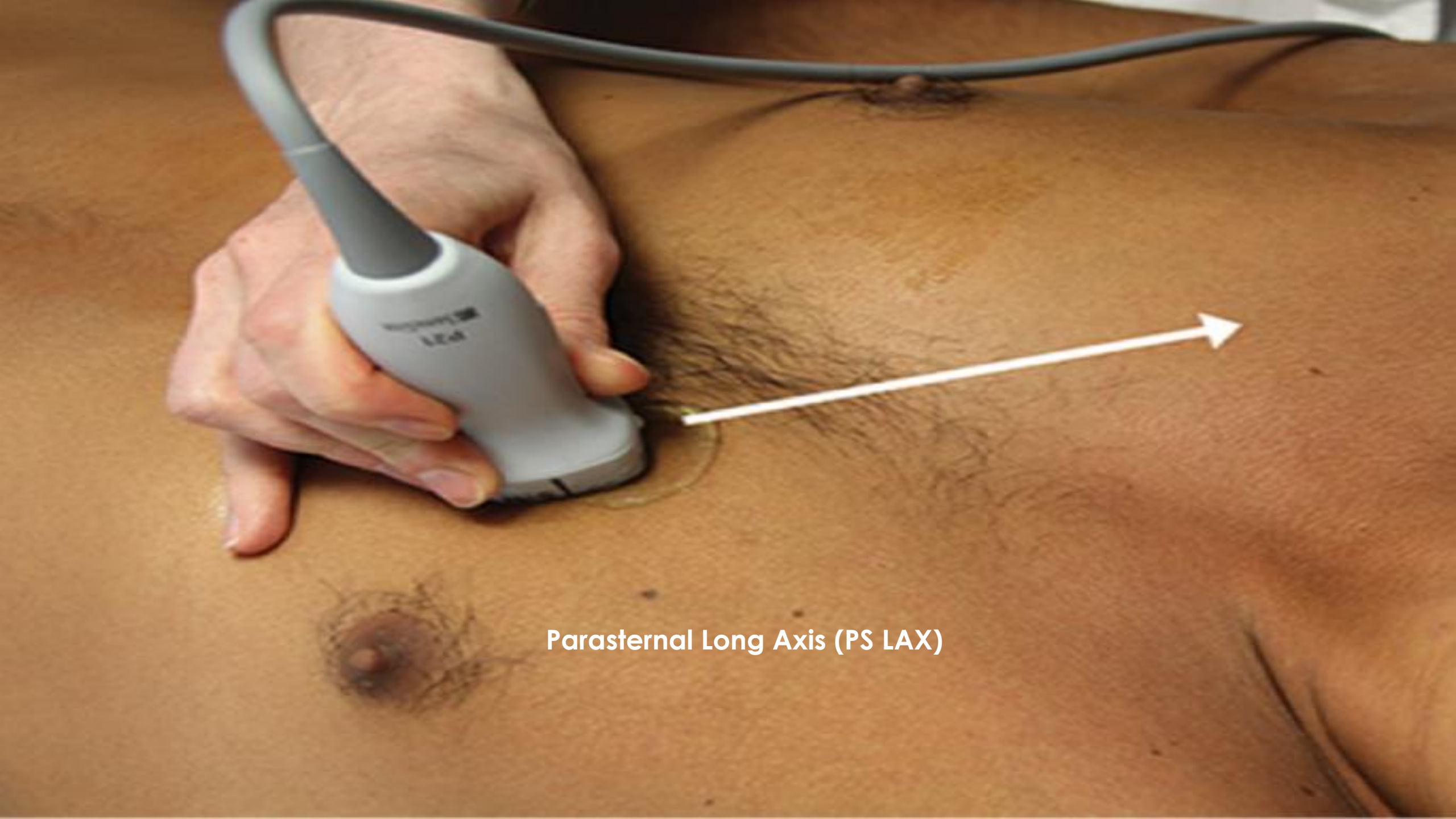
Pos 3: Parasternal LV short axis



Pos 4: Pleural scanning



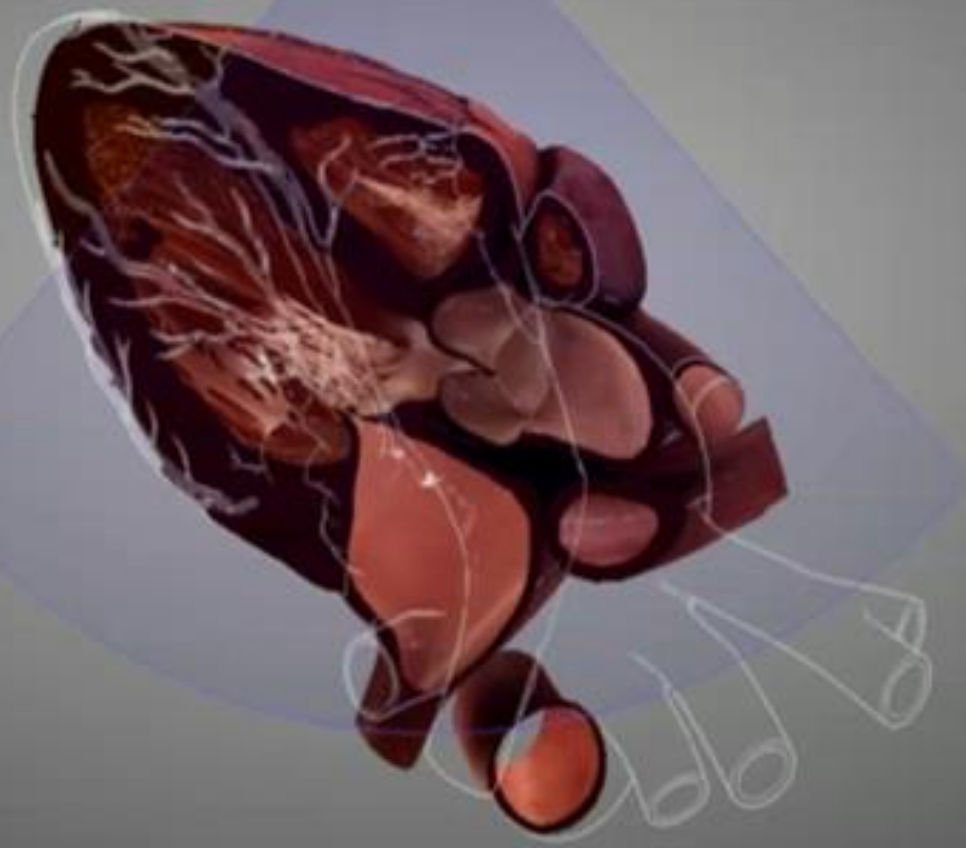
	Normal basic FATE views	Normal basic FATE views	Examples of important pathology
Pos 1: Subcostal 4-chamber	Normal basic FATE view 	Normal basic FATE view 	Pericardial effusion
Pos 2: Apical 4-chamber	Normal basic FATE view 	Normal basic FATE view 	Dilated LV
Pos 3: Parasternal long axis	Normal basic FATE view 	Normal basic FATE view 	Hypertrophy LV + Dilated LA
Pos 3: Parasternal short axis	Normal basic FATE view 	Normal basic FATE view 	Dilated right ventricle
Pos 4: Pleural scanning	Normal basic FATE view 	Normal basic FATE view 	Pleural effusion



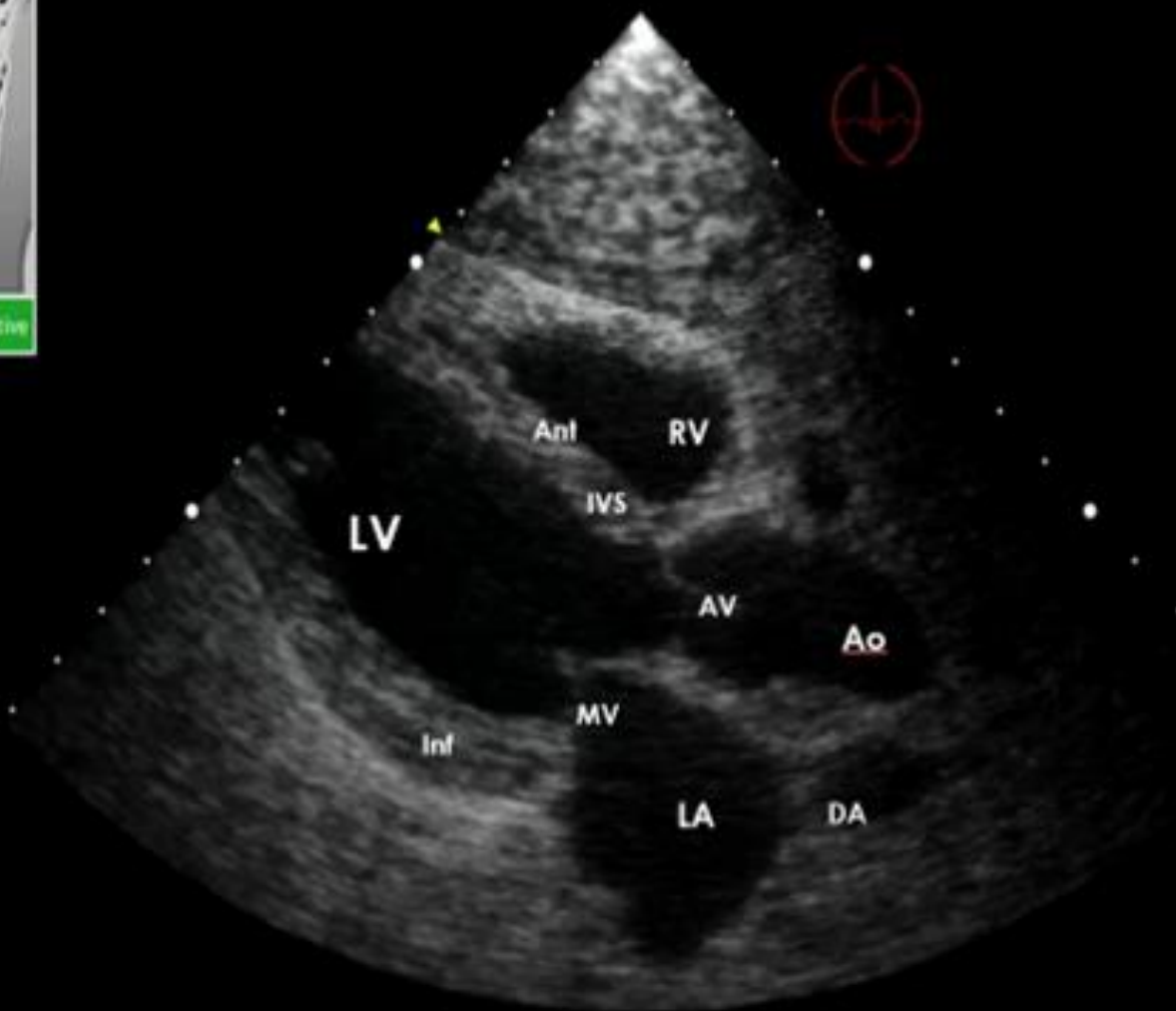
Parasternal Long Axis (PS LAX)



Pericardial effusion
LV function/wall motion
Chamber/ventricle
dimensions
Wall motion/filling
Mitral/aortic valve Dz
Pleural effusion



Parasternal Long Axis (PS LAX)



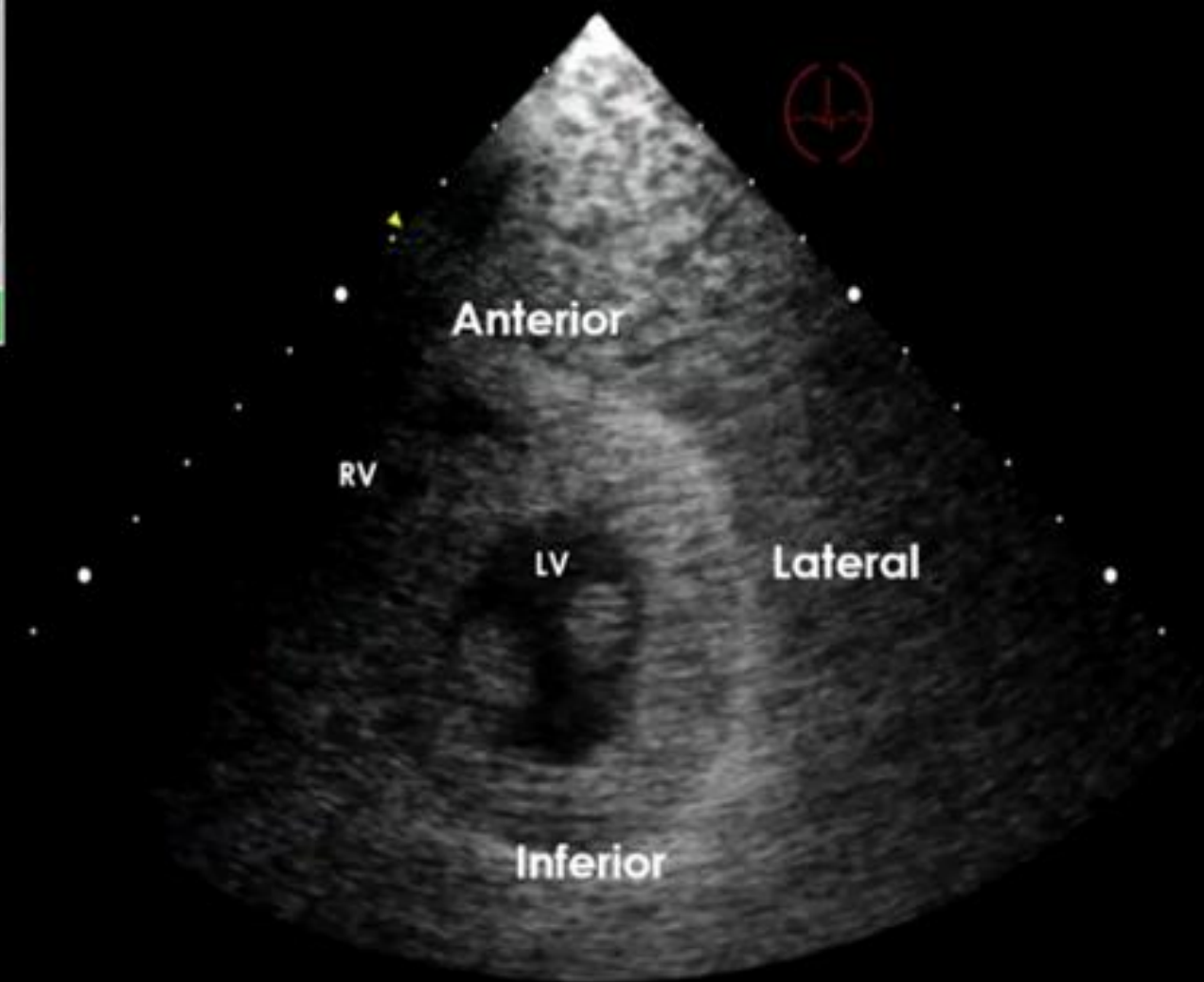


Parasternal Short Axis (PS SAX)

