

# S26 Imaging Used to Diagnose and Treat Invasive Ductal Carcinoma



**Objectives**

- Discuss imaging used to diagnose invasive ductal carcinoma.
- Discuss details regarding treatment of invasive ductal carcinoma.

## Diagnosing Invasive Ductal Carcinoma

### Symptoms

- Patients with invasive ductal carcinoma (IDC) may not present symptoms and is first detected on an annual screening mammogram
- The symptoms a patient may experience with IDC are
  - Thickening of breast skin
  - Lump in breast
  - Nipple discharge
  - Localized breast pain
- These symptoms could indicate IDC and require further imaging to diagnose

### Imaging

- There are different types of imaging used to diagnose IDC
- In some cases, multiple imaging studies are done to accurately diagnose or confidently rule out IDC
- Imaging that may be used to diagnose IDC
  - Digital mammography
  - Breast ultrasound
  - Breast magnetic resonance imaging (MRI)
  - Biopsy

## Treating Invasive Ductal Carcinoma

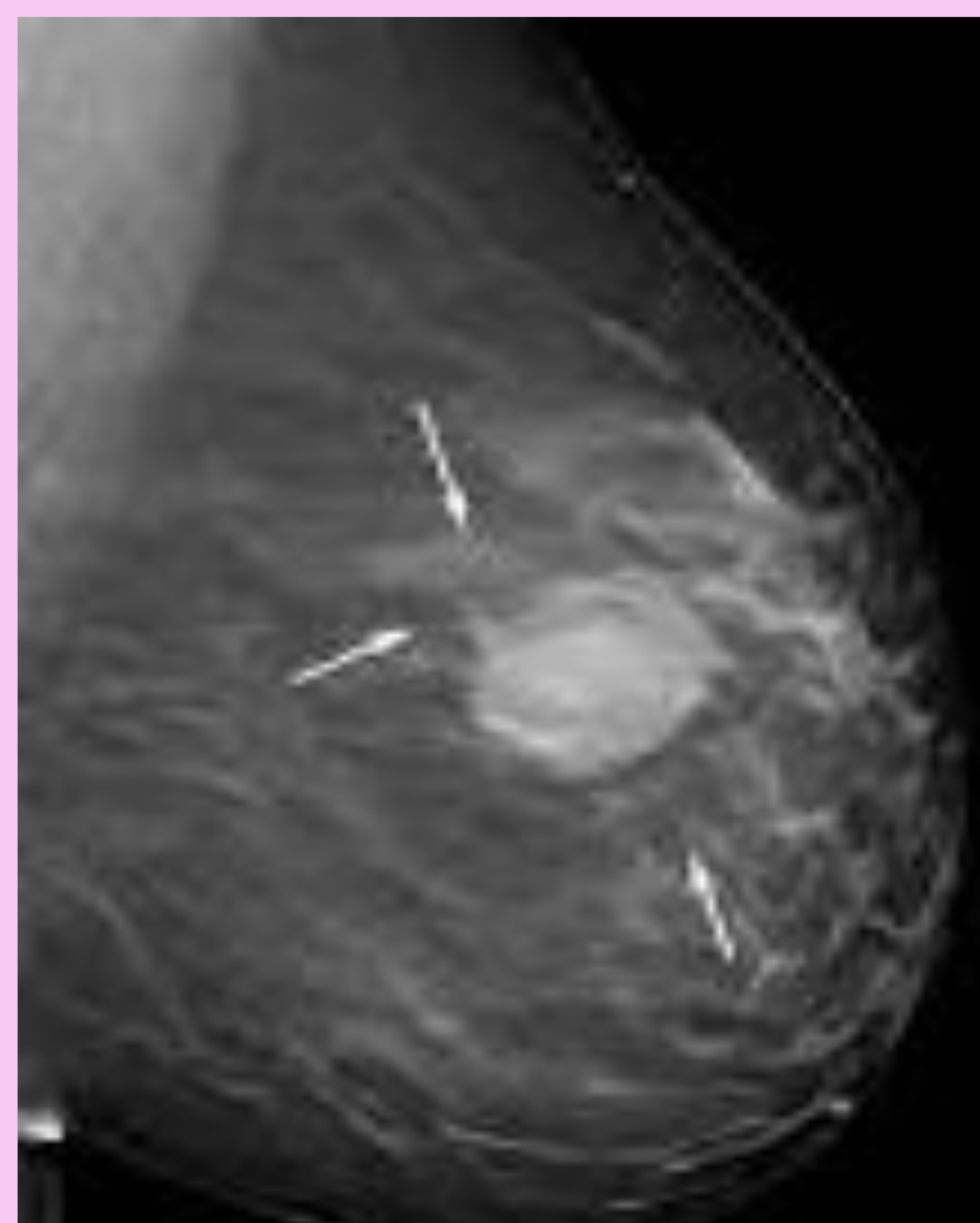
- Treatment depends on cancer cell size, characteristics, and stage
- Surgical Treatment
  - Lumpectomy: Partial breast removal
  - Mastectomy: Total breast removal
- Nonsurgical Treatment
  - Radiation therapy
  - Chemotherapy
  - Hormone therapy
  - Targeted biologic therapy

### Conclusion

- In summary, patients with IDC may experience several changes within their breast, but imaging is essential in making a diagnosis. Digital mammography, breast ultrasound, biopsy, and MRI are common practices used to diagnose IDC. There are also a variety of treatment options available depending on the individual patient. Early detection of IDC through imaging saves lives.

