

Society of Thoracic Surgeons

General Thoracic Surgery Database User Group Call

February 28, 2024



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Agenda

- Welcome and Introduction
- STS Updates
- Neoadjuvant Therapy Module Training Manual
- Harvest Close Review
- Q&A



STS Updates

- February Training Manual posted
 - Bookmarks provided for updates and ease of navigation
- Spring 24 Harvest Close is approaching: Surgery dates 1/1/2021 – 12/31/2023
 - Harvest Closes **March 8th at 11:59pmEastern**
 - Opt out deadline is March 12th
 - Pre-Analysis Report Exclusion Warning will be sent approximately one week prior to harvest close.

STS Updates

- *GTSD Harvest Pre-Analysis Report Exclusion Warning*
 - Goal is to improve data completeness issues and ensure Participants have as many records included in analysis as possible
 - Email will be sent to those Participants 'at risk' for exclusion approx. 1-2 weeks prior to harvest close
 - 2% missing data thresholds are calculated based on the overall composite population eligible for reporting (Esophagectomy, Lobectomy, and Primary Lung Cancer Resection).
 - Specific details can be found in the Analyses Overview
 - Warning Email will include a Participant specific excel spreadsheet containing a list of records that meet the reporting eligibility requirements but are missing one or more of the required fields.
 - Will include ParticID, Patient ID, Record ID, Esoph Cancer, Lung Cancer, Report Year (based on Surgery Date) and flags indicating which field(s) are missing

GTSD					
Harvest	Close	Opt-Out	Includes procedures performed through	Report Posting	Comments
Spring 2024	March 8	March 12	December 31, 2023	Summer 2024	Star Rating
Fall 2024	September 6	September 10	June 30, 2024	Winter 2024	Star Rating

2024 Harvest Schedule

STS Temp Fields and REDCap

- Due to an increased use of neoadjuvant therapy, including preoperative immunotherapy and targeted therapy for patients with clinical stage 1b and higher non-small cell lung cancer, the STS began capturing the type and frequency of neoadjuvant therapy being utilized.
- Effective October 1, 2023: Sites began collecting this data using two temporary fields (TempY/N1 and TempText).
 - TempY/N1 (Seq. 4580) : Did the patient receive preoperative immunotherapy or a targeted agent directed at the lung cancer of interest?
 - TempText (Seq.4620): If yes, what agent?

Neoadjuvant Therapy Module

- STS Temp Y/N1 (Seq 4580):
 - Did the patient receive preoperative immunotherapy or a targeted agent directed at the lung cancer of interest?
 - If Yes, please complete the module to capture more granular data
 - **UPDATED LINK:** <https://redcap.sts.org/surveys/?s=LFXJTHK4YN8TADK9>
- **Please note this is a VOLUNTARY MODULE**
 - Surgery dates Nov 1, 2023 forward



Neoadjuvant Therapy Module (REDCap) Training Manual

STS Neoadjuvant Therapy Module

Data Collection Variables Updated 3/1/2024

- Supplemental Training Manual will be posted first week of March
 - Will be located under v5.21 Data Collection Resources
 - These variables will be removed from the current GTSD TM
- Data Collection Form will be posted along with the TM
- Same format as the current GTSD Training Manual
- New FAQ/Clarifications will be added in red
 - Bookmarks will be added each month with the updates

Neoadjuvant Therapy Module (REDCap) LINK: <https://redcap.sts.org/surveys/?s=LFXJTHK4YN8TADK9>

[Data Collection Resources \(version specific abstraction documents\)](#)

[Ask an Abstraction Question](#)

Introduction

This manual is intended to clarify field definition and intent. This document contains the most up to date instructions for data abstraction. **Please review this document prior to submitting clinical questions. FAQs will be added to the document in red** to provide additional examples and clarification. Comments in **green** are provided for clarification within prior updates. Please do not print this document since it will change frequently. Using the web version will ensure that you have the most up to date information. **Use the Ctrl + F function to search for a number or term of interest.** Bookmarks will be added each month with updates.

General Information

If there are duplicate entries into the RedCap database, the STS will delete the prior entry and take the last one entered.



Neoadjuvant Therapy Module (REDCap) Training Manual

SeqNo: 5035
Long Name: Preoperative Invasive Mediastinal Staging Performed
Short Name: preopinvasivemedstag
Format: Text (categorical values specified by STS)

Definition: Indicate whether preoperative mediastinal staging was performed.