Pericardial effusion
LV/RV function
Wall motion/filling



Parasternal Short Axis (PS SAX)



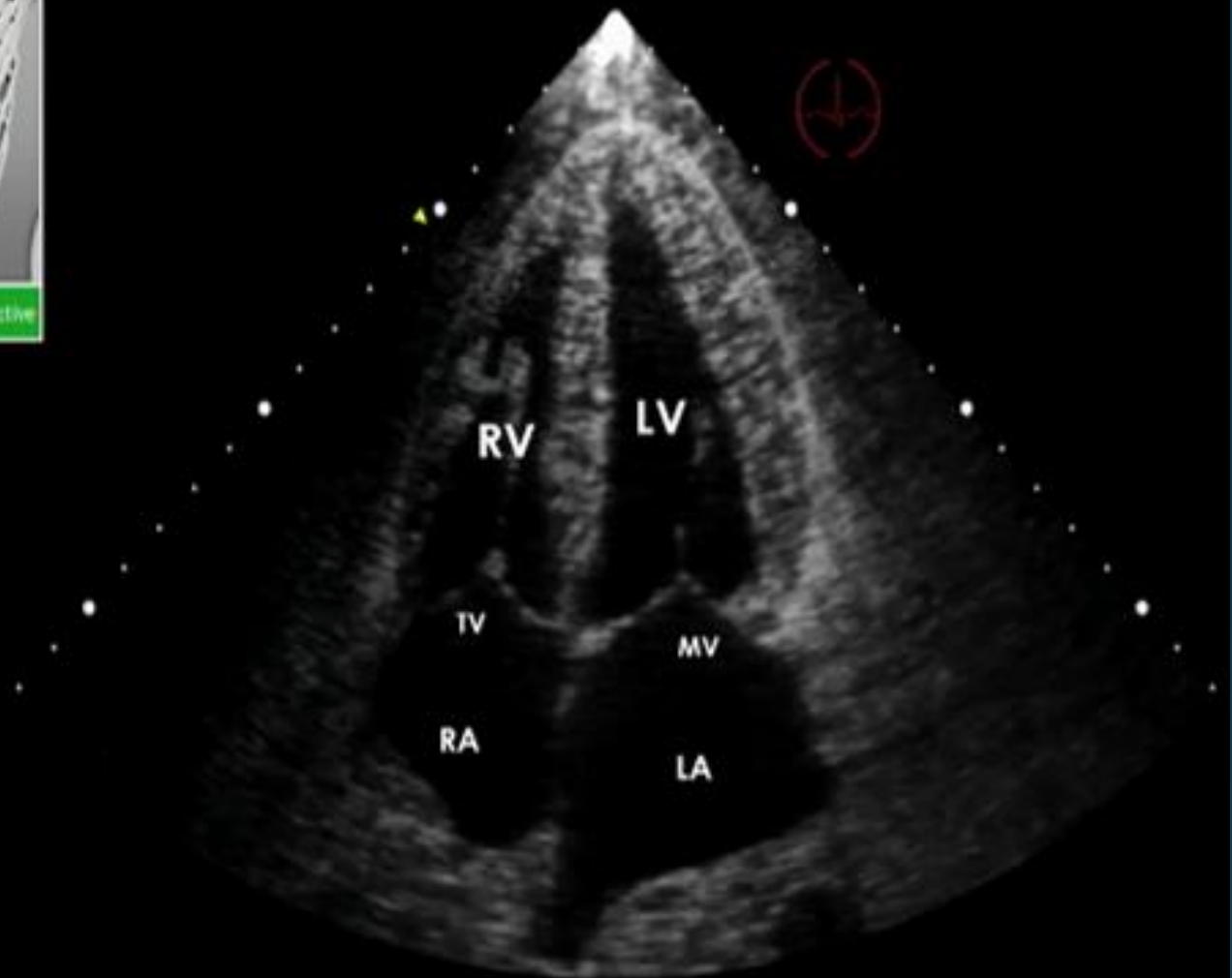


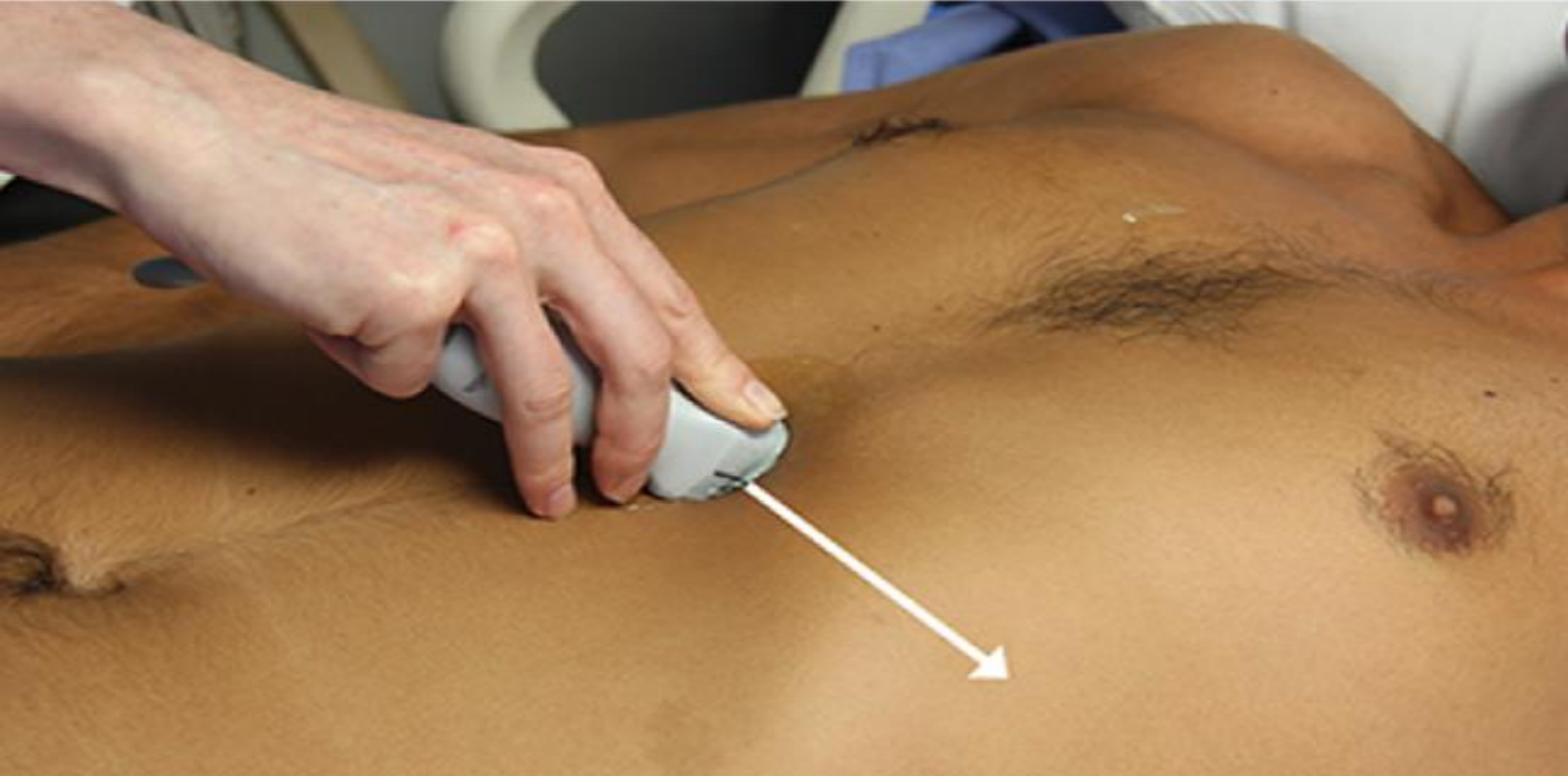
Apical Four Chamber

Pericardial effusion
LV/RV function
Wall motion/filling
MR/TR/ASD



Apical Four Chamber (Apical 4)



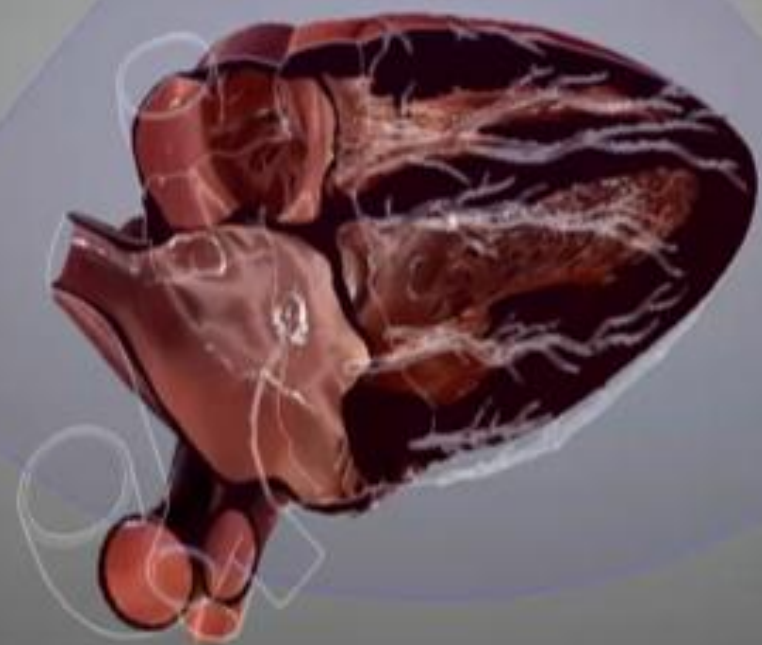
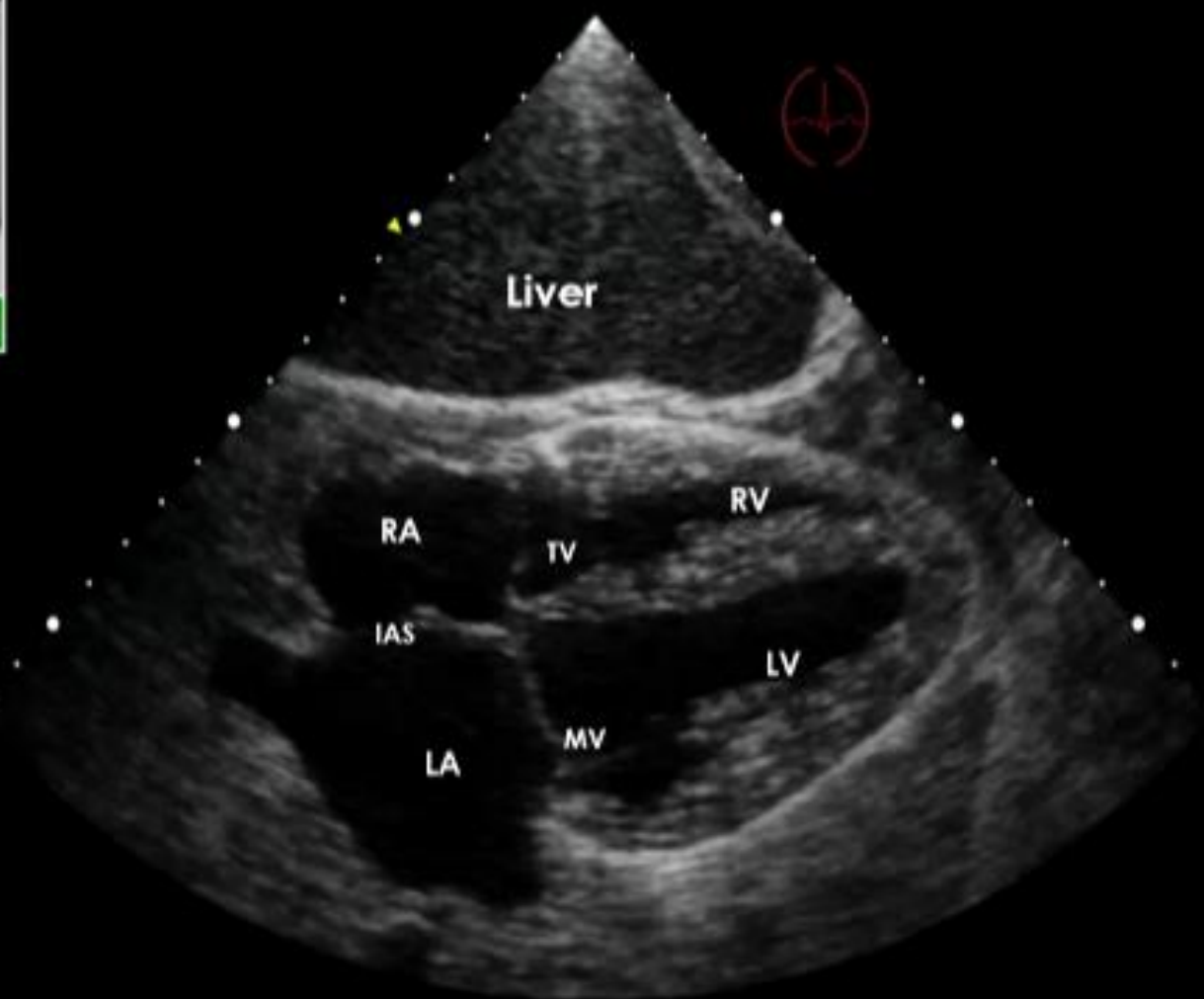


