

# • 2020 Breast Cancer Invasive NCCN • 2020 Breast Cancer, DCIS • Special considerations Guidelines • Phyllodes Tumor NCCN.org/patients • Paget Disease • Breast Cancer during Pregnancy • Inflammatory Breast Cancer

# Treatment Options Surgery to breast and/or lymph nodes Radiation Therapy Chemotherapy Hormone/Endocrine HER2-targeted therapy Bone-targeted therapy Clinical Trials

Adjuvant Therapy – "aids or contributes" to therapy. Given postop where no disease is present.
 Neoadjuvant Therapy - systemic or radiation treatment administered prior to surgery in an attempt to shrink the tumor or destroy regional metastases.

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# Surgery Breast Surgery with or without reconstruction LN Surgery 5

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# **Surgery Coding**

- 3. Code the most **invasive**, **extensive**, **or definitive** surgery if the patient has multiple surgical procedures of the primary site even if there is no residual tumor found in the pathologic specimen from the more extensive surgery.
- 4. Code an excisional biopsy, even when documented as incisional, when:
  - All disease is removed (margins free) OR
  - $\bullet\;$  All gross disease is removed and there is only microscopic residual at the margin
- Note 1: Do not code an excisional biopsy when there is macroscopic residual disease.

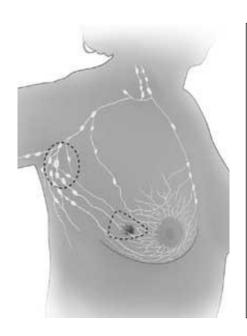
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# Treatment: Surgery

Breast-conserving surgery, an operation to remove the cancer but not the breast itself, includes the following:

- Lumpectomy: Surgery to remove a tumor (lump) and a small amount of normal tissue around it.
- Partial mastectomy: Surgery to remove the part of the breast that has cancer and some normal tissue around it. This procedure is also called a segmental mastectomy.

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# Breast Conserving Surgery

- Dotted lines show the area containing the tumor that is removed and some of the lymph nodes that may be removed.
- Patients who are treated with breast-conserving surgery may also have some of the lymph nodes under the arm removed for biopsy. This procedure is called lymph node dissection. It may be done at the same time as the breast-conserving surgery or after. Lymph node dissection is done through a separate incision.

#### **Surgery Codes**

- 20 Partial mastectomy, NOS; less than total mastectomy, NOS
  - 21 Partial mastectomy WITH nipple resection
  - 22 Lumpectomy or excisional biopsy
  - 23 Reexcision of the biopsy site for gross or microscopic residual disease
  - 24 Segmental mastectomy (including wedge resection, quadrantectomy, tylectomy)

Procedures coded 20–24 remove the gross primary tumor and some of the breast tissue (breast-conserving or -preserving surgery). There may be microscopic residual tumor.

[SEER Note: When a patient has a procedure coded to 20-24 (e.g., lumpectomy) with reconstruction, code only the procedure (e.g., lumpectomy, code 22) as the surgery.]

[SEER Note: Assign code 22 when a patient has a lumpectomy and an additional margin excision during the same procedure.

According to the Commission on Cancer, re-excision of the margins intraoperatively during same surgical event does not require additional resources; it is still 22. Subsequent re-excision of lumpectomy margins during separate surgical event requires additional resources: anesthesia, op room, and surgical staff; it qualifies for code 23.

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#### **Surgery Codes**

30 Subcutaneous mastectomy

A subcutaneous mastectomy, also called nipple sparing mastectomy, is the removal of breast tissue without the nipple and areolar complex or overlying skin. It is performed to facilitate immediate breast reconstruction. Cases coded 30 may be considered to have undergone breast reconstruction.

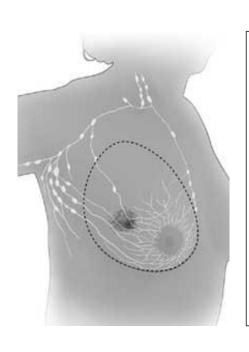
# Nipple sparing

A subcutaneous mastectomy (code 30), also called nipple (or skin) sparing mastectomy

- removal of entire breast and LN removal but preserves minimum of 80% of native breast skin
- facilitate immediate breast reconstruction
- Code 30 may be considered to have undergone breast reconstruction

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# Total (simple) mastectomy

• Total (simple) mastectomy. The dotted line shows where the entire breast is removed. Some lymph nodes under the arm may also be removed.