Harvest Codes:

Code:	Value:
1	Yes
2	No
3	Unknown

Intent/Clarification:

Nov 2023: Indicate if the patient underwent biopsies of mediastinal lymph nodes. If a mediastinoscopy is performed during the same OR trip as a therapeutic lung procedure, it can be captured here.

VATS/thoracotomy mediastinal lymph node dissection performed with lung resection is **NOT** captured here.

STS Neoadjuvant Therapy Module

SeqNo: 5055
Long Name: Gene Mutations Identified
Short Name: genemutation
Format: Text (categorical values specified by STS)

Definition: Identify any mutations of the genes listed.

ParentLongName: Molecular Testing Performed Prior To Initiation of Therapy
ParentShortName: moltest
ParentValue: = "Yes"
ParentHarvestCodes: 1

Harvest Codes:

Code:	Value:
1	EGFR exon 19 deletion
2	EGFR L858R insertion
3	ALK rearrangement
4	KRAS
5	RET
6	ROS-1
7	Other
8	None

Intent/Clarification:

Nov 2023: This is not an exhaustive list of all potential mutations – it is the most common. Please choose ‘none of the above’ if a mutation is present but is not on this list.



The Society of Thoracic Surgeons
 General Thoracic Surgery Database
 Neoadjuvant Therapy Supplemental
 Data Collection Form v1.0



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February 2024

Abstraction Question?

- Submit questions via the [STS Clinical Question Request Form | STS](#)
- Please use the appropriate Sequence number/short name as provided on the data collection form.

Patient Information	
Participant ID: ParticID (5010)	Patient ID: PatID (5015)
Record ID: RecordID (5020)	Date of Surgery: SurgDt (5025)
Neoadjuvant Therapy	
Was preoperative invasive mediastinal staging performed: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Preopinvasivemedstag (5035)	
(If Yes →)	Who performed the biopsy: <input type="checkbox"/> Pulmonology <input type="checkbox"/> Thoracic Surgery <input type="checkbox"/> Both <input type="checkbox"/> Unknown Performedbiopsy (5040)
PD-L%: _____% pdl1 (5045)	
Was molecular testing performed prior to initiation of therapy: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Moltest (5050)	
(If Yes →)	Were mutations in any of the following genes identified: Genemutation (5055) <input type="checkbox"/> EGFR exon 19 deletion <input type="checkbox"/> EGFR L858R insertion <input type="checkbox"/> ALK rearrangement <input type="checkbox"/> KRAS <input type="checkbox"/> RET <input type="checkbox"/> ROS-1 <input type="checkbox"/> Other



End of Harvest Review Checklist

Library

▼ Other Resources

[National Report Analyses Overview UPDATED NOV 17 2023](#)
[Fall 2023 Harvest Composite Quality Ratings Summary](#)
[Spring 2023 Harvest Composite Quality Ratings Summary](#)
[Fall 2022 Harvest Composite Quality Ratings Summary_12.17.2022](#)
[Spring 2022 Harvest Composite Quality Ratings Summary](#)
[Fall 2021 Harvest Composite Quality Ratings Summary 03082022](#)
[Spring 2021 Harvest Composite Quality Ratings Summary_9.28.2021](#)
[Fall 2020 Harvest Composite Quality Ratings Summary.9.28.2021](#)
[Spring 2020 Harvest Composite Quality Ratings Summary_9.28.2021](#)
[Risk Adjusted Dashboard Report Overview \(GTSD\) Updated 06042021](#)
[Contact List Report Overview \(NEW\)](#)
[COVID-Positive Patients Included in Risk-Adjusted Analysis](#)
[Critical Errors, Errors and Warnings List \(Updated 8/25/2021\)](#)
[Database Data Collection Resources \(GTSD\)](#)
[Database Transition Resources](#)
[Direct Data Entry FAQ](#)
[End of Harvest Review Checklist \(GTSD\)](#)
[Known Issues - February 2023](#)
[Missing Variable Report Overview \(GTSD\)](#)
[Participant Dashboard Non-Analyzed Report Overview \(GTSD\)](#)
[STS Harvest Opt-Out Request Form](#)
[STS Database IQVIA Role Mapping](#)
[Uploader Instructions](#)



STS Updates

Spring 24 Harvest Close Checklist (resource in IQVIA Library)

- Utilize your Resources
 - Review the Data Quality Report for each upload submission
 - Resolve any critical errors and review errors or warnings and correct as needed
 - Review the Critical Summary Report
 - Enter data file **SUBMISSION** dates (not surgical date range)
 - Review uploads to verify surgery dates and total number of records submitted for each upload

