

Function & Anatomy of Breast:

A – ducts [stems]

B - lobules [grapes]

C -dilated section of duct to hold milk

D - nipple

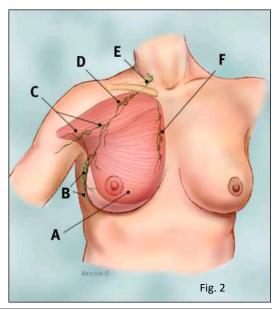
E - fat

F - pectoralis major muscle

G - chest wall/rib cage

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Regional Lymph Nodes of Breast



- A pectoralis major muscle
- **B** axillary: levels I (low axillary)

C - mid-axillary: levels II

D - high-axillary: levels III (deep)

E - supraclavicular

F - internal mammary [along rib cage]

Regional Lymph Nodes

Axillary LNs, Level I

- Low axillary
- •Intramammary (within breast tissue)

Axillary LNs Level II

•Mid Axillary, interpectoral, Rotter's node

Axillary LNs Level III {not typically removed}

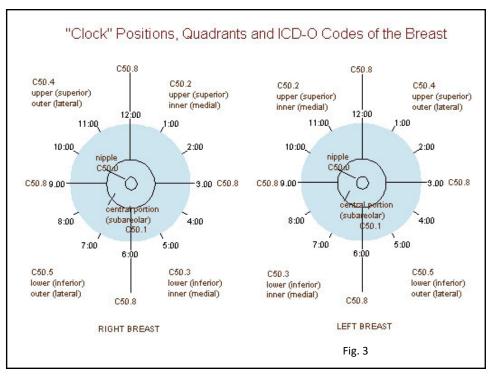
•High axillary, apical, infraclavicular

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Primary Site Coding

C50.0	Nipple
C50.1	Central portion of breast
C50.2	• UIQ
C50.3	• LIQ
C50.4	• UOQ
C50.5	• LOQ
C50.6	Axillary tail of breast
C50.8	Overlapping lesion breast
C50.9	NOS, multi-focal

	(Excludes lyr	C500	alent Terms at 0-C506, C508-6 ia M9590 – M9		10)
				Terms and Descriptive Language	Site Term and Code
Areolar Nipple Paget disease without underlying tumor Note: Paget with underlying tumor is coded to the quadrant of breast in which the underlying tumor is located.		Site Term and Code Nipple C500 Central portion of breast C501		Inferior inner Inferior medial Lower inner quadrant (LIQ) Lower medial	Lower inner quadrant of breast C503
				Superior lateral Superior outer Upper lateral Upper outer quadrant (UOQ)	Upper outer quadrant of breast CS94
				Inferior lateral Inferior outer Lower lateral Lower outer quadrant (LOQ)	Lower outer quadrant of breast C505
				Axillary tail of breast Tail of breast NOS Tail of Spence	Axillary tail of breast C506
Below the nipple Beneath the nipple Central portion of b Cephalad to nipple Infra-arcolar Lower central Next to arcola NOS Next to nipple Retroarcolar Subarcolar				12:00 o'elock 3:00 o'elock 6:00 o'elock 9:00 o'elock Inferior breast NOS Inner breast NOS Lateral Ivenat NOS Leteral Ivenat NOS Medial Ivenat NOS Medial Ivenat NOS Outer breast NOS	Overlapping lexion of breast C\$08 Note: This is a <u>single</u> namer which overlaps quadrants/subsite.
Under the nipple Underneath the	Terms and Desci	criptive Language Site Term and Code		nd Code	
Upper inner qua Upper medial I	4 or more of breast umor Diffuse (tumor size Entire breast inflammatory without Multiple tumors in quadrants) within	998) out palpable mass different subsites	<u>Unkr</u> Outpo	or: contiguous multiple tumors in d nown/unable to identify in whic	lifferent quadrants/subsites of same breast OR ch quadrant/subsite the tumor is located (Example: lentified. Patient lost to follow-up.)



Coding Subsites

Priority order when conflicting information

- •1. Operative report
- •2. Path report
- •3. Mammogram (ultrasound)
- •4. Physical Exam
- •Code subsite with invasive tumor.
- •Code subsite of multifocal tumors in one quadrant (not C50.9)

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Coding Subsites

- •Code **C50.8** when:
 - Single tumor large enough to cover two or more subsites and unknown where originated
 - Single tumor located at 12, 3, 6, or 9 o'clock position
- •Code **C50.9** when:
 - Multiple tumors (2 or more) in at least two quadrants of breast.

