

group A₁ surgery

breast ca

پیشگیری

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Q₁ Sign 2 symptoms of breast cancer?

- * Symptoms → ① firm or hard lump in the breast
- ② lump in the armpit ③ change in shape and size of breast
- ④ change to the nipple ⑤ discharge / blood from the nipple.
- * late symp.: - ① double vision ② muscle weakness ③ headache
- ④ nausea ⑤ cough ⑥ shortness of breath ⑦ jaundice.
- ⑧ loss of appetite ⑨ wt loss ⑩ bone pain.
- ⑪ dimpling or puckering on the breast.
- ⑫ thickening of the skin orange peel texture.
- ⑬ swelling of all or part of the breast ⑭ persistent pain in area of the breast.
- ⑮ scaling

* Signs :- ① Lump or thickened tissue ② skin change

- ③ Redness, Pain, swelling ⑤ nipple change ⑥ discharge
- ⑦ vein growth

Q₂ important point in examination of breast ca?

* main Complaint:- H/O present illness + duration.

① importance of age : Fibroadenoma 20yr

- carcinoma > 50 yr → mamogram > 35.

- choice of TT depend on age.

② cause of painful breast → mastalgia.

Fibroadenosis, mastitis, abscess, sarc in Cancer

③ Risk factor of breast ca: major factor: age > 50

sex ♀, genetic, F/H, nullipara

moderate :- early menarche, late menopause, non lactating

Late pregnancy > 30 yr,

⑤ causes of nipple retraction:-

congenital, cancer, duct ectasia, chronic breast abscess.

⑥ causes of nipple discharge:-

bloody → duct papilloma (profuse) and duct carcinoma

green →

yellow → abscess

⑦ paget disease eczema vs dermatitis:-

* in dermatitis, eczema is itching, oozing, bilateral
Respond to treatment, young patient, no lump, intact nipple

* in paget opposite

⑧ Dx of breast CA:-

x triple assessment ① clinical H/O, examination.

② radiological mammogram, USS MRI

③ biopsy FNAC or excisional.

x U/S → early, cheap, available, informative, non invasive
- can differentiate cystic from solid

- done for pt < 35 yr

- for cystic do FNAC → malignant if

- for solid do Biopsy

bladdly
residual
& recurrence
rapid

true cytology

Frozen section
incisional

excisional true

* mammography → micro calcification, stellate, speculated irregular, calcification, ↑ vascularity

change of architecture, thick skin.

(9) Complications of mastectomy:-

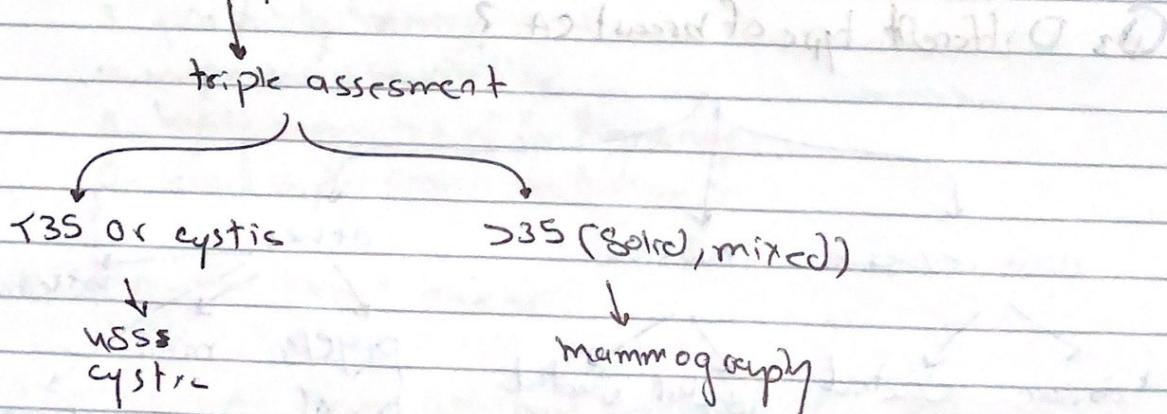
- Specific complications are → lymphoedema, hematoma, seroma, bridle scar (limit abduction), nerve injury (long thoracic or thoracodorsal) skin necrosis.
 - ↓ Serratus ant.
 - ↓ Lattissimus dorsi.

