10%

80%

10%

## Cardiovascular Examination

History: This patient is experiencing chest pain.

Task: Examine the cardiovascular system, present your findings and suggest further management.

## examination

Marking Criteria	Not	Partially	Completed
	Completed	Completed	Completed
Washed hands, introduction, confirms patient identity.			
explanation of process, ensures comfort			
Checks notes, X-rays & ECGs			
Exposes chest			
Inspects chest from end of bed			
Comments on general appearance – including anaemia,			
central cyanosis, breathlessness			
Examines both hands and comments on: clubbing, splinter			
haemorrhages, Koilonychia, nail fold infarcts, Osler's nodes /			
Janeway lesions, colour, temperature	-		
Checks radial pulse (rate and rhythm), brachial (character)	2 		
Positions patient at 45 degrees, correctly identifies JVP			
Checks face (Cyanosis, Anaemia, Arcus, Malar flush)			
Checks carotid pulse			
Locates the apex beat (5 <sup>th</sup> ic space mc line)			
Feels for heaves and thrills and correctly relays findings			
Auscultates heart in 4 areas: mitral area, tricuspid area,			
pulmonary area, aortic area			
Rolls onto left side for Mitral murmur (Axilla)			
Sits forward and listens for aortic murmur at end expiration			
Listens to carotids bruit & murmur			
Listens to back for VSD or PDA murmur			
Percussion and auscultation of lung bases			
Examines abdomen for ascites, hepatomegaly, AA, kidneys,			
renal artery bruits, sacral oedema			
Checks for ankle oedema/ peripheral pulses			
Helps patient get dressed again			
Thanks patient			
Summarises findings succinctly			
Makes appropriate diagnosis			
Suggests need for BP, ECG, echo, blood cultures, urine dip			
Overall			

## Cardiovascular Examination



the corresponding arterial and ECG lead locations.

Anterior = LCA = I + aVLAnteroseptal = LAD = V1-3Anterolateral = CX = V1-6Septal = LAD = V2-4 onlyLateral = CX = V4-6, +/- I & aVLInferior = RCA = II + III + aVFInferolateral = RCA/CX = II + III + aVF + V4-6Apical = RCA/LAD = II + III + aVL + V2-4Posterior = RCA = R/S ratio >1 in V1 and V2; T-wave changes (ie, upright) in V1, V8, and V9Right ventricular = RCA = RV4, RV5

Level 3 Understanding (advanced sciences)

Focused transthoracic echocardiogragraphy is being used more often in the in the acute setting.

What are the advantages and disadvantages of this diagnostic test?

Advantages: noninvasive, goal-directed, repeatable, rapid, direct information about cardiac structure and function

Disadvantage: training, acceptance, not comprehensive, limitations in coronary and pulmonary anatomy

What are the primary indications?

Cardiac arrest, pericardial effusion, massive pulmonary embolism, assessment of left ventricular function, unexplained hypotension, estimation of central venous pressure