

ultrasound E-ECHO Level 1 Emergency Echo

A limited echocardiographic study

To confirm or exclude several causes of cardiovascular instability including tamponade, massive PE, hypovolaemia, and LV systolic failure It does not assess for all cardiac pathology and makes no attempt to evaluate for aortic dissection, ischamia or valvular dysfunction

PATIENT DETAILS

History							Temp	Pulse	BP	Sats
Pre Study Differential Diagnoses										
Standard Views	Key Questions		Tamponade	Massive PE	Hypovolaemia	Vasodilation	LV Syste		Notes	
	1	PERICARDIAL EFFUSION Is there a pericardial effusion?	Yes	No	No	No	No	It is a First F Then	Tamponade It is a clincial diagnosis First RA systolic collapse Then RV diastolic collapse Dilated non-collapsing IVC	
	2	RIGHT VENTRICLE Is the right ventricle normal?	May be Collapsing	Big and Round	N	N	Massive Pulmon Big, round poorly cor RV apex often norma Flattened septun (D- Normal echo does no Consider RV infarct (Consider chronic pul (RV free wall th		ound poorly contraction bex often normal or him ned septun (D-shape al echo does not excluder RV infarct (clinical	ing RV hyperdynamic ed LV in PSSX) elude PE al / ECG) pertension
	3	CVP What is the central venous pressure?	†	1	↓	if underfille		Right Atr	e (mm)	Inspiratory Collapse
						N if well filled	N to	Normal	>25 mm 15-25 mm < 15 mm	< 50 % Variable > 50 %
	4	LV DIASTOLIC SIZE What is the left ventricular size?	N	↓ to N	↓	if underfilled	N to	<u>†</u>	Ventricular Size LVEDd LV End Diastolic diameter (cm) > 5.6 cm Normal 3 − 5.6 cm < 3 cm	
AS A L	5	LV SYSTOLIC FUNCTION What is the left ventricular systolic function?	N	N to	1	1	1	LV Systoli Function Normal		EF Ejection Fraction > 65 % 50 - 65 % < 50 %
Conclusions NOTE: E-ECHO findings must be consistent with clinical suspicion; integrate history, examination, investigations, E-ECHO findings to reach a conclusion. Seek urgent formal echo if uncertainty remains										
Clinician:	Signature:						Date:			