Subcostal Four Chamber View

Pericardial effusion
LV/RV function
Wall motion/filling
MR/TR/ASD



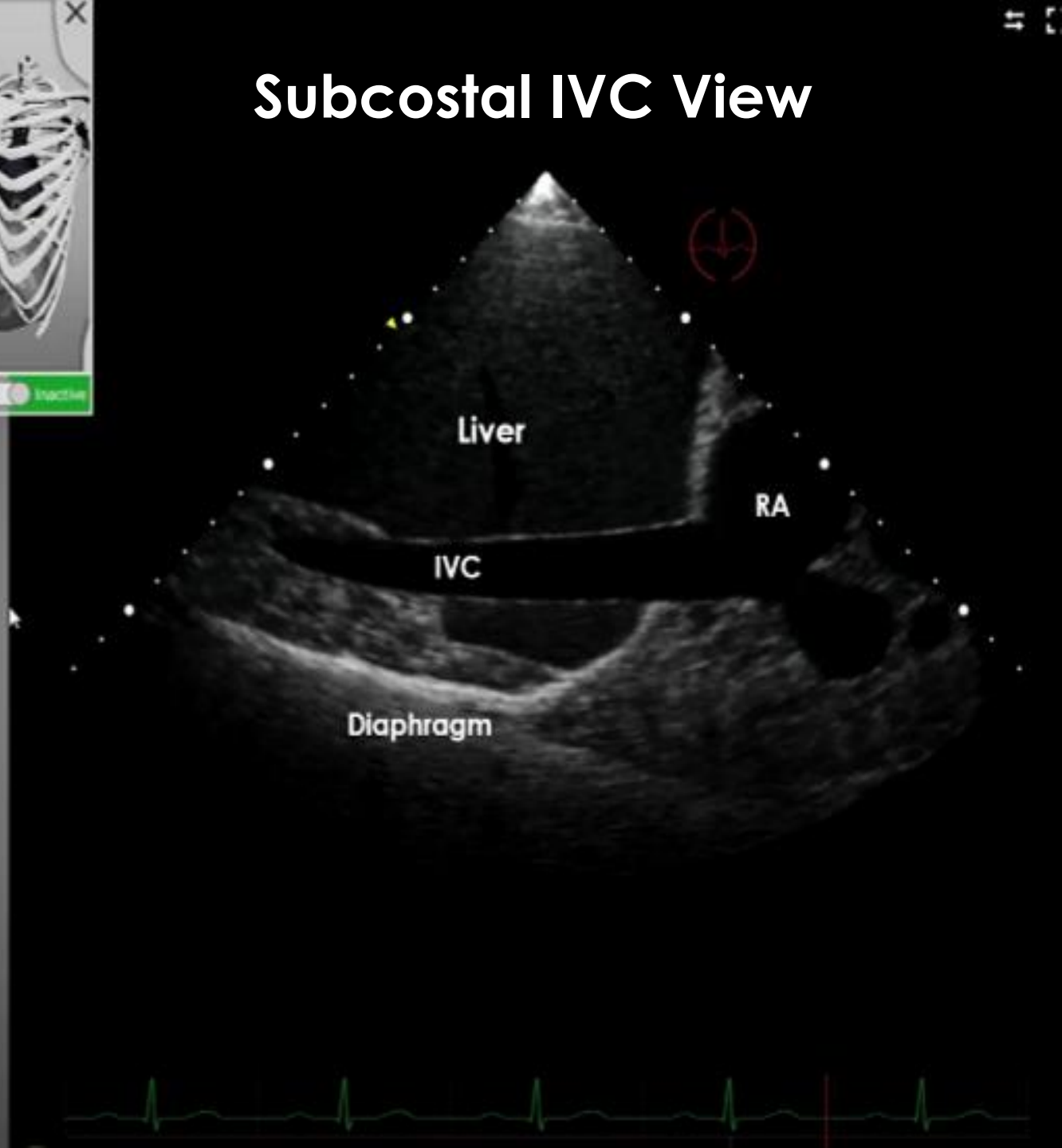
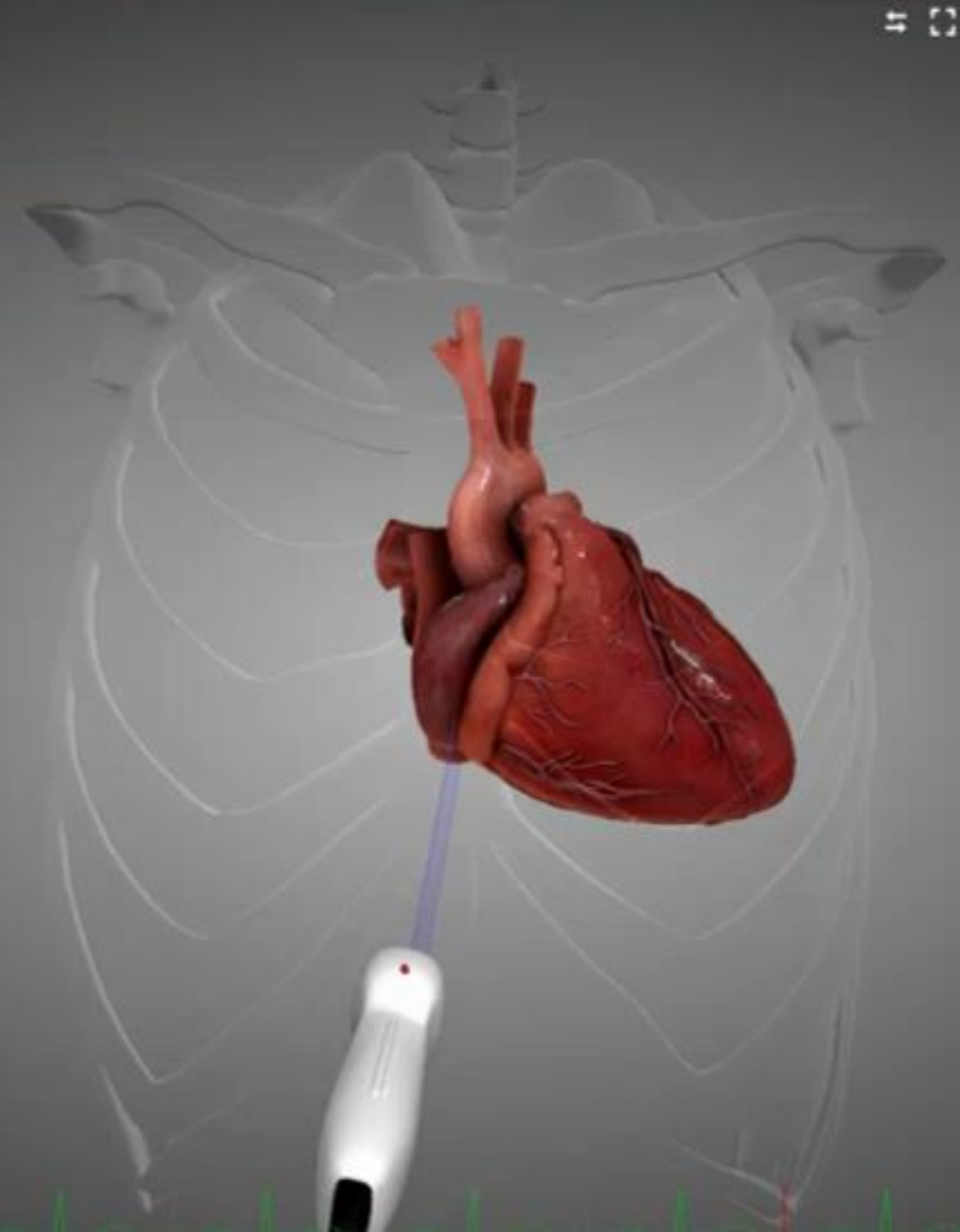
Subcostal Four Chamber (SC 4)