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#### **Surgery Codes**

- 40 Total (simple) mastectomy, NOS
  - 41 WITHOUT removal of uninvolved contralateral breast
    - 43 Reconstruction, NOS
      - 44 Tissue
      - 45 Implant
      - 46 Combined (tissue and implant)
  - 42 WITH removal of uninvolved contralateral breast
    - 47 Reconstruction, NOS
      - 48 Tissue
      - 49 Implant
      - 75 Combined (tissue and implant)

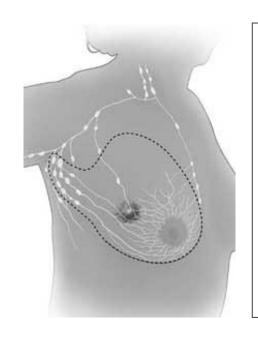
\*\*\*A total simple mastectomy removes all breast tissue, nipple, areolar complex. An axillary dissection is not done.

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#### Notes for Surgery Codes 40-47, 75

- SEER Note: "TISSUE" for reconstruction is considered human tissue or skin.
- SEER Note: Assign code 43 for simple mastectomy with tissue expanders and acellular dermal matrix/AlloDerm. Tissue expander implies prep for reconstruction.
- For **single** primaries only, code removal of involved contral breast under the data item SURGICAL PROCED/OTHER Site.
  - Example: Inflammatory carcinoma involve bilat breasts. Bilat simple mastectomies. Code (41) and also Other site code (1).
- If **contralat breast** reveals **second primary**, each breast abstracted separately. Surgical procedure is 41 for first primary. Surgical code for contral breast to procedure performed on that breast.
- SEER Note: **Tissue expander** at time of orig surgery means reconstruction planned as first course treatment. Code the mastectomy and reconstruction; 43-49, regardless of timing.



# Modified Radical Mastectomy

 Modified radical mastectomy. The dotted line shows where the entire breast and some lymph nodes are removed. Part of the chest wall muscle may also be removed.

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#### Notes for Surgery Codes 50-59, 63

- SEER Note: "In continuity with" or "en bloc" means all the tissues removed during same procedure, not necessarily same specimen.
   Tissue for reconstruction = human tissue in contrast to artificial implants like tissue expanders. Placement of expanders implies reconstruction is planned as first course.
- Assign code 51 or 52: Excisional biopsy and axillary dissection followed by simple mastectomy during first course therapy. Code cumulative result of surgeries, in this case a MRM.
- If contralat breast reveals second primary, each breast abstracted separately. Code 51 for first primary, code contralat breast according to procedure on that site.
- For single primaries only, code removal of involved contral breast under Surgery Other field.

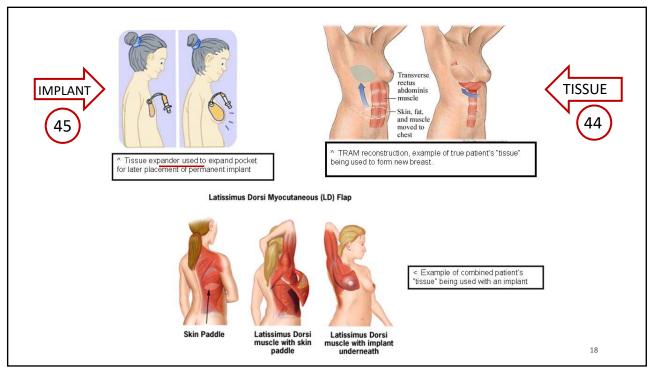
# Reconstruction

Rebuilds contour of breast

- Saline breast Implants
  - Key words: implant, tissue expander, two-stage
- Muscle flap reconstruction
  - Key words: own tissue, tram flaps, belly tissue used [human tissue]
    - TRAM: transverse rectus abdominus myocutaneous flap

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#### Common errors in coding breast surgery

- 22 vs 23 SEER Note: Assign code 22 when pt has lumpectomy and an additional margin excision during the same procedure. A separate surgical event qualifies for code 23 (diff anesthesia, op room, staff).
  - Lumpectomy and additional margin excision during the same procedure
    - Code: 22
- 41 vs 51 SEER Note: A total (simple) mastectomy removes all breast tissue, the nipple, and the areolar complex. An axillary dissection is not done code 41. If dissection is done, move to the 51 codes.
  - Simple mastectomy and SLN bx
    - CODE: 41
  - Total mastectomy with SLN biopsy plus LN dissection
    - CODE: 51

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# LN Surgery Breast Surgery with or without reconstruction Scope LN Surgery 20

# Scope Regional Lymph Node Surgery

Sentinel Lymph Node Biopsy

• First node in lymphatic basin

**Axillary Lymph Node Dissection** 

 Multiple nodes along LN chain, regional

Scope of LN Surgery

 Describes procedure of removal, biopsy, or aspiration of regional lymph nodes during initial workup or first course therapy.