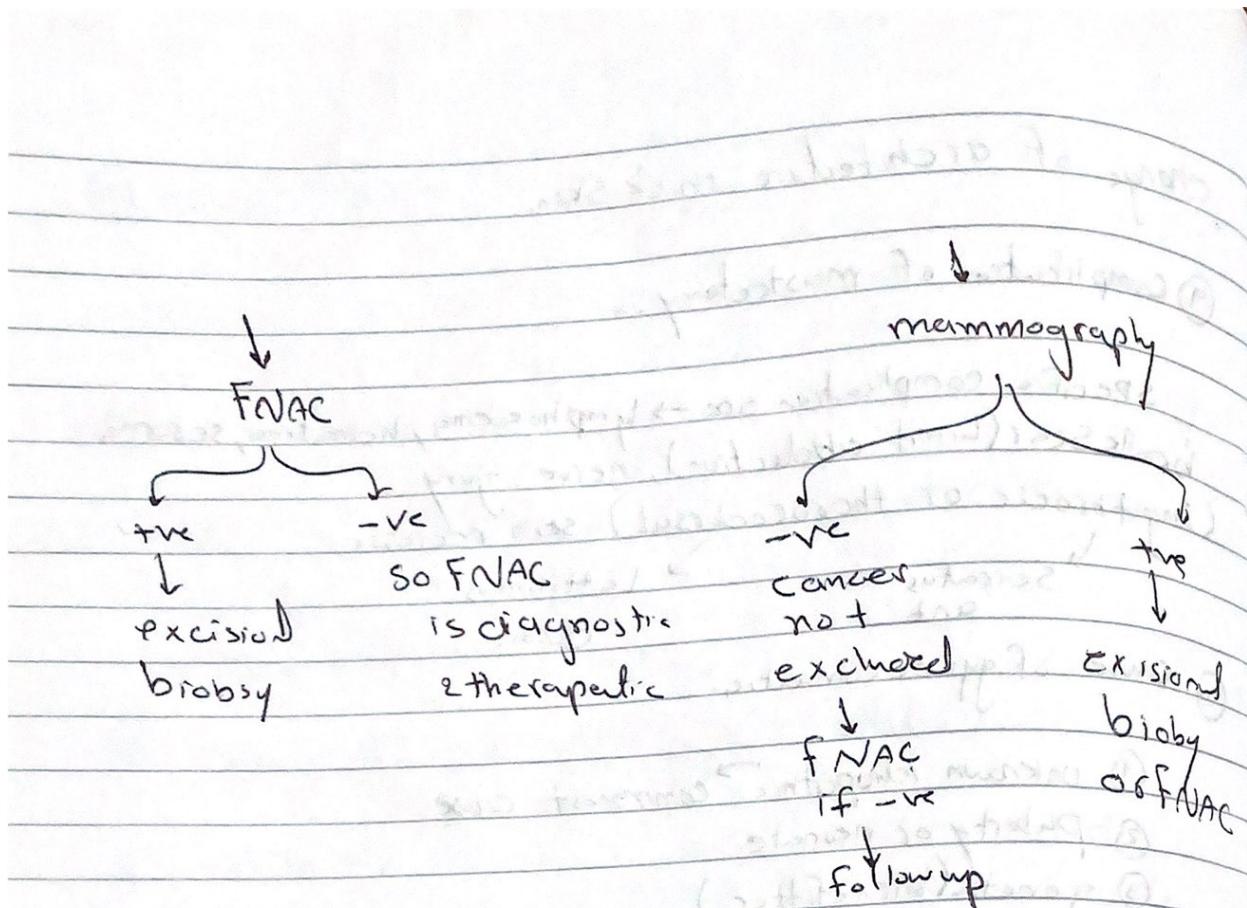
(10) Cause of gynaecomastia:-

- Unknown idiopathic → commonest cause
- Puberty or neonate.
- genetic (klinefitter.)
- iatrogenic (drug) → digitalis, Cimetidine, Reserpine,
- aldactone, estrogen therapy (eA prostate)
- ↓ testosterone: - orchidectomy, testis atrophy, mumps
- ↓ estrogen: - steroid cell tumor, cancer lung
- Liver cell failure.

(11) Fibroadenosis (AND)

(12) Breast lump approach.



