



The Society of Thoracic Surgeons General Thoracic Surgery Database Non-analyzed Procedure Version 2.3

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Revised 9-22-14

- Procedures listed on this form, unless performed in conjunction with a major procedure, are not risk adjusted or analyzed and are not mandatory to collect.
- If the Surgeon Participant chooses to track these cases, the following data set is recommended.

Demographics			
Patient ID: _____	Medical Record #: _____		
First Name: _____	Middle Name: _____	Last Name: _____	SSN#: _____
Patient participating in STS-related clinical trial: <input type="checkbox"/> None <input type="checkbox"/> Trial 1 <input type="checkbox"/> Trial 2 <input type="checkbox"/> Trial 3 <input type="checkbox"/> Trial 4 <input type="checkbox"/> Trial 5 <input type="checkbox"/> Trial 6 (If not "None" →) Clinical trial patient ID: _____			
Date of Birth: ___/___/___	Age: _____	Patient Postal Code: _____	Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female
Is the Patient's Race Documented? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Patient Declined to Disclose			
Race: <i>If Yes select all that apply</i> → White/Caucasian <input type="checkbox"/> Yes <input type="checkbox"/> No		Black/African American <input type="checkbox"/> Yes <input type="checkbox"/> No	
Asian <input type="checkbox"/> Yes <input type="checkbox"/> No		American Indian/Alaskan Native <input type="checkbox"/> Yes <input type="checkbox"/> No	
Native Hawaiian/Pacific Islander <input type="checkbox"/> Yes <input type="checkbox"/> No		Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Hispanic or Latino Ethnicity: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Documented			
Follow-Up			
Date of Last Follow-Up: ___/___/___		Mortality Status at Last Follow-Up: <input type="checkbox"/> Alive <input type="checkbox"/> Dead	
Mortality Date: ___/___/___			
Admission			
Admission Status: <input type="checkbox"/> Inpatient <input type="checkbox"/> Outpatient / Observation		<i>If Inpatient</i> → Admission Date: ___/___/___	
Payor: Indicate the Primary payor:		Indicate the Secondary (supplemental) payor:	
<input type="checkbox"/> None/self <input type="checkbox"/> Medicare <i>If Medicare</i> → Fee For Service: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Medicaid <input type="checkbox"/> Military Health <input type="checkbox"/> Indian Health Service <input type="checkbox"/> Correctional Facility <input type="checkbox"/> State Specific Plan <input type="checkbox"/> Other Government Insurance <input type="checkbox"/> Commercial Health Insurance <input type="checkbox"/> Health Maintenance Organization <input type="checkbox"/> Non U.S. Plan		<input type="checkbox"/> None/self <input type="checkbox"/> Medicare <i>If Medicare</i> → Fee For Service: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Medicaid <input type="checkbox"/> Military Health <input type="checkbox"/> Indian Health Service <input type="checkbox"/> Correctional Facility <input type="checkbox"/> State Specific Plan <input type="checkbox"/> Other Government Insurance <input type="checkbox"/> Commercial Health Insurance <input type="checkbox"/> Health Maintenance Organization <input type="checkbox"/> Non U.S. Plan	
Surgeon Name: _____		Surgeon's National Provider ID: _____	
Taxpayer ID#: _____		Hospital Name: _____	
Hospital Postal Code: _____		Hospital State: _____	
Hospital's National Provider ID: _____			

Diagnosis (Category of Disease)

Category of Disease: Check both Primary and Secondary Diagnosis (Category of Disease). Indicate (circle) the Primary Diagnosis.

