Pathological Breast Changes

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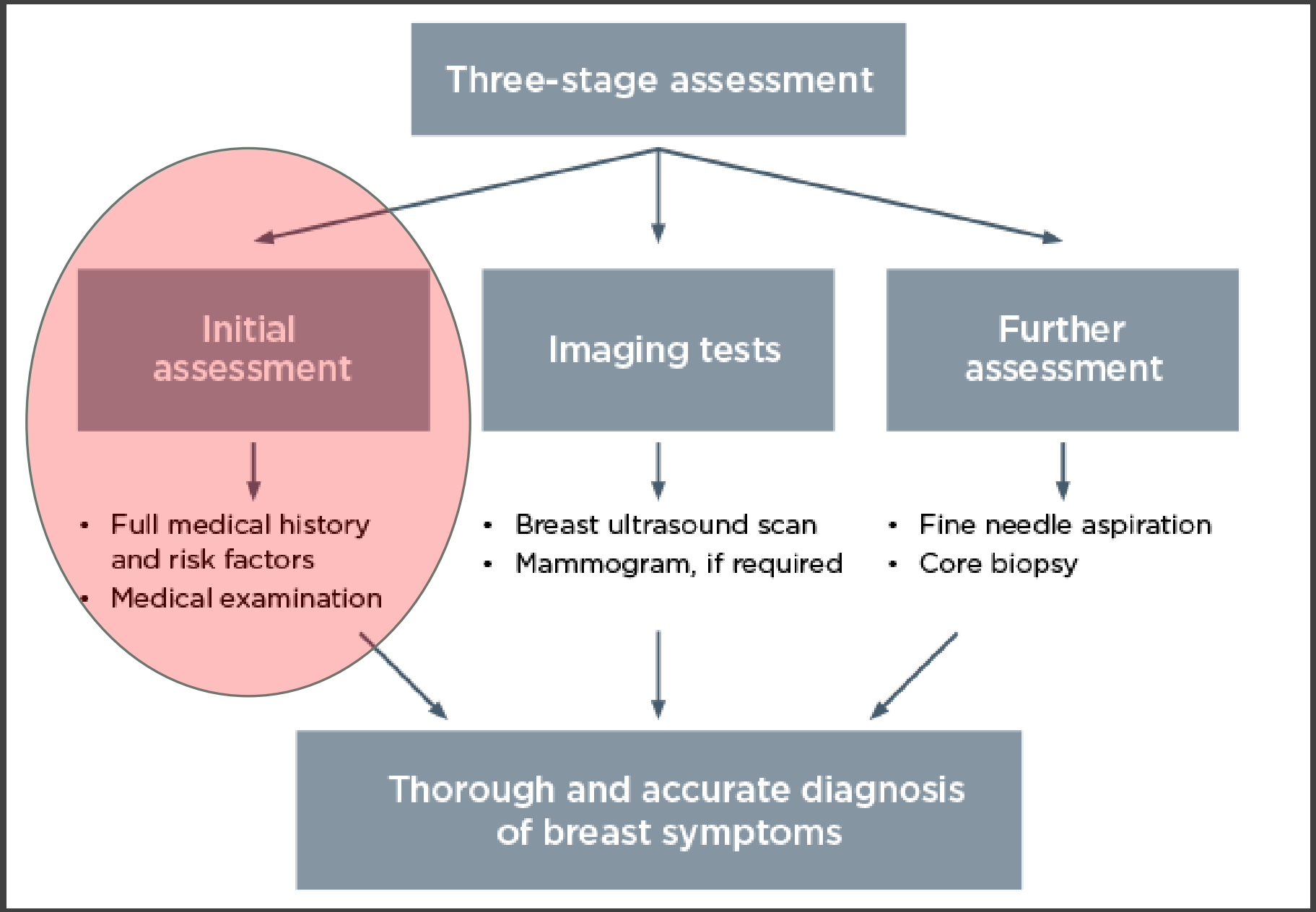

Three-stage assessment
Initial assessment
Imaging tests
Further assessment
• Full medical history and risk factors
• Medical examination
• Breast ultrasound scan
• Mammogram, if required
• Fine needle aspiration
• Core biopsy
Thorough and accurate diagnosis of breast symptoms

