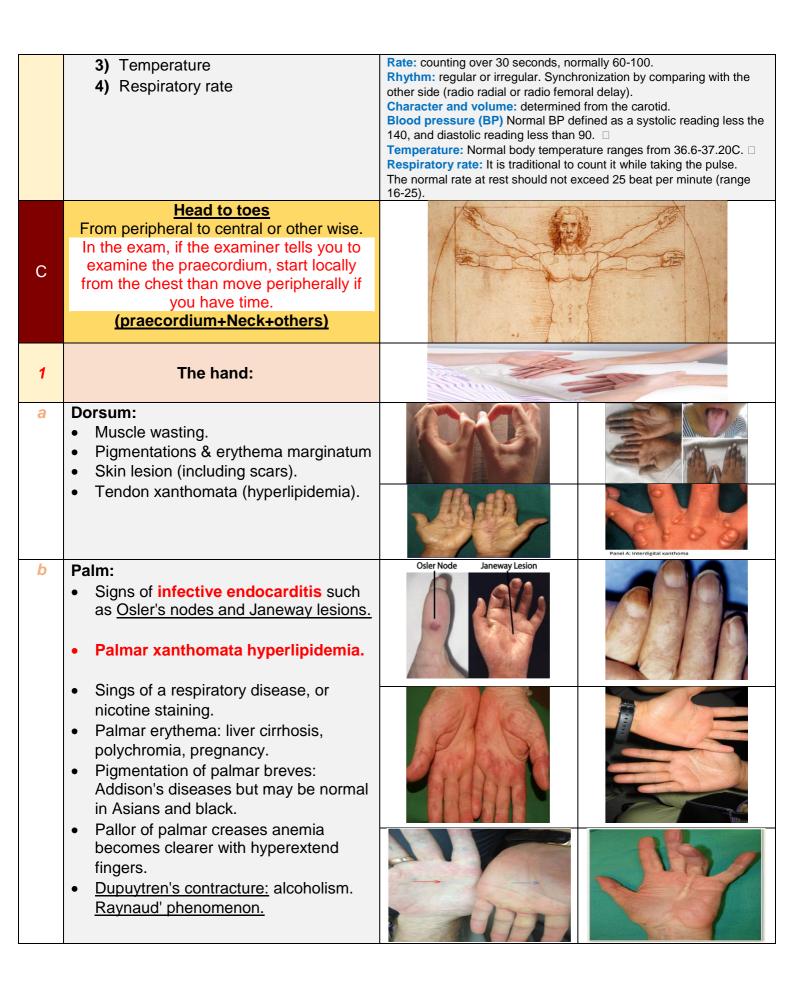


Cardiovascular Examination

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Cardiovascular Examination			
#	Subject steps	Pictures	Notes
А	Preparation: Pre-exam Checklist: WIPE	Be the one.	Very important.
1	Wash your hands.		✓ (Position the patient in a
2	Introduce yourself to the patient, confirm patient's ID, explain the examination & take consent.		45 degree sitting position) and uncover his/her upper body.
3	Positioning of the patient and his/her Privacy.	1 2	✓ (if you could not, tell the
4	Exposure. full exposure of the trunk.	3 4	examiner from the beginning).
В	Examination: General appearance: (ABC2DEVs)	A BC	CDE
1	Appearance: young, middle aged, or old, and looks generally ill or well.		✓ Observe the patient's general appearance (age, state of health, nutritional status and any other obvious signs e.g. jaundice, cyanosis, dyspnea).
2	Body built: normal, thin, or obese	■ Begin by observing the patient's	general health from the end
3	Connections: such as nasal cannula (mention the medications), nasogastric tube, oxygen mask, canals or nebulizer, Holter monitor, I.V. line or cannula (mention the medications).	of the bed. The patient looks well (not cachectic), overweight(don't say obese), not connected to IV line nor O2 mask, no obvious pallor or cyanosis, no respiratory or pain distress (not tachypnic). Oriented to time, place and person.	
4	Color: jaundiced, pale, or cyanosed.	Also lock for our draws of the standard	opioto di viitho pordino dioppo
5	Distress: in pain, respiratory (using accessory muscles), or neurological (abnormal movements) distress.	 Also look for syndromes that ass (Marfan, Down and Tunner syn 	
6	Else: mental functions: consciousness, alertness, and orientation.		
7	Vital signs: 1) Pulse rate 2) Blood pressure (BP)	 ✓ Take the patient's radial pulse (Determine the pulse). ✓ Take his/her blood pressure (Lying and star 	