Category of Disease (ICD-9, ICD-10)**Trachea & Larynx**

- | | |
|--|---|
| <input type="checkbox"/> Dysphagia, unspecified (787.2, R13.10) | <input type="checkbox"/> Tracheal tumor, malignant (162.0, C33) |
| <input type="checkbox"/> Tracheomalacia-congenital (748.3, Q32.0) | <input type="checkbox"/> Tracheal tumor, benign (212.2, D14.2) |
| <input type="checkbox"/> Tracheomalacia-acquired (519.1, J39.8) | <input type="checkbox"/> Tracheal tumor, metastatic (197.3, C78.30) |
| <input type="checkbox"/> Tracheostenosis-congenital (748.3, Q32.1) | <input type="checkbox"/> Subglottic stenosis-congenital (748.3, Q31.1) |
| <input type="checkbox"/> Tracheostenosis-acquired (post intubation) (519.1, J39.8) | <input type="checkbox"/> Subglottic stenosis-acquired (post intubation) (478.74, J38.6) |
| <input type="checkbox"/> Tracheostomy-hemorrhage (519.09, J95.01) | <input type="checkbox"/> Vocal cord paralysis unspecified (478.3, J38.00) |
| <input type="checkbox"/> Tracheostomy related stenosis (519.02, J95.03) | <input type="checkbox"/> Vocal cord paralysis, unilateral (478.31, J38.01) |
| | <input type="checkbox"/> Vocal cord paralysis, bilateral (478.33, J38.02) |

Lung

- Acute respiratory failure (518.81, J96.00)
- Aspergillosis (117.3, B44.9)
- Bronchiectasis (494.0, J47.9)
- Carcinoid tumor of bronchus and lung; benign, typical (209.61., D34.090)
- Carcinoid tumor of the bronchus and lung; malignant, atypical (209.21, C7A.090)
- Cystic fibrosis with pulmonary manifestations (277.02, E84.0)
- Emphysema (492.8, J43.8)
- Emphysematous bleb (492.0, J43.9)
- Empyema with fistula (510.0, J86.0)
- Empyema without fistula (510.9, J86.9)
- Gangrene and necrosis of lung (513.0, J85.0)
- Hemothorax (511.8, J94.2)
- Interstitial lung disease/fibrosis (516.3, J84.1)
- Lung abscess (513.0, J85.2)
- Lung cancer, main bronchus, carina (162.2, C34.00)
- Lung cancer, upper lobe (162.3, C34.10)
- Lung cancer, middle lobe (162.4, C34.2)
- Lung cancer, lower lobe (162.5, C34.30)
- Lung cancer, location unspecified (162.9, C34.90)
- Solitary pulmonary nodule (not a tumor, e.g., granuloma, subpleural lymph node, pulmonary infarct) (793.11, R91.1)
- Lung tumor, benign (212.3, D14.30)
- Lung tumor, metastatic (197.0, C78.00)
- Malignant neoplasm other parts of bronchus or lung (162.8, C34.8)
- Neoplasm of uncertain behavior of trachea, bronchus and lung (235.7, DM38.1)
- Personal history of malignant neoplasm of bronchus and lung (V10.11, Z85.118)
- Pneumonia (486.0, J18.9)
- Pneumothorax (512.8, J93.1)
- Post inflammatory pulmonary fibrosis (515, J84.89)
- Primary pulmonary hypertension (416.0, I27.0)
- Pulmonary insufficiency following surgery/trauma (ARDS) (518.5, J95.82)
- Pulmonary sequestration (748.5, Q33.2)
- Transplanted lung complication(s) (996.84, T86.8XX)

Mediastinum

- Anterior mediastinal tumor primary(germ cell cancer, seminoma) (164.2, C38.1)
- Anterior mediastinal tumor-benign-(e.g., teratoma) (212.5, D15.2)
- Anterior mediastinal tumor-metastatic (197.1, C78.1)
- Anterior mediastinal tumor-thymus tumor (thymoma, thymic carcinoma) (164.0, C37)
- Benign neoplasm of thymus (212.6, D15.0)
- Lymphoma, intrathoracic (202.82, C85.92)
- Mediastinal abscess (513.1, J85.3)
- Mediastinal cyst, Bronchogenic (519.3, J98.5)
- Mediastinal cyst, Foregut duplication (519.3, J98.5)
- Mediastinal cyst, Pericardial (519.3, J98.5)
- Mediastinal cyst, Thymic (519.3, J98.5)
- Mediastinal nodes, benign (229.0, D36.0)
- Mediastinal nodes, metastatic (196.1, C77.1)
- Mediastinitis (519.2, J98.5)

