Cancer Surgery Standards PROGRAM AMERICAN COLLEGE OF SURGEONS

CoC Operative Standards

5.3: Sentinel Node Biopsy for Breast Cancer

5.4: Axillary Lymph Node Dissection for Breast Cancer

November 17th, 2021

Presentation created by CSSP Education Committee



Webinar Logistics

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- Questions will be answered as time permits
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Moderator



Mediget Teshome, MD, FACS Assistant Professor Department of Breast Surgical Oncology

MD Anderson Cancer Center Chair, CSSP Education Committee

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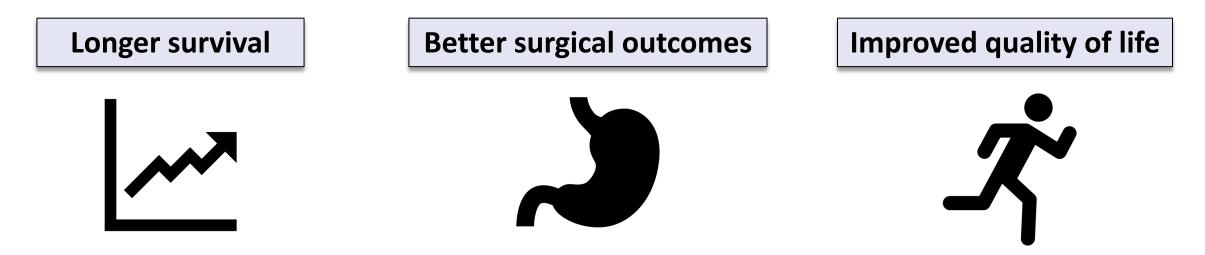
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AMERICAN COLLEGE OF SURGEONS Inspiring Quality: Highest Standards, Better Outcomes

Cancer Surgery Standards Program (CSSP)

• The ACS launched the CSSP in July 2020, recognizing growing evidence that adherence to specific operative techniques leads to:



 Expansion from standards focused on facilities/equipment to outcomes-based standards

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The CoC Operative Standards (2020)

Includes interactive eBook with complete OPERATIVE STANDARDS	content	Standard	Disease Site	Procedure	Documentation
<section-header><section-header><section-header><section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header>		5.3	Breast	Sentinel node biopsy	Operative report
	5.4	Breast	Axillary dissection	Operative report	
		5.5	Melanoma	Wide local excision	Operative report
	Optimal Pacourcas for	5.6	Colon	Colectomy (any)	Operative report
	Cancer Care	5.7	Rectum	Mid/low resection (TME)	Pathology report (CAP)
	facs.org/cancer	5.8	Lung	Lung resection (any)	Pathology report (CAP)

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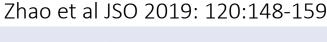
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Operative Standards in Breast Cancer

- National Cancer Database
- Standards Assessed
 - Resection margin status (R0 = meet standards)
 - Number of lymph nodes examined
 - \geq 2 LNs for cT1 and cT2/3,
 - >10 LNs for pN2/3
 - Adjuvant therapy (chemotherapy, hormonal, and radiation)
- > 20% of patient care did not meet these standards

Minimal Standards	# of cT1 Patients (%)	# of cT2/3 Patients (%)	# of pN2/3 Patients (%)
≥2 LNs Examined	360316 (74.0%)	189208 (78.0%)	-
>10 LNs Examined	-	-	91310 (78.3%)



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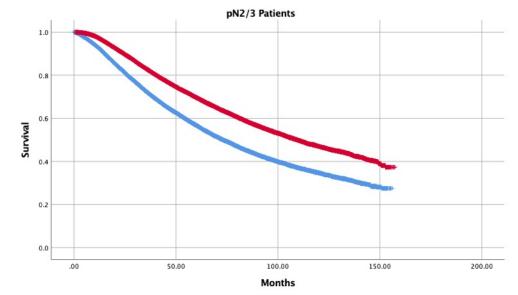
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Breast Cancer Standards and Survival