SEER Appendix C

https://seer.cancer.gov/manuals/2018/appendixc.html

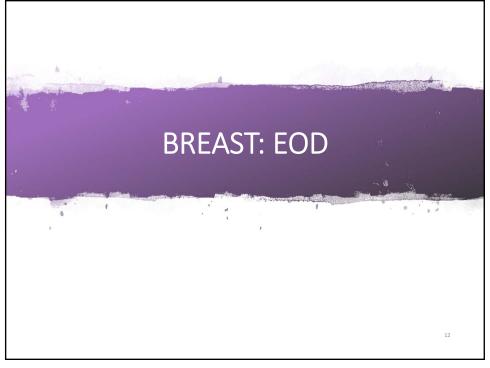
Coding Laterality

- Laterality must be coded for all subsites
- Breast primary with pos nodes and no breast mass found:
 - Code laterality to the side with pos nodes

SEER Appendix C coding guidelines https://seer.cancer.gov/manuals/2018/appendixc.html

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EOD Primary Tumor

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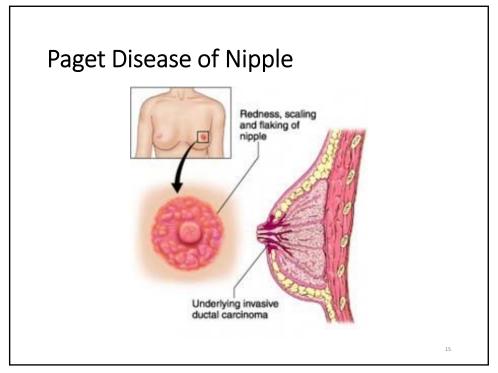
Notes:

- 1. Changes such as dimpling of skin, tethering and nipple retraction are caused by tension of Cooper's ligament(s), not by actual skin involvement. They do not alter the classification.
- Adherence, attachment, fixation, induration, and thickening are clinical evidence of extension to skin or subcutaneous tissue; assign code 200.
- 3. "Fixation, NOS" is involvement of pectoralis muscle; assign **Code 200.**
- For clinical description of inflammation, erythema, edema, peau d'orange, or other terms describing skin changes without stated dx of inflammatory carcinoma, assign code 400.

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In Situ

Code	Description
000	In situ; noninfiltrating; intraepithelial Intraductal without infiltration Lobular neoplasia, gr 3 (LIN3)
050	Paget disease of nipple WITHOUT underlying tumor
070	Paget disease of nipple WITH underlying DCIS tumor
SS18	In Situ



Invasive

Code	Description
100	Any size tumor Confined to breast tissue and fat including nipple and/or areola Localized, NOS EXCLUDES: skin invasion of breast, nipple and areola (see code 200)
SS18	Localized

Invasive



Code	Description

200 Any size tumor

Attachment or fixation to pectoral muscle(s) or underlying tumor {note 2}

Deep fixation {note 3: fixation nos}

Invasion of: Pectoral fascia or muscle(s), subcutaneous tissue

Local infiltration of dermal lymphatics adjacent to primary tumor involving skin by direct extension

Skin infiltration of primary breast including skin of nipple and/or areola

SS18 Regional

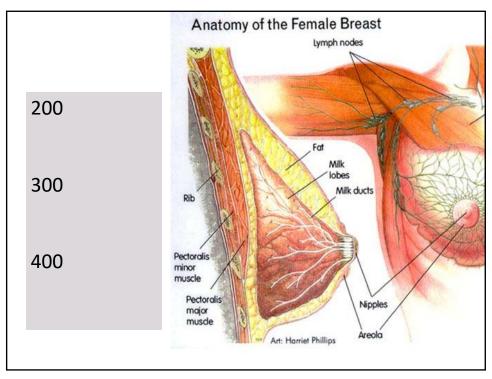
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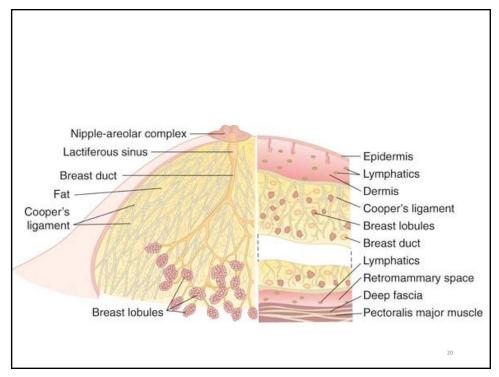
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Invasive

