Operative Standards Protocols: Why Are They Important?

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1

Disclosures

Unrelated research funding: • Genentech, SkylineDX BV

2

Oncology Standards

- Focus has been on medical management and institutional care processes
 Operative standards are assumed
- Operative standards are assumed (although highly variable)
- Measurement of outcome metrics after surgery (e.g. number of lymph nodes in a resection specimen)
- Prior lack of defined standards for the actual cancer operation
- Typically, surgery is the only component of care that can be curative!



Cancer Surgery Standards PROGRAM

Operative Standards for Cancer Surgery Manuals Describe critical steps of the major cancer operations for key disease sites OPERATIVE STANDARDS OPERATIVE STANDARDS **OPERATIVE** STANDARDS Promote surgical uniformity for clinical trials (and pt care) FOR Cancer FOR Cancer Surgery Surgery FOR Cancer Surgery Highlight evidence-based best practices in surgical oncology

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2022

Establish surgical checklists

• Gap analysis for future research

Inform protocol standards

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2015

Critical Elements

Critical steps defined by experts and stakeholders to have the most significant influence on patient outcomes

PRETREATMENT BIOPSY OF SOFT TISSUE MASSES OF THE EXTREMITY AND TRUNK

2018

Extramin traver and the advantage of each lissue masses suspicious for surcome of the entermity and trunk should be performed to facilitate planning of appropriate multimodally hereary. Histodics sampling of the tumor should generally be obtained via core needle biopsy, but an incisiona biopsy should be obtained if adequate Issue cannot be acquired safely in this manner. The biopsy tract and incision should be oriented so that the enrite sraci (motion) safe. A sub-excised en bloc with the tumor at the time of definitive resection. Type of data: Retrospective reports, case series, or case control studies

Strength of recommendation: Strong recommendation, moderate

5

Impact of Standards on Outcomes in Oncology

• Improvements in compliance with evidence-based guidelines may

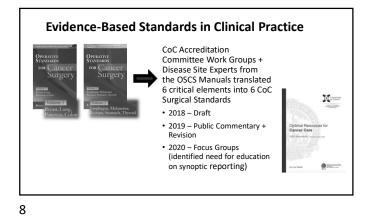
- ✓ Reduce health care costs
- ✓ Reduce hospital length of stay and complications
- ✓ Improve long-term outcomes
- ✓ Increase patient satisfaction

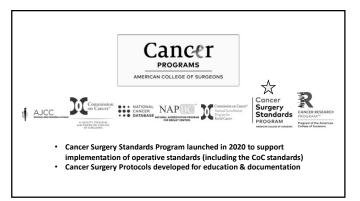
Smith TJ, Hillner BE. Ensuring quality cancer care by the use of clinical practice guidelines and critical pathways. J Clin Oncol 2001 Jun 1;19(11):2886-97

Adherence to standards improves survival in breast cancer

 Standards Assessed (NCDB review) 	pN2/3			
 <u>Resection margin status (R0 = meet standards)</u> 		Standards+	Standards-	p-Value
 Number of lymph nodes examined ≥2 LNs for C1 and CT2/3, >10 LNs for pN2/3 Adjuvant therapy (chemotherapy, hormonal, and radiation) 	5-Year Overall Survival 10-Year Overall Survival Median Overall Survival	0.696	0.567	
		0.469 109 mos	0.347 73 mos	<0.001ª
 OS > with standards-concordant care 				
	Zhao et al JSO 2019: 120:148-159			

7





Cancer Surgery Standards Program

Mission

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To improve the quality of surgical care for persons with cancer

Goals

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- Develop standards for the technical conduct of oncologic surgery Disseminate resources and tools that support implementation of and adherence to those standards
- Improve communication regarding cancer surgery to facilitate appropriate (downstream) multidisciplinary care
- Educate and train surgeons, trainees, staff

10

Narrative versus Synoptic Reporting

Synoptic

Always constructed using pre-determined data fields and pre-determined responses
 Typically created using a tool

Always uses standardized terminology

Always allows for discrete data capture

 Information is formatted so it can be collected, stored, and is easily retrievable for data repositories and analysis

Can automatically populate data from the EHR

Presented in checklist format

Narrative

- May be constructed using predetermined data fields and predetermined responses
- Constructed by dictation, free text, smart text, etc.
- May use standardized terminology
- Presented in a prose format
 Prone to omission of necessary data
- Prone to omission of necessary data and inconsistencies in language and formatting
- May allow for discrete data capture

Hieken et al., Technical Standards for Cancer Surgery: Improving Patient Care through Synoptic Operative Reporting. Ann Surg Oncol 2022. Hieken et al., Surgeons Adding Value – Are Synoptic Operative Reports a Step Forward in Cancer Care? Ann Surg Oncol 2022.