- Myasthenia gravis (358.0, G70.00)
- Neoplasm of uncertain behavior of pleura, thymus, mediastinum (235.8, D38.2-D38.4)
- Posterior mediastinal malignant tumor- primary (164.3, C38.2)
- Posterior mediastinal tumor-benign(neurogenic)(212.5,D15.2)
- Posterior mediastinal tumor-metastatic (197.1, C78.1)
- Unspecified disease of thymus gland (254.9, E32.9)

Thyroid

- Goiter, nodular (241.9, E04.9)
- Thyroid neoplasm, benign (226.0, D34)
- Thyroid neoplasm, malignant (193.0, C73)

Pleura

- Pleural effusion, infected- (empyema) (511.1, J86.9)
- Pleural effusion, malignant (197.2, C78.2)
- Pleural effusion sterile (511.9, J90)
- Pleural effusion, other specified, except TB (511.89, J90)
- Pleural thickening (511.0, J94.9)
- Pleural tumor, benign (212.4, D19.0)
- Pleural tumor, metastatic (197.2, C78.2)
- Malignant neoplasm other specified sites of pleura (163.8, C38.4)
- Malignant tumor of pleura, unspecified (e.g., mesothelioma) (163.9, C38.4)

Chest Wall

- Pectus carinatum (754.82, Q67.7)
- Pectus excavatum (754.81, Q67.6)
- Rib tumor, benign-(e.g., fibrous dysplasia) (213.3, D16.7)
- Rib tumor, malignant-(e.g., osteosarcoma, chondrosarcoma) (170.3, C41.3)
- Rib tumor, metastatic (198.5, C79.51)
- Sternal tumor, benign (213.3, D16.7)
- Sternal tumor, malignant (170.3, C41.3)
- Sternal tumor, metastatic (198.5, C79.51)
- Thoracic outlet syndrome (353.0, G54.0)

Diaphragm

- Diaphragm tumor, benign (215.4, D21.3)
- Diaphragm tumor, malignant (171.4, C49.3)
- Diaphragm tumor, metastatic (198.89, C79.89)
- Diaphragmatic hernia with obstruction, without gangrene (552.3, K44.0)
- Diaphragmatic hernia with gangrene (551.3, K44.1)
- Diaphragmatic hernia without obstruction or gangrene (553.3, K44.9)
- Diaphragmatic paralysis (519.4, J98.6)

Esophagus

- Achalasia of esophagus (530.0, K22.0)
- Acquired absence of esophagus (post esophagectomy) (V45.79, Z90.89)
- Barrett's esophagus (530.85, K22.70)
- Barrett's esophagus with High Grade Dysplasia (530.85, K22.711)
- Dyskinesia/spasm of esophagus (530.5, K22.4)
- Epiphrenic diverticulum (530.6, K22.5)
- Esophageal cancer, esophagogastric junction (cardia) (151.0, C16.0)
- Esophageal cancer, middle third (150.4, C15.4)
- Esophageal cancer, upper third (150.3, C15.3)
- Esophageal cancer-lower third (150.5, C15.5)
- Esophageal perforation (530.4, K22.3)
- Esophageal reflux (GERD) (530.81, K21.9)
- Esophageal stricture (530.3, K22.2)
- Esophageal tumor-benign (i.e., leiomyoma) (211.0, D13.0)
- Esophagitis (530.1, K20.9)
- Foreign body esophagus (935.1, T18.108a)
- Gastric outlet obstruction, pyloric stenosis, acquired (537.0, K31.1)
- Malignant neo stomach unspecified (151.9, C16.9)
- Malignant neoplasm of the esophagus, unspecified (150.9, C15.9)
- Malignant other part esophagus, specified (150.8, C15.8)
- Mallory Weiss tear (530.7, K22.6)
- Reflux esophagitis (530.11, K21.0)
- Stricture and stenosis of esophagus (530.3, K22.2)
- Tracheoesophageal fistula (530.84, J86.0)
- Ulcer esophagus with bleeding (530.21, K22.11)
- Ulcer esophagus without bleeding (530.2, K22.10)
- Zenkers diverticulum (530.6, K22.5)
- Other digestive system complication (997.49, K91.XX)
- Other disease of the esophagus (530.89, K22.8)