	+ Standards	Standards	p-Value
5-Year Overall Survival	0.872	0.745	<0.001a
10-Year Overall Survival	0.718	0.548	<0.001 ^a



	+ Standards	Standards	p-Value
5-Year Overall Survival	0.696	0.567	
10-Year Overall Survival	0.469	0.347	<0.001ª
Median Overall Survival	109.34 mos	72.97 mos	

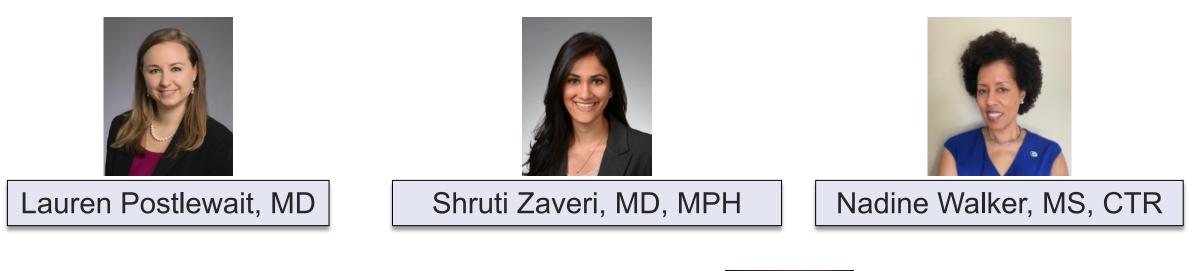
Zhao et al JSO 2019: 120:148-159

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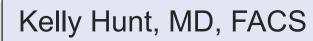
Speakers

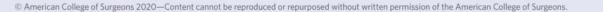






Chantal Reyna, MD, FACS





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Standard 5.3:

Sentinel Node Biopsy for Breast Cancer

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Sentinel Lymph Node (SLN) Biopsy as an Operative Standard

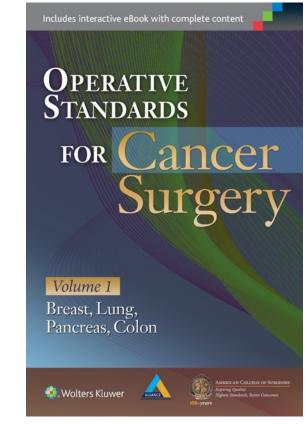
- SLN Biopsy improves staging and oncologic outcomes
- Preferred axillary staging procedure over an axillary dissection in appropriate clinically node-negative patients offering decreased risk of lymphedema and operative morbidity
- Standard approach to care and likely already practiced at most institutions performing breast cancer surgery





Critical Elements Standard 5.3 Sentinel Lymph Node Biopsy

- Identification of All Sentinel Nodes
- Technique for Injecting Localizing Tracer or Dye
- Pre-incision Evaluation of Drainage Pattern
- Node Removal Technique to Limit Seroma Formation



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Identification of All Sentinel Lymph Nodes Improves Staging Accuracy

- NSABP B-32
- Median SLN yield: 2
- Interquartile range: 1-4
- Identification of increased numbers of SLN is associated with decreased false negative rate

	Patients, n	False negative, number of patients (%)	p-value*
Total	766	75 (9·8)	
Number of specimens removed during SLN resection			<0·0001§ (<0·0001†§)
One	209	37 (17·7)	
Two	210	21 (10·0)	
Three	173	12 (6·9)	
Four	73	4 (5·5)	
Five or more	101	1 (1.0)	
<i>Table 4</i> : False-negative rate of SLN resection according to selected factors in patients in group 1 with positive nodes			

Krag DN et al., Lancet Oncol 2007; 8: 881–88

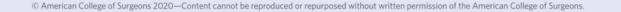




CoC Compliance Measures: Standard 5.3

1) All sentinel nodes for breast cancer are identified using tracers or palpation, removed, and subjected to pathologic analysis

