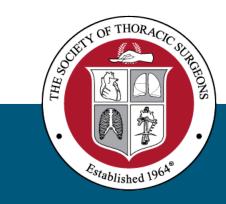
Society of Thoracic Surgeons

General Thoracic Surgery Database Monthly Webinar

March 12, 2025







Agenda

- Welcome and Introduction
- STS Updates
- Data Manager Education (Ruth Raleigh, GTSD Consultant)
 - Abstracting Lung Cancer Pathology Reports
- Q&A



STS Updates

- 2025 Harvest Schedule
 - Spring 2025 officially closed on March 7, 2025
 - Reporting period includes OR dates 1/1/2022 12/31/2024
 - Fall 2025 close date: September 5, 2025
 - Reporting period includes OR dates 7/1/2022 6/30/2025
- March Training Manual to be posted by Friday, 3/14
- Report Related Questions??? Please email the Helpdesk : <u>stsdb_helpdesk@sts.org</u>
 - Refer to the Analysis Overview
 - Include your Participant ID
 - Indicate the Reporting time period (Fall 24, Spring 25 etc.)
 - Screenshots are helpful!!

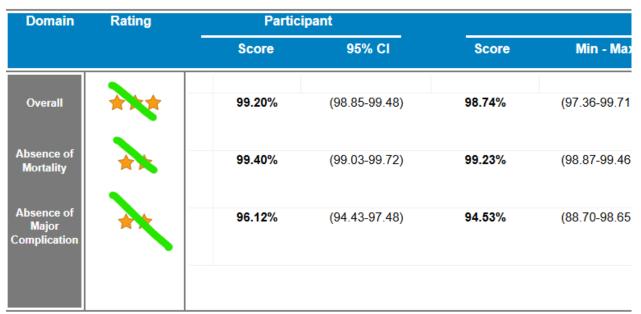
Clinical Question Submission Form (FAQ)

Full Name *		
	Database Version *	
Email *	- Select -	
	- Select -	
Phone *	Adult Cardiac 2.9	~
	Adult Cardiac 2.81	
Participant ID #	Adult Cardiac 2.73 d Letters Only): *	
	Adult Cardiac v4.20.2	
Database Version *	Adult Anesthesia	
- Select - V	General Thoracic 2.41	
State/ - Common	General Thoracic 2.3	
	General Thoracic 5.21	
Sequence # (Numbers and Letters Only): *	Congenital v3.41 COMPLIANCE PURPO	oses, pli
Short Field Name:	Congenital v6.23	
	Intermacs	
IMPORTANT: FOR HIPAA COMPLIANCE PURPOSES, PLEASE NOTE THAT ANY PATIENT IDENTIFYING INFORMATION ¹ SHOULD BE REDACTED FROM THIS SUBMISSION.	Pedimacs	
Question: *		



GTSD Reporting Updates

- Effective Spring 25 Harvest
- Updates will be implemented in both Participant reports and Public Reporting
- Remove Star rating graphics for both esophagectomy and lung resection composite measures
- Will continue to use the threecategory analytic descriptions: *Better Than Expected, As Expected, Worse Than Expected*



Worse than Expected. Participant's performance is significantly worse than expected for their specific case-mix. As Expected. Participant's performance is not statistically different than expected for their specific case-mix. Better than Expected. Participant's performance is significantly better than expected for their specific case-mix. Note: Each participant's composite score and star rating are an estimate of their performance for their specific case-mix (e.g., patient acuity and severity) compared with overall, national STS outcomes for a similar mix of patients. Because a participant's composite score and star rating apply only to their case-mix, they cannot be directly compared with the composite score and star rating of another participant with a different case-mix.