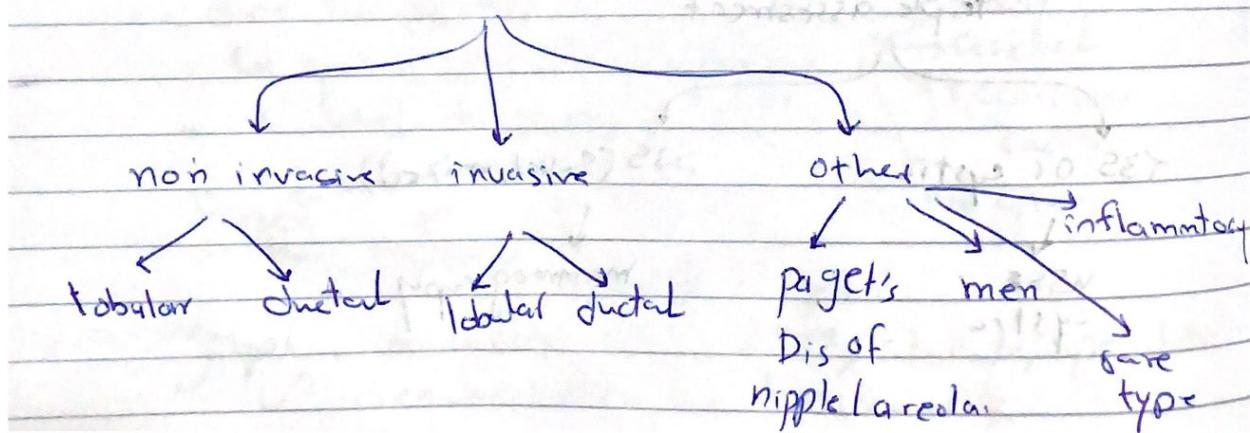


⑬ D/D of large unilateral breast.

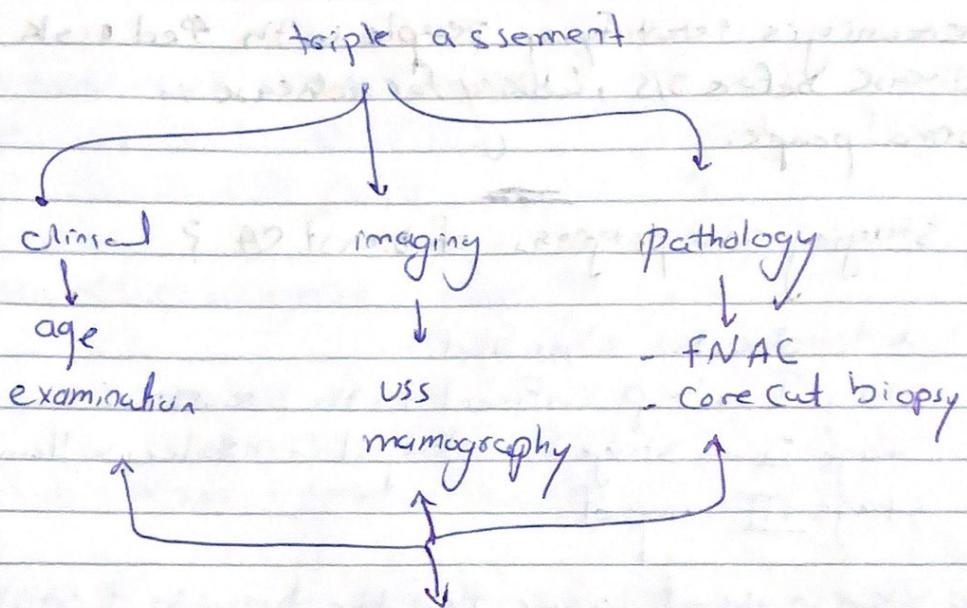
- giant fibroactomy, phyllod tumor, vascular malformation, sarcoma

④ P/D of breast lumb / breast pain / nipple discharge
nipple retraction.

Q3 Different type of breast CA?



Qn How to Dx breast CA ?



Qn BIRADS system in mammogram.

(breast imaging Reporting And Data system)

include: 0- incomplete

- 1- negative
- 2- benign finding
- 3- probably benign
- 4- suspicious abnormality
- 5- highly suggestive of malignancy
- 6- known biopsy proven malignancy.

* screening for breast cancer:-

- all women over 20 yr advised to examine her breast monthly (breast self exam)

- mammographic screening 3 yearly for women aged 50-64 yr

- screening is identifying people with ~~4~~ red risks or disease before S/S, looking for disease in abnormal people.

Q₃ Staging and prognosis of breast CA?

* manchester classification:

Stage I → lump confined to the breast

stage II → stage I + enlarged & mobile axillary L.N

Stage III any of

* Skin involvement larger than the tumor but still limited to the breast

* Fixed tumor to pectoral muscle

* Fixed axillary L.Ns

* Ipsilateral supraclavicular LNs

* oedema of the arm

* Stage IV = Distant mets

- skin involves 1/2 side of the breast

- fixed tumor to the chest wall

- Distant mets

- involvement of the opposite breast or axilla

* TNM staging:

① Primary tumor:

- T₀ = No evidence of primary tumor

- T_{is} - CA in situ (LCIS - DCIS)

 Paget's disease of the nipple
 w/o tumor

- T₁ = tumor < 2cm in greatest dimension.

- T₂ = tumor > 2cm but < 5cm.

- T₃ = tumor > 5cm in greatest Dimension.

- T₄ = tumor of any size with direct extension to chest wall
 or skin.

② Regional Lymph node: N₀ = No palpable axillary node

 N₁ = mets to movable axillary nodes

 N₂ = mets to fixed, matted axillary nodes.