Pathology of Breast

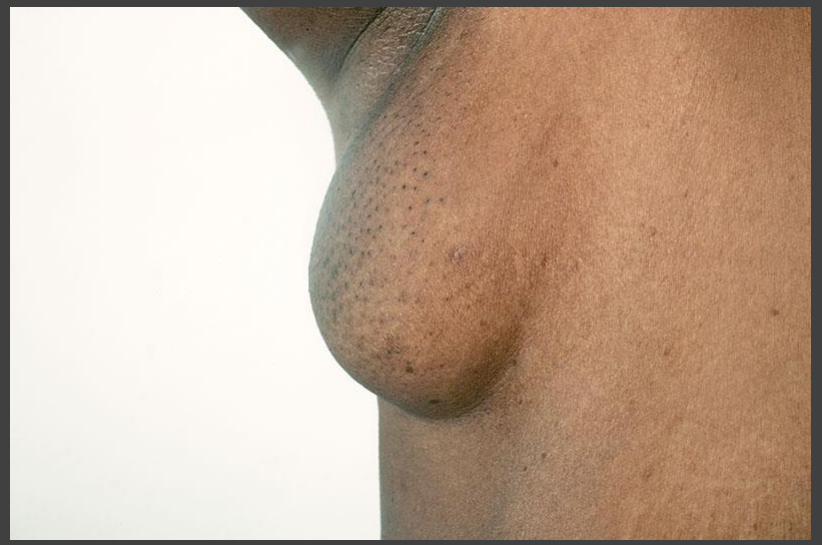
- Disorders of breast development and growth
- Inflammatory breast changes
- Fibrocystic breast changes
- Proliferative breast diseases
- Breast tumors
- Male breast pathology

Congenital breast anomalies

Congenital anomaly	Definition
❑ Polythelia	➢ Supernumery nipple
❑ Athelia	➢ Congenital absence of nipple and areola
❑ Polymastia	➢ Accessory breast along milk line
❑ Amastia	➢ Absence of breast (no breast development)
❑ Amzia	➢ No breast development but nipple is developed

Poland syndrome

- Consists of anatomic anomalies that include the absence of the sternocostal head of the pectoralis major muscle with other varied manifestations that include hypoplasia or absence of the pectoralis minor muscle as well as digital anomalies such as syndactyly.
- Other anomalies include the absence or hypoplasia of the ipsilateral breast, excavatum deformities, and rib aplasia
- Unilateral
- R > L



Disorders of breast development and growth

Breast Hypoplasia

Primary

- ❑ Insufficient mammary glandular tissue
- ❑ Uni- / Bi- lateral breast anolamy

Secondary

- ❑ Radiation treatment
- ❑ History of breast surgery
- ❑ Sever mastitis / abscess / fat necrosis

Disorders of breast development and growth

Breast Hypertrophy / Macromastia

Common signs of breast pathologies

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Common signs of breast pathologies

