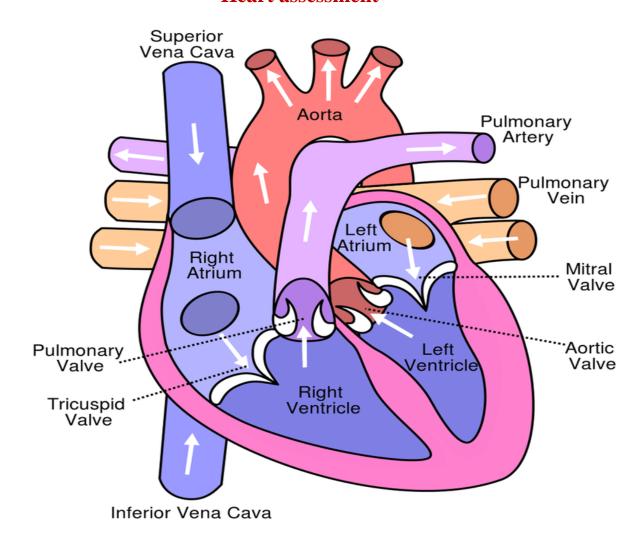
Heart assessment

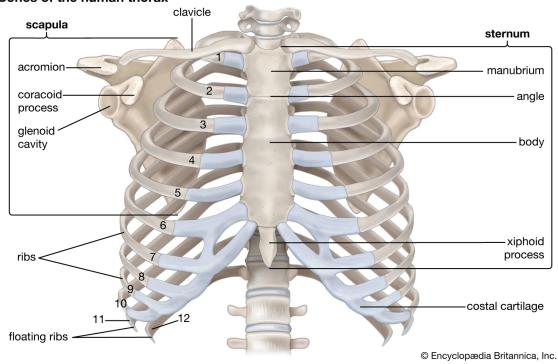


	Questions	Rational
Current Symptoms	Do you experience chest pain? Describe	chest pain can be cardiac ,pulmonary muscular or gastrointestinal in origin
	Do you tire easily or experience	Fatigue may result from compromised cardiac output
	Do you have dyspnea difficult breathing or shortness of breath	Dyspnea may result from congestive heart failure pulmonary disorders, coronary artery disease and myocardial infarction. It may occur at rest ,during sleep or with exertion
	Do you experience nocturia	Enhanced renal perfusion during periods of rest may promote nocturia
	Do you experience palpitation?	Palpitation may occur with an abnormality of heart's conduction system during the heart's attempt to increase cardiac output by increase the heart rate
	DO you experience dizziness?	Dizziness may indicate decreased blood now to the brain put the patient at risk for falls

	Do you experience swelling in	Swelling in the lower extremities usually
	your feet, ankles or legs?	occurs as a result of heart failure
	Have you been diagnosed with a	Congenital or acquired defects affect the
	heart defect or a murmur	heart's ability to pump, decreasing the
		oxygen supply to the tissues
	Have you ever had rheumatic	Approximately 40% of people with
	fever	rheumatic fever develop rheumatic carditis
	Have you been ever cardiac	Previous heart surgery may change the
	surgery	heart sounds heard during auscultation
Family	Is there History of hypertension	A genetic predisposition to these risk
History	MI ,CAD and DM in your family	factors increase the client chance for
Thistory	and Divi in your raining	development of heart disease
Life Style	Do you amaka? Hayy many	
Life Style	.Do you smoke? How many	Cigarette Smoking greatly increases the
and Health	backs of cigarette per day for	risk of heart disease
Practice	how many years?	
	What type of stress do you have	Stress has been identified as a possible risk
	in your life?	of heart disease
	Do you exercise? What type of	A sedentary life style is a known
	exercise and how often?	modifiable risk factor contributing to heart
		disease
	How many pillows do you use to	Orthopnea is the inability to breathe while
	sleep	supine which may result from
		compromised heart function
Inspect the	Facial skin color should be	Flushed skin may indicate rheumatic heart
client's skin	uniform	disease or presence of a fever or increased
and hair		cardiac output may make skin warm
		Grayish undertone are often seen in clients
		with CAD or those in shock
		A ruddy color may indicate polycythemia
		(increase) or Cushing syndrome
		Absence of body hair on the arms or legs
		may indicate diminish the arterial blood
		flow
Inspect the	The eyes should be uniform and	
Inspect the	The eyes should be uniform and	Protruding eyes are seen in
eyes and the	not have a protruding appearance	hyperthyroidism.
tissues		High cardiac output states, a tendency
surroundings		toward tachycardia and potential for
eyes (Per		congestive heart failure accompany that
orbital area)		disease
	Per orbital are should be relative	Per orbital puffiness may results from fluid
	flat.	retention my edema or valvular disease
	No puffiness should be present	
	Sclera should be whitish in color.	A blue color in the sclera is often
	The cornea should be without an	associated with Marfan's Syndrome a
	arcus which is ring like structure	degenerative disease in the connective
	·	tissue which over times may cause
		descending aorta to either dilate or dissect
	·	