2) Operative reports for sentinel node biopsies for breast cancer document the required elements in synoptic format



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Diligent Search for Sentinel Nodes



Search to identify and remove all colored, radioactive, and/or suspicious nodes in addition to any non-colored nodes at the end of a colored lymphatic

Operative Standards for Cancer Surgery, Volume 1

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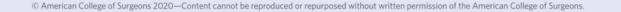
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Standard 5.3: Synoptic Operative Report Requirements

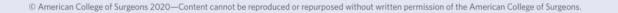
Element	Response Options
Operation performed with curative intent	Yes or No
Tracer(s) used to identify sentinel nodes in the upfront surgery setting (select all that apply)	Dye, Radioactive tracer, Superparamagnetic iron oxide, Other (with explanation), and/or N/A
Tracer(s) used to identify sentinel nodes in the neoadjuvant setting (select all that apply)	Dye, Radioactive tracer, Superparamagnetic iron oxide, Other (with explanation), and/or N/A
All nodes (colored or non- colored) present at the end of a dye-filled lymphatic channel were removed	Yes, No (with explanation), or N/A
All significantly radioactive nodes were removed	Yes, No (with explanation), or N/A
All palpably suspicious nodes were removed	Yes, No (with explanation), or N/A
Biopsy-proven positive nodes marked with clips prior to chemotherapy were identified and removed	Yes, No (with explanation), or N/A





Case Identification Guidelines: Standard 5.3

- Programs can audit for compliance using the following steps:
- ✓ Using the Cancer Registry database Pull cases within the scope of the standard with the following criteria:
 - Patient identifiers (MRN, Accession year [2021 and >], Class of case)
 - Surgeon identifiers (NPI, physician code, etc.)
 - \circ Primary site (Breast, C50.0 C50.9), histology per the Standard
 - $_{\odot}$ Date of sentinel lymph node biopsy field does not equal blank
 - \circ Sentinel lymph nodes examined = 01–90, 98
 - $_{\odot}$ Scope of regional lymph node surgery codes: 2, 6, or 7



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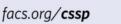
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Case Identification Guidelines: Standard 5.3

✓ Using the EMR - Review the Operative Report to determine the following:
 ○ Curative or palliative intent

- $\circ\,$ Sentinel lymph nodes were removed
- A synoptic format is used in the operative report and includes the current required data elements and responses according to Standard 5.3
- ✓ Using the EMR Review the Pathology Report for each case to confirm:
 Pathologic analysis of sentinel lymph nodes that have been removed







Standard 5.4:

Axillary Lymph Node Dissection for Breast Cancer

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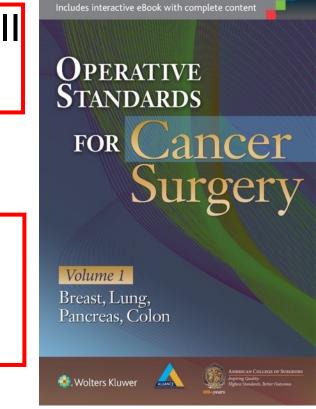
Axillary Lymph Node Dissection (ALND) as an Operative Standard

- High quality axillary dissection improves staging and oncologic outcomes in appropriate patients
- Axillary lymphadenectomy for indicated cases is accepted as standard approach to care and is likely already the practice pattern at most institutions performing breast cancer surgery



Critical Elements Standard 5.4 Axillary Lymphadenectomy

- Identification of anatomical structures levels I/II
- Management of level III nodes
- Management of Rotter nodes
- Removal of sufficient number of nodes
- Preservation of nerves
 - Long thoracic, thoracodorsal, and others
 - 2nd/3rd intercostobrachial nerves
- Drain placement