Trauma

- Flail chest (807.4, S22.5xxa)
- Rib fracture (807.0, S22.39xa)
- Rib fractures, multiple (807.0, S22.49xa)
- Sternal fracture (807.2, S22.20xa)
- Tracheal injury (807.5, S12.8xxa)
- Traumatic pneumothorax (860.0, S27.0xxa)

Cardiovascular

- Abdominal aneurysm without rupture (441.4, I171.4)
- Cardiac tamponade (423.3, I31.4)
- Pericardial effusion, malignant (198.89, C79.89)
- Pericarditis with effusion (420.9, I30.9)
- Pericarditis, constrictive (432.2, I31.1)
- SVC Syndrome (459.2, I87.1)
- Unspecified disease of the pericardium (423.9, I31.9)

Miscellaneous

- Abnormal radiologic finding (793.1, R91)
- Chronic airway obstruction not elsewhere classified (496, J44.9)
- Chylothorax (457.8, 189.8)
- Disruption of internal operation, surgical wound (998.31, T81.32XA)
- Hemorrhage complicating a procedure (998.11, multiple codes)
- Hematoma complicating a procedure (998.12, multiple codes)
- Hemoptysis unspecified (786.3, R04.2)
- Hyperhidrosis, focal axilla (705.21, L74.510)
- Hyperhidrosis, focal, face (705.21, L74.511)
- Hyperhidrosis, focal, palms (705.21, L74.512)

- Lymphadenopathy (785.6, R59.9)
- Other non-infectious disorders of lymphatic channels (457.8, I89.8)
- Malignant neoplasm of connective tissue and other soft tissue of the thorax (171.4, C49.3)
- Malignant poorly differentiated neuroendocrine carcinoma, any site (209.3, C74.1)
- Non-healing surgical wound (998.83, T81.89XA)
- Other post- op infection (998.59, T81.4XXA)
- Persistent post-op fistula not otherwise classified (998.6, T81.83XA)
- Post-operative air leak (512.2, J95.812)
- Secondary malignant neoplasm of other specified sites (198.89, C79.89)
- Shortness of breath (786.05, R06.02)
- Swelling, mass or lump in chest (786.6, R22.2)
- Other unlisted category of disease

Other Primary Specify:	If diagnosis not listed, free text here: _____ _____
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Other Primary ICD:	Enter ICD-9 or ICD-10 of unlisted primary diagnosis, if known: _____ _____
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Secondary, Other Secondary Specify:	If secondary diagnosis not listed, free text here: _____ _____
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Secondary, Other Secondary ICD:	Enter ICD-9 or ICD-10 of unlisted secondary diagnosis, if known : _____ _____
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Date of Surgery: _____ / _____ / _____

Status of Operation: Emergent Urgent Elective Palliative

Procedures

Check ALL of the procedures performed. *Indicate (circle) the Primary Procedure.*

Trachea, Bronchi, Larynx

- | | |
|--|---|
| <input type="checkbox"/> Tracheostomy, planned (31600) | <input type="checkbox"/> Rigid stent removal |
| <input type="checkbox"/> Tracheostomy replacement (tube change) prior to est. of fistula tract (31502) | <input type="checkbox"/> Unlisted procedure, trachea, bronchi (31899) |
| <input type="checkbox"/> Tracheostomy revision simple, without flap (31613) | |

