



1. Is the heart beating?
2. Is there a pericardial effusion? (are there signs of tamponade?)
3. Is the LV hyperdynamic or is LV function grossly reduced?
4. Are there signs of RV strain?
5. Is the IVC size reduced and is it collapsing?

Indication	Pulse	BP	RR	Sats
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Examination Findings

Probe Position	Views	Notes	Findings				Notes
<p>PSLA PSSA AP4 IVC SubX</p> <p><small>Source: K.J. Knopp, L.B. Stack, A.B. Sborow, R.J. Thurman: The Atlas of Emergency Medicine, 4th Edition, www.accessemergencymedicine.com Copyright © McGraw Hill Education. All rights reserved.</small></p>		<p>1. Parasternal Long Axis (PLAX) Probe marker points to right shoulder, 2-4th ICS Visual assessment of size: RV = aortic root = LA Look at LV size and function (hyperdynamic, reduced) Check pericardium for effusion</p>	PLAX view	Adequate	Limited	Not obtained	
			PSSAX view	Adequate	Limited	Not obtained	
			A4C view	Adequate	Limited	Not obtained	
			Subxiphoid	Adequate	Limited	Not obtained	
			IVC view	Adequate	Limited	Not obtained	
<p>Preparation</p> <ol style="list-style-type: none"> 1. Patient data entry, label images 2. Probe: phased array, marker to left 3. Pre-set: cardiac 4. Position: supine (unwell), left lateral decubitus; head/shoulder up 30-45 degrees lights dim if possible 5. Image optimisation: depth, Res/Gen/Pen, gain, TGC 		<p>2. Parasternal Short Axis (PSSAX) Marker to left shoulder & fan/tilt Visual assessment of LV & RV size and function. Look for IVS bowing (D-shape)</p>	Cardiac activity	Organised	Disorganised	None	
			LV Function	Hyperdynamic	Normal	Grossly reduced	
			RV strain	Size Normal Dilated	Movement Hypokinesia McConnell sign Interventricular septal bowing		
			Pericardial effusion	Present	Large >2cm Moderate 1-2cm Small 0.5-1cm	Tamponade? IVC distended RA collapse RV collapse	
				Absent			
<p>3. Apical Four Chamber (A4C) Visual assessment of LV and RV size and function RV to LV ratio <0.6-1 Is there RV strain – septal bowing, apical wink Is there a pericardial effusion or tamponade (collapse of RA and RV during filling)</p>		<p>4. Subcostal/Subxiphoid Visual assessment of LV and RV size and function Is there a pericardial effusion or signs of tamponade?</p>	IVC	Distended with reduced collapsibility (<50%)	Normal size and collapsibility (>50%)	Reduced size and complete collapsibility	
				5. IVC Rotate probe marker ~90 degrees to point to head Gross inspection +/- measure size of IVC and respiratory variability. IVC size in children is roughly the size of the aorta. Max IVC diameter is 2cm.			

Conclusions (Note: FELS findings must be consistent with clinical suspicion: integrate history, examination, investigations and USS findings).

Clinician	Signature	Date	Time	Credit: Ultrasound Village, POCUS 101
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