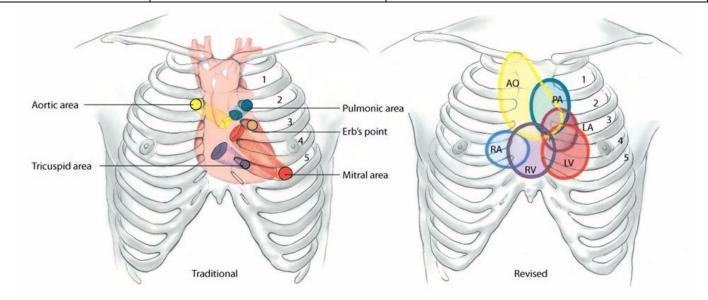
		leading to abrupt death
		An arcus in a young person may indicate hypercholesterolemia
	The conjunctiva should be	Xanthelasma are yellow cholesterol
	pinkish in color and the eye lid	deposits on the eyelids which indicate
	should be smooth	premature atherosclerosis
Inspect the	Should be uniform of color	Blue —tinged lips may indicate cyanosis
lips	without any underlying tinge of	which is often a late sign of inadequate
	blueness	tissue perfusion
Inspect the	The client should be able to hold	Rhythmic head bobbing (up and is down)
head	the head steady	in synchrony with heart beat is
position		characteristics of sever aortic regurgitation
		which reverberate up ward toward the head
		created by the pulsation were of the
		regurgitation blood
Inspect the	the earlobes should be relatively	Bilateral earlobes creases are often
earlobes	smooth without creases except	associated with CAD
	injury is present	
Inspect the	Fingernails relatively flat and	Clubbing may be associated with cyanosis
hands and	pink with white crescent at the	or infective endocarditic condition caused
fingers	base of each nail	by bacterial infiltration of the lining of the
		heart chambers
		This red lines or splinter hemorrhage in the
T 1		nailed are also with infective endocarditis
Inspect legs	Skin color and hair distribution	Swelling or edema may indicate heart
for skin	as mentioned before	failure or venous insufficiency
color and	-Free from edema	
hair distribution	-Free from edema	
	in culon vicing one not normally	Obvious pulsation of the insular voins that
Inspect the	jugular veins are not normally	Obvious pulsation of the jugular veins that
jugular veins	visible when client sits upright	are present during inspiration and expiration and coincide with the arterial
	The external jugular veins is located over the	_
	sternocleidomastoid	pulse are commonly seen with sever congestive heart failure
	The internal jugular vein is	congestive heart failure
	located behind this muscle	
	medial to the external jugular	
	lateral to the carotid artery	
Inspect the	jugular veins normally distended	Distension of the neck veins indicated
neck for	only 3 cm above the sternal	elevation of central venous pressure
distension of	angle when the client is lying in	commonly seen with congestive heart
the jugular	45 degree angle	failure fluid overload or pressure on the
veins	is degree ungle	superior vena cava
, 01110		superior vehic cuvu

Bones of the human thorax



Inspect the carotid	carotid arteries located lateral to the tracheas in a groove medial	Bounding pulse may indicate fever. The absence of pulsation may indicate an
	<u> </u>	<u> </u>
arteries	to sternocleidomastoid muscle	obstruction cither internal or external to
pulsation.	Pulsation should be visible	the arteries
The client	bilaterally	
lying at a 45		
degree angles		
Inspect the	Should be even regular and	Pulmonary edema is often sever
client's chest	unlabored with no retractions	complications of cardiovascular disease
observe the		
respiratory		
pattern		
Observe the	Should be evenly distributed	Dilated, distended veins on the chest
veins on the	relatively flat	indicate an obstructive process as seen
chest		obstructive of the with superior vena cava
Inspect the	-First observe the client in	Pulsation which may also called heaves or
precordium	upright position then at a 30	thrill (forceful rising of the landmark)
(entire chest	degree angle .Stand on the	other than apical pulsation are considered
For pulsation)	client's right side and look for	abnormal and should be evaluated. This
	apical impulse	could result from valvular regurgitation
	-Observe over the 5 key land	enlarged ventricle or pulmonary artery
	marks	dilatation. If left ventricle hypertrophy is
	-Confirm that the point of	present, the PMI is displaced laterally
	maximum impulse (PMI)	from the 5th ICS in the MCL