Bronchoscopy

- Bronchoscopy, diagnostic, with or without cell washing (31622)
- Bronchoscopy, each additional major bronchus stented (31637)
- Bronchoscopy, navigational (31627)
- Bronchoscopy, with bronchial alveolar lavage (BAL) (31624)
- Bronchoscopy, with bronchial or endobronchial biopsy(s), single or multiple sites (31625)
- Bronchoscopy, with brushing or protected brushings (31623)
- Bronchoscopy, with destruction of tumor or relief of stenosis by any method other than excision (e.g., laser therapy) (31641)
- Bronchoscopy, with excision of tumor (31640)
- Bronchoscopy, with placement of bronchial stent(s) (includes tracheal/bronchial dilation as required), initial bronchus (31636)
- Bronchoscopy, with placement of catheter(s) for intracavitary radioelement application (31643)
- Bronchoscopy, with placement of Fiducial markers (31626)
- Bronchoscopy, with placement of tracheal stent(s) (includes tracheal/bronchial dilation as required) (31631)
- Bronchoscopy, with removal of foreign body (31635)
- Bronchoscopy, with revision of tracheal or bronchial stent inserted at previous session (31638)
- Bronchoscopy, with therapeutic aspiration of tracheobronchial tree, initial (drainage of lung abscess) (31645)
- Bronchoscopy, with therapeutic aspiration of tracheobronchial tree, subsequent (31646)
- Bronchoscopy, with tracheal/bronchial dilation or closed reduction of fracture (31630)
- Bronchoscopy, with transbronchial lung biopsy(s), each additional lobe (31632)
- Bronchoscopy, with transbronchial lung biopsy(s), single lobe (31628)
- Bronchoscopy, with transbronchial needle aspiration biopsy(s) (31629)
- Bronchoscopy, with transbronchial needle aspiration biopsy(s), each additional lobe (31633)
- Endobronchial ultrasound (EBUS) during bronchoscopy diagnostic or therapeutic intervention(s) (31620)
- Tracheobronchoscopy through established tracheostomy incision (31615)

Pleural Space and Lung

- Thoracoscopy, diagnostic lungs and pleural space, without biopsy (32601)
- Thoracoscopy, surgical; with pleurodesis (e.g., mechanical or chemical) (32650)
- Thoracoscopy, surgical; with removal of intrapleural foreign body or fibrin deposit (32653)
- Thoracoscopy, diagnostic; with biopsy(s) of lung infiltrate(s) (eg wedge), unilateral (32607)
- Thoracoscopy, diagnostic; with biopsy(s) of lung nodule(s) or mass(es) (eg incisional), unilateral (32608)
- Thoracoscopy, diagnostic; with biopsy(s) of pleura (32609)
- Thoracostomy; with rib resection for empyema (32035)
- Thoracostomy; with open flap drainage for empyema (32036)
- Thoracotomy with biopsy(s) lung infiltrate(s) (eg wedge), unilateral (32096)
- Thoracotomy with biopsy(s) lung nodule(s) or masses (eg incisional), unilateral (32097)

- Thoracotomy with biopsy(s) of pleura (32098)
- Thoracotomy with cardiac massage (32160)
- Pleural scarification for repeat pneumothorax (32215)
- Insertion indwelling tunneled pleural catheter (32550)
- Repair lung hernia through chest wall (32800)
- Closure of chest wall following open flap drainage for empyema (Clagett type procedure) (32810)
- Total lung lavage (for alveolar proteinosis) (32997)
- Radio-frequency ablation (RFA) lung tumor (32998)
- Unlisted procedure, lung (32999)

Mediastinum and Diaphragm

- Thoracoscopy, diagnostic; mediastinal space, with biopsy (32606)
- Mediastinotomy with exploration or biopsy; cervical approach (39000)
- Mediastinotomy with exploration or biopsy; transthoracic approach (39010)
- Mediastinoscopy, with or without biopsy (39400)
- Unlisted procedure, mediastinum (39499)
- Unlisted procedure, diaphragm (39599)