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### Scope Regional LN Surgery

Source: Operative Report

- Look for sentinel LN biopsy alone or combined with a regional LN dissection, or fails to map.
- Regional lymph nodes only
- The Scope of Regional Lymph Node field is cumulative.
  - Add all of the lymph nodes removed during each surgical procedure performed as part of the first course of treatment.
- Code the removal of regional nodes for both primaries when the patient has two primaries with common regional lymph nodes.

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# Sentinel LN Biopsy [SLNB]

- If clinical workup for lymph node mets is negative, a SLNB may be indicated.
- If clinical workup for lymph node mets is positive, a SLNB would NOT be indicated.
- Note: When a SLNBx is performed, additional non-sentinel nodes can be taken during the same operative procedure. These additional nonsentinel nodes may be discovered by the pathologist or selectively removed (or harvested) as part of the SLNBx procedure by the surgeon. Code this as a SLNBx (code 2). If review of the operative report confirms that a regional lymph node dissection followed the SLNBx, code these cases as 6.

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Instructions for coding sentinel lymph node biopsies (SLNBx) have been clarified for 2012 and later diagnoses.

Additional instructions for breast primaries (C500-C509) follow the general coding instructions.

#### Code Description

- No regional lymph nodes removed or aspirated; diagnosed at autopsy.
  - Biopsy or aspiration of regional lymph node, NOS
- 2 Sentinel lymph node biopsy [only]
- 3 Number of regional lymph nodes removed unknown, not stated; regional lymph nodes removed, NOS
- 4 1 to 3 regional lymph nodes removed
- 5 4 or more regional lymph nodes removed
- 6 Sentinel node biopsy and code 3, 4, or 5 at same time or timing not noted
- 7 Sentinel node biopsy and code 3, 4, or 5 at different times
- 9 Unknown or not applicable

#### **Coding Instructions**

1. Use the operative report as the primary source document to determine whether the operative procedure was a SLNBx, or a more extensive dissection of regional lymph nodes, or a combination of both SLNBx and regional lymph node dissection. The operative report will designate the surgeon's planned procedure as well as a description of the procedure that was actually performed. The pathology report may be used to complement the information appearing in the operative report, but the operative report takes precedence when attempting to distinguish between SLNBx and regional lymph node dissection or a combination of these two procedures. Do not use the number of lymph nodes removed and pathologically examined as the sole means of distinguishing between a SLNBx and a regional lymph node dissection.

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#### SLNBx for Breast primary

**Operative Report** takes precedence

Code 1: Excisional biopsy or aspiration of reg LNs for breast cancer is uncommon.

Code 2: If large number of LNs (>5) path examined, review OP REPORT to confirm SLNBx and did not include an ALND. If fails to map (no SLN found) then look at OP REPORT to see if ALND was carried out and additional axillary incision was made.

Code 3, 4, 5: Generally ALND removes at least 7-9 nodes; however it is possible to harvest fewer than that. Review OP REPORT to confirm no SLNBx done.

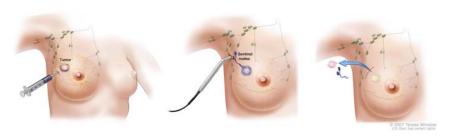
Code 6: SLNBx followed by ALND will yield minimum of 7-9 nodes.

Code 7: SLNBx and ALND at different times. Same notes as Code 6.

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#### Sentinel LN procedure



Sentinel lymph node biopsy.

- 1. Radioactive substance and/or blue dye is injected near the tumor
- 2. The injected material is followed visually or with a probe
- 3. The first lymph nodes to take up the material are removed and checked for cancer cells

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# Date of SLNBx

- New for 2018
- Required for breast and cutaneous melanoma only
- Record the date of the SLNBx only
  - Not the FNA, core needle biopsy, core biopsy
- If SLNBx and ALND done at same time dates will be the same.

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# **SLN Examined**

For breast and cutaneous melanoma only

- Document total # sampled during SLN procedure (even when sentinel and non-sentinel nodes are sampled during SLNBx procedure.
  - Record total # of nodes from procedure.
- Number of sentinel nodes should be equal or less than number of Reg Nodes Examined field.