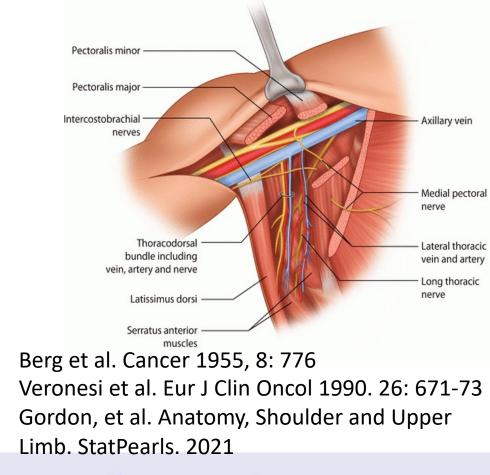




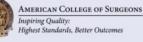
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ALND Levels I/II: Anatomic Boundaries

- Level I: 60-70% of axillary lymph nodes
- Level II: 20-30% of axillary lymph nodes
- Level I/II dissection should be complete
- Anatomic triangle
 - Axillary vein
 - Latissimus dorsi muscle
 - Chest wall (Serratus anterior muscle)





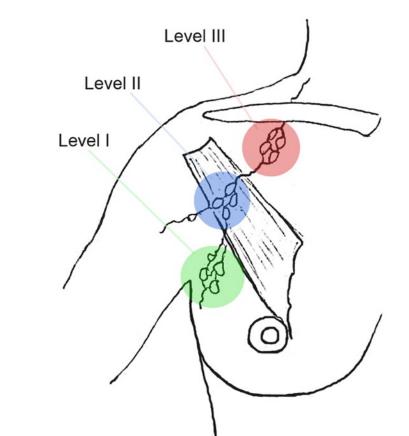


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ALND: Level III Management

- Level III: < 20% of axillary lymph nodes
- Level III nodes should not routinely be removed
- Level III dissection
 - Consider if level III is clinically involved or suspicious at time of surgery for localregional control
 - Limited data support level III dissection



Rahbar et al. Curr Prob Diag Rad 2012; 41(5): 149-158 Boova et al. Ann Surg 1982. 196(6): 642–644. Cody et al. Ann Surg Oncol 1984 2: 32–37



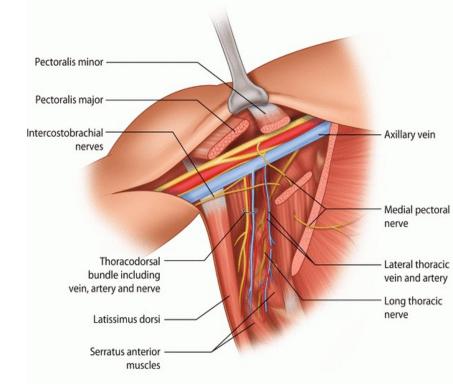
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ALND: Nerve Preservation

- Attempt to preserve motor and sensory nerves unless encased by tumor
 - Motor nerves
 - Thoracodorsal, long thoracic, and other
 - Injury \rightarrow muscle atrophy and motor deficits
 - Sensory Nerves
 - Intercostobrachial nerves (2nd / 3rd)
 - Injury \rightarrow paresthesia and decreased quality of life



Taira N. Breast Cancer. 2014;21:183–190 Warrier S. The Breast. 2014;23:310-316 Gordon, et al. Anatomy, Shoulder and Upper Limb. StatPearls. 2021





CoC Compliance Measures: Standard 5.4

1) Axillary lymph node dissections for breast cancer include removal of level I and II lymph nodes within an anatomic triangle comprised of the axillary vein, chest wall (serratus anterior), and latissimus dorsi, with preservation of the main nerves in the axilla.