Submission Date Filters:

Date range of file submission

From Date: (MM/DD/YYYY)

To Date: (MM/DD/YYYY)

[Run Report](#)

File Status:

Failed

Passed

Critical Summary

Submission Summary

Submission Date	Upload ID	First Surgery Date	Last Surgery Date	File Status	Total Records	Number of Successful Records	Number of Failed Records	Number of Records Not Changed	Data Quality Report
02/03/2023 02:38:48 PM	180012	07/05/2022	12/27/2022	Passed	80	80	0	0	https://sts.iro.iqvia.com/platform...
09/09/2022 02:08:16 PM	157010	06/03/2022	06/28/2022	Passed	11	11	0	10	https://sts.iro.iqvia.com/platform...
09/09/2022 02:02:58 PM	157008	01/07/2022	06/28/2022	Passed	74	74	0	73	https://sts.iro.iqvia.com/platform...
09/09/2022 01:56:02 PM	157004	01/07/2022	06/28/2022	Passed	74	74	0	73	https://sts.iro.iqvia.com/platform...
09/08/2022 01:56:03 PM	156726	01/07/2022	06/28/2022	Passed	74	74	0	72	https://sts.iro.iqvia.com/platform...
09/06/2022 11:30:52 AM	156126	01/07/2022	06/28/2022	Passed	74	74	0	73	https://sts.iro.iqvia.com/platform...
09/06/2022 11:22:53 AM	156125	01/03/2021	12/28/2021	Passed	129	129	0	66	https://sts.iro.iqvia.com/platform...
09/02/2022 04:43:22 PM	155762	01/07/2022	06/28/2022	Passed	74	74	0	72	https://sts.iro.iqvia.com/platform...
08/30/2022 02:05:42 PM	155113	01/07/2022	06/28/2022	Passed	74	74	0	37	https://sts.iro.iqvia.com/platform...
08/26/2022 12:02:00 PM	154277	01/07/2022	04/29/2022	Passed	45	44	1	0	https://sts.iro.iqvia.com/platform...
03/04/2022 04:25:28 PM	124363	07/03/2021	12/28/2021	Passed	71	71	0	69	https://sts.iro.iqvia.com/platform...
03/03/2022 03:56:19 PM	124087	07/03/2021	12/28/2021	Passed	71	71	0	70	https://sts.iro.iqvia.com/platform...
03/03/2022 03:26:47 PM	124067	07/03/2021	12/28/2021	Passed	71	71	0	70	https://sts.iro.iqvia.com/platform...
03/02/2022 01:43:44 PM	123777	07/03/2021	12/28/2021	Passed	71	71	0	0	https://sts.iro.iqvia.com/platform...

Critical Messages

Submission Date	Upload ID	Validation Status	Record ID	Short Name	MESSAGE	Source Patient ID
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STS Updates

Spring 24 Harvest Close Checklist (resource in IQVIA Library)

- Utilize your Resources
 - Review Harvest Summary Report (located under Operational Reports)
 - Allows you to look at all critical errors, errors and warnings for a specified date range (analysis reporting period)
 - Verify total number of records submitted for specified date range

The screenshot displays the 'HARVEST SUMMARY REPORT' interface. At the top, a navigation bar includes 'File', 'Edit', 'Data', 'Visualizations', 'View', 'Tools', and 'User'. Below this, a 'Filters' panel on the left allows for filtering by 'PROCEDURE_TYPE' (Analyzed, Non-Analyzed) and 'PROCEDURE_CLASS' (Major, Minor). The main content area features a 'Submission Summary' section with a pie chart showing 68.9% for 'No Validations Outstanding' (green) and 31.1% for 'Outstanding Warnings' (blue). A yellow highlight at the top indicates 'Date Range: 01/01/2020-12/31/2022' and 'Total Number of Records for Surgery Date Range: 164'. To the right, an 'Alerts by Submitted Record' table lists individual records with their source patient IDs, record IDs, warning status, and the number of outstanding validations.