### Digital Mammography

- Is not used to confirm cancer but provides detailed imaging of abnormalities or potential cancer
- Early detection of IDC is usually found in a mammogram and requires more imaging



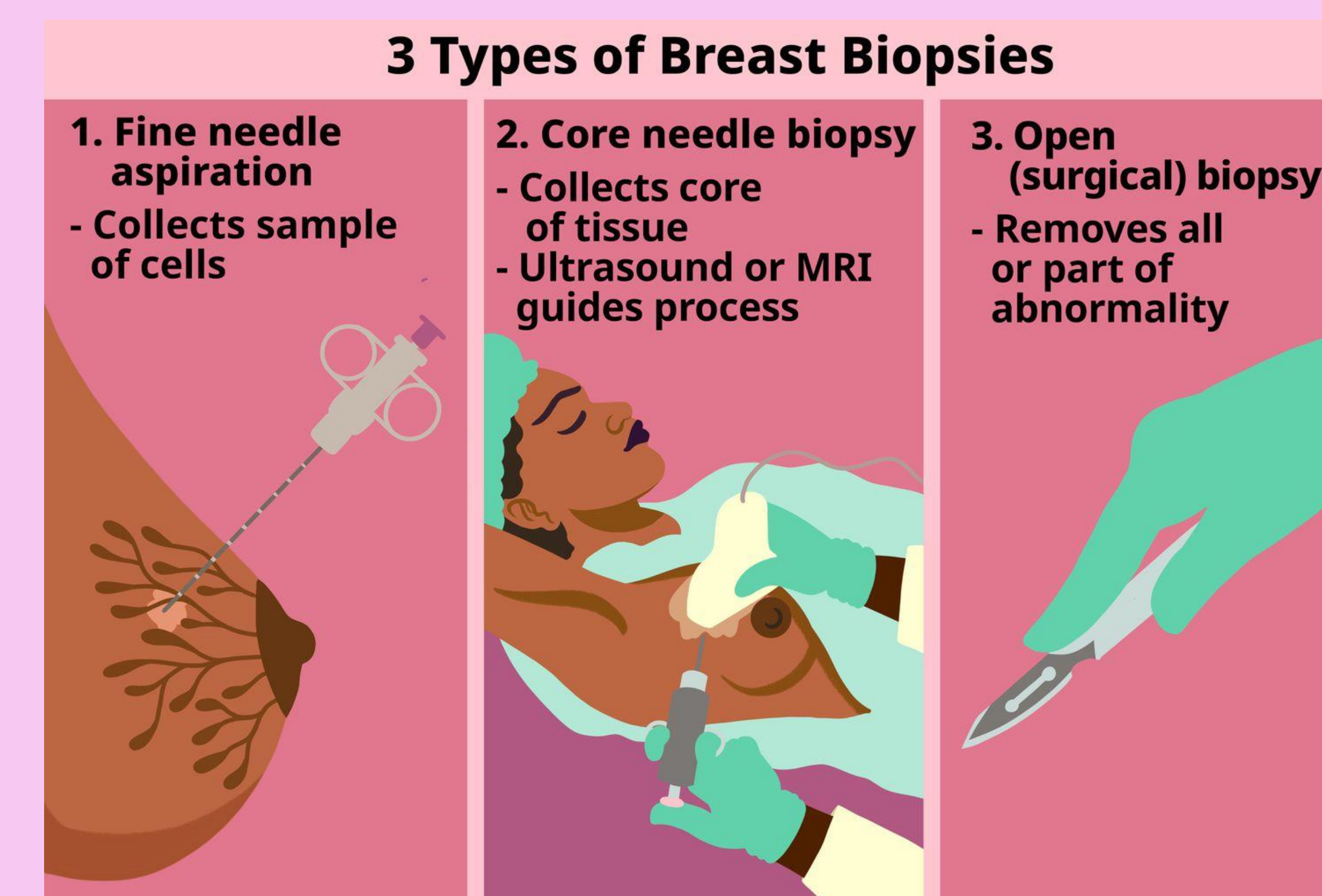
### Breast Ultrasound

- Can be used to distinguish between a fluid filled cyst or a tumor like IDC
- This type of imaging does not use radiation, instead it uses sound waves



### Breast Biopsy

- Performed to remove a part of suspicious breast tissue and then sent to a lab
- Can be done with a biopsy needle or removed in surgery



### Breast MRI

- Used to see if IDC has spread into other parts of the breast
- This type of imaging uses very strong magnets and radio waves to produce a detailed image of the breast