2) Operative reports for axillary lymph node dissections for breast cancer document the required elements in **synoptic format**





Standard 5.4: Synoptic Operative Report Requirements

Element	Response Options
Operation performed with curative intent	Yes or No
Resection was performed within the boundaries of the axillary vein, chest wall (serratus anterior), and latissimus dorsi	Yes or No (with explanation)
Nerves identified and preserved during dissection (select all that apply)	Long thoracic nerve, Thoracodorsal nerve, Branches of the intercostobrachial nerves, Other <i>(with explanation)</i>
Level III nodes were removed	Yes (with explanation) or No

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Case Identification Guidelines: Standard 5.4

- Programs can audit for compliance using the following steps:
- ✓ Using the Cancer Registry database Pull cases within the scope of the standard with the following criteria:
 - Patient identifiers (MRN, Accession year [2021 and >], Class of case)
 - o Surgeon identifiers (NPI, physician code, etc.)
 - Primary site (Breast, C50.0–C50.9), histology per the Standard
 - $_{\odot}$ Date of regional lymph node dissection does not equal blank
 - \circ Regional lymph nodes examined = 01–90, 96–98
 - $_{\odot}$ Scope of regional lymph node surgery codes 3–7 from STORE

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Case Identification Guidelines: Standard 5.4

✓ Using the EMR - Review the Operative Report to determine the following:

- $\,\circ\,$ Curative or palliative intent
- $\ensuremath{\circ}$ Axillary dissection is completed
- A synoptic format is used in the operative report and includes the current required data elements and responses according to Standard 5.4



Best Practices to Optimize Compliance with Standards 5.3 & 5.4

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Best Practices to Optimize Compliance

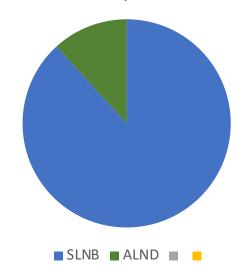
- Evaluate current practices (Internal Audit)
 - Identify cases
 - Evaluate for required elements
- Identify and discuss areas to improve
 - Discussion at CoC meetings
 - Audit results
 - CoC Operative Standards
- Interventions
 - System specific
- Case Example

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Best Practices to Optimize Compliance-Case Study: Evaluate Current Practice

- For Profit, Community-Based Hospital System
- 2 general surgeons; 2 surgical oncologists
- Reviewed single quarter in late 2020
- 34 axillary cases identified
 - SLNB 30
 - ALND 4



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Standards

Axillary Cases

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Best Practices to Optimize Compliance-Case Study: Evaluate Current Practice

• Compliance rate....

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Best Practices to Optimize Compliance-Case Study: Evaluate Current Practice

Compliance rate....



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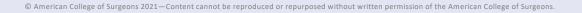
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Best Practices to Optimize Compliance-Case Study: Identify Areas to Improve

- None reported curative intent
- When curative intent excluded
 - SLNB 50%
 - ALND 25%

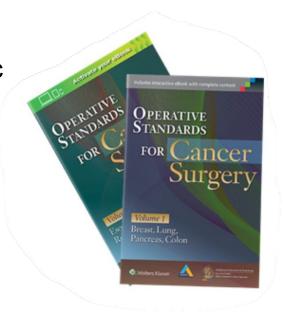
- Areas to improve
 - Narrative
 - Dictations
 - Technique
 - Documentation
 - Knowledge gaps





Best Practices to Optimize Compliance-Case Study: Interventions

- Discussion at Cancer Committee meetings, Tumor Boards
 - Internal audit results
 - Identify Stakeholders
 - Surgeons, Pathologists, Registrars, Administration, IT, etc
 - CSSP
 - Operative Standards
 - Timeline (To be discussed later)
 - Value of synoptic reporting (To be discussed later)
 - Toolkit





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Standards

Best Practices to Optimize Compliance-Case Study: Planned Interventions

- Education of team members (particularly surgeons)
 - CoC Operative Standards→ requirements
 - Technique \rightarrow required elements
 - Documentation \rightarrow required elements
- Create Solutions
 - Utilizing EMR and synoptic reporting
 - Capabilities
 - Options available (To be discussed later)
 - Resources (To be discussed later)
- Create a timeline for increasing compliance
 - Active surveillance
 - Quarterly review



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Standards

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Synoptic Operative Reporting for Standards 5.3 & 5.4

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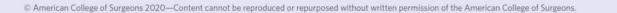
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What is the value of Synoptic Operative Reporting?