GTSD Public Reporting

(effective Spring 25)

Overall Composite Score	99.4% (99.2 - 99.6)	100 99 98 97 96	95 Better Than Expected
Absence of Operative Mortality	99.4% (99.1 - 99.7)	100 99 98	97 As Expected
Absence of Major Morbidity	97.2% (96.1 - 98.2)	100 98 96 94 92 90 8	Better Than Expected

Esophagectomy Composite Measure Rating (July 2021 - June 2024)

Overall Composite Score	97.2% (95.7 - 98.4)	100 98 96 94 92 90 88 86 84 82 80	Better Than Expected
Absence of Operative Mortality	97.9% (95.7 - 99.3)	100 98 96 94 92 90	As Expected
Absence of Major Morbidity	89.7% (84.3 - 94.0)	100 90 80 70 60 50	Better Than Expected



AQO 2025

- GTSD and CHSD Sessions: Thursday, October 2nd
- ACSD Session: Friday, October 3rd
- Grand Hyatt San Antonio Riverwalk
- <u>AQO session proposal form</u> deadline is April 18th
- Both In Person and Virtual options will be available
- Cost information will be shared as soon as it's available
- AQO details: <u>2025 AQO: A Data</u> <u>Managers Meeting</u>

Home > Calendar of Events > 2025 Advances in Quality & Outcomes: A Data Managers Meeting

Event

2025 Advances in Quality & Outcomes: A Data Managers Meeting

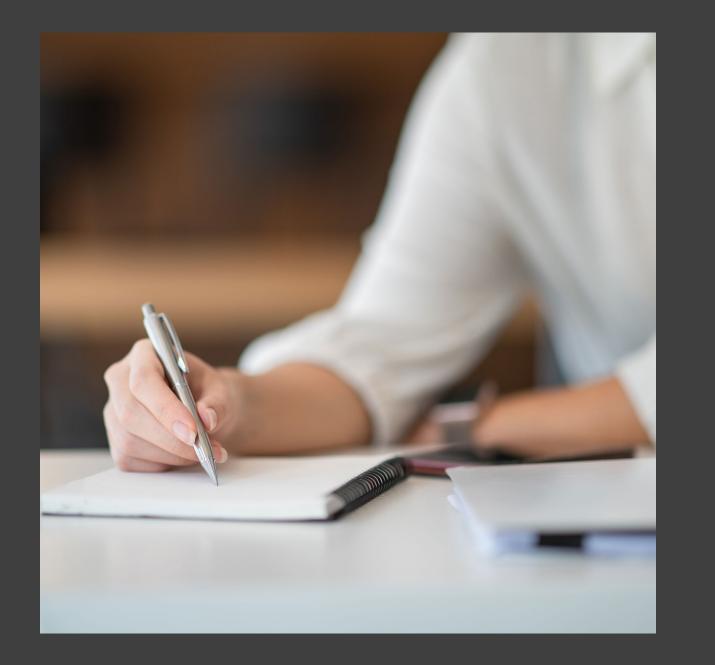
Discussions on valuable research and important clinical findings with the goal of improving data collection and patient outcomes.



OCTOBER 2-3, 2025 • SAN ANTONIO, TX

Date(s) Oct 2-3, 2025 Location San Antonio, TX Audience Allied Health Data Manager





STS Education Ruth Raleigh (GTSD Consultant)

ABSTRACTING LUNG CANCER PATHOLOGY REPORTS



DATA COLLECTION FORM

Descriptions

are intended to

be educational,

take pathology

from pathology

reports. Do not

create your

pathological

own

staging.