③ Distant mets: M₀ = No distant mets

 M₁ = Distant mets

 including ipsilateral supraclavicular nodes.

x clinical stage I → T₁ N₀ M₀

x clinical stage IIA → T₁ N₁ M₀

T₂ N₀ M₀

x clinical stage IIB → T₂ N₁ M₀

T₃ N₀ M₀

x clinical stage IIIA → T₁ N₂ M₀

T₂ N₂ M₀

T₃ N₁ M₀

T₄ N₂ M₀

x clinical stage IIIB → T₄ any N M₀

x clinical stage IV → any T any N M₁

stage	prognosis (5yr surv rate)
I	>90%
II	>70%
III	<70%
IV	<30%

Q. treatment of breast cancer?

- ① Surgery: Local treatment of early breast cancer
- ② Radiotherapy: local treatment, breast and Axilla.
- ③ chemotherapy: systemic treatment
- ④ Hormone therapy: systemic treatment.
drugs that interfere with hormone production or hormone action
or surgical removal hormone producing glands to kill cancer cell or slow their growth.
- ⑤ immunotherapy

* Type of mastectomy:
① Simple mastectomy: Removal of all breast tissue, nipple-areolar complex and skin with no dissection of the axilla.

② Extended simple mastectomy: removal of all breast tissue, nipple areolar complex, skin, Level I axillary nodes.

③ Modified radical mastectomy - patey's modification
patey mastectomy } it's standard operation.

• Removal of all breast tissue, nipple areolar complex, skin, Level I and Level II axillary nodes. preserving the pectoral Major.

④ Radical mastectomy (Halsted)

⑤ Breast Conservation surgery.

* Various surgical procedures employed are:

- ① wide local excision.

② lumpectomy

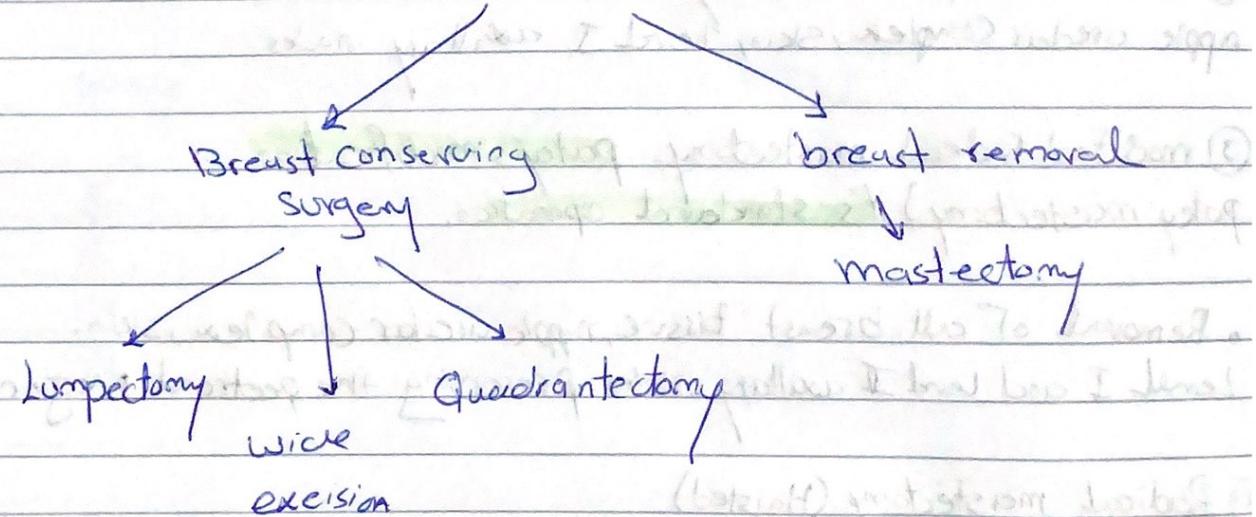
③ quadrantectomy involves removing the entire segment of breast which contains the tumor

- BCS + Axillary lymphadenectomy + postoperative radiation therapy

- axillary surgery, usually via a separate incision in the axilla (sampling the axilla)

- local recurrence more than mastectomy so follow up important

surgeries in breast



* breast reconstruction:-

* time: immediate reconstruction is the ideal

type of reconstruction:

- ① asilicone gel or silicone with saline implant
- ② autogenous transplant: a myocutaneous flap either:
 - a) latissimus dorsi muscle (an L D flap)
 - b) the contralateral transversus abdominis muscle [fram flap]
most common used

x the latter ③ gluteal flap ④ Rubens flap

⑤ lat thigh flap

⑥ external breast prostheses: which fit within the
bra may be also recommended