





## External Anatomy of the Breast

- Nipple
- Pigmented, cylindrical
- 4<sup>th</sup> inter-costal space at age 18
- Areola

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- Pigmented area surrounding nipple
- Montgomery's Tubercles
- Sebaceous glands within the
- areola
- Lubricate nipple during lactation



















## Tissue Types

- Glandular tissue
  - Milk-producing
- Fibrous/connective tissue
- Fatty tissue















## **Tissue Composition**

This great variability in the respective proportions of fat and glands in the evaluated specimens was not significantly correlated to age and body mass index.



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## Pseudomamma - Pseudomammae

A kind of supernumerary/accessory nipples with areola and fat tissue.



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## Common Benign Breast Disorders

- Fibrocystic changes
- Intraductal papilloma
- Nipple discharge
- Mammary duct ectasia
- Mastitis
- Male gynecomastia

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## Treatment for Intraductal Papilloma

- Test for occult blood
- Ductogram
- Biopsy
- Excision of involved duct



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# Mammary Duct Ectasia Inflammation and dilation of sub-areolar ducts behind nipples May result in palpable mass because of ductal rupture Greatest incidence after menopause Pathogenesis may be a reaction to stagnant colostrum





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## Signs and Symptoms

- Bilateral from multiple ducts
- Nipple itching
- Drawing or pulling (burning) sensation



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## Mastitis An infection in the tissue of the breast Usually caused by a common bacteria (*Staphylococcus aureus*) found on normal skin Bacteria enter through a break or crack in the skin, usually on the nipple





## Symptoms

- Breast tenderness or warmth to the touch
- General malaise or feeling ill
- Swelling of the breast
- Pain or a burning sensation continuously or while breastfeeding



**Symptoms** 

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## Treatment Mastitis usually improves without treatment If symptoms are bothersome, treatment options may include: Antibiotics Self-care/home remedies Surgery



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**Treatment Surgery:**If antibiotics and self-care methods don't work, the affected milk duct may be surgically removed
Surgery is rarely needed for mammary duct ectasia

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There are many "benign" findings/conditions related to the breast that are not related to the risk and/or onset of breast cancer.