Code	Description
300	Invasion of (or fixation to) Chest wall, Intercostal or serratus anterior muscle(s), Ribs.
400	Extensive skin involvement {note 4} WITHOUT stated dx of inflammatory carcinoma WITH or WITHOUT dermal lymphatic invasion See list of terms*
SS18	Regional

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Invasive

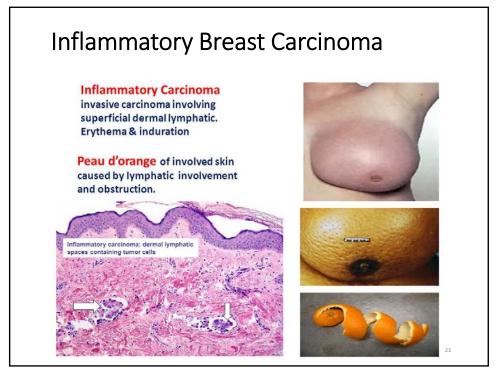
Code	Description
450	Diagnosis of inflammatory carcinoma WITH a clinical description of inflammation, edema, peau d'orange, etc. involving = 1/3 (33%) of skin of breast or % not stated WITH or WITHOUT dermal lymphatic infiltration • En cuirasse • Satellite nodule(s) • Skin edema • Ulceration of skin of breast</td
500	300 + (400 or 450)
SS18	Regional 21

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Invasive

Code	Description
600	Diagnosis of inflammatory carcinoma Same details but involving $> 1/3$ (33%) or more of skin of breast.
700	Stated as "inflammatory carcinoma" with no other information
800	No evidence primary tumor
999	Unknown; extension not stated; not documented
SS18	Codes 600-700 Regional

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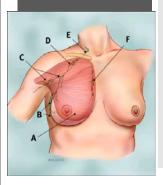
Regional Nodes

Note 1: Code only regional nodes and nodes, NOS in this field. Distant nodes coded in EOD Mets.

Note 2: If nodes path pos, size of mets not stated, assume mets >0.2 mm and code LNs as pos.

Note 3: If reg LNs are removed and no mention of level or another specific type, assume these are Level I-II and code appropriately.

EOD Regional Nodes



Note 4: LNs with ITC only are not counted as pos nodes.

Code 030: Neg nodes path with pos ITCs or pos ITCs and pos RT-PCR

Code 050: Neg nodes path with pos RT-PCR, neg ITCs

Code 070: Neg nodes path, unkn if ITCs or RT-PCR

Note 5: Codes 100-200, 350 only apply to involved Level I and II nodes. If internal mammary, infraclavicular or supraclav nodes involved, codes 100-200, 350 may not be used.

Do not confuse **internal mammary** nodes with **intramammary nodes**, which are routinely evaluated.

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EOD Regional Nodes

Note 6: Code 800 if reg LNs are involved but no indication of number of nodes involved.

Note 7: Regional lymph nodes include

- > Axillary, NOS (ipsilateral)
- > Level I (low-axilla) (low) (superficial), NOS [adjacent to tail of breast]
 - > Anterior (pectoral)
 - > Lateral (brachial)
 - > Posterior (subscapular)
- > Level II (mid-axilla) (central), NOS
 - > Interpectoral (Rotter's)
- > Level III (high) (deep), NOS
 - > Apical (subclavian)
 - > Axillary vein
- > Fixed/matted axillary (level I and II) (ipsilateral)
 > Infraclavicular (subclavicular) (ipsilateral)
 - Infraclavicular (subclavicular) (ipsilateral)
 Internal mammary (parasternal) (ipsilateral)
 - > Intramammary (ipsilateral)
 - > Supraclavicular (transverse cervical) (ipsilateral)

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Reg Nodes

Code	Description
000:C	No clinical regional lymph node involvement
030:P	PATHOLOGICAL assessment only ITC's only (malig cell clusters no larger than 0.2 mm in reg LNs.
050:P	PATHOLOGICAL assessment only Positive molecular findings by RT-PCR, no ITC's detected
070:P	No reg LN involvement pathologically (lymph nodes removed and path neg) WITHOUT ITCs or ITC testing unknown
SS18	None