	T	
Palpate the carotid	-Pulse equally strong a 2+	Pulse unequally may indicate arterial
arteries	with no variation in strength	constriction or occlusion in one carotid
Palpate each artery	from beat to beat	-Weak pulses may indicate
alternately	-Arteries are elastic and no	hypovolemia, shock, or Decreased COP
Note: amplitude of	thrill are noted	-Loss of elasticity may indicate
the pulse, elasticity	-Pulse amplitude Scale	arteriosclerosis
of the artery and	Absent $=0$, weak $=1$,	-Thrill may indicate narrowing of the
any thrill	Normal =2, increased =3,	artery
	Bounding =4	
Palpation	the Apical Impulse is palpate	the Apical Impulse May be impossible
Palpate the Apical	in the mitral area over the	in clients' with pulmonary emphysema
Impulse	MCL 5 th ICS as a soft	A heave which is a forceful thrust may
F *	vibration a tapping sensation	indicate increased right ventricular
	with each heart beat and may	pressure
	the size of 1-2 cm	If the apical impulse larger than 1-2 cm,
		displaced suspect cardiac enlargement
Palpate for	No pulsation or vibration	A thrill which feels similar to a purring
abnormal pulsation	palpated in the area of the	cat or a pulsation is usually associated
use palmar surface	apex ,left sternal border or	with grade IV or higher murmur
to palpate the	base	with grade I v of ingher marmar
apex, left sternal	buse	
border and base		
Palpate for	With normal heart function	In cases of right side heart failure the
Hepatic —Jugular	diminish distension of the	distention of the jugular veins is
reflex Press below	jugular veins quickly	sustained
the right costal	Jugurar verns quickry	Sustained
margin for 30- 60		
second		
Percuss the client's	Dullness percussion in the	An enlarged heart emits a dull sound on
chest to determine	left 5th ICS in the MCL in	percussion over a large area than a heart
the cardiac border	the size 1- 2cm	of normal size
Auscultation the	No blowing or swishing or	A bruit ,blowing or swishing sound
carotid arteries	other sounds are heard	caused by turbulent blood flow through
using bell and ask	onici sounds are neard	a narrowed vessels
the client to hold		a nanowed vessers
breath		



Auscultation	Rate 60-100 beat per minute	Bradycardia (less than 60 beats \min) or
Auscultator Heart	with regular rhythm	tachycardia (more than 100 beats \min)
Rate and Rhythm		may result in decreased cardiac output
Auscultation for a	The radial and apical pulse	A pulse deficit (differences between the
pulse deficit by	should be identified	apical and peripheral \ radial pulses)
palpating the		may indicate atrial fibrillation,
radial pulse while		premature ventricular contraction, and
auscultating the		varying degrees of heart block
apical pulse in full		
min		
Auscultation to	SI corresponds with each	
identify Sl or "lub"	carotid pulsation and is	
(systole) and S2	loudest at the apex of the	
"dub"	heart S2 immediately follows	
	after SI and is loudest at the	
	base of the heart	

Is 1st sound

- -Produced by the closure of the mitral and tricuspid valve leaflets after entry of blood to right and left ventricles
- -Heard over the apex or over all five locations

Is the 2nd sound

- -Produced by the closure of the aorta and pulmonary artery
- -Heard over the base of the heart in the aorta and pulmonary artery the
- S1-----Systolic Pause S2-----Diastolic pause S1

Auscultation for	Normally no sounds are	Sounds such as S3 and S4, murmurs
extra heart sound	heard	(originated from stenotic valves are best
		heard with the bell)
		A friction rub may also be heard during
		the systolic pause

S3heart sound S1-----Systolic Pause S2-----S3 Diastolic S1

S 3	-Listen to it using the ball of the stethoscope in the apex area
	-S3 the early diastolic sound occurring shortly after s2
	-Its soft ,dull sound
	-Left lateral position is best position for auscultating the sound
	-It may be physiological or pathological
	-It's physiological when client is a child, young pregnant or even up to the age of 40
	-Client over 40 considered the sound pathological and called ventricular gallop
	-Its' considered an early signs of the onset of congestive heart failure

S4heart sound S1----Systolic Pause S2---- Diastolic pause S4---- S1

S 4	-using the ball of the stethoscope in the apex area
	-the late diastolic sound occurring just before Sl
	-Left lateral position is best position for auscultation the sound
	-It is very soft sound
	-It may be physiological or pathological
	-Normally found in children ,older adults and athletes
	-It reflects decreased ventricular compliance
	-This is term as a trial gallop
	-Condition that may contribute to the development of an S4 include MI, CAD, Aortic
	stenosis and hypertension