Lung Cancer Tumo	or Present:	□ Yes □ No (If yes ↓)	
	Indicate Fina	I Pathological Tumor Staging	
(If Cancer Tumor Present→) **	the presence	nor cannot be assessed, or tumor proven by e of malignant cells in sputum or bronchial t not visualized by imaging or by	□ T0 No evidence of primary tumor
	(SCIS); Ader	n situ; squamous cell carcinoma in situ nocarcinoma in situ (AIS): adenocarcinoma idic pattern, <u><</u> 3 cm in greatest dimension	□ T1mi Minimally invasive adenocarcinoma: adenocarcinoma (≤3 cm in greatest dimension) with a predominantly lepidic pattern and ≤5 mm invasion in greatest dimension.
	spreading tu is limited to t to the main b	n in greatest dimension. A superficial, mor of any size whose invasive component he bronchial wall and may extend proximal pronchus also is classified as T1a, but s are uncommon.	\Box T1b Tumor > 1 cm but \leq 2 cm in greatest dimension
	□ T1c Tumor > 2 cr	m but <u>< 3</u> cm in greatest dimension	
	having any o main bronch but without ir pleura (PL1 o obstructive p	m but \leq 4 cm at greatest dimension, or of the following features: 1. involves the us regardless of distance to the carina, 2. nvolvement of the carina; invades visceral or PL2); 3. associated with atelectasis or oneumonitis that extends to the hilar region, t or all of the lung.	□ T2b <i>Tumor</i> > 4 cm but <u><</u> 5 cm at greatest dimension
	□ T3 Tumor > 5 cr directly invac (PL3), chest phrenic nerve	m but <u><</u> 7 cm in greatest dimension or ding any of the following: parietal pleura wall (including superior sulcus tumors), e, parietal pericardium; or separate tumor the same lobe as the primary	□ T4 Tumor > 7 cm or tumor of any size invading one or more of the following: diaphragm, mediastinum, heart, great vessels, trachea, recurrent laryngeal nerve, esophagus, vertebral body, or carina; separate tumor nodule(s) in an ipsilateral lobe different from that of the primary



SEQ 1841:ATYPICAL CASE MANAGEMENT

Sept 2021: If the patient had neoadjuvant therapy and had a complete response with the final surgical pathology report indicating T0 or no T stage is provided, then code yes to seq 1841 "ClinStageTumorPres ' and code T0 for seq 1850 'PathStageLungT'.

Oct 2021: In the rare instance that a patient has a wedge resection with a delayed lobectomy; the wedge resection is diagnostic and not required for entry into the GTSD. The lobectomy must be entered as it is the curative resection for the lung cancer. Use the combined final pathology reports from the lobectomy & wedge resection for completion of all pathological staging information. Seq 1841 will be coded as 'yes'.

Synoptic Checklist

LUNG (LUNG - All Specimens) 8th Edition - Protocol posted: 9/21/2022

SPECIMEN Procedure Specimen Laterality

Tumor Focality

TUMOR

Lobectomy Right

Single focus Lower lobe of lung

Tumor Site Tumor Size Total Tumor Size (size of entire tumor) Histologic Type Histologic Grade Visceral Pleura Invasion Direct Invasion of Adjacent Structures Treatment Effect Lymphovascular Invasion

MARGINS

Margin Status for Invasive Carcinoma Closest Margin(s) to Invasive Carcinoma Distance from Invasive Carcinoma to Closest Margin Margin Status for Non-Invasive Tumor

REGIONAL LYMPH NODES

Lymph Node(s) from Prior Procedures Regional Lymph Node Status Number of Lymph Nodes Examined Nodal Site(s) ExamIned Greatest Dimension (Centimeters): 4.0 cm Invasive squamous cell carcinoma, keratinizing G2, moderately differentiated Not identified Not applicable (no adjacent structures present) No known presurgical therapy Present

All margins negative for invasive carcinoma Bronchial 2.0 cm Not applicable

No known prior lymph node sampling performed All regional lymph nodes negative for tumor 7 4R: Lower paratracheal 8R: Para-esophageal (below carina) 7: Subcarinal

PATHOLOGIC STAGE CLASSIFICATION (pTNM, AJCC 8th Edition)