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# **SLN Positive**

For Breast and cutaneous lymphoma only

- Document total # of positive nodes identified during SLN procedure.
- Number of pos SLN should be less than or equal to total number of Reg Nodes Pos field.

#### FOR BREAST ONLY:

- Use code 97 when SLNBx performed <u>during same procedure</u> as regional LND
- SLN are negative when only pos ITC's are identified

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#### Common errors in coding Scope RLN Surg

- SLN mapping and biopsy only correct Code 2
- SLN Biopsy plus a dissection correct code 6
- R breast mastectomy w/SLN biopsy correct Code 2
- L total (simple) mastectomy, L axillary SLN excision. Total of 0/5 pos LNs correct Code 2

# Adjuvant Therapy Chemotherapy Radiation therapy Endocrine therapy Targeted Therapy Clinical Trials 31

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# **Adjuvant Chemotherapy**

- What is the hormone status and HER2?
- Where the lymph nodes involved?
- HER2 positive status
- Triple negative: Chemo only systemic therapy that can be used

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#### Common Chemotherapy

Combination Chemotherapy (some combinations include \*hormones)

CMF (cytoxan, methotrexate, 5-FU)

CMFP (cytoxan, methotrexate, 5-FU, prednisone)

CAF (cytoxan, adriamycin, 5-FU) (also called FAC)

CA +/- tamoxifen (cytoxan, adriamycin, \*tamoxifen) (also called AC +/-tamoxifen)

CMFVP (cytoxan, methotrexate, 5-FU, vincristine, \*prednisone)

PAF (L-pam/melphalan, adriamycin, 5-FU)

L-pam and 5-FU

Docetaxel (taxotere)

Paclitaxel (taxol)

AC with Taxol

Search SEERx regimen

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# **Radiation Therapy**

Usually follows lumpectomy or other breast conserving surgery

Pre-op used to shrink tumors before surgery

Post-op if they cannot successfully remove tumor (next to ribs cage or chest wall muscles) or larger than 2 cm

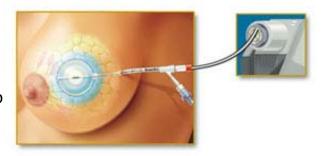
Also used to treat chest wall recurrence or metastatic disease

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#### MammoSite

- Accelerated Partial Breast Irradiation [APBI]
- MammoSite® 5-Day Targeted Radiation Therapy
- Placement
- Treatment
- Removal

www.mammosite.co



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### **IORT**

- Intraoperative Radiotherapy is administered as a single treatment during surgery. Convenient for patient. No repeated visits.
- Lumpectomy cavity or tumor bed. IORT delivery device inserted. Radiation to cavity, approx. 30 min. Remove device and suture breast.

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# Preoperative (neoadjuvant) radiation



- Preop RT followed by radical surgery feasible
- Good long-term locoregional control
- Based on T2-T4 or N2 tumors

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# **ENDOCRINE**

Removes hormones or blocks their action and stops cancer cells from growing

- Ovarian ablation is a hormonal maneuver. Can be done surgically or with LHRH drugs like Lupron or Zoladex to suppress ovaries.
  - Coded in Heme Transplant/Endo Proc
- Aromatase inhibitors: Anastrozole (Arimidex), Letrozole (Femara), exemestane (Aromasin) for post-menopausal women.
- Antiestrogens: Tamoxifen (Nolvadex)

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# Herceptin

#### Only for HER2 pos.

About 25% of breast cancer patients carry this gene (HER2 pos)

- HER2 targeted therapies include:
  - Perjeta, Herceptin, Kadcyla, Enhertu, Tykerb, Nerlynx
- Most often given with chemo
- May be used alone or in combo with endocrine therapy

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# **Bone Targeted Therapy**

Relieves bone pain or reduce risk of bone problems.

Prevent bone loss: Zometa, Aredia, Prolia

Treat bone mets:

Zometa: Ancillary Aredia: Ancillary

Xgeva: Ancillary or BRM – see note in SEERx

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# Other Targeted Therapies

- CDK4/6 inhibitors
- mTor inhibitors (Afinitor)
- PARP inhibitors (Lynparza, Talzenna) for BRCA1 or BRCA2 mutation tumors
- PIK3CA inhibitor (this gene most frequently mutated in breast cancers)

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# Other

- Immunotherapy
- Clinical Trials

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