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Reg Nodes

SS18 "Regional" For EOD 100-400

Code	Description
100:P	Ipsilateral Level I and Level II axillary nodes, micromets
150:C	CLINICAL assessment only (needle core/FNA) pos
200:P	PATH assessment only Pos axillary nodes ipsilat
250:P	PATHOLOGICAL assessment only: Int mammary pos on SLN bx; w/o ax nodes pos
300:P	PATHOLOGICAL assessment only: Int mammary pos on SLN bx WITH ax nodes pos
350:C	CLINICAL assessment only; fixed/matted
400:C	CLINICAL assessment only: Internal mammary pos w/o ax nodes pos

Clin POS Nodes Level I & II

Code	Description
150	CLINICAL assessment only (FNA) pos
350	CLINICAL assessment only; fixed/matted
400	CLINICAL assessment only: Int mammary pos w/o ax nodes pos

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Path POS Nodes Level III

Code	Description
500	Infraclavicular nodes (subclav) (level III), ipsilat WITH or WITHOUT axillary nodes level I and II nodes WITHOUT internal mammary node
600	Internal mammary nodes, ipsilat, clinically apparent (imaging or exam) WITH axillary level I, II or III nodes
700	Supraclavicular nodes, ipsilateral {SS18 distant}
800	Regional nodes NOS Lymph nodes NOS
999	Unknown, not stated or documented; cannot be assessed.

EOD METS

Note 1: For bone marrow micromets, circulating tumor cells CTCs or disseminated tumor cells and clusters (DTCs) are less than or equal to 0.2 mm and assigned to code 05.

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EOD Mets

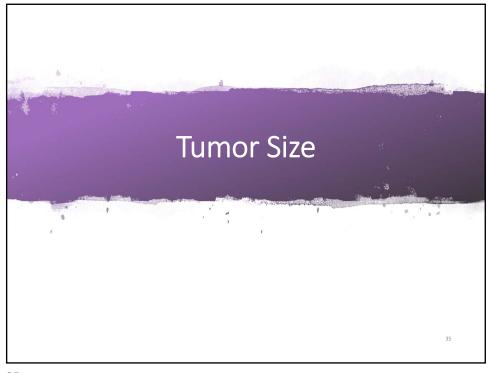
Code	Description
00	No distant mets OR UNKNOWN if distant mets CHANGE
05	No clinical or radiographic evid distant mets Tumor cells found in circulating blood, bone marrow, or other distant LN tissue less than or equal to 0.2 mm [see note 1]
10	Distant lymph no distant Axillary (contralateral or bilateral) Cervical, NOS
	Fixed/matted axillary (level I and II) (contralateral or bilateral) Infraclavicular (subclavicular) (contralateral or bilateral) Internal mammary (parasternal) (contralateral or bilateral) Intramammary (contralateral or bilateral) Supraclavicular (transverse cervical) (contralateral or bilateral) Distant lymph node(s), NOS

EOD Mets

Code Description Note: A axilla, contralat breast, sternum, upper abd Further contig extension Distant mets: adrenal, bone, contralat breast if stated metastatic, lung, ovary, satellite nodules in skin other than primary breast Carcinomatosis Distant mets WITH or WITHOUT distant lymph nodes, Distant mets nos Peath certificate only SS18 Distant

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SS18 General coding instructions Summary Guidelines by stage Stage https://seer.cancer.gov/tools/ssm/SS 18 M2018-General-Instructions.pdf **{SS18**} SS18 Manual by sites or complete manual pdf • Downloadable SEER*RSA • SS18 in each schema COC programs directly coding SS18; Non-COC it is derived. 34



Tumor Size CLINICAL

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Record size of solid primary tumor

- Before any treatment (surgical resection or initiation of any treatment including neoadjuvant)
- Clinical classification composed of:
 - Diagnostic workup prior to first treatment
 - Physical exam
 - Imaging
 - Path findings (gross and micro)
 - Surgical exploration without resection
- Clinical tumor size (pre-treatment size) essential for treatment decisions and prognosis determination for many types of cancer.

