Minimal Criteria -**HAEMR Ultrasound Residency Training Guidelines**

IMPORTANT!

Input patient name and MRN. Write a procedure note.

- Video clips are required
- Fan completely through structures of interest
- If measuring, save a still picture with measurements

Cardiac: Pericardial effusion? LV function? RV strain?

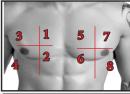
Chest: PTX? Pleural fluid? **B-Lines?**

PSL parasternal long

- horizontal septum



Chest Zones



PSS parasternal short

- round LV
- D-Sign? RV strain?

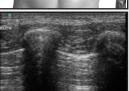


PTX?

- Zone 1, 5

- lung sliding?

Pleural fluid?

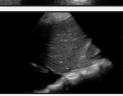


AP4 apical four

- 4 chambers
- vertical septum
- RV strain?
- Required view if assessing RV strain



- Zone 4, 8 - spine sign?



SX subxiphoid

- 4 chambers

At least 2 of the 4 views are required

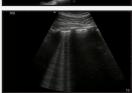


B-lines?

- Zone 1,4,5,8

- >10 cm?

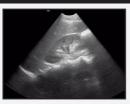
->=3 B-Lines



Abdominal - Free fluid?

RUQ

- hepatorenal recess
- inferior renal pole
- diaphragm



LUQ

- splenorenal recess
- caudal spleen tip
- diaphragm



Pelvis

- sagittal bladder - fan side to side
- posterior bladder
- rectovesicular or rectouterine space



- longitudinal and



Bladder: Volume?





- sweep through aorta from SMA to iliacs
- one measurement of largest diameter in transverse
- longitudinal aorta



- video clip during respiration in sagittal view

- consider compressing to show

"pusistalsis" and color

flow to show absence of



- remember than not all abscesses are hypoechoic

Soft Tissue: Abscess?





- posterior cul de sac IUP?

- needs gestational sac + yolk sac

- endometrial stripe

Right and Left - fan through bilateral

- if there is hydro then scan bladder

kidneys

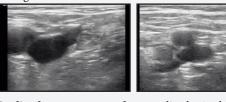
- fetal pole if present - FHR measurement in M-Mode **DVT: Thrombus?**

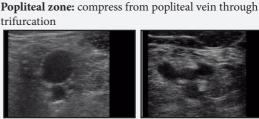


Proximal zone: compress from the GSV-CFV junction through the bifurcation of the CFV to SFV/DFV

Renal: Hydronephrosis?

Uterus: Definite IUP?







Ocular

- retinal detachment?

- lens dislocation?

- papilledema?

- elevated ICP?

- vitreous hemorrhage?

into clinical decision-making. For these scans,

- 1) findings need to be discussed with the clinical team, 2) a procedure note in Epic should be:
 - -written by the scanner -signed by an ED attending.

- EDUCATIONAL scans are those that are NOT incorporated into clinical decision-making. For these scans,
- 1) findings need to be discussed with the clinical team, 2) the scan should be documented on the HAEMR US
- datasheet. Be sure to include what the patient was told about follow-up of any incidental findings.