- Improve accuracy of documentation
- Improve efficiency of data entry and data abstraction
- Reinforce education (can emphasize the critical elements of oncologic operations)
- Reduce variability in care
- Overall improve quality of cancer care



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Practical Applications

- TNM staging information can be missing in >50% of records.
- Within a single encounter, TNM staging may differ in different notes.
- Registrars and other staff must sort through and interpret these narratives to glean the necessary information and then manually enter the data into a registry, leading to issues with quality and cost.



Synoptic vs. Narrative Reports

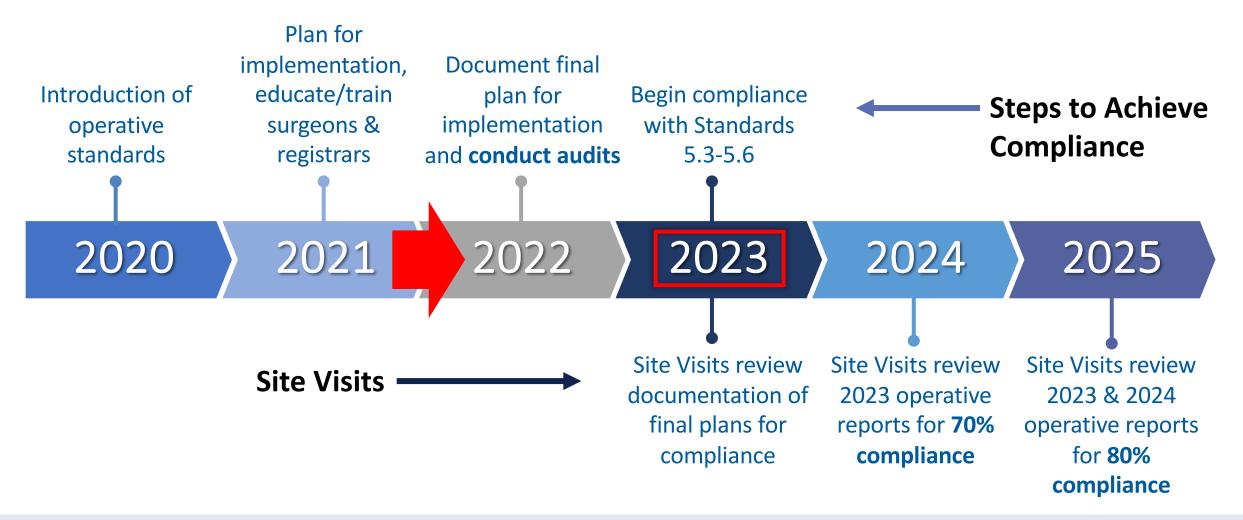
Outcome or Subgroup	# Studies	Ν	Statistical Method	Effect Estimate – Synoptic v. Narrative
Efficiency				
Time to complete (min)	6	891	Mean Difference (95% CI)	−0.86 m [-1.17, −0.55]
Time to verified report in EMR (hours)	1	336	Mean Difference	−373.53 h
Quality				
Accuracy	1	208	Mean Difference (95% CI)	40.60% [38.54, 42.66]
Reduction Critical Error (% of op notes)	1	110	Mean Difference	32.13%
Reduction Error Rate (% of op notes)	1	110	Mean Difference	75.26%
Validity	1	208	Mean Difference (95% CI)	3.40% [2.02, 4.78]
Cost (\$/note)	2	72	Mean Difference	-\$8.27

Stogryn et al., Am J Surg 2019. 218(3): 624-30.





