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Society of Thoracic Surgeons

General Thoracic Surgery Database Monthly Webinar

April 13, 2022

GTSD Monthly Webinar

- Welcome and Introductions
- STS Update
- STS Education Audit
- IQVIA Update
- User Feedback
 - Include Ticket Number/Case Number



STS Updates

- Training Manual for April to be posted by end of this week
- Fall 2021 Analysis Results
 - Resection for Lung Cancer Report was released on Monday, March 28th
 - Updated Analysis Overview with the Resection composite details posted in IQVIA Library
 - NIS data set now reflects 2019 data
 - Analysis previously utilized the 2015 NIS data set
 - Report related questions should be directed to <u>gtsdtechsupport@iqvia.com</u>
- GTSD Public Reporting
 - Next update is scheduled for this Spring
 - Will utilize results from Fall 2021 Harvest (July 1, 2018 June 30, 2021)
 - Questions should be directed to Sydney Clinton (sclinton@sts.org)
- IQVIA Platform Access
 - Adding new user accounts or deactivating current user access
 - Complete the STS Participant Contact Form (https://www.sts.org/sts-participant-contact-form)
 - Contact <u>STSDB@sts.org</u> for assistance



General Thoracic Surgery Database - 2022

	Harvest Submission Window Close	Opt-Out Date	Includes Procedures Performed Through:	Report Posting	Comments
Spring 2022	3/4/2022	3/8/2022	12/31/2021	Summer 2022	Star Rating
Fall 2022	9/9/2022	9/13/2022	6/30/2022	Winter 2022	Star Rating

• Fall 2022 Harvest is currently underway

• Submit your data early and often

2021 Audit Result & 2022 Audit Update

Carole Krohn STS Clinical Manager

STS National Databases





Audit Policy

If you are a site that will be reaudited and would like assistance, please reach out to Ruth, Leigh Ann, or Carole (d) For all sections (excluding the Complications or Mortality sections) and overall site accuracy (agreement) rates, the following grading system will be provided to the sites

(i) 98% or greater is defined as a site that exceeds expectations.
(ii) 90% to 98% is defined as a site that meets expectations.
(iii) Less than 90% is defined as a site that does not meet expectations.

(e) For the Complications or Mortality sections, the following grading system will be provided to sites. See Appendix B for a breakdown of the complications section per Database.

(i) 98% or greater is defined as a site that meets expectations.
(ii) 90 to 98% is defined as a site that does not meet expectations.
(iii) A site achieving less than 90% accuracy on the Complications or Mortality section will require a re-audit.

(f) Sites identified as not meeting expectations for overall site accuracy (agreement) or sites having less than 90% accuracy on the Complications or Mortality sections will be required to undergo a follow-up audit within 2 years.

(g) Sites identified as continuously not meeting expectations or with a lower-than 90% agreement rate for the Complications or Mortality sections following the second audit jeopardize their participation in the STS National Database. A participant will not receive a star rating (except in the instance of CHSD participants, who do not receive star ratings), will not be included in the aggregate data, and will not receive a risk-adjusted report of data. The site will also be denied the option to publicly reporting their data.



Variables that we need to work on...

Diabetes	Diabetes Control	Preoperative Chemo	Preoperative Immunotherapy
FEV1% Predicted	DLCO% Predicted	ECOG Score	Procedure performed – thoracotomy vs. thoracoscopy
	Lung/Esophageal Cancer Tumor Stage	Smoke Cessation Counseling	



Diabetes Therapy/Control	93.2%	Most of these mismatch's coding that the patient was diabetic without supporting documentation. Received a mismatch for coding medication as none when the patient did not have diabetes (parent/child). Will educate during webinars/AQO.
Preoperative Chemotherapy/ Immunotherapy	97.3%	Randomly occurring. Will educate on during webinars/AQO.
FEV1 % Predicted	80.3%	Many sites with mismatches. Seems to be a widespread issue. Many sites not coding highest value. Will education on webinars/AQO.
DLCO % Predicted	91.7%	Seems to be a widespread issue. It looks like most mismatches were a result of sites not coding the 'unadjusted' value but coding some other value. Will educate on webinars/AQO.
ECOG Score	90.8%	Seems to be a wide-spread issue. Will educate on webinars/AQO.
All Procedures Performed	90.0%	Seems to be a widespread issue. Looks like there is confusion around a thoracoscopy versus a thoracotomy and the coding of minimally invasive procedures. Will educate on webinars/AQO.
Lung Cancer Tumor Stage	92.0%	Smaller denominators. Seems to be a widespread issue. Will educate on webinars/AQO.
EUS	90.7%	Small denominator.
Esophageal Tumor Stage	86.1%	Small denominator.
Esophageal Cancer Nodes	91.7%	Small denominator.
Total # Lymph Nodes Sampled/Harvested	88.9%	Small denominator.
Smoking Cessation Counseling	85.8%	This looks like a widespread issue with many sites having incorrect data. Will educate on webinars/AQO.
PostOpInvProc	91.5% (95.2%)	18/43 mismatches were a result of parent/child fields. For purposes of STS, when the parent is marked incorrect, the child is a mismatch. We do not assume 'no' for a blank field. Ture coding match rate is ~95%.
Pneumonia	92.9% (96.3%)	18/37 mismatches were related to parent child relationships. True match rate is ~96%
ARDS	94.9% (100%)	20/20 mismatches are a result of parent child coding. True coding accuracy of 100%
RespFail	93.8% (97.7%)	22/34 mismatches were a result of parent child coding. True match rate is ~98%
Vent	94.8% (99.4%)	24.27 mismatches are a result of parent child coding. True match rate is ~99%
AtrialArryth	93.8% (97.7%)	21/33 mismatches are a result of parent child coding. True match rate is closer to ~98%.
МІ	94.4% (98.8%)	20/25 mismatches are a result of parent child coding. True mismatch rate is ~99%.
DelayCondEmp	96.3% (99.1%)	3/4 mismatches are a result of parent child coding. True match rate is ~99%
LaryngealNerve	97.2% (99.1%)	2/3 mismatches are a result of parent child coding. True match rate is ~99%.
MtDCStat	99.8%	One mismatch - site coded patient as dead even though alive. Died on readmission, greater than 30 days post-op
Mt30Stat	98.3%	Mismatches likely related to sites not submitting their follow-up logs. Will educate.