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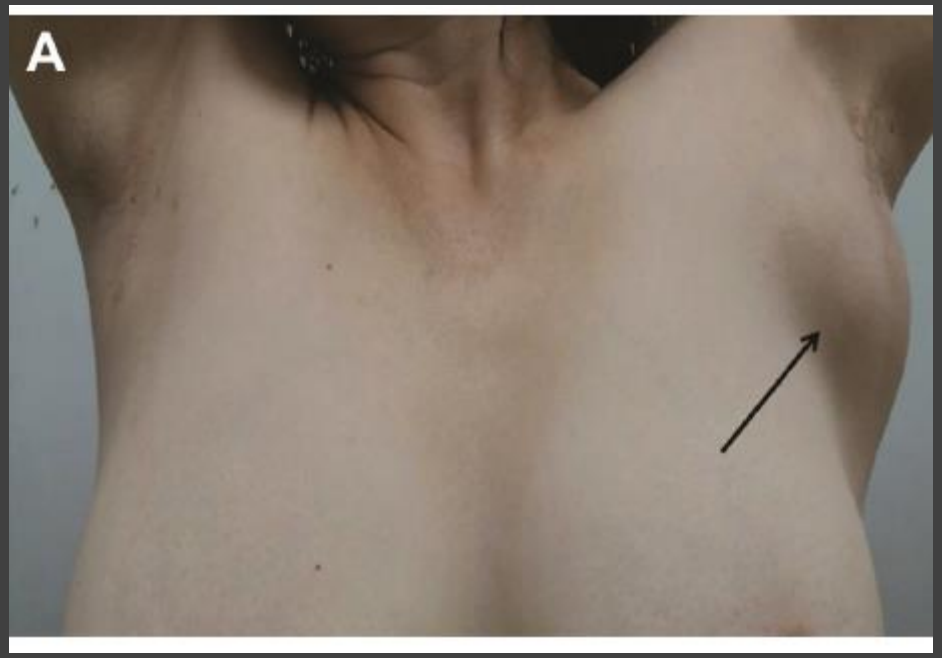
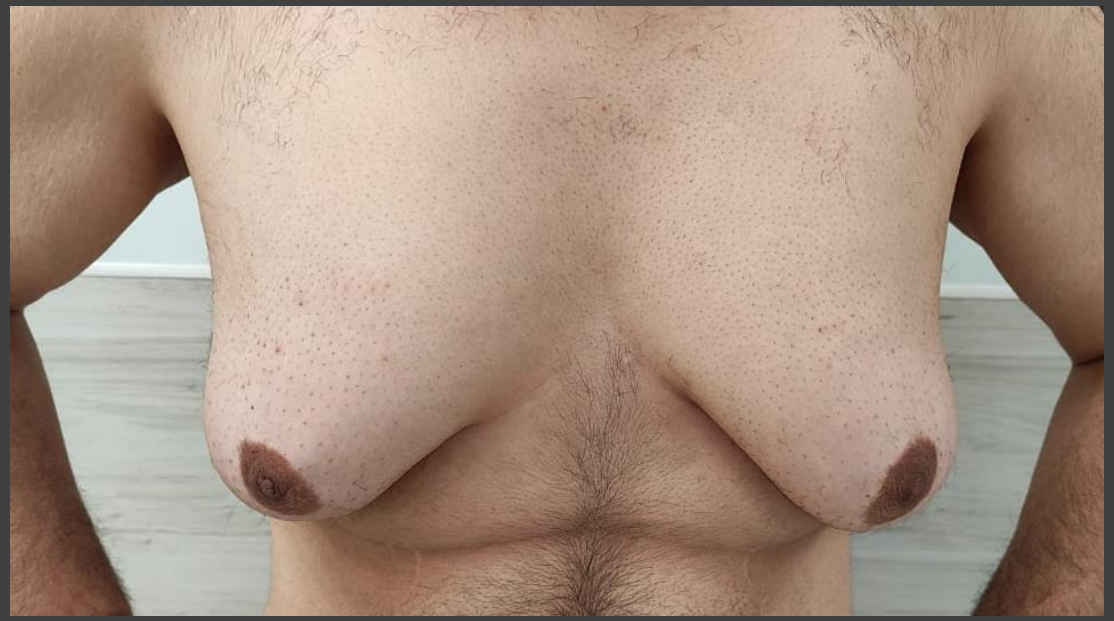
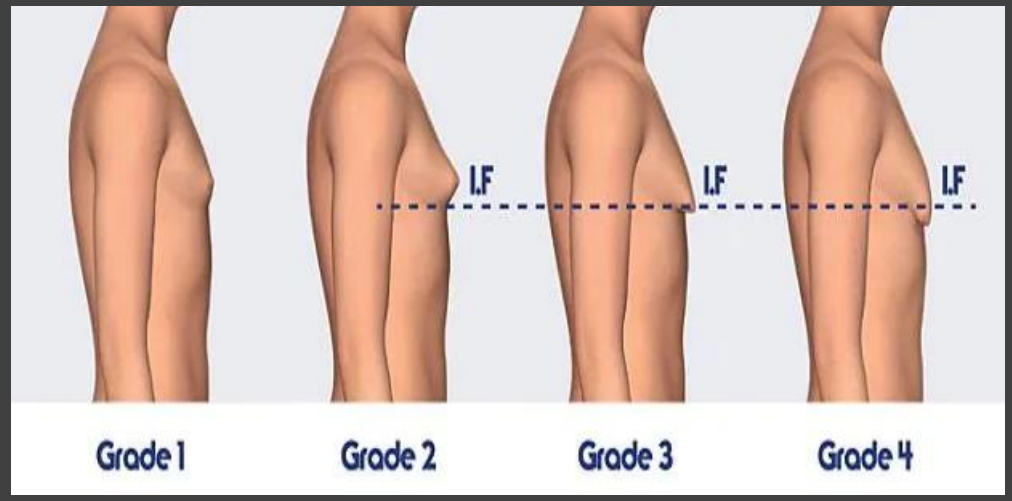


Common signs of breast pathologies

Physiologic Vs. Pathologic nipple discharge	
Pathologic	Physiologic
❑ Bloody	❑ Bilateral
❑ Clear	❑ Nonspontaneous
❑ Unilateral	❑ Milky; green; yellow; brown
❑ Single duct	❑ Multiduct
❑ Palpable breast mass	❑ Negative physical examination
❑ Skin / nipple changes	

Common signs of breast pathologies





Questions?