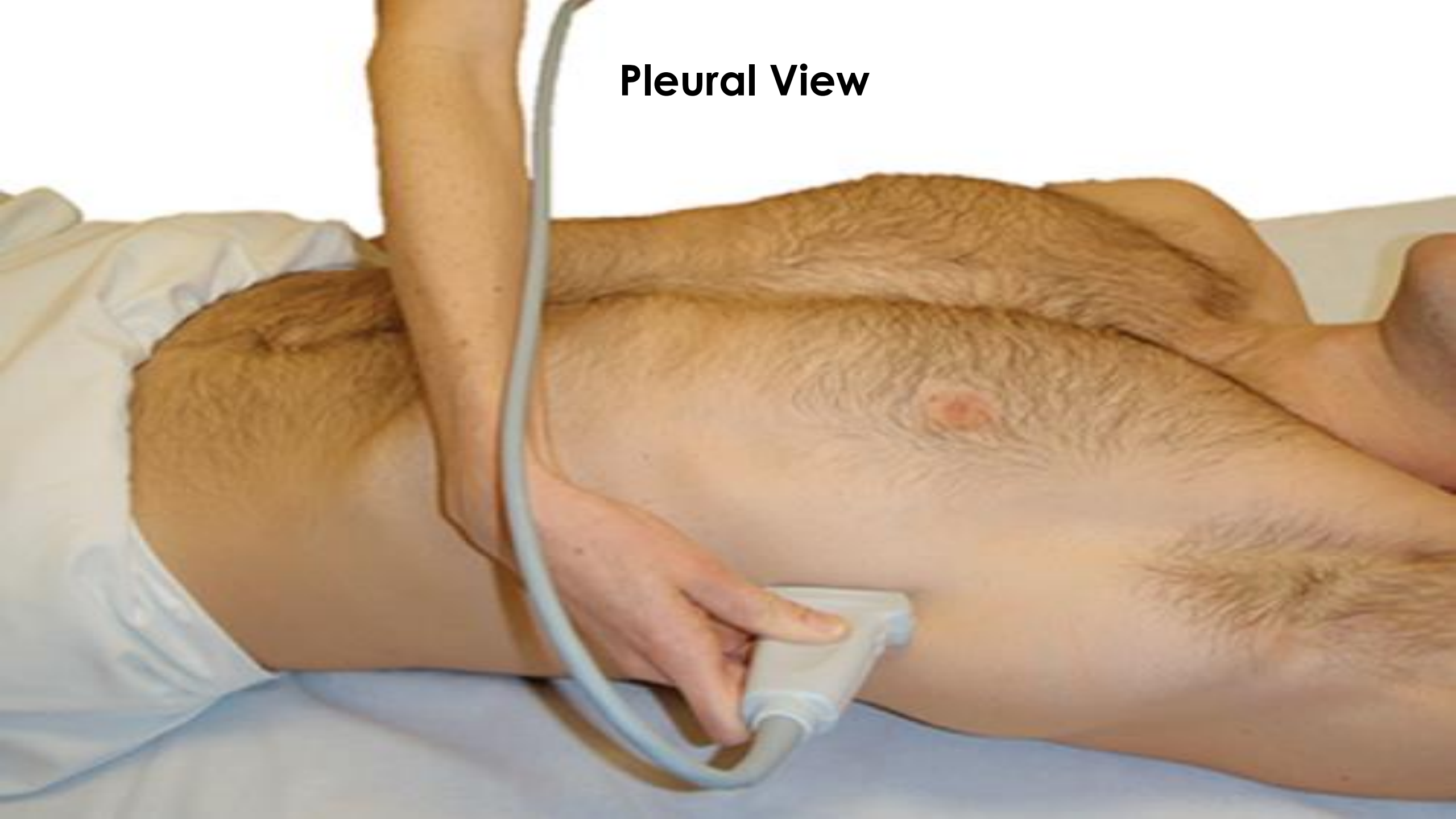


Subcostal IVC View

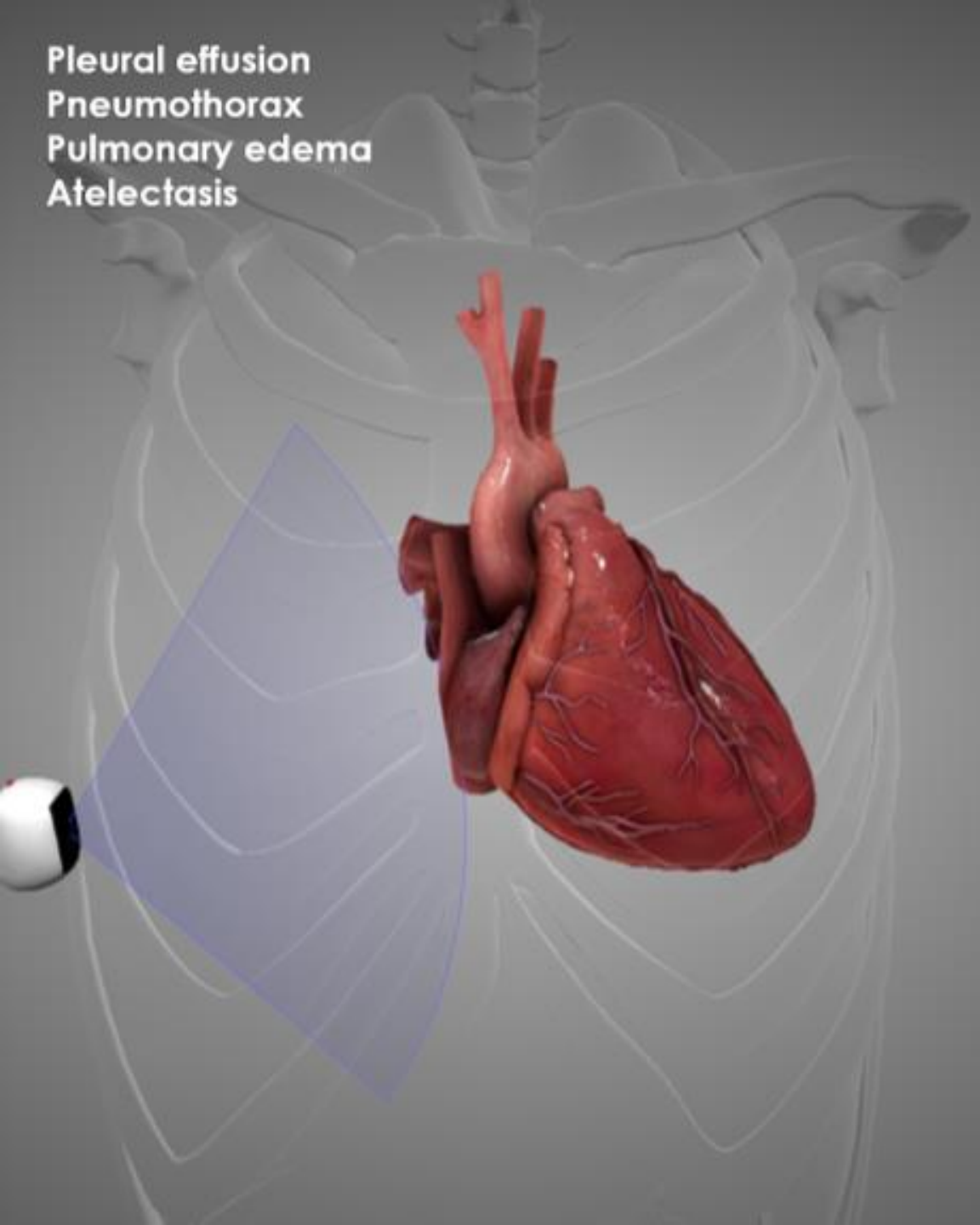
Subcostal IVC View



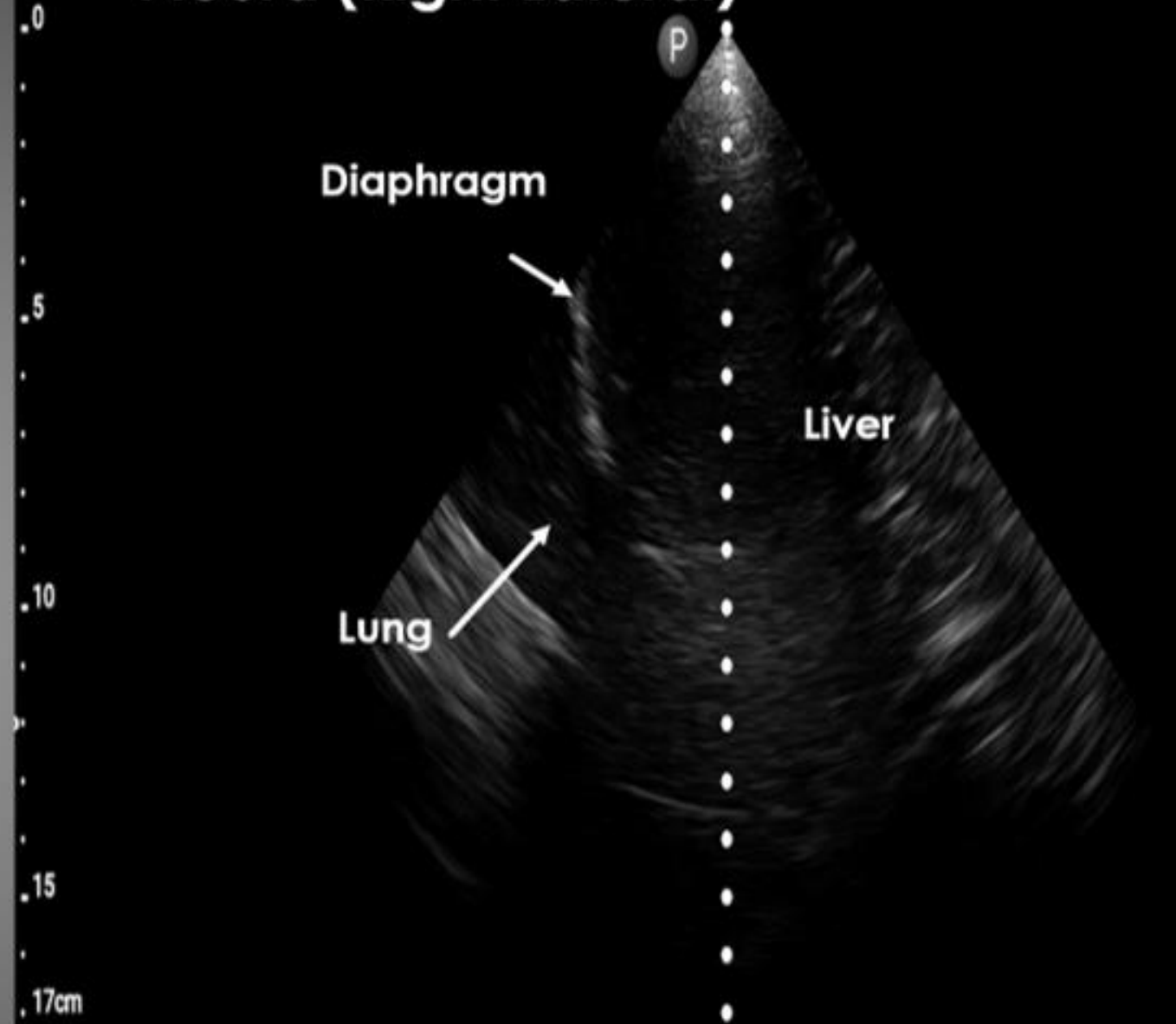
Pleural View



Pleural effusion
Pneumothorax
Pulmonary edema
Atelectasis



Pleura (Right Lateral)





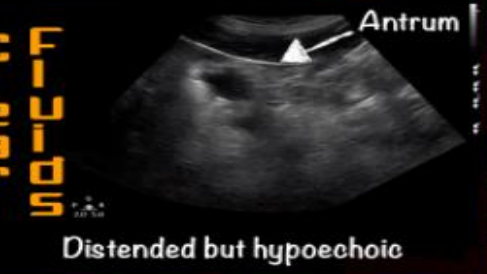
SUPINE



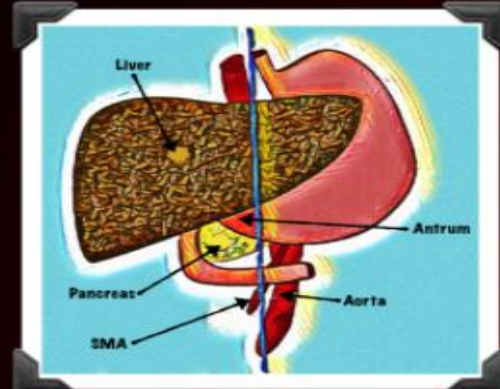
Grade 0



FLUIDS



Grade 1



SOLIDS



Grade 2

Gastric Ultrasound

Ultrasound Cheats

Gastric Volume
 $Vol (ml) = 27 + 14.6 \times RLD - CSA - 1.28 \times age$



SOLIDS



Grade 2



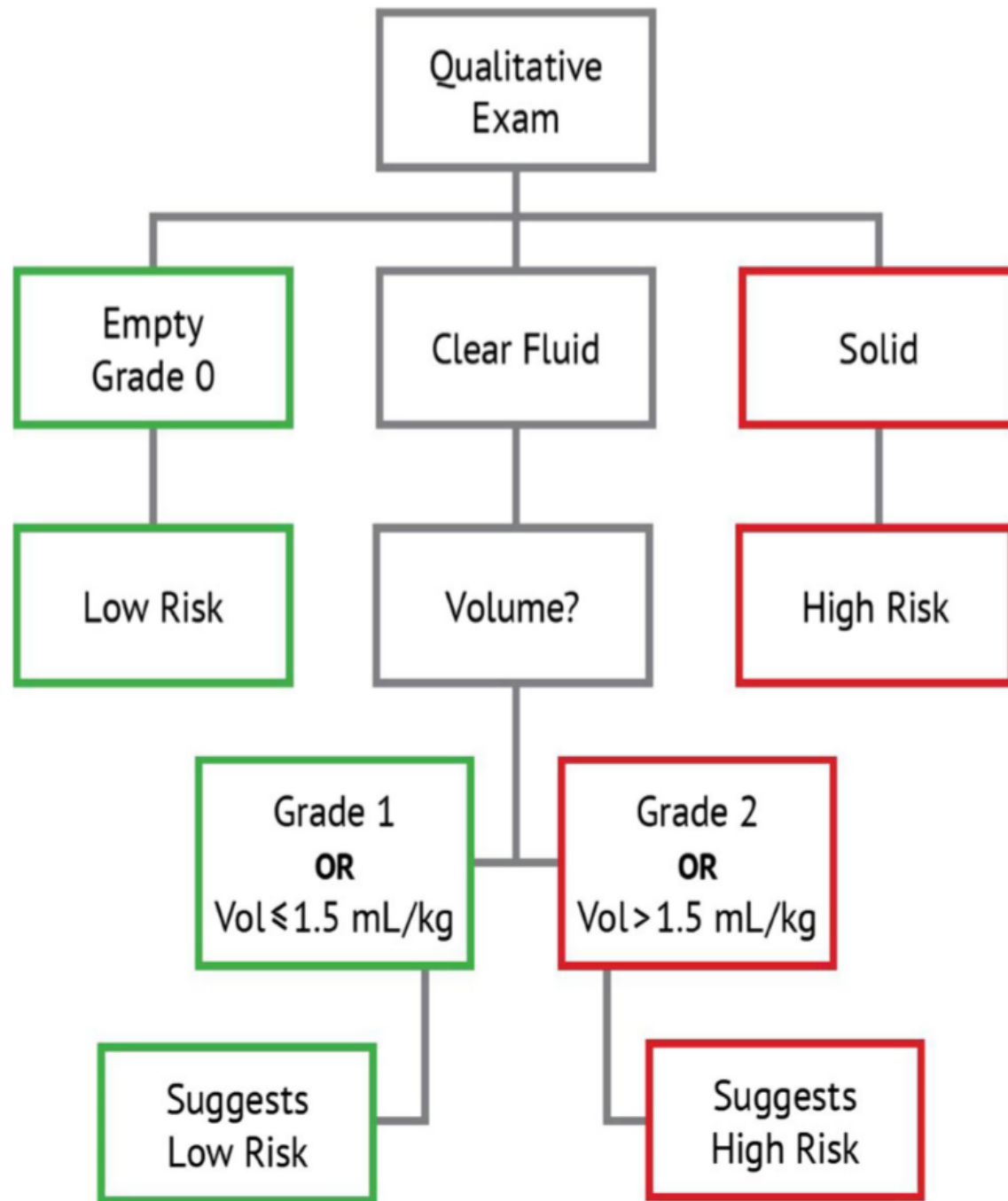
Grade	Antrum	Volume	Aspiration Risk
0	Empty supine + ELP	Minimal	Low
1	Empty Supine but clear fluid ELP	<1.5ml/kg baseline gastric secretion	Low
2	Clear fluid in both positions	>1.5ml/kg greater than baseline secretion	High

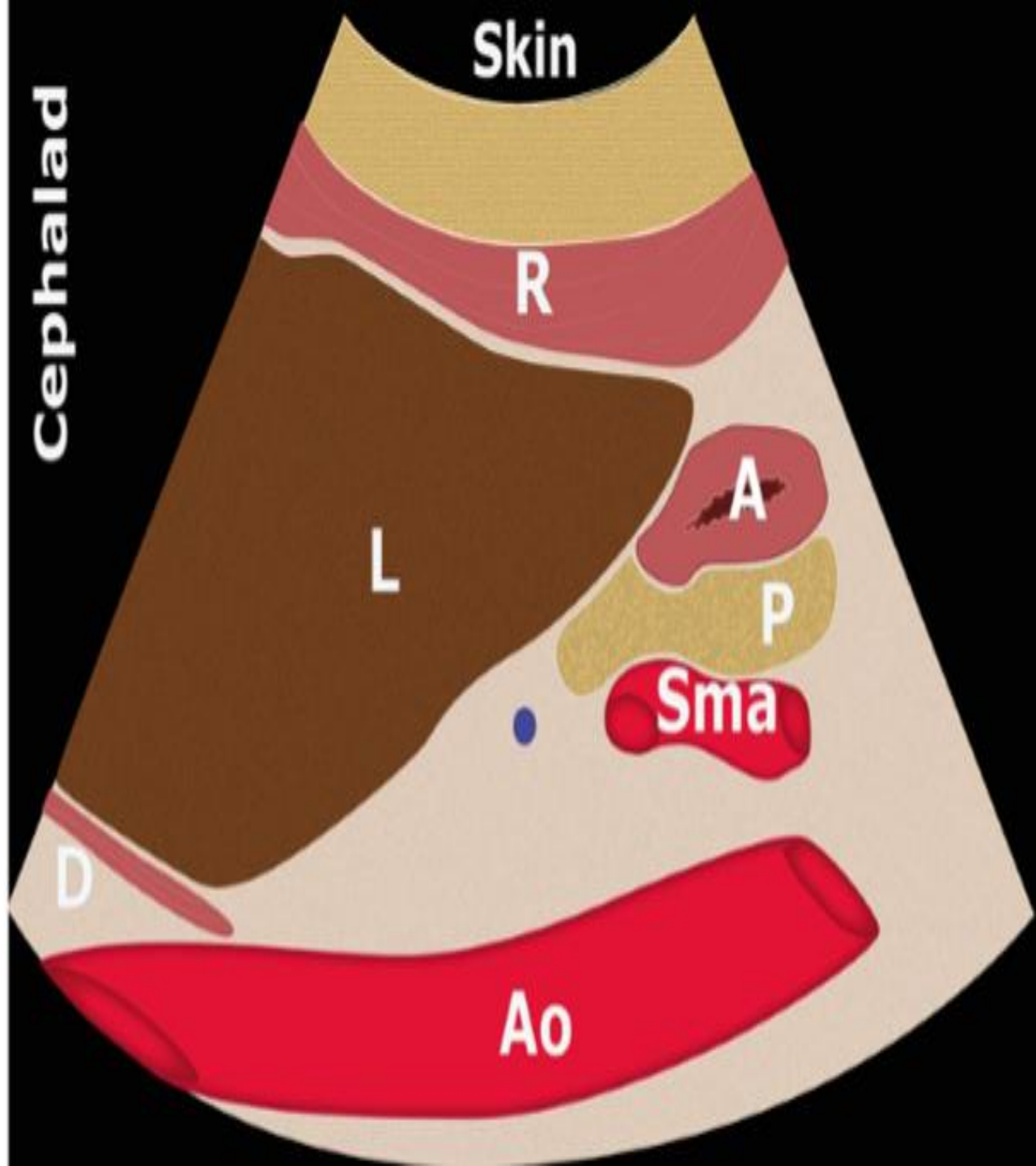
Grading and Risk!

Grade	Shape	Wall	Content
Empty	Flat / Bullseye	Thick Layers Visible	None
Solid	Round / Distended	Thin	Heterogenous / Particulate +/- air
Clear Fluid	Round / Distended	Thin	Hypoechoic
Milk	Round / Distended	Thin	Hyperechoic



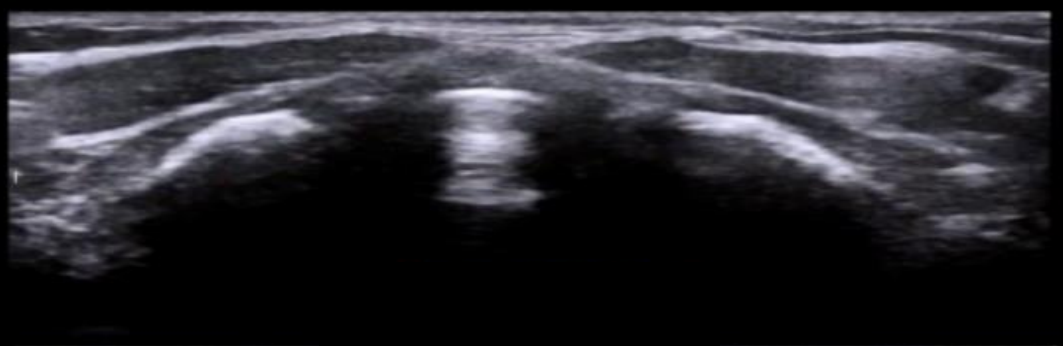
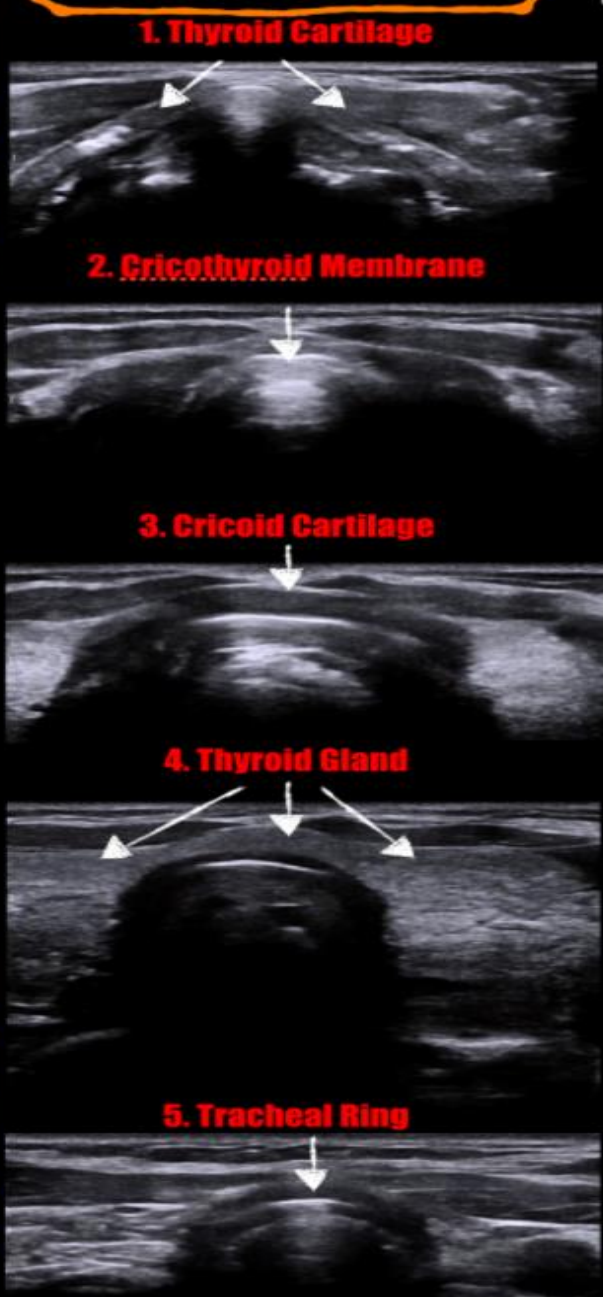
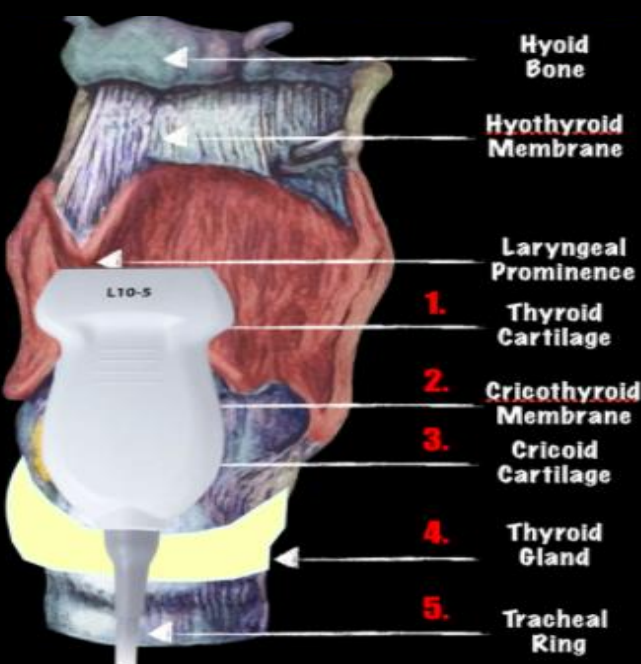
Gastric View