Source Patient ID	Record ID	Warning	No Validations Outstanding
V331137	V33776321205	-	1
V33774285719	V33774259622	-	1
V33776340499	V33776329344	-	1
V33776381856	V33776451186	-	1
V33776390340	V33776270933	-	1
V33776400247	V33776267261	-	1
V33776418539	V33776391051	-	1
V33776464263	V33776302156	-	1
V33778368814	V33778378492	-	1
V33778439539	V33778506802	-	1
V33778555544	V33778317451	-	1
V33778566967	V33778469503	-	1

STS Updates

Spring 24 Harvest Close Checklist (resource in IQVIA Library)

- Utilize your Resources
 - Review the Missing Variable Report (located under Operational Reports)
 - Allows you to pinpoint any records that contain missing data
 - Important to ensure Mortality Variables (MtDCStat; Mt30Stat) are complete. “Unknown” is considered as missing data in analysis

The screenshot shows a software interface with a menu bar (File, Edit, Data, Visualizations, View, Tools, User) and a sidebar on the left. The main content area is titled "Missing Variable Summary" and contains a table with columns: Data Version, Surgery Year, Shortname, Name, Missing %, and N. A yellow banner across the table reads "NO DATA FOR SPECIFIED RANGE". Below the table is a "Case List" section with columns: RECORDID, Data Version, Surgery Year, Name, PATIENT_DISPLAY_ID, and Access Case. The interface also includes a "Report Description" section on the left, an "Export" button, and a date range of "01/01/2020-12/31/2022".

Missing Variable Summary

Data Version	Surgery Year	Shortname	Name	Missing %	N
NO DATA FOR SPECIFIED RANGE					

Case List

RECORDID	Data Version	Surgery Year	Name	PATIENT_DISPLAY_ID	Access Case
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Report Description:
Use this report to determine which variables are missing data for the date range selected.

Date Range: 01/01/2020-12/31/2022

Procedure Type

Procedure Class

Spring 24 Harvest Close Checklist (resource in IQVIA Library)

- Utilize your Resources
 - Review the Participant Dashboard
 - Allows you to confirm record counts, mortalities, identifies records with missing or “unknown” data

STS Updates

GTSD Reports
GTSD Participant Dashboard Report

Reports
Select each report title below to view report specific parameters and generate data. Some reports have sub-reports available upon selection.

File Edit Data Visualizations View Tools User

Select Report:

- DEMOGRAPHICS
- PRE-OPERATIVE EVALUATION
- OPERATIVE
- LUNG CANCER
- ESOPHAGEAL CANCER
- POST-OPERATIVE EVENTS
- DISCHARGE**
- QUALITY MEASURES

Report Title	My Site	STS
DISCHARGE STATUS...	99.38	47.04
DISCHARGE STATUS...	94.24	99.51
DISCHARGE STATUS...	89.97	99.51

Variable	My Site	STS
MISSING	0 (0.00%)	14 (0.00%)
YES	312 (97.81%)	20598 (72.93%)
NO	4 (1.25%)	2295 (8.13%)
NOT APPLICABLE	3 (0.94%)	4996 (17.69%)
NULL	0 (0.00%)	354 (1.25%)
ALIVE	603 (99.18%)	59437 (97.86%)
DEAD	5 (0.82%)	682 (1.12%)
UNKNOWN	0 (0.00%)	365 (0.60%)
MISSING	0 (0.00%)	254 (0.42%)

Patient ID	Access Case	Surgery Date	Variable	Variable Option	Report Name	RECORDID
V33782539080	https://sts.irp.iqvia.com/platform/gtsdregistry/facility/1139/case-r...	9/21/2020	STATUS AT 30 DAYS AFTER...	DEAD	DISCHARGE	V33782521878
V33784717246	https://sts.irp.iqvia.com/platform/gtsdregistry/facility/1139/case-r...	11/24/2020	STATUS AT 30 DAYS AFTER...	DEAD	DISCHARGE	V33784769901
V33780463487	https://sts.irp.iqvia.com/platform/gtsdregistry/facility/1139/case-r...	4/1/2022	STATUS AT 30 DAYS AFTER...	DEAD	DISCHARGE	V33805674113
V33814109122	https://sts.irp.iqvia.com/platform/gtsdregistry/facility/1139/case-r...	11/2/2022	STATUS AT 30 DAYS AFTER...	DEAD	DISCHARGE	V33814214870
V33811945435	https://sts.irp.iqvia.com/platform/gtsdregistry/facility/1139/case-r...	8/11/2022	STATUS AT 30 DAYS AFTER...	DEAD	DISCHARGE	V33811897820

Upcoming GTSD Webinars

Monthly Webinars

- March 13 @ 1:30pmCT/2:30pmET
- April 10 @ 1:30pmCT/2:30ET



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!

Contact Information

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Helpdesk Support
(Harvest Questions/Analysis
Report Questions)

- STSDB_helpdesk@sts.org

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

- STSDB@sts.org



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THANK YOU FOR JOINING!