Esophagoscopy

- Esophagoscopy (43200)
- Esophagoscopy with biopsy (43202)
- Esophagoscopy with removal of foreign body (43215)
- Esophagoscopy with insertion of stent (43219)
- Esophagoscopy with balloon dilation (43220)
- Esophagoscopy with insertion of guide wire followed by dilation over guide wire (43226)
- Esophagoscopy with ablation of tumor (43228)
- Esophagoscopy with endoscopic ultrasound examination (EUS) (43231)
- Esophagoscopy with transendoscopic ultrasound-guided fine needle aspiration (43232)
- Upper gastrointestinal endoscopy, diagnostic (43235)
- Upper gastrointestinal endoscopy with endoscopic ultrasound examination limited to the esophagus (43237)
- Upper gastrointestinal endoscopy with transendoscopic ultrasound-guided FNA (43238)
- Upper gastrointestinal endoscopy with biopsy (43239)
- Upper gastrointestinal endoscopy with dilation of gastric outlet for obstruction (43245)
- Upper gastrointestinal endoscopy with directed placement of percutaneous gastrostomy tube (43246)
- Upper gastrointestinal endoscopy with removal of foreign body (43247)
- Upper gastrointestinal endoscopy with insertion of guide wire followed by dilation of esophagus (43248)
- Upper gastrointestinal endoscopy with balloon dilation of esophagus (43249)
- Upper gastrointestinal endoscopy with transendoscopic stent placement (43256)
- Upper gastrointestinal endoscopy with ablation of tumor (43258)

Esophagus Other Procedures

- Cricopharyngeal myotomy (43030)
- Diverticulectomy of hypopharynx or esophagus, with or without myotomy; cervical approach (43130)
- Esophagostomy, fistulization of esophagus, external; cervical approach (43352)
- Closure of esophagostomy or fistula; cervical approach (43420)
- Excision esophageal lesion with primary repair, cervical approach (43100)
- Trans oral fundoplication
- Unlisted laparoscopy, esophagus (43289)
- Unlisted procedure, esophagus (43499)

Chest Wall and Neck

- Excision tumor, soft tissue of neck or thorax; subcutaneous (21555)
- Excision tumor, soft tissue of neck or thorax; deep, subfascial, intramuscular (21556)
- Excision of rib, partial (21600)
- Excision first and/or cervical rib (21615)
- Excision first and/or cervical rib; with sympathectomy (21616)
- Division of scalenus anticus; without resection of cervical rib (21700)
- Division of scalenus anticus; with resection of cervical rib (21705)
- Open treatment of sternum fracture with or without skeletal fixation (21825)
- Hyoid myotomy and suspension (21685) secondary procedure code
- Removal of sternal wire(s)
- Unlisted procedure, neck or thorax (21899)

Miscellaneous

- Thoracoscopy, diagnostic pericardial sac, with biopsy (32604)
- Thoracoscopy, surgical; with removal of clot or foreign body from pericardial sac (32658)
- Thoracoscopy, surgical; with creation of pericardial window or partial resection of pericardial sac for drainage (32659)
- Tube pericardiostomy (33015)
- Pericardial window (33025)
- Thoracoscopy, surgical; with thoracic sympathectomy (32664)
- Removal substernal thyroid, cervical approach (60271)
- Application of wound vac (97605, 97606)
- Stereotactic radiosurgery (SRS) and stereotactic body radiotherapy (SBRT),surgeon participation (32701)
- Other Minor Procedure

Procedure Unlisted – Specify:	Enter Name of unlisted Procedure(s): _____ _____
Procedure Unlisted – CPT:	Enter 5 digit CPT code(s) of unlisted procedure, if known: _____ _____

Discharge

Discharge Status: Alive Dead

Quality Measures

IV antibiotics ordered to be given within 1 hour before incision:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not indicated for procedure
IV antibiotics given within 1 hour before incision:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not indicated for procedure
Cephalosporin Antibiotic Ordered	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not indicated for procedure <input type="checkbox"/> Documented allergy or indication for therapeutic substitution
Prophylactic Antibiotic Discontinuation Ordered within 24 hr	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No, due to documented infection <input type="checkbox"/> Not indicated for procedure
DVT Prophylaxis Measures employed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable
Smoking Cessation Counseling	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Patient refused <input type="checkbox"/> Nonsmoker