Reporting of pT, pN, and (when applicable) pM categories is based on information available to the pathologist at the time the report is issued. As per the AJCC (Chapter 1, 8th Ed.) it is the managing physician's responsibility to establish the final pathologic stage based upon all pertinent information, including but potentially not limited to this pathology report. pT Category

pN0

pT Category		
pN Category		

How would you code lung cancer tumor present? A. Yes B. No C. Unsure

Synoptic Checklist

LUNG (LUNG - All Specimens) 8th Edition - Protocol posted: 9/21/2022

SPECIMEN Procedure Specimen Laterality

acorancy

TUMOR

Tumor Focality Tumor Site Tumor Size Total Tumor Size (size of entire tumor) Histologic Type Histologic Grade Visceral Pleura Invasion Direct Invasion of Adjacent Structures Treatment Effect Lymphovascular Invasion

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pN0

pT Category		
pN Category		

How would you code pathological T stage? A. T0 B. T1a C. T2a D. Unsure

WHAT ABOUT CASES WITH MULTIPLE TUMORS?

First, determine if they are synchronous primary tumors or if the patient has multiple tumors all related to the same primary (i.e. metastatic disease).

Sometimes this can be tough, you may have to call your pathologist and/or surgeon for support.



TRAINING MANUAL GUIDANCE ON ABSTRACTING SYNCHRONOUS PRIMARIES

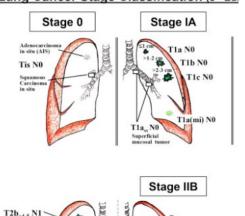
If two or more tumors are dissected out during the same procedure, code the most aggressive disease noted on the pathology report. Consultation with pathology may be necessary to determine.

Dec 2021: For pathology reports with multiple tumors the designation 'm' is utilized. The STS does not currently capture that data point, enter the T stage without the 'm'. For example, mpT1b is entered at T1b.

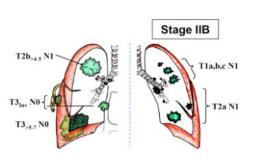
REVIEW EXAMPLE PATHOLOGY REPORT

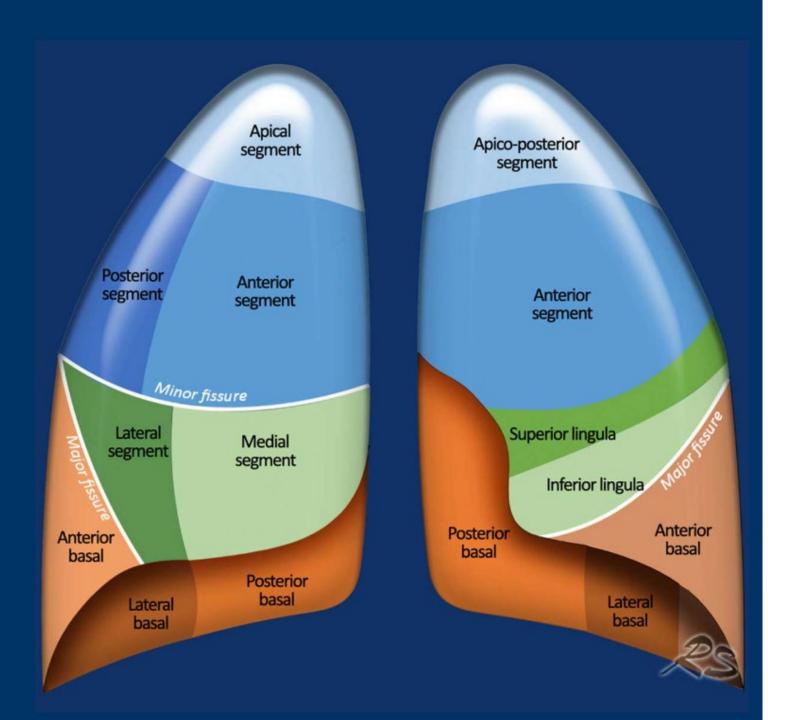
SYNCHRONOUS PRIMARIES: QUESTION I

How would you code pathological T-stage for the case study reviewed? A. TID B. T2b C. Not sure



Lung Cancer Stage Classification (8th Edi





SYNCHRONOUS PRIMARIES: QUESTION 2

What primary procedure would you enter for this case?