Implementation Timeline for Standards 5.3–5.6



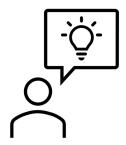
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Current Options for Synoptic Operative Reporting

Create Your Own Basic Synoptic Templates



License Third-Party Vendor Tools



Use Fillable PDF Forms



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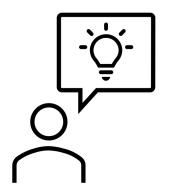


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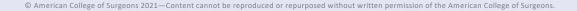
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Current Options for Synoptic Operative Reporting

Create Your Own Basic Synoptic Templates



- Use required elements and responses from the CoC 2020 Standards manual
- Can be done using smart phrases/smart tools to supplement a traditional narrative operative report
- Can be integrated into an existing smartform or synoptic report within EMR
- Reporting format must be uniform across all surgeons at the facility







Current Options for Synoptic Operative Reporting

License Third-Party Vendor Tools



- Includes all data elements and responses from comprehensive CSSP synoptic operative reporting templates, including elements required for CoC accreditation
- Fully developed tool supported by vendor
- Current vendor list available on ACS website: <u>Commercial Options</u>





Current Options for Synoptic Operative Reporting

Use Fillable PDF Forms



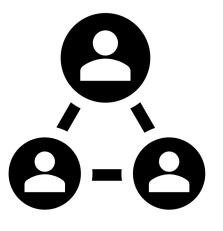
- Includes only the required elements and responses from the CoC 2020 Standards manual
- Downloads as blank PDF from the Standards Resource Library
- Supplements a traditional narrative operative report
- Stop-gap measure to allow programs to ensure compliance with synoptic formatting requirements





How Can Programs Optimize Compliance?





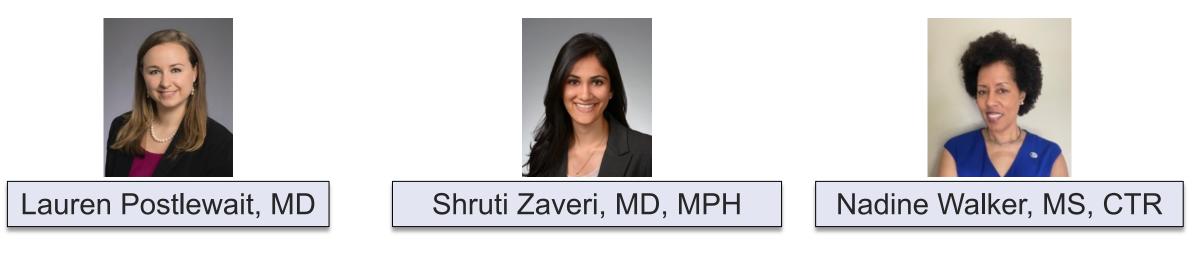
Ensure institution is utilizing **synoptic operative reports** for all breast cancer procedures **Document** details of SLN biopsy or axillary dissection **clearly** in operative notes

Encourage open communication between surgeons and registrars to promote compliance





Panel Discussion/Q&A







Kelly Hunt, MD, FACS

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Commission on Cancer Operative Standards 2020 Standard 5.3: Sentinel Node Biopsy for Breast Cancer