11

Advantages of Synoptic Reports

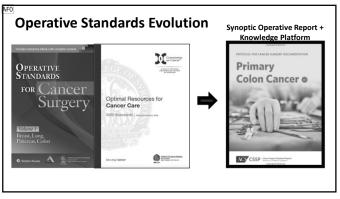
- > Improve **accuracy** of documentation
- > Improve efficiency of entry
- Improve efficiency of data abstraction/measurement of compliance
- Reinforce education: for example, can emphasize the "critical elements" of oncologic operations
- > Reduce variability in care
- > Improve quality of cancer care

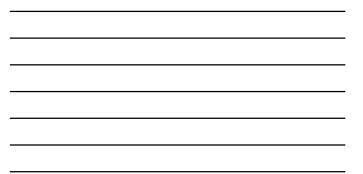
AFO We updated the goals recently so I added our new goals. Here is what you had:

Develop evidence-based standards for the technical conduct of oncologic surgery (review and updated as needed)

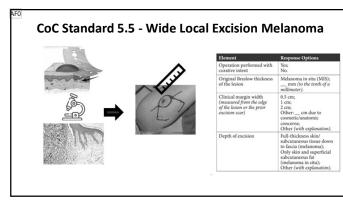
Create and disseminate tools that support implementation and adherence to standards, including synoptic operative report templates and (electronic) protocols for cancer surgery

Educate surgeons on best practices for the technical conduct of oncologic surgery Amanda Francescatti, 2024-02-20T14:32:56.017





The CoC Operative Standards				
	Standard	Disease Site	Procedure	Documentation
10	5.3	Breast	Sentinel node biopsy	Operative report
Optimal Resources for	5.4	Breast	Axillary dissection	Operative report
	5.5	Melanoma	Wide local excision	Operative report
Cancer Care	5.6	Colon	Colectomy (any)	Operative report
	5.7	Rectum	Mid/low resection (TME)	Pathology report (CAP)
Long lancer	5.8	Lung	Lung resection (any)	Pathology report (CAP)



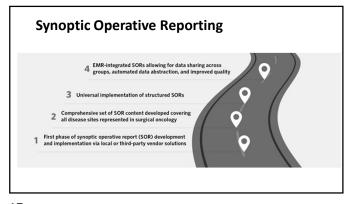
Maybe here you could say that the protocols are undergoing a revamp and will include AF0 the evidence and synoptic reports? Amanda Francescatti, 2024-02-20T16:39:36.552

Slide 15

AF0 These pictures came from the RAS webinar slides. We could instead use the image from the OSCS manual but I like how it shows the progression. Amanda Francescatti, 2024-02-20T16:04:19.731

CoC Standard 5.5 - Wide Local Excision Melanoma Measures of Compliance Element **Response Options** Measures of Compliance Wide local excisions for melanoma include the skin and all underlying subcutaneous tissue down to the fascia (for invasive melanoma) or the skin and the superficial subcutaneous fat (for in situ disease). Clinical margin width is selected based on original Breslow thickness: 1 cm for imasive melanomas. It or arm thick. 1 to 2 cm for imasive melanomas to 2 nm thick. 2 cm for imasive melanoma in situ. Operative reports for wide local excisions of primary cutaneous melanomas document the required elements in synoptic format. Operation performed with Yes; curative intent No. No. Melanoma in situ (MIS); _-_ mm (to the tenth of a millimeter). Original Breslow thickness of the lesion Clinical margin width (measured from the edge of the lesion or the prior excision scar) 0.5 cm; 1 cm; 2 cm; Other: __ cm due to cosmetic/anatomic concerns; Other (with explanat Full-thickness skin/ subcutaneous tissue down to fascia (melanoma); Only skin and superficial subcutaneous fat (melanoma in situ); Other (with explanation). Depth of excision If both requirements are met, the case is compliant. Other (with expl m)

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17

Key Takeaways

- Compliance with surgical standards for cancer operations can improve outcomes for patients with cancer
- Synoptic reporting can document adherence to standards
- Synoptic reporting can improve communication across the multidisciplinary team
- Iterative process

Slide 18

AF0 Not sure about these... I'm sure you have other/better ideas!!! Amanda Francescatti, 2024-02-20T16:40:40.477

Thank you

Do not add a question slide Questions will be addressed during the Q and A period at the end of the session.