A.Wedge resection

B. Segementectomy

C. Not sure

https://radiologyassistant.nl/chest/ lung-anatomy/lung-segments

Pathological M Stage

SeqNo:2060Long Name:Lung CA MetastasesShort Name:PathStageLungMFormat:Text (categorical values specified by STS)

Definition: Indicate the appropriate descriptor for the lung cancer metastases based on final pathology report.

Most patients with metastatic lung cancer do not go to the OR for therapeutic resections, therefore pathological M is overwhelmingly captured as M0.

However, a surgeon will sometimes take a patient with a known single brain or adrenal met to the OR for a therapeutic resection and then the isolated mets will be separately managed.

In these rare instances, capture the metastatic disease in pathological m even if MX is listed on your pathology report.

Otherwise, MX is captured as M0.

	Adenocarcinoma	Squamous cell	🗆 Larç	je cell
Lung CA Histology:	Small cell	Mixed		Grade Neuroendocrine
	Intermediate grade neuroendocrine, atypical carcinoid	Carcinoma in situ	Oth	er

Sometimes it's tough to know if you really have a lung cancer case:

Comment

Immunohistochemical stains were performed on block H3 to better characterize the tumor and they demonstrate the tumor cells are positive for CK7, CK20 and SATB2, and negative for CK5, CDX2, GATA 3, Napsin, P40, P63, PAX8 and TTF-1, supporting the diagnosis of lung invasive adenocarcinoma enteric type. Clinical correlation is recommended to rule out possible lower GI tract primary.

Synoptic Checklist

LUNG

8th Edition - Protocol posted: 9/21/2022LUNG: RESECTION - All Specimens

SPECIMEN	
Procedure	Lobectomy
Specimen Laterality	Right
TUMOR	
Tumor Focality	Single focus
Tumor Site	Middle lobe of lung
Tumor Size	
Total Tumor Size (size of entire tumor)	Greatest Dimension (Centimeters): 1.5 cm
Histologic Type	Enteric-type adenocarcinoma
Histologic Patterns Present	Solid
Histologic Grade	G3, poorly differentiated
Spread Through Air Spaces (STAS)	Not identified
Visceral Pleura Invasion	Not identified
Direct Invasion of Adjacent Structures	Not applicable (no adjacent structures present)
Treatment Effect	No known presurgical therapy
Lymphovascular Invasion	Not identified
MARGINS	
M A MALE A MALE	A11

/: Subcarmat

PATHOLOGIC STAGE CLASSIFICATION (pTNM, AJCC 8th Edition)

Reporting of pT, pN, and (when applicable) pM categories is based on information available to the pathologist at the time the report is issued. As per the AJCC (Chapter 1, 8th Ed.) it is the managing physician's responsibility to establish the final pathologic stage based upon all pertinent information, including but potentially not limited to this pathology report.

pT Category

pN Category

pT1b pN0



Considerations when determining if histology is reflective of a lung cancer case:

I.Were lung cancer staging conventions used on your pathology report?

- AJCC 8th edition for lung cancer staging
- Do you have a synoptic report that includes the lung checklist

2. Histology type

3. If uncertain, call your pathologist or surgeon for clarification!

If you have completed the final pathological staging sequences, should your primary category of disease ever be 'lung nodule' or 'lung mass'?

A. Yes

- B. Not
- C. Unsure



Open Discussion



Please use the Q&A Function.



We will answer as many questions as possible.



We encourage your feedback and want to hear from you!

Upcoming GTSD Webinars

Monthly Webinars

- April 9 @ 2:30ET (1:30CT)
- May 14 @ 2:30ET (1:30CT)



Contact Information

Leigh Ann Jones, STS National Database Manager, Congenital and General Thoracic

- Ljones@sts.org
- 312-202-5822

Helpdesk Support (Harvest Questions/Analysis Report Questions)

STSDB_helpdesk@sts.org

Database Operational Questions (Database Participation, Contracts, etc.)

<u>STSDB@sts.org</u>

STS National Database[™]

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