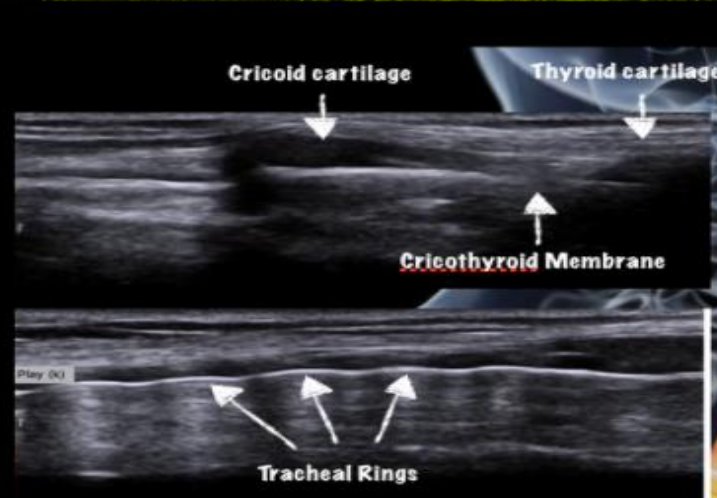


TRANSVERSE VIEWS

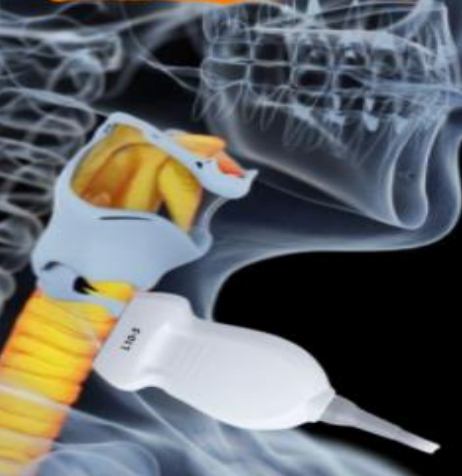
Airway Ultrasound



Move probe to left of midline

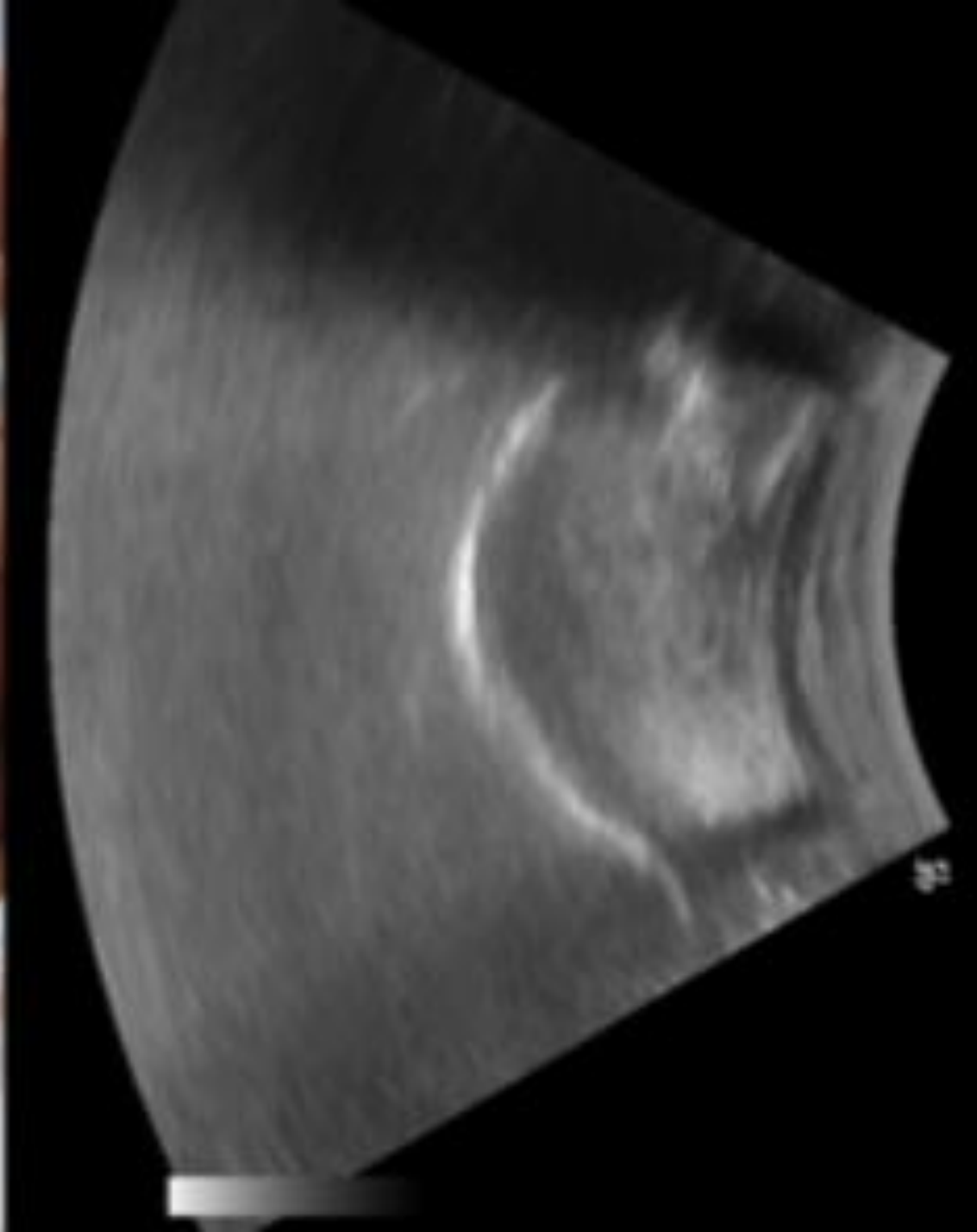


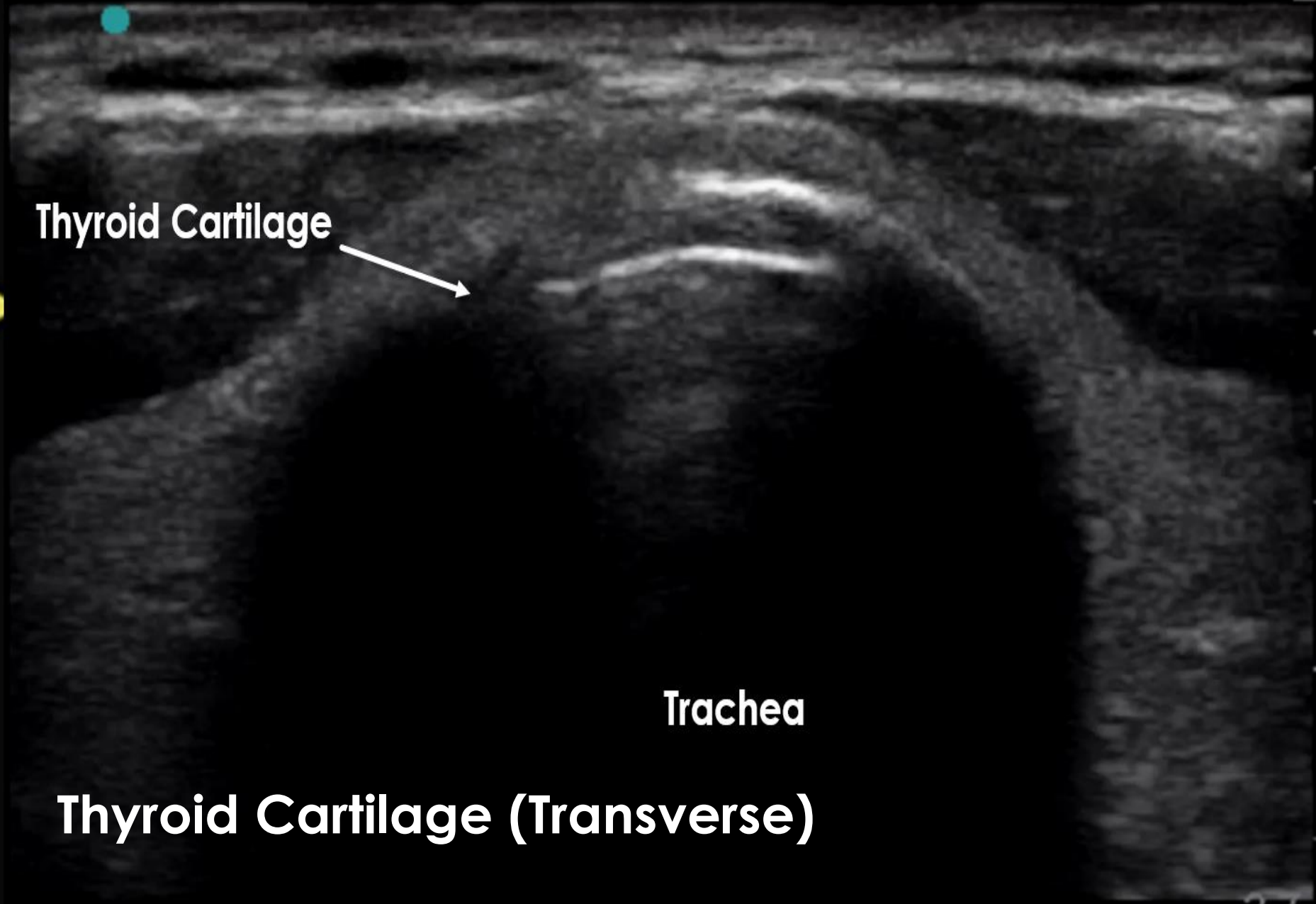
LATERAL VIEWS





Mentum to Hyoid