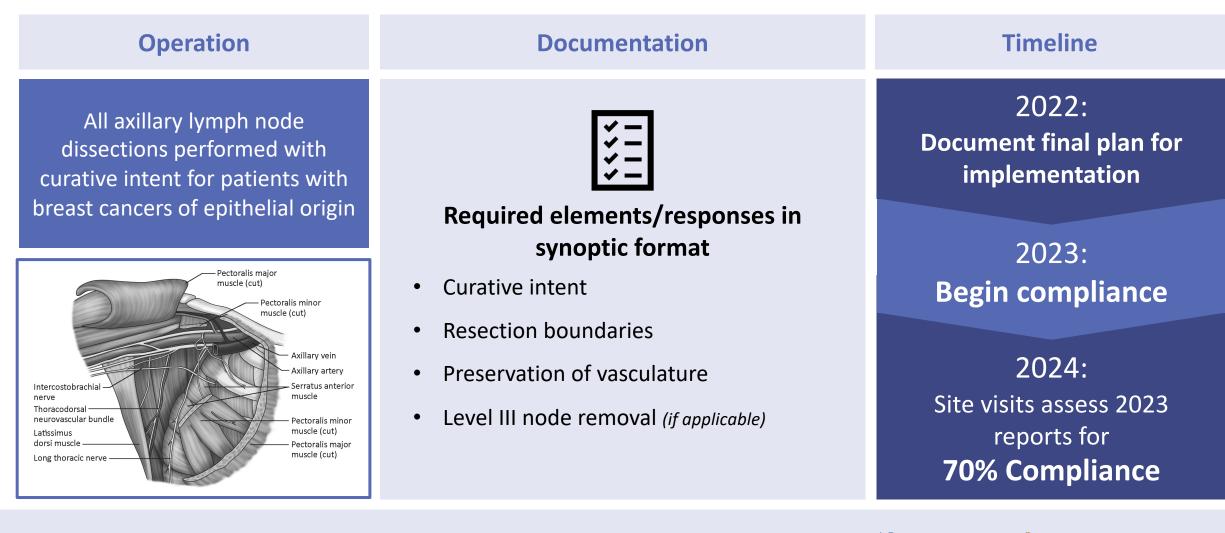
Operation	Documentation	Timeline
All nodal staging operations performed with curative intent for patients with breast cancers of epithelial origin	¥ = * =	2022: Document final plan for implementation
Identify and remove nodes:	 Required elements/responses in synoptic format Curative intent 	2023: Begin compliance
 Radioactive Dye stained Present at the end of dye-filled lymphatic Palpably suspicious Clipped 	 Tracer(s) used Upfront or neoadjuvant setting Removal of all sentinel nodes Removal of all clipped nodes (<i>if applicable</i>) 	2024: Site visits assess 2023 reports for 70% Compliance
		Concer Surgeony American College of Surgeons

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Commission on Cancer Operative Standards 2020 Standard 5.4: Axillary Lymph Node Dissection for Breast Cancer



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Operative Standards Toolkit

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Inspiring Q 0+years	uality: Highest Stan	dards, Better Outcomes		S	earch Options Y Enter	r Keyword
COVID-19 Me	mber Services	Quality Programs	Education	Advocacy	Publications	About ACS
rican College of Surgeons	Quality Programs > > F	Resources > Operative Standards To	olkit			
Cancer						
Surgery Standa		Operative Standa	rds Toolkit			
PROGRAM	1 T	his toolkit includes resources to a				
AMERICAN COLLEGE OF	SURGEONS	standards in the Optimal Resource rganized by category or standard			•	
Resources	а	wareness and understanding of th	nese accreditation stan	dards. Please send an	y questions to cssp@facs.o	org.
		CoC Operative Stand	lards and the	Cancer Surge	ry Standards Pro	ogram
Operative Standards Too	lkit Ir	ntroduction to the Operative Stand	lards (Video - 6 minute	s)		
	C	CoC Operative Standards Updates	and Communications	(Webpage)		
	F	requently Asked Questions on the	e CoC Operative Stand	ards (PDF)		
	F	atings and Compliance Information	on for the CoC Operativ	ve Standards (Webpag	e)	
		atings and Compliance Information			,	

All resources can be found on the <u>Operative Standards</u> <u>Toolkit</u>, organized by topic.

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Questions? cssp@facs.org

Resources

ACS Cancer Surgery Standards Program (CSSP)

www.facs.org/cssp

Operative Standards Toolkit

https://www.facs.org/quality-programs/cancer/cssp/resources/operative-standards-toolkit

Operative Standards for Cancer Surgery (OSCS) Manuals https://www.facs.org/quality-programs/cancer/acs-crp/oscs

Optimal Resources for Cancer Care (2020 Standards)

https://www.facs.org/quality-programs/cancer/coc/standards/2020

CoC Operative Standards

https://www.facs.org/quality-programs/cancer/coc/standards/2020/operative-standards

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