C	 Nail: Clubbing: cyanotic congenital heart disease, infective endocarditis. Signs of infective endocarditis & vasculitis like splinter hemorrhage. Leukonychia: hypoalbuminemia, liver disease, or nephritic syndrome. Koilonychias: iron deficiency anemia. 		
d	Flapping tremor (due to accumulation of toxins)		CO2 retention. Hepatic encephalopathy. Renal failure.
е	Forearm/ Pulse: Radial puls.		 Character: anacrotic plateau, bisferiens,
	1. Both sides.		collapsing, alternans.Desynchronization:
	2. Collapsing pulse *-associated with aortic regurgitation3. Subcutaneous nodule-associated	https://www.youtube.co m/watch?v=E-LKF pUWDA	 coarctation of the aorta. Water-hammer test: detects the collapsing pulse, which is pathognomonic for
	with Rheumatic Fever.		aortic regurgitation (AR).
	 Ask the patient if he has pain in his shoulder before you start raising his arm 		
f	Arm/ Blood pressure: Pulsus paradoxes: a change in the systolic pressure during inspiration more than 10mmHg.	https://www.youtube.co m/watch?v=f6Htqo1hKqo	Take his/her blood pressure (Lying and standing or sitting-postural hypotension).
2	The head:		
	Face		
а	Face : Mitral faces; rosy, flushed cheeks and dilated capillaries: long standing MS. Eye:		

jaundice: (in the sclera liver disease, hemolytic anemia. Pallor (in the conjunctiva): anemia. Xanthelasma (in the periorbital regions: hyperlipidemia, primary biliary cirrhosis. Blue sclera: Marfan's syndrome. Blue sclera graphs of the palpebral conjuctiva of four patients ncentrations of (a) 7.3, (b) 12.7, (c) 14.0, and (d) Mouth: Central cyanosis. Oral hygiene (Diseased teeth). Dryness of the mouth: dehydration. Any lesion, e.g. ulcer, bleeding. High arched palate; Marfan's syndrome which is associated with AR or MR. Special smell: C Sweet smell "fetor hepaticus": liver disease. Ammoniacal fish breathe" uremic fetor" renal failure. Cigarette smell in smokers. Examination of the **Neck** JVP: Stand on the right Neck Veins Jugular venous pressure and the jugular side of the patient, and https://www.youtube.co venous pulse: m/watch?v=AWxbAg0E3E4 focus on the site of the Ask the patient to turn his head slightly right jugular vein to Measuring JVP detect its pulsation. If https://www.youtube.co to one side. you could not see it, put m/watch?v=MZKSkVSbH8k Look at the internal jugular vein medial the patient on 35° then Measuring JVP to the clavicular head of on 25 and then on 10° https://www.youtube.co sternocleidomastoid. until you see it. If you m/watch?v=1-2NsEg7-n8 did not, do the Assuming that the patient is at 45 abdomino jugular degrees, the vertical height of the refluxes test. jugular distension from the sternal Put the patient on 45 and angle should be no greater than 4 cm. press the abdomen while you are looking to his/her neck for 10 seconds. If the pulsation of the jugular vein is still rising and does not come back, the test is positive. Kussmaul's sign: rise of JVP in inspiration. https://www.youtube.co Better to get the volume and Carotid pulse b m/watch?v=Tv8Jgk9p6VU character.

3	Dana a a a a ll'anna		Praecordium in is the
	Praecordium	AL PHYSICIAN'S	portion of the body over the
		Markage Markage	heart and lower chest.
	Ins	pection	
a	Shape and deformities:		Pectus excavatum (funnel shaped;
	1. Pectus excavatum	k 30 17 1	depressed sternum:
	2. Pectus carinatum		Marfan's syndrome.Pectus carinatum
			(pigeon shaped; prominent sternum).
-	Canana	1 2	
b	 Scars: Lateral thoracotomy (mitral valve) Midline sternotomy (CABG) Clavicular (pacemaker) 	Anterior	dreamtime
C	Devices:		B B
	 Holter monitor: an ambulatory 24 		
	hours ECG.		Car Car
	 Pacemaker, or intracardiac defibrillator (ICD): usually below the 		
	left or right clavicle.		
d	Apex beat: Visible pulsations with the aid of torch.	Midclavicular line	forceful apex beat may be visible > (hypertension / ventricular hypertrophy) Abnormal pulsations.
	Pa	Ipation	
а	Apex beat: The beat may be:	Apex beat	✓ located in the 5th intercostal space in mid-
	✓ Normal.	(5th intercostal space	clavicular line ✓ The most inferolateral
	✓ Tapping: mitral stenosis (MS), tricuspid stenosis	l mid-clavicular line)	palpable pulse. ✓ If it is impalpable, ask
	(TS).		the patient to turn to the left.
	✓ Double impulse: hypertrophy cardiomyopathy.		TOTAL
	✓ Sustained: aortic stenosis, uncontrolled hypertension.		
b	Parasternal heaves: Place the heels of your hands over the right and left parasternal regions, and ask the patient to stop breathing.		In the presence of a heave, the heel will lift off the chest wall with each systole. Causes include: Right ventricular hypertrophy. Left atrial enlargement (not hypertrophy).