Next steps



Education on monthly webinars and AQO

Sites to have someone familiar with the database to review documentation prior to sending

Sites to confirm that tracking documentation is provided

Reach out to sites if complete documentation is not provided

Adjudicated results post audit

Audit 2022

~26 Sites Audited

20 randomly selected medical records

- Primary Lung and Primary Esophageal Cancer Cases
- Cases performed between July 1, 2020 June 30, 2021

Version 2.41

Sites will be notified May-ish

• Data in the warehouse will be pulled in April, any updates you make after data-pull are not used for the audit



Procedures for 2022 Audit

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Esophageal Procedures:

- •Records meeting all the following criteria:
- •Esophageal Cancer (1590 EsophCancer) = Yes
- •Category Of Disease Primary (1250 CategoryPrim) must be one of the following values:
- •1140 = Malignant neo stomach unspecified (151.9, C16.9)
- •1460 = Malignant neoplasm of the esophagus, unspecified (150.9, C15.9)
- •1130 = Malignant other part esophagus, specified (150.8, C15.8)
- •710 = Esophageal cancer, esophagogastric junction (cardia) (151.0, C16.0)
- •690 = Esophageal cancer, middle third (150.4, C15.4)
- •700 = Esophageal cancer, upper third (150.3, C15.3)
- •680 = Esophageal cancer-lower third (150.5, C15.5)
- •For the procedures associated with the operation record, the one that is flagged to be the primary procedure (Primary=Yes) must be one of the following:
- •3320 = Transhiatal-Total esophagectomy, without thoracotomy, with cervical esophagogastrostomy (43107)
- •3330 = Three hole-Total esophagectomy with thoracotomy; with cervical esophagogastrostomy (43112)
- •3340 = Ivor Lewis-Partial esophagectomy, distal two-thirds, with thoracotomy and separate abdominal incision (43117)
- •3350 = Thoracoabdominal-Partial esophagectomy, thoracoabdominal approach (43122)
- •3360 = Minimally invasive three incision esophagectomy (McKeown) (43288)
- •3370 = Minimally invasive esophagectomy, Ivor Lewis approach (43287)
- •4190 = Minimally invasive esophagectomy, Abdominal and neck approach (43286)
- •3380 = Total esophagectomy without thoracotomy; with colon interposition or small intestine reconstruction (43108)
- •3390 = Total esophagectomy with thoracotomy; with colon interposition or small intestine reconstruction (43113)
- •3400 = Partial esophagectomy, cervical, with free intestinal graft, including microvascular anastomosis (43116)
- •3410 = Partial esophagectomy, with thoracotomy and separate abdominal incision with colon interposition or small intestine (43118)
- •3420 = Partial esophagectomy, distal two-thirds, with thoracotomy only (43121)
- •3430 = Partial esophagectomy, thoracoabdominal with colon interposition or small intestine (43123)
- •3440 = Total or partial esophagectomy, without reconstruction with cervical esophagostomy (43124)

Procedures for 2022 Audit



Primary Lung Cancer Procedures:

- Records meeting all the following criteria:
- Lung Cancer (1580 LungCancer) = Yes
- Category Of Disease Primary (1250 CategoryPrim) must be one of the following values:
- 150 = Lung cancer, main bronchus, carina (162.2, C34.00)
- 160 = Lung cancer, upper lobe (162.3, C34.10)
- 170 = Lung cancer, middle lobe (162.4, C34.2)
- 180 = Lung cancer, lower lobe (162.5, C34.30)
- 190 = Lung cancer, location unspecified (162.9, C34.90)
- For the procedures associated with the operation record, the one that is flagged to be the primary procedure (Primary=Yes) must be one of the following:
- 2470 = Removal of lung, total pneumonectomy (32440)
- 2500 = Removal of lung, single lobe (lobectomy) (32480)
- 2510 = Removal of lung, two lobes (bilobectomy) (32482)
- 2520 = Removal of lung, single segment (segmentectomy) (32484)
- 2530 = Removal of lung, sleeve lobectomy (32486)
- 4140 = Thoracotomy with therapeutic wedge resection (eg mass nodule) initial
- 2800 = Thoracoscopy, surgical; with lobectomy (32663)
- 4070 = Thoracoscopy with therapeutic wedge resection (eg mass or nodule, initial, unilateral
- 4120 = Thoracoscopy with removal of lung, pneumonectomy (32671)
- 4110 = Thoracoscopy with removal of two lobes (bilobectomy) (32670)
- 4100 = Thoracoscopy with removal of a single lung segment (segmentectomy) (32669)

GTSD Audit Variables for 2022 (OR Dates from July 1, 2020 – June 30, 2021)

						1	
V2.41 Seq #	ShortName	720	PreopXRT	1680	PET or PET/CT	3330	PostOpInvProc
60	ParticID	730	PreopXRTDisWhen	1860	LungCaTumSz	3460	Pneumonia
370	HospName	750	PriorCTS	1880	ClinStageLungTumor	3470	ARDS
NA	ProcedureType	830	PreopImmunoThx	1890	ClinStageLungN	3480	RespFail
10	RecordID	880	CrtLst	1920	PathStageLungT	3490	Bronchopeural PE
80	PatID	910	PFT	1940	PathStageLungN	3500 3520	Vent
NA	form record id (IQVIA record	940	FEVPred	1960	PathStageLungM	3520	Trach
	identifier)	960	DLCOPred	1990	LungCANodes	3560	AtrialArryth
290	AdmitDt	970	CigSmoking	2000	LungCANodStat	3580	MI
440	Hypertn	1070	ECOG	2010	LungCAPathMarg	3620	AnastoMed
440 450	CHF	┫┝────		2090	ClinStagEsophEUS	3650	DelayCondEmp
	CAD	1250	CategoryPrim	2150	ClinStageEsophT	3780	LaryngealNerve
470		1310	SurgDt	2160	ClinStageEsophNode	3870	DischDt
580	MVD	1360	ProcStartT	2170	ClinStageEsophM	3880	MtDCStat
<mark>610</mark>	CerebroHx	1370	ProcEndT	2230	PathStageEsophT	3890	DisLoctn
650	Diabetes	<mark>1410</mark>	Reop	2240	PathStageEsophN	3900	CTubeDis
660	DiabCtrl	1480	ASA	2250	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3930	Readm30Dis
680	Dialysis	1490	Proc		PathStageEsophM	3950	Mt30Stat
700				2260	PathStageEsophH	4030	SmokCoun
	PreopChemoCur	1580	LungCancer	2280	EsophCANodes	4070	TempDt – COVID Date
<mark>710</mark>	PreopChemoCurWhen	1590	EsophCancer	2290	EsophCAPathMarg	4080	TempCode – COVID Diagnosis



IQVIA Review Joe Brower

IQVIA Release March 2022

IQVIA Updates - March 2022 Release

Released the weekend of March 26

GTSD Risk Adjusted Dashboard Report – Lung Cancer Resection Reports

The Lung Cancer Resection Composite Reports were released and available for users to review.

The Lung Cancer Resection reports will enable starting with the Fall 2021 harvest results.

**Prior harvests will display the Lung Cancer Morb/Mort and the Lung Cancer Morb/Mort Detail reports.



IQVIA Release March 2022



IQVIA Updates - March 2022

Items below were released the weekend of March 26

GTSD Risk Adjusted Dashboard Report – Fall 2021 Harvest Results – Legacy Reports

STS-7983 - All Legacy Report calculations were updated and are now displaying the expected results based on the PID dataset.

GTSD Risk Adjusted Dashboard Report – Lobectomy STS/NIS Compare

STS-6909 – The Minimally Invasive Lobectomy for Clinical Stage I Lung Cancer calculation was updated on the STS/NIS Comparison report

STS-8101 – The Fall Harvest 2021 NIS results were updated to use the 2019 NIS database results.

IQVIA Update

Please note: Submitted tickets are currently under review and the IQVIA support team will follow up on resolution and/or target release confirmation. The IQVIA Team is currently reviewing items to be targeted for an upcoming release. Those items will be posted to the Notifications section.

Analysis Report Questions

- Please contact IQVIA Support
 - <u>gtsdtechsupport@i</u> <u>qvia.com</u>

 STS/DCRI will be looped in as needed when tickets are escalated to Tier 2

Contact Information

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

Database Operational Questions

• Ljones@sts.org

• STSDB@sts.org

• 312-202-5822

User Group Call

April 27 @2:30CT
 Upcoming
 May 25 @ 2:30CT

GTSD Webinars

Monthly Webinar

- May 11 @ 1:30CT
- June 8 @ 1:30CT



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!

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THANK YOU FOR JOINING!