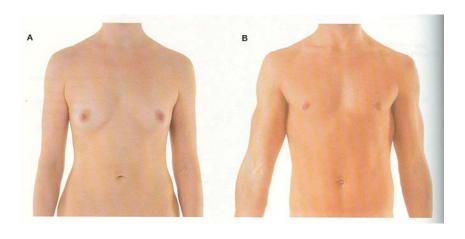
BREAST/ MAMMARY GLAND

Modified sweat gland
Accessary organ of
reproductive system & well
developed after puberty in
female

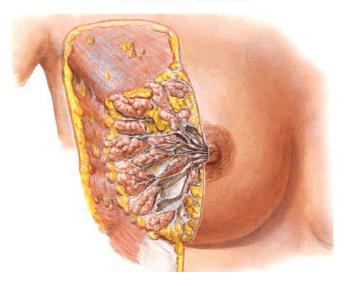
Provides milk to the newborn



Mammary Gland Anterolateral Dissection

SITUATION

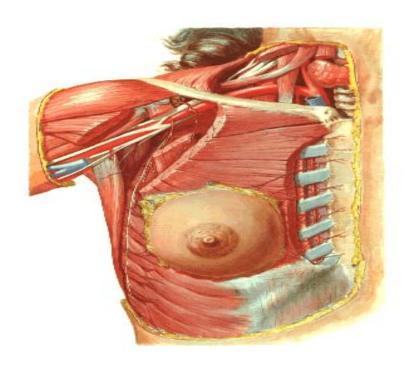
Superficial Axillary tail (of spence) in Axilla



EXTENT

• Vertical: 2 nd -6th rib

 Horizontal :-lat. Bor.of sternum –Mid axillary line Arteries of Mammary Gland



Mammary Gland Sagittal Section



DEEP RELATIONS

Mammary Gland Sagittal Section

- Retromammary space
- Pectoral fascia
- Pectoralis major, Serratus anterior, External oblique abdominis
- Clavipectoral fascia, Pectoralis minor
- 2nd 6th rib & 2nd 5th intercostal space with its contents



STRUCTURE OF BREAST

SKIN Nipple & Areola (no hair &fat)

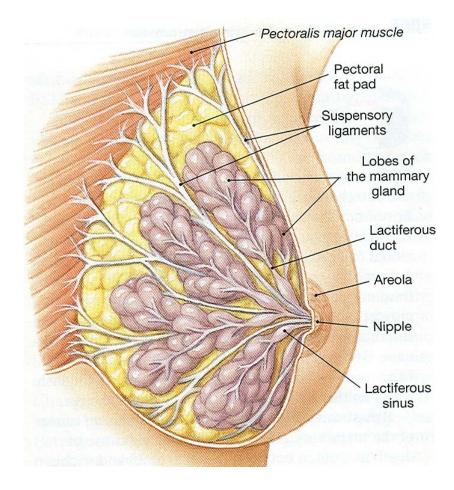
PARENCHYMA(15-20 lobes)

lactiferous duct- I.sinus –alveolus

STROMA

Fibrous(suspensory ligament)

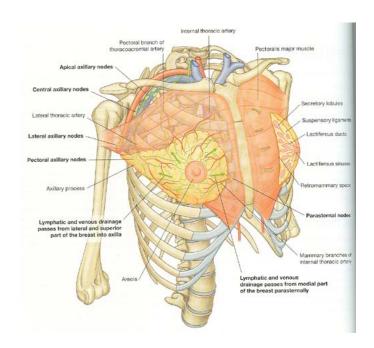
Fat



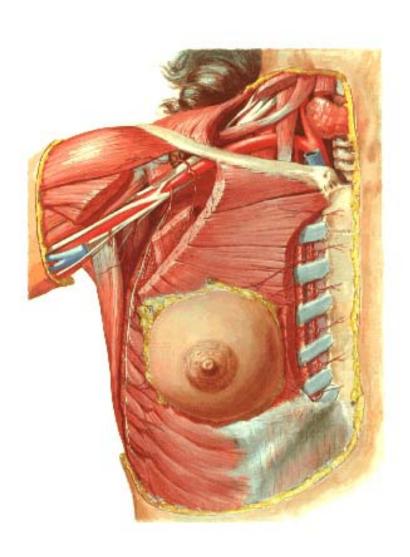
BLOOD SUPPLY

Arterial:supply from ant. Surface (post. Avascular)

- Perf. Branches of int. thoracic art.
- Branches of lat. Thoracic, superior thoracic, acromio thoracic(thoraco acromial)
- Lat. Branches of post.intercostal art.