С	Thrill: Apalpable murmur (like the feeling on an arteriovenous fistula).		The site of a thrill is the same site of the valve; we detect its site by using the valve area, i.e. mitral area, tricuspid area etc, or by using the anatomical position, i.e. 2nd intercostal space,5th intercostal space etc.
	Auscultati	on of the heart	
b	Listen for Heart sounds, additional sounds, murmurs, and pericardial rub. Using the stethoscope's diaphragm, listen in the: Aortic area - right second intercostal space near the sternum. Pulmonary area - left second intercostal space near the sternum. Tricuspid area - left third, fourth, and fifth intercostal spaces near the sternum. Mitral area - left fifth intercostal space, in the mid-clavicular line. Palpate the carotid pulse to determine the 1st heart sound In case there is a murmur:	https://www.youtube.com/watch?v=83CBjj9dMRc https://www.youtube.com/watch?v=YXXiMoEMYmI	 ✓ Ask the patient to bend forward and to hold his breath in expiration. Using the stethoscope's diaphragm, listen at the left sternal edge in the fourth intercostal space for the mid-diastolic murmur of aortic regurgitation. ✓ Ask the patient to turn onto his left side and to hold his breath in expiration. Using the stethoscope's bell, listen in the mitral area for the mid diastolic murmur of mitral stenosis. ✓ Listen over the carotid arteries for any bruits. Accentuation maneuvers (These maneuvers cause particular murmurs to become louder) a. Roll onto left side and hold his breath in expiration: Listen in mitral area with bell – mitral murmurs are louder b. Lean forward and hold his breath in expiration: Listen over aortic area with diaphragm- aortic murmurs are louder c. During inspiration (Right sided murmurs increase) d. During expiration (Left sided murmurs increase) 2. The radiation of the murmur:
С	Sounds: AS murmur MR murmur These are the most imp. Murmur.	https://www.youtube.com/watch?v=4euNGIguluk	Make sure to cover the rest.

	The back:	sacral oedema	Percuss and auscultate the chest especially at the
4	Inspection for (scars, deformity)	(right heart failure)	bases of the lungs. Heart failure can cause pulmonary
	 Percussion and auscultation of the lung bases. 		edema and pleural effusions.
	 crackles / pulmonary oedema – left ventricular failure 		
	Sacral edema.		
	• Ascites.		
	Abdomen:	A CONTRACTOR OF THE PARTY OF TH	LIVER PALPATION
5	Hepatomegaly: (right ventricular failure).	Contract of the Contract of th	
	pulsatile liver (tricuspid regurgitation)		() () () () () () () ()
	aortic aneurysm		
	Splenomegaly: (endocarditis).		
	The lower limb:	60	
	 Any change in the nails, dorsal, or the sole of the foot (clubbing). 	A. Carotid B. Radial	
6	Peripheral pulses: popliteal, posterior	C. Brachial	
	tibial, and borealis pedes pulses. Bilaterally.	D. Dorsalis Pedis E. Posterior Tibial	
	Lower limb edema.	F. Femoral	(B) (B)
	To complete the examination: Tell the examiner that "I will conclude my		
7	examination by doing fundoscopy exam"		
	After the examination:		2/41/2
	✓ Ensure that the patient is comfortable.		L.F.
	✓ Make explanations to the patient, answer his/her questions and discuss	8/1/ 1/1/	A STATE OF THE PARTY OF THE PAR
8	management plan.		A
0	If necessary, order diagnostic investigations.		
	✓ Dispose of sharps and waste material according to infection control		
	standards.		
	✓ Wash hands.✓ Document the procedure.		
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Cardiovascular Examination: (7:52)

https://www.youtube.com/watch?v=SJ3UwKkLyy0

For any question please feel free to contact us on:

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