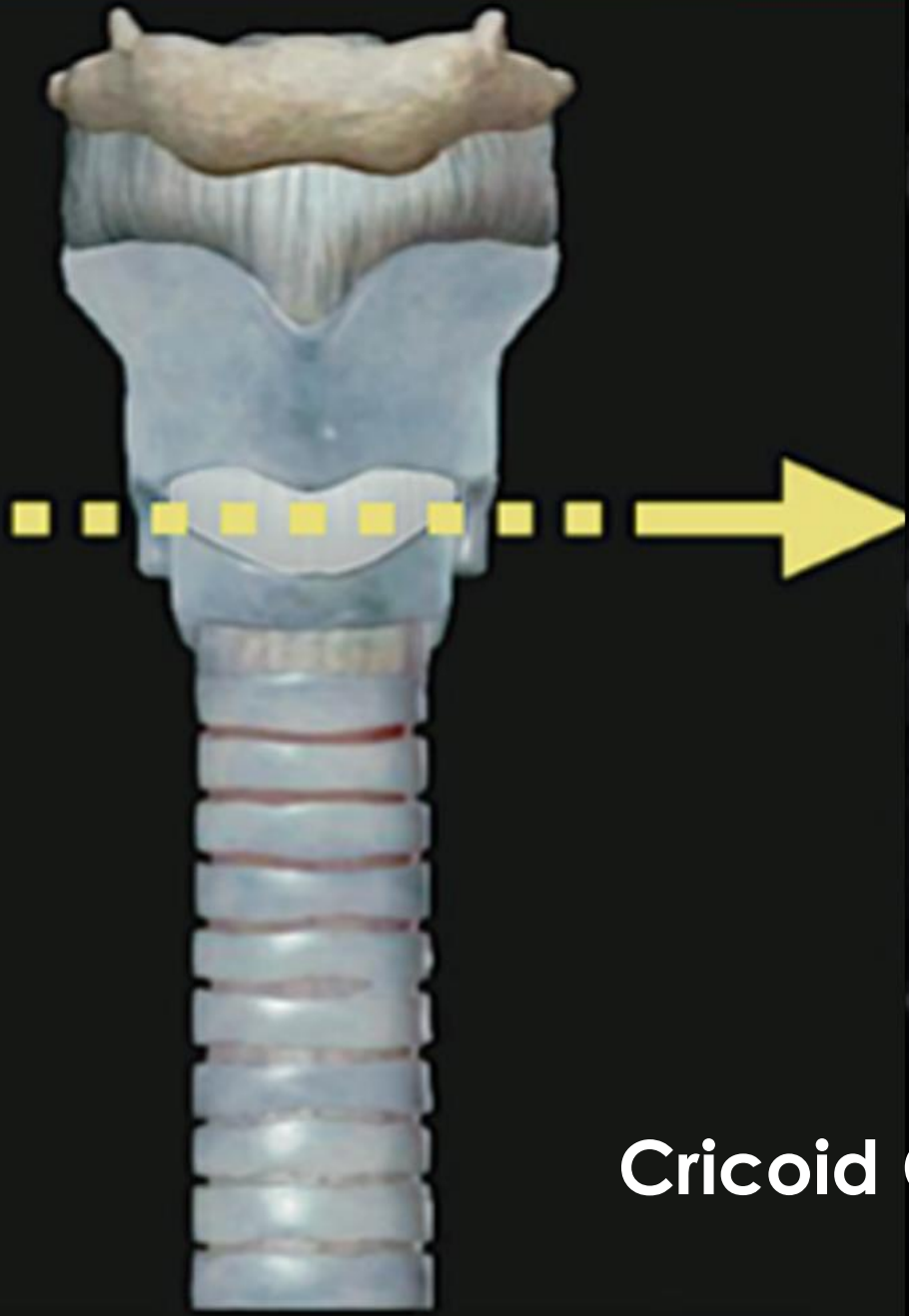




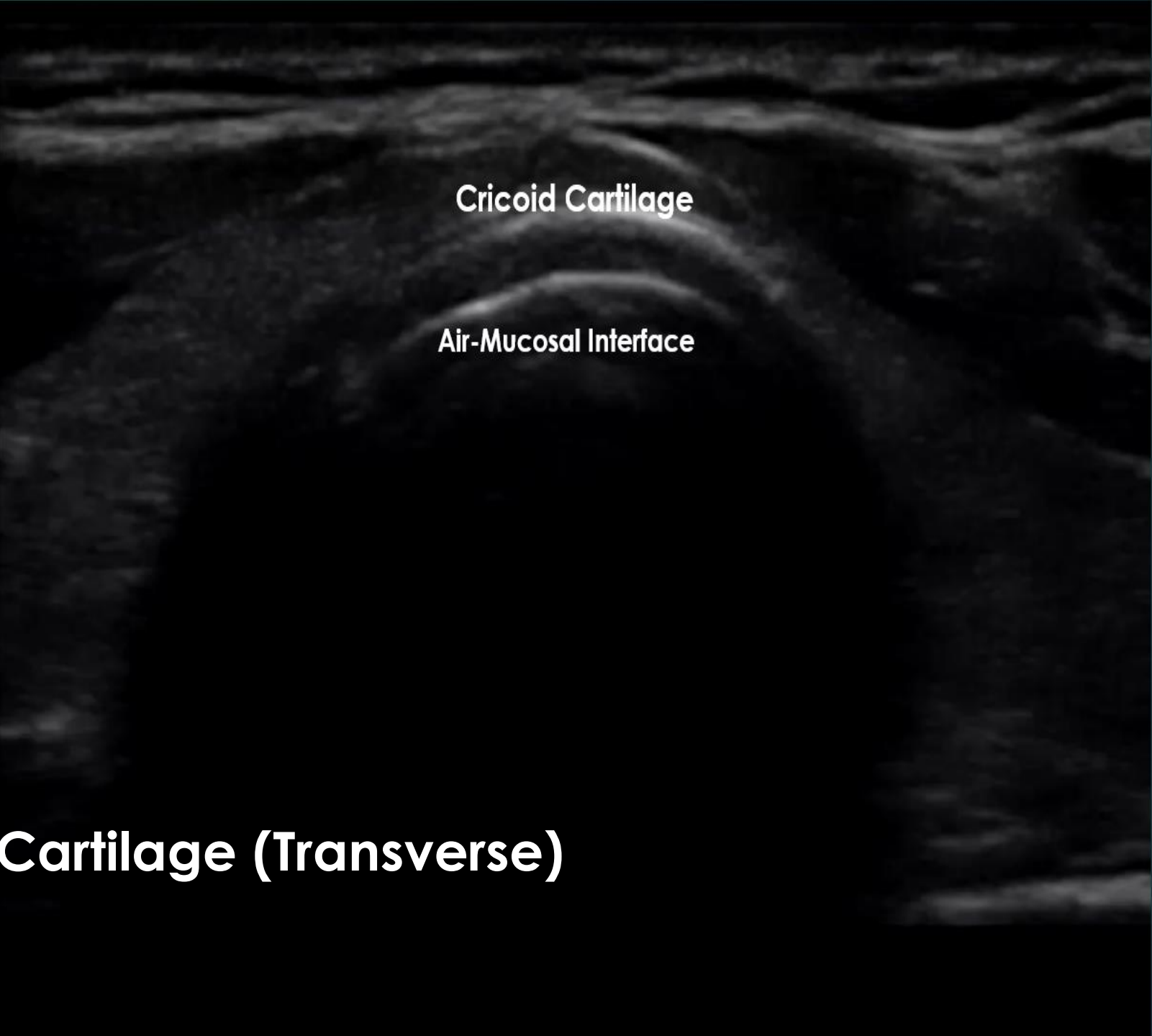
Thyroid Cartilage

Trachea

Thyroid Cartilage (Transverse)

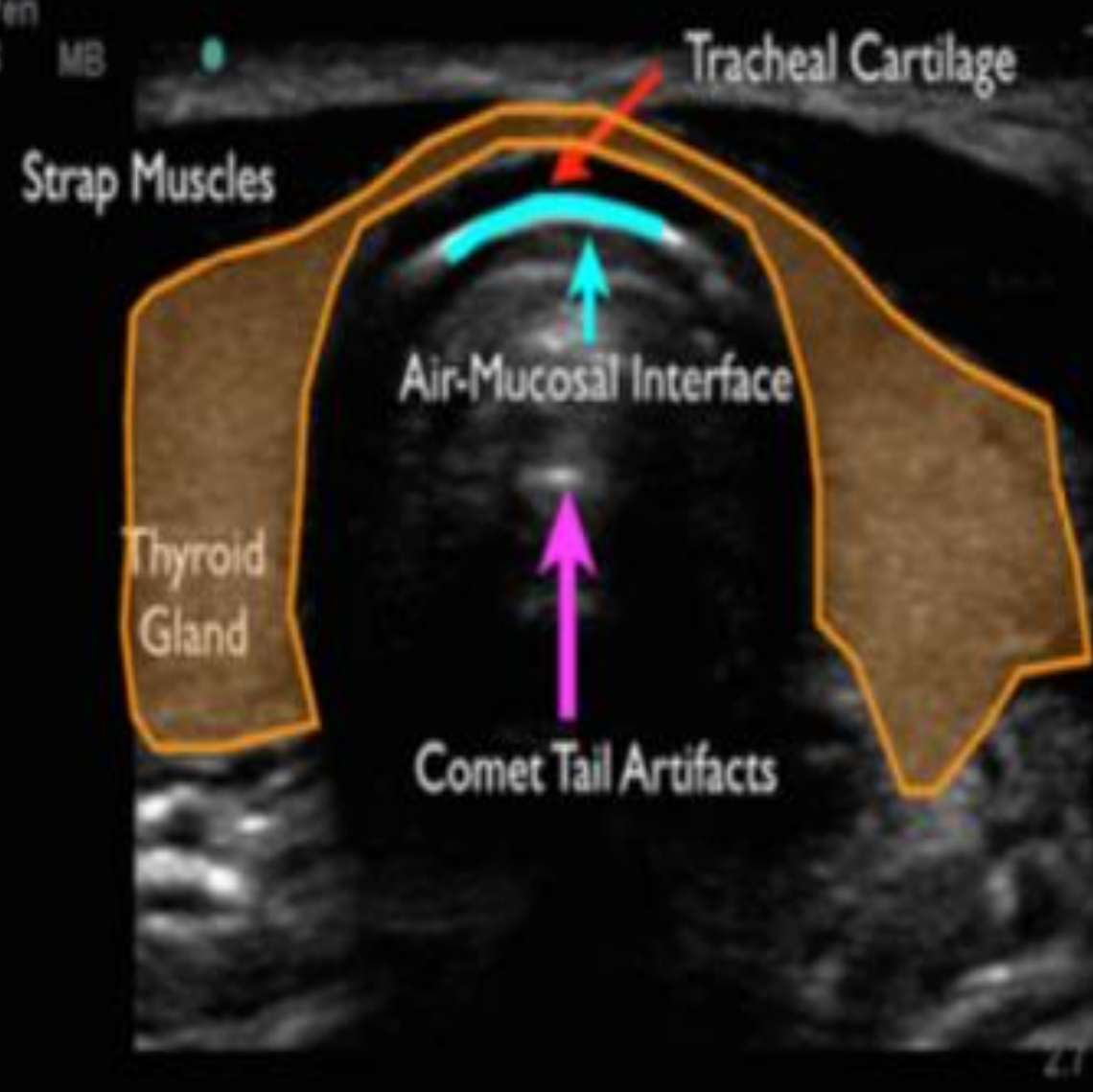


Cricoid Cartilage (Transverse)

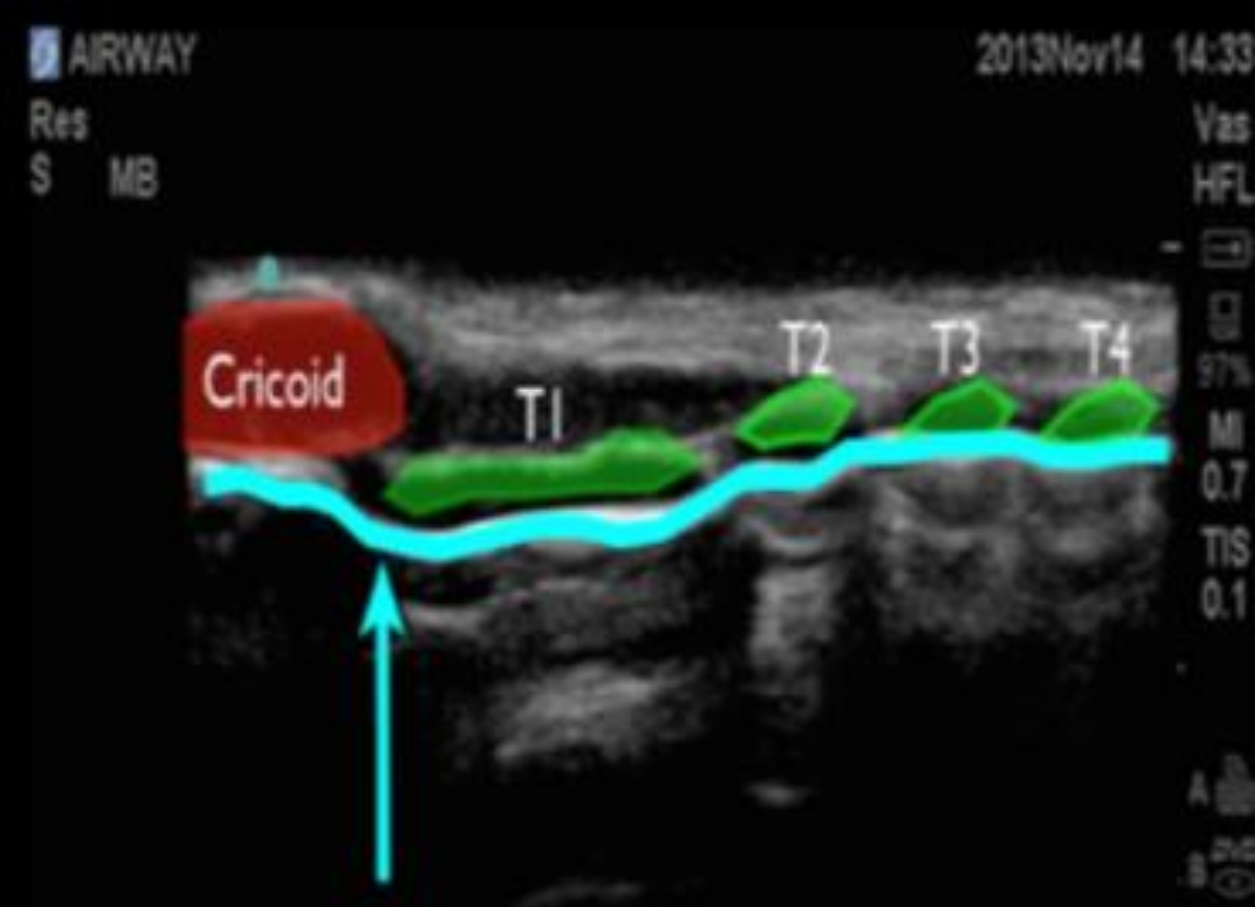
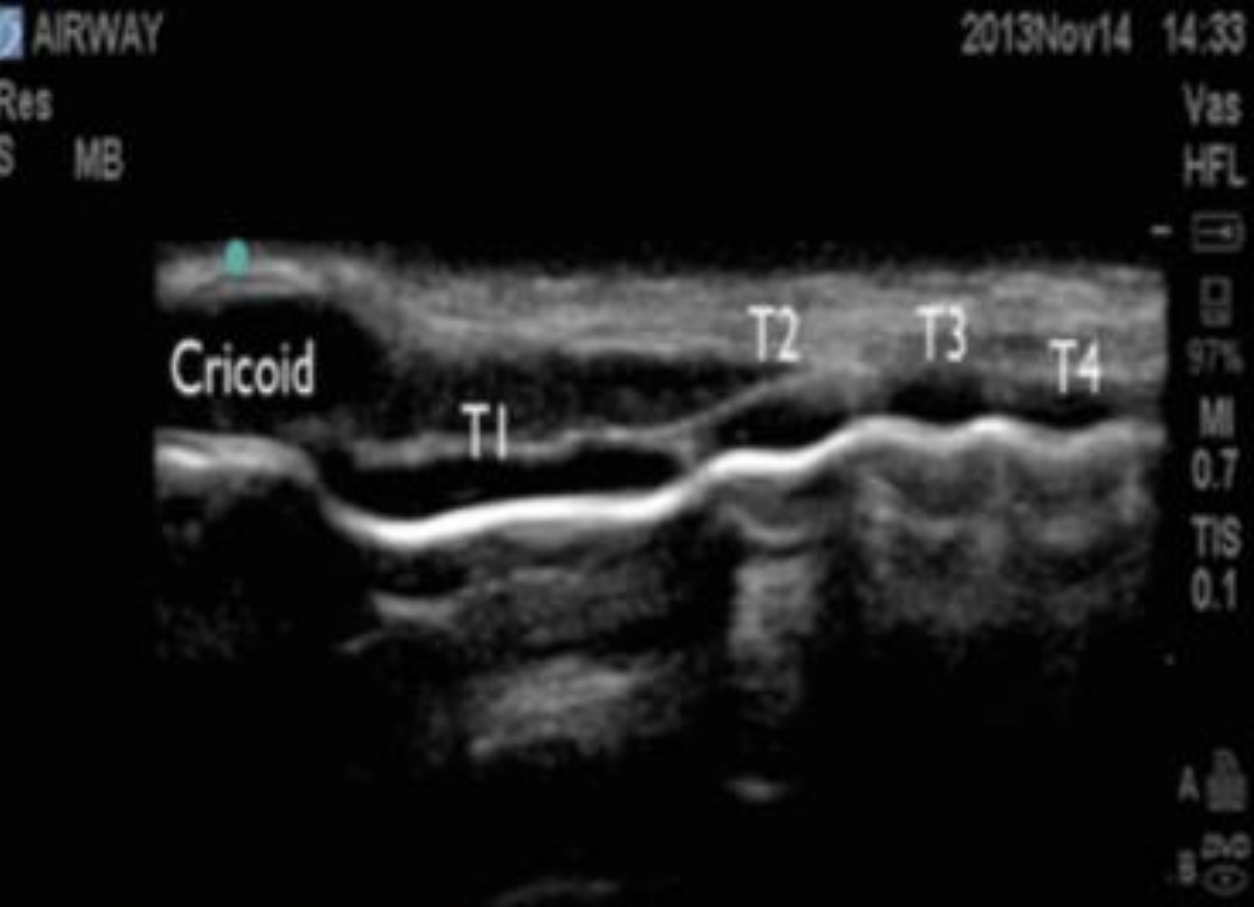