Arteries of Mammary Gland



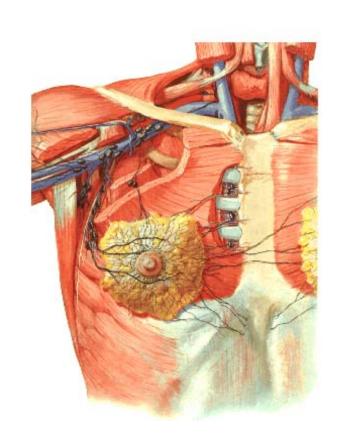
VENOUS DRAINAGE

- Follows the arteries
- Converge towards the base of the nipple & forms an anastomotic v. circle
- Venous circle
 S/F
- I.TH., LOW. PART OF NECK
- DEEP I.TH.,AXILLRY,P.INTERCOSTAL

LYMPHATIC VESSELES

 S/F –SKIN EXCEPT NIPPLE &AREOLA Lymph Vessels and Nodes of Mammary Gland

DEEP PARENCHYMA +
 NIPPLE & AREOLA



LYMPH NODES

• AXILLARY L. N. - ANT. (CHIFLY)

(75%)

-POST.

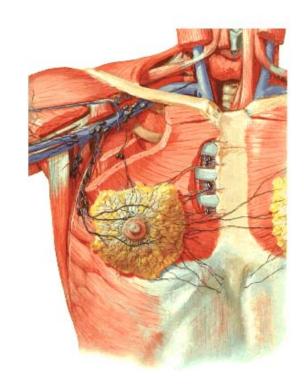
-LAT.

-CENTRAL

-APICAL

 PARASTERNAL(INTERNAL MAMMARY) L.N.
 (20%)

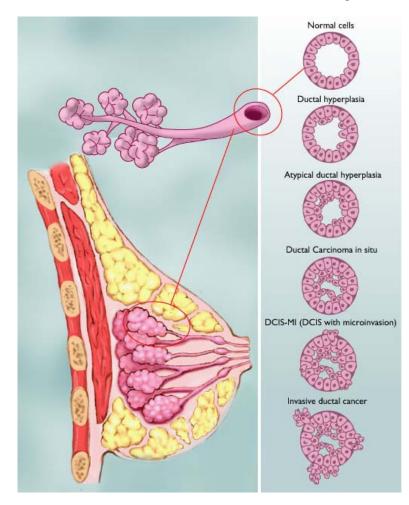
 SUPRACLVICULAR, DELTOPECT ORAL, POST. INTERCOSTAL, SUBDIAPHRAGM ATIC, SUBPERITONEAL (5%) Lymph Vessels and Nodes of Mammary Gland



APPLIED ANATOMY (CARCINOMA & ABSCESSES)

- INCISIONS- RADIALLY (avoid cutting lactiferous ducts)
- BREAST FIXED –(cancer cells infiltrate the suspensory ligaments)
- RETRACTION OR PUCKERING OF THE SKIN – (contraction of ligaments due to cancer cells)
- RETACTION OF NIPPLE

 infiltration of lactiferous ducts & consequent fibrosis



APPLIED ANATOMY (CARCINOMA & ABSCESSES)

- PEAUD' ORANGE
 APPEARANCE –obstruction of s/f lymph vessels
- METASTASIS TO OTHER BREAST —s/f lymphatics communicate across the midline
- METASTASIS TO LIVER & PELVIS-communication with abdomen
- METASTASIS TO VERTEBRAE & BRAIN –veins communicate with the vertebral venous plexus of veins)