Tumor Size Clinical

- Taken from any clinical information prior to neoadjuvant treatment
- SEER Program Coding Staging Manual: Coding Instruction #7
 - Priority of imaging/radiographic techniques: Information on size from imaging/radiographic techniques can be used to code clinical size when there is no more specific size information from a biopsy or operative (surgical exploration) report. It should be taken as a lower priority, and over a physical exam.
 - Priority Order
 - BX Procedure or Operative REPORT
 - Imaging/scans
 - Physical Exam

Several notes re rounding, less than/greater than; priority order for documents etc

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Tumor Size Clinical

SEER Manual Tumor Size Clinical section under Coding Instruction #9

 Note: An incisional biopsy that removed the whole tumor is actually an excisional biopsy. Record tumor size in Tumor Size – Pathologic.

Example:

- 8/10/2020 Bil mammo L breast: Cluster of microcalcifications.
- 8/17/2020 Path: L breast, UOQ: Low grade ductal carcinoma in situ w/cribriform pattern w/microcalcifications. No evidence of invasion noted. Size: 5 mm & 3 mm. Low grade, G1.
- 9-25-20 L breast: No residual carcinoma identified.
- Clinical tumor size code 999 {because stereotactic size goes in path if no residual; no clinical size on imaging}
- Path tumor size code 005

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Tumor Size - Clinical

- Example 1
 - Mammo = 2.5 cm
 - Needle Bx = 1.5 mm from core Clinical TS = 025
 - No cTNM
- Example 2
 - Imaging = 34 mm
- Clinical TS = 034
- Needle bx = 11 mm on slide
- Stage cT2 by onc

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SEER*RSA Breast: Tumor Size Clinical Notes

Site specific rules override general rules

Note: Exception to round rules for BREAST primaries. Round tumor sizes >1.0 mm and up to 2.4 mm to 2 mm (002). The purpose of this exception is so that the size recorded in the Tumor Size field will derive the correct AJCC TNM Primary Tumor (T) category.

Do not apply this instruction to any other site.

Tumor Size PATH

Record size of solid primary tumor that has been resected.

- Path Classification includes:
 - Operative and path findings from resected specimen
 - Before initiation of adjuvant treatment
- Path size is important prognostic indicator and valuable for clinical practice and research on surgically treated patients for most cancer.

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Tumor Size Pathologic

#1 Code 999 for unknown when no exc biopsy or tumor resection. #12 Always code largest dimension of tumor whether from excisional biopsy or complete resection of primary tumor.

- IF Neoadjuvant treatment given
 - Code 999
 - ** This is a change to what is currently in the 2018 SEER manual (SEER manual, main document, page 118 #4). Is in direct conflict with the STORE manual (Tumor Size Summary, page 174). Therefore SEER will be adjusting their manual to match the STORE manual, therefore when neoadjuvant treatment is done, Tumor size Path will be coded to 999. At this time the manual will remain as is, but will be changed with the next version unfortunately that will not be out until 2021. Please make a note in your manual of the change as it takes effect immediately.

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SEER*RSA Breast: Tumor Size Path Notes

Site specific rules override general rules

Note: Exception to round rules for BREAST primaries. Round tumor sizes >1.0 mm and up to 2.4 mm to 2 mm (002). The purpose of this exception is so that the size recorded in the Tumor Size field will derive the correct AJCC TNM Primary Tumor (T) category.

Do not apply this instruction to any other site.

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Tumor Size SUMMARY

This is derived for non-COC programs.

COC Programs must code manually.

Record the most accurate measurement of a solid primary tumor, usually measured on surgical resection specimen.

ΔД

Reference is STORE Manual, pg 207

Tumor Size Summary

2. If neoadjuvant therapy followed by surgery, do not record the size from the pathologic specimen. Code the largest size of tumor prior to neoadjuvant treatment; if unknown code size as 999.

Example: Patient has a 2.2 cm mass in the oropharynx; fine needle aspiration of mass confirms squamous cell carcinoma. Patient receives a course of neoadjuvant combination chemotherapy. Pathologic size after total resection is 2.8 cm. Record tumor size as 022 (22mm).

3.If no surgical resection, then largest measurement of the tumor from physical exam, imaging, or other diagnostic procedures prior to any other form of treatment (See Coding Rules below).

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SEER*RSA Breast: Tumor Size Summary Notes

Site specific rules override general rules

Note: Exception to round rules for BREAST primaries. Round tumor sizes >1.0 mm and up to 2.4 mm to 2 mm (002). The purpose of this exception is so that the size recorded in the Tumor Size field will derive the correct AJCC TNM Primary Tumor (T) category.

Do not apply this instruction to any other site.

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