Cricoid Cartilage

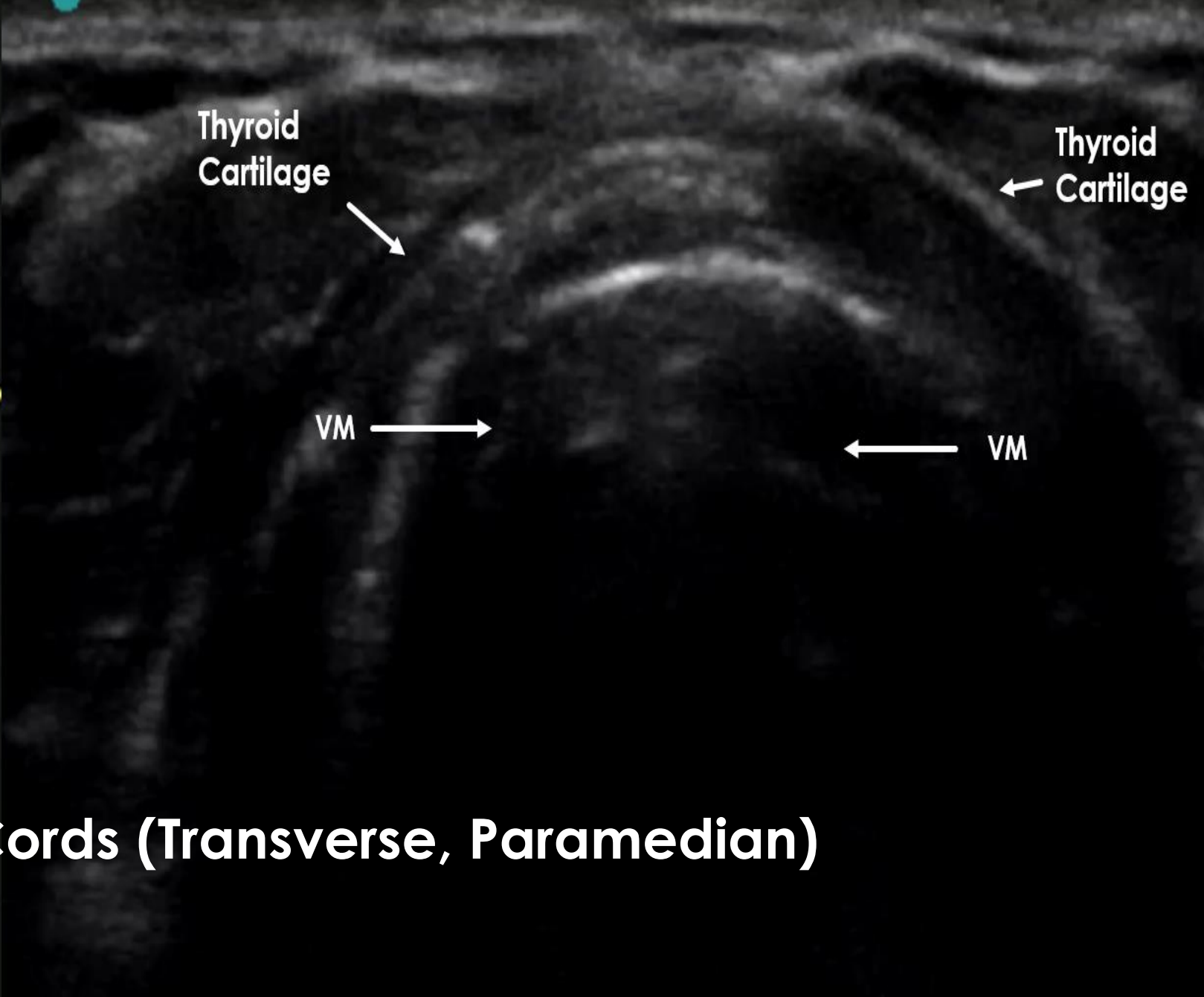
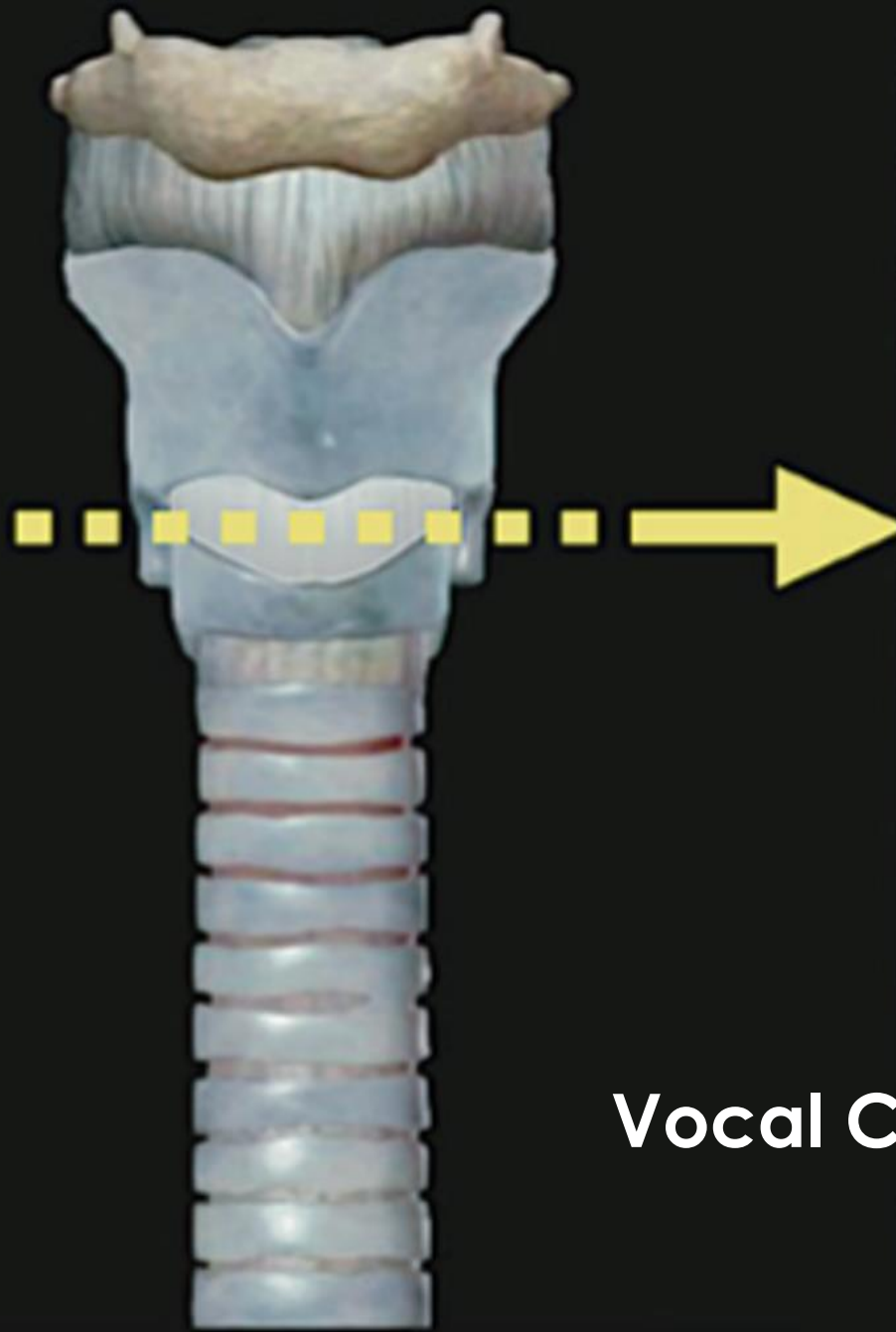
Air-Mucosal Interface



Thyroid Gland (Transverse)

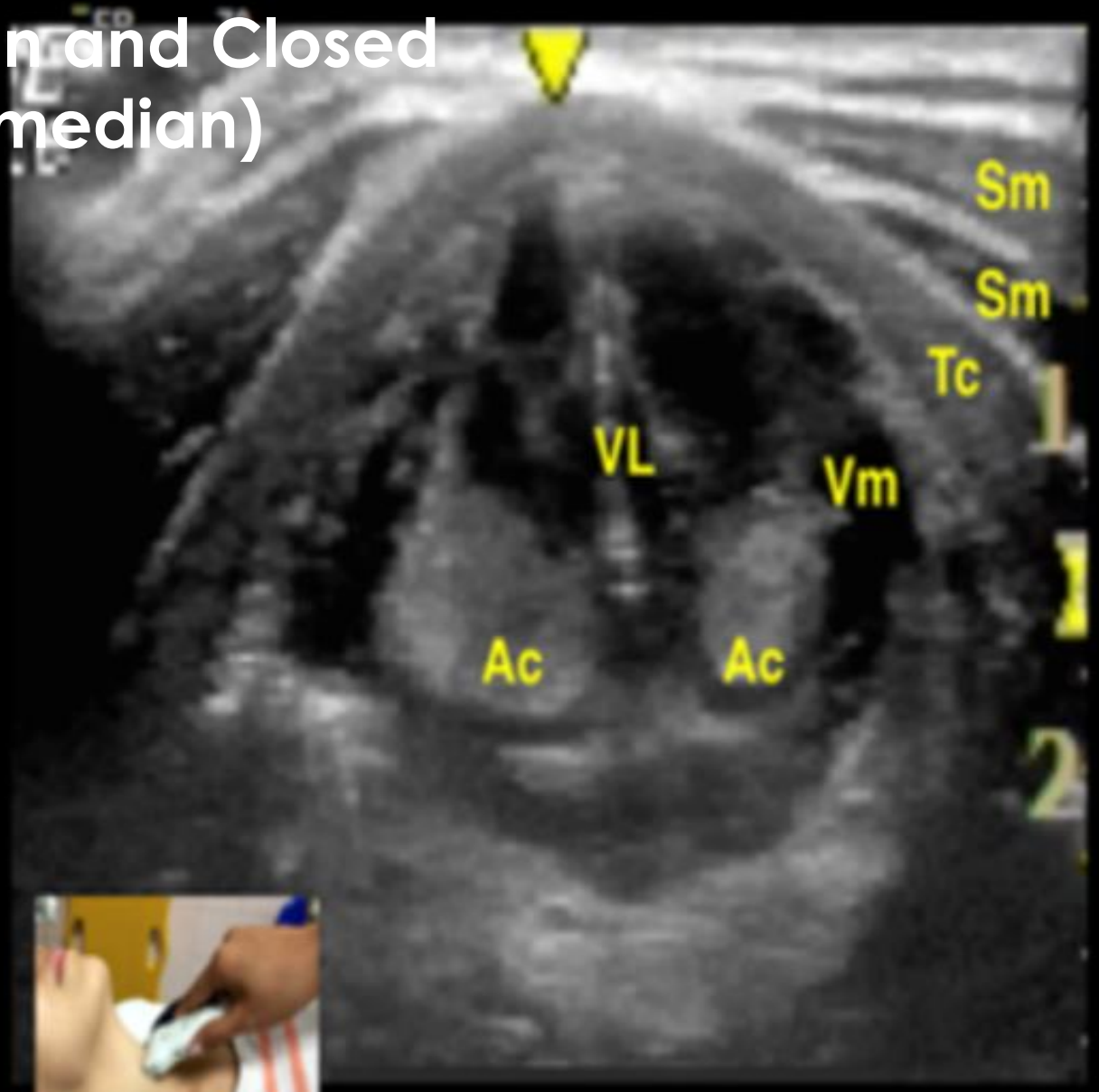
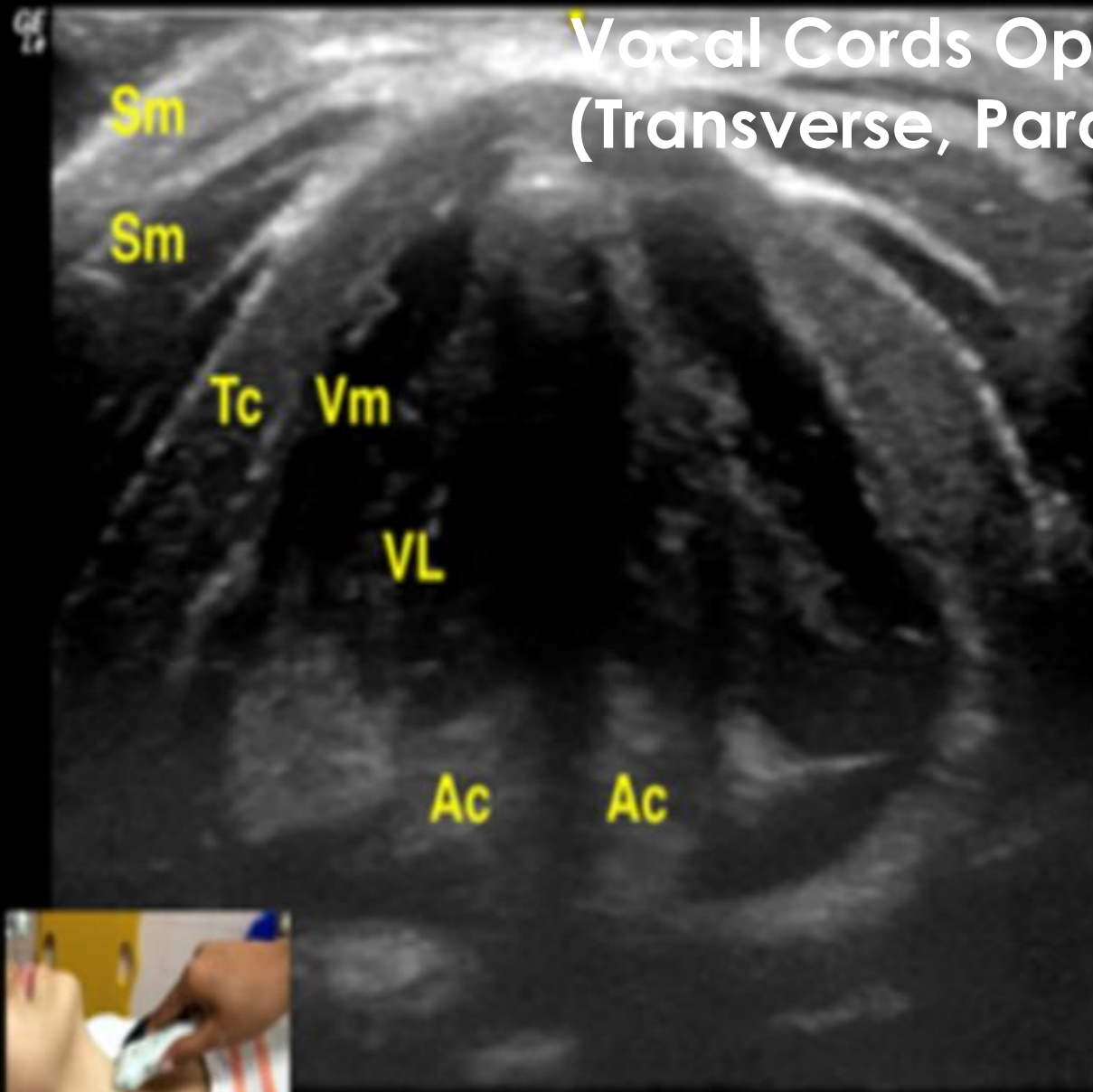


