Endocrine



Breast Examination

Breast Examination		
General inspection		
A-Preparation: Pre-exam Checklist: WIPE		
1- Wash your hands		
2- Introduce yourself to the patient, confirm patient's ID, explain the examination & take consent.		
3- Positioning of the patient "lying flat" and insure his/her privacy.		
4- Exposure. Full exposure of the trunk		
B-General appearance: ABC2DEVs		
1- Appearance: young, middle aged, or old, and looks generally well or ill.	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	Begin by observing the	
obese	patient's general health from the	
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).	end 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).	
4- Color: jaundiced, pale, or	Oriented to time, place and	
cyanosed 5- Distress: in pain, respiratory	person. • Also look for syndromes that	
(using accessory muscles), or neurological (abnormal movements) distress	Also look for syndromes that associated with cardiac disease (Marfan, Down and Tunner syndromes).	
6- Else: consciousness, alertness, and orientation.		

7- Vital signs:

- 1) Pulse rate*
- 2) Blood pressure (BP)
- 3) Temperature
- 4) Respiratory rate

*Tachycardia in anemic patient: Increased cardiac output due to reduced oxygen-carrying capacity of their blood Take the patient's <u>radial pulse</u>: Rate: counting over 30 seconds, normally 60-100. Rhythm: regular or irregular.

Synchronization by comparing with the other side (radio radial or radio femoral delay).

Character and volume:
determined from the carotid.
Take his/her blood pressure
(sitting or lying and standing
"postural hypotension"). Normal
BP defined as a systolic reading
less the 140, and diastolic
reading less than 90.

Temperature: Normal range from 36.6-37.20C.

Respiratory rate: It is traditional to count it while taking the pulse. The normal rate at rest should not exceed 25 breaths per minute (range 16-25).

Breast Examination

- 1- Inspection of the breast
- 2- Palpate the breast
- 3- Palpate the lymph nodes
- 4- Examine the hand
- 5- Examine the back

Breast Examination

Position:

- 1- 45° degrees: makes the breast fall sideways.
- 2- Upright settings: makes the breast pendulous.

Exposure:

- The patient must be fully undressed to the waist. (upper half of the body)

Inspection		
Inspection		
Size		ompare
Symmetry and		y <u>marked</u> size in difference onset is likely
contour	to	be caused by significant pathology.
Skin changes	- Th	e skin may <u>have pulled</u> by the
_	un	derlying cancer.
	Me	echanism: may be oedema caused by
		struction of skin lymphatics by cancer
	ce	lls, which is commonly referred to as peau
	ďc	orange.
	- No	odules of tumour or a malignant ulcer.
	Me	echanism: due to direct invasion of the
	ski	in by a cancer.
The nipple and areolae	- Pro	esence or absence - Color
	- As	ymmetry - Discharge
	(Change with age, there is darkening during	
	pregnancy)	
Duplication		ay be accessory nipples along the
		ammary line from axilla to groin
		R, visible ectopic breast tissue in the
	an	terior axillary fold.
Maneuvers:		
1- Ask the patient to slowly Skin changes may then become m		Skin changes may then become more
raise her arms above her		apparent particularly tethering to
head.		carcinoma.
Note: Exposure of the und	derside of	the breasts in an obese patient with large
breasts may reveal intertri	igo (inflan	nmation of the skin fold)
2- Ask the patient to press her		To tense pectoralis muscles. This may
hands against her hips.		reveal previously invisible swelling.
Axillae, arms, and supraclavi	cular	Grossly enlarged lymph glands may be
fossa.		visible, and distended veins or arm
		lymphedema may be obvious.

Palpation		
The breast should be palpated with the flat of the fingers.		
Begins with the normal side or face the patient and feel both breasts Palpation is performed gently	Always compare!! It may quite soft and apparently featureless, or it may firm and fibrous, with easily palpable nodules, which are in fact normal lobules -Feel the four quadrants of each breast	
with the pulps of the middle three fingers parallel to the contour of the breast.	systematically	
- Feel the axillary tail	Which lies over the anterior axillary fold.	
If you find a lump:	 Site Shape Size Surface Edge Tenderness Temperature Consistency 	
Relation to Skin:	 If a lump is pulled outside the arc the skin indents, it is tethered. It a lump cannot be moved without moving the skin, it is fixed. 	
Relation to the structures beneath the breast:	- The difference between fixation and tethering to deep structures is less obvious because the muscles beneath the breast are invisible, soft and mobile. If there is a deep-seated lump, ask the patient to press her hand against her hip, therapy tensing the pectoral muscles. If the lesion becomes less mobile, it is either fixed or tethered. The less the movement, the more likely the lump is fixed.	

The nipple	-Feel behind the nipple for lumps
	-If there is nipple inversion, it may be possible to evert it by gentle squeezing its base or by asking the patient to do it
	-If the nipple did not evert, there is likely to be underling disease. Unilateral inversion is more significant than bilateral inversion.
	-Nipple discharges find which segment and duct, and nature of discharges (blood, milk or serous)
Palpate the axilla:	Record the: - Number of lymph nodes - Size - Consistency and fixity Palpate the walls of the axilla (medial, anterior, lateral, posterior, and apical) *Small, firm, "shotty" glands can often felt in thin patients, but this finding is usually symmetrical.
Maneuver:	
 Stand on the patient's right side. Take hold of her right elbow with your right hand and let her forearm rest on your forearm. Place your left hand flat against the chest wall and feel for any glands that may lie in the central of medial aspects. 	- To reduce the tense of the muscles.

- -To reach the apex of the axilla you will have to push the tips of your fingers upwards and inwards.
- -Next move your left hand anteriorly over the edge of the pectoralis minor muscles and downwards into the axillary tail and behind the edge of the pectoralis major. Turn your hand (or changes hand) to feel the subscapular glands on the posterior wall of the axilla, and finally feel the lateral aspect of the axilla in case of there are any brachial glands level with the neck of the humerus.
- -You may be able to obtain good access to the axilla by asking her to place her hands on her iliac crests and slacken her muscles, and then approach from in front. This position is particularly useful for comparing the two sides when glands are palpated but may not be pathological.

- Palpate the supraclavicular	Record the:
fossa.	 Number of lymph nodes
 Palpate the neck 	- Size
	 Consistency and fixity
- Examine the arms	Swelling or any neurological or vascular abnormalities.

General examination		
Do complete general examination and look for any evidence for distant metastasis		
Chest	Percuss the base of the lungs for any evidence of pleural effusion (Lung metastasis)	
- Palpate the abdomen	Hepatomegaly, or ascites	
- Lumbar spine	Percuss over the spine look for tenderness and limitation of movement (suggestive of bone metastasis)	



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