Thyroid Gland (Sagittal) with CTM



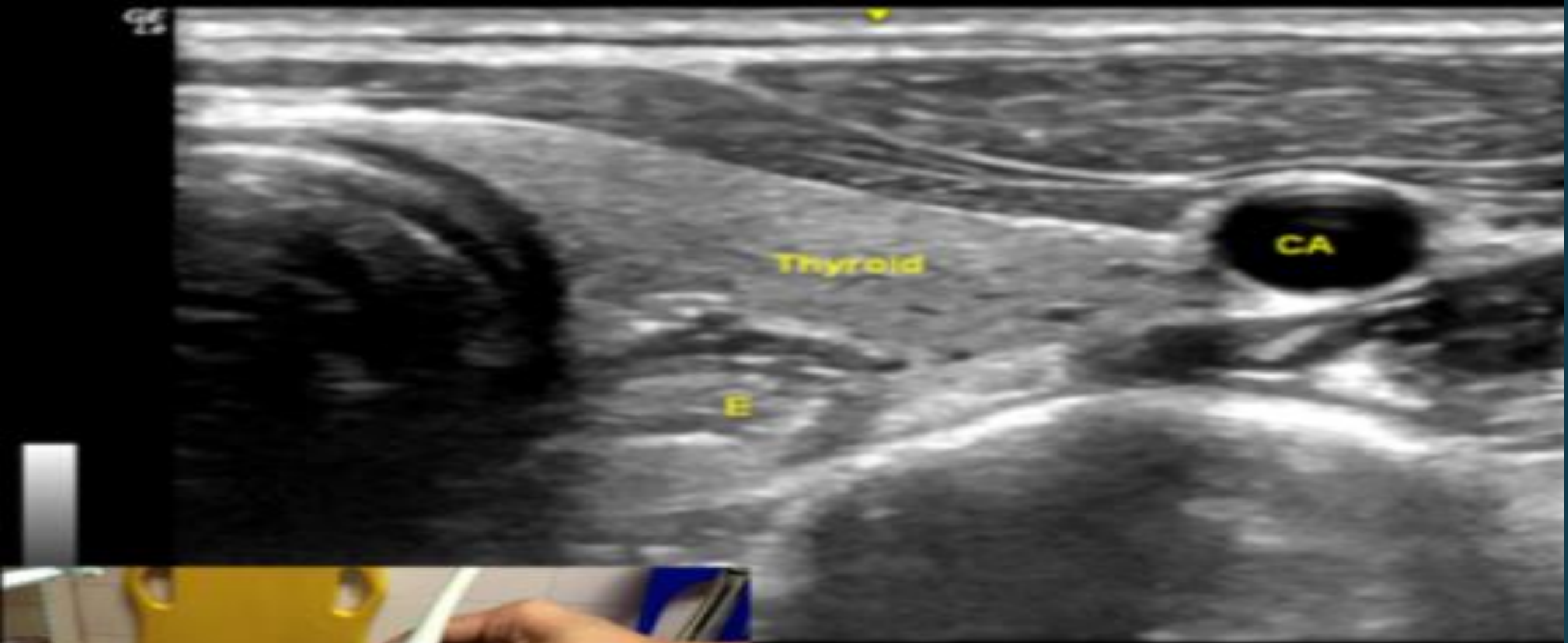
Vocal Cords (Transverse, Paramedian)

Vocal Cords Open and Closed (Transverse, Paramedian)



Vocal cord (Vc) abduction

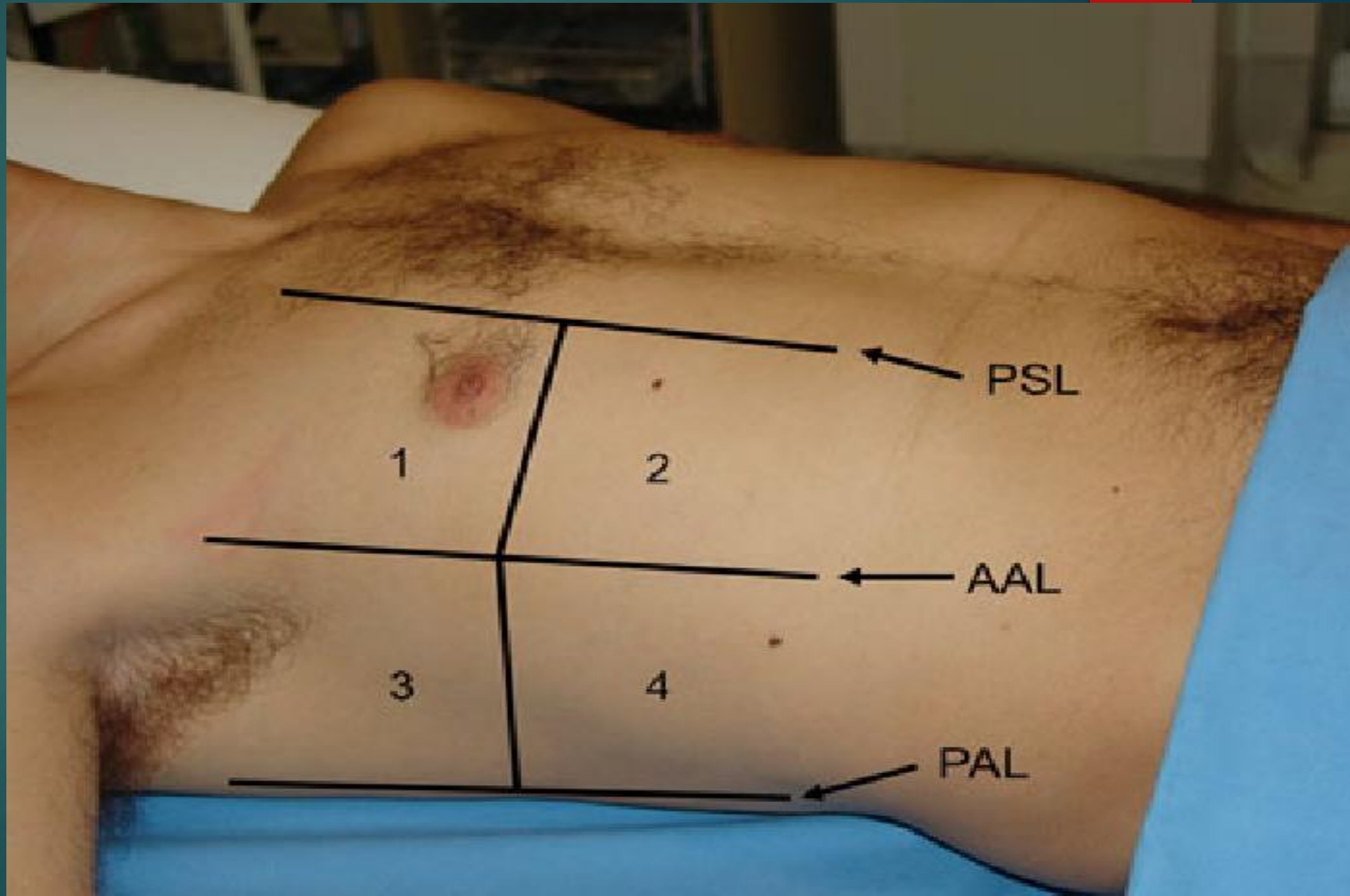
Vocal Cord (Vc) adduction

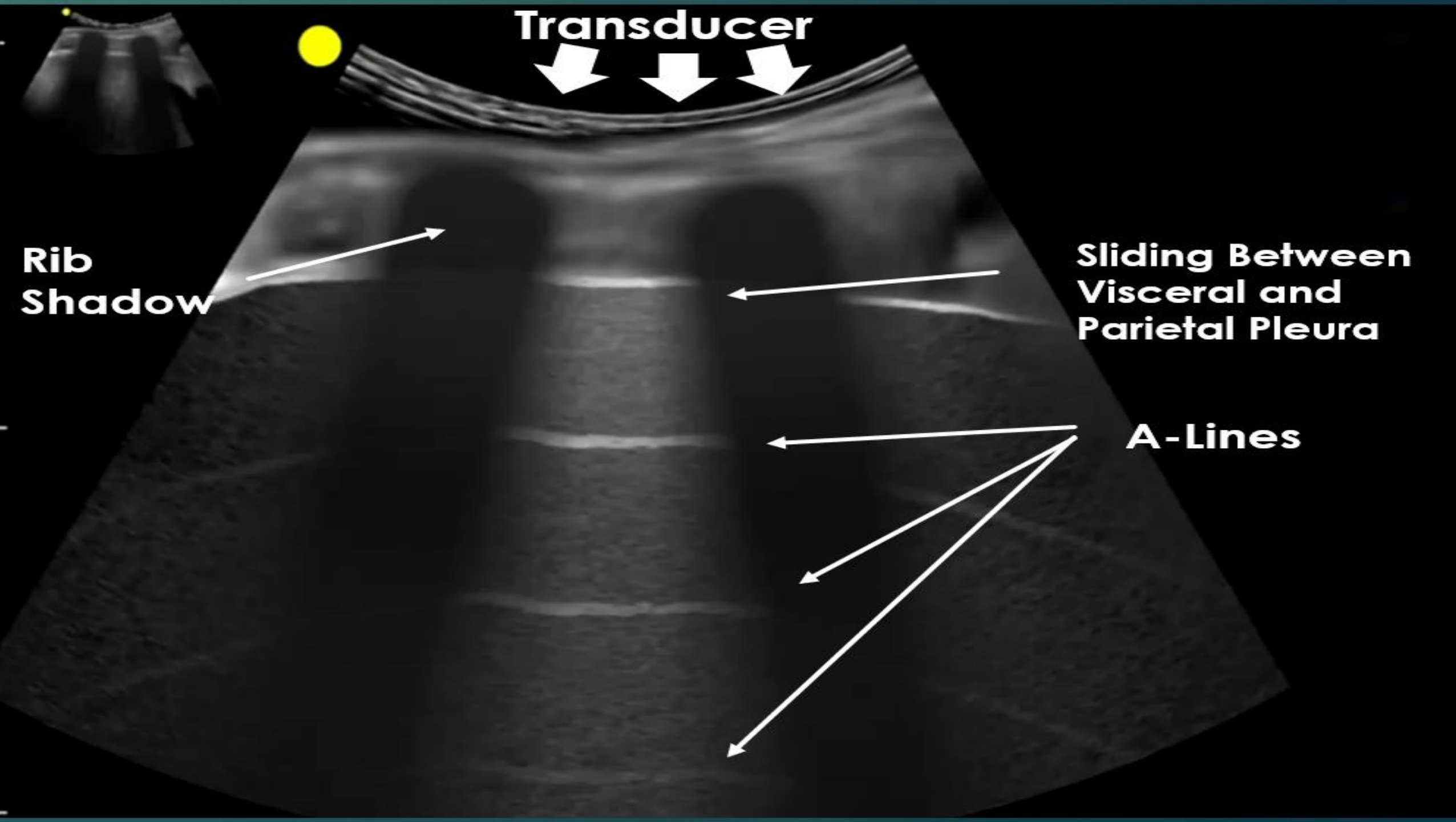


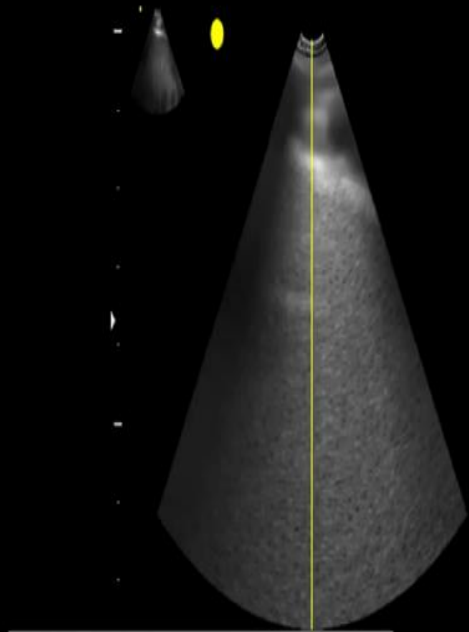
**Esophagus (Transverse,
45 Degree Rotation)**

Lung Ultrasound Imaging Strategies

- ▶ Four chest areas per side for complete eight zone lung scan
- ▶ Parasternal line (PSL) is the border for areas 1 and 2
- ▶ Anterior axillary line (AAL) is the border between areas 1-3 and 2-4
- ▶ Posterior axillary line (PAL) marks the border for areas 3 and 4







Ocean
Sandy
Beach

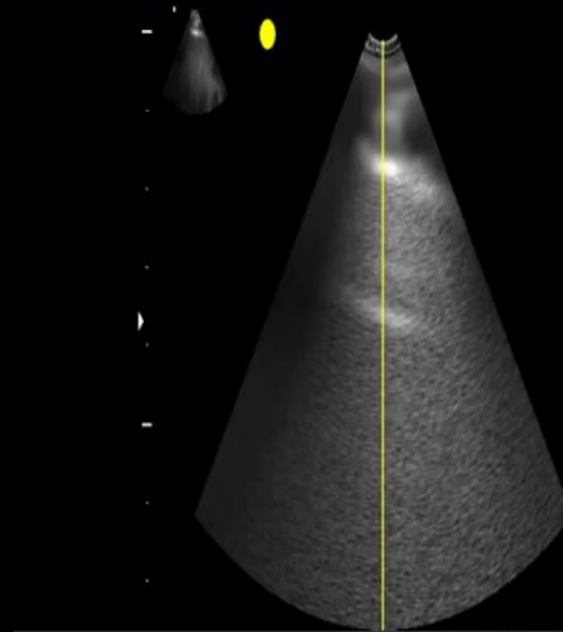
Active Scenario Mode

Scan the patient.

Your tutor may control some aspects of the scenario using the remote tablet interface.

Click 'End Scenario' when you are finished.

TGC | Depth Zoom Focus Sector Gan



Ocean
Barcode

Active Scenario Mode

Scan the patient.

Your tutor may control some aspects of the scenario using the remote tablet interface.

Click 'End Scenario' when you are finished.

TGC | Depth Zoom Focus Sector Gan