



The Society of Thoracic Surgeons General Thoracic Surgery Database Non-analyzed Procedure Data Collection Form Version 2.2

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- 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: _____ PatID (80)	Medical Record #: _____ MedRecN (100)
First Name: _____ PatFName (110)	MI: _____ Last Name: _____ SSN#: _____ PatMInit (120) PatLName (130) SSN (140)
STS Trial Link #: _____ STSTLink (150)	
Date of Birth: ____/____/____ DOB (160)	Age: _____ Patient Zip Code: _____ Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female Age (170) PostalCode (180) Gender (190)
Race: <i>Select all that apply</i> → White/Caucasian <input type="checkbox"/> Yes <input type="checkbox"/> No RaceCaucasian (200)	
Black/African American <input type="checkbox"/> Yes <input type="checkbox"/> No RaceBlack (210)	
Asian <input type="checkbox"/> Yes <input type="checkbox"/> No RaceAsian (220)	
Native Hawaiian/Pacific Islander <input type="checkbox"/> Yes <input type="checkbox"/> No RacNativePacific (240)	
American Indian/Alaskan Native <input type="checkbox"/> Yes <input type="checkbox"/> No RaceNativeAm (230)	
Other <input type="checkbox"/> Yes <input type="checkbox"/> No RaceOther (250)	
Unknown <input type="checkbox"/> Yes <input type="checkbox"/> No RaceUnk (260)	
Hispanic or Latino Ethnicity: <input type="checkbox"/> Yes <input type="checkbox"/> No Ethnicity (270)	
Admission	
Admission Status: <input type="checkbox"/> Inpatient <input type="checkbox"/> Outpatient / Observation AdmissionStat (280)	<i>If Inpatient</i> → Admission Date: ____/____/____ AdmitDt (290)
Payor: <i>Select all that apply</i> ↓	
Government Health Insurance: <input type="checkbox"/> Yes <input type="checkbox"/> No PayorGov (300)	
<i>If Yes: Select all that apply: ↓</i>	
Medicare <input type="checkbox"/> Yes <input type="checkbox"/> No PayorGovMcare(310)	<i>If Yes</i> → Fee For Service: <input type="checkbox"/> Yes <input type="checkbox"/> No MedicareFFS (320)
Medicare Health Insurance Claim (HIC)#: _____ MHICNumber (331)	
Medicaid <input type="checkbox"/> Yes <input type="checkbox"/> No PayorGovMcaid(340)	Military Health Care <input type="checkbox"/> Yes <input type="checkbox"/> No PayorGovMil(350)
State-Specific Plan <input type="checkbox"/> Yes <input type="checkbox"/> No PayorGovState(360)	Indian Health Service <input type="checkbox"/> Yes <input type="checkbox"/> No PayorGovIHS(370)
Commercial Health Insurance <input type="checkbox"/> Yes <input type="checkbox"/> No PayorCom (380)	Non-U.S. Insured <input type="checkbox"/> Yes <input type="checkbox"/> No PayorNonUS (400)
Health Maintenance Organization <input type="checkbox"/> Yes <input type="checkbox"/> No PayorHMO (390)	None / Self <input type="checkbox"/> Yes <input type="checkbox"/> No PayorNS (410)
Surgeon Name: _____ Surgeon (420)	Surgeon's National Provider ID: _____ SurgNPI (430)
Taxpayer ID#: _____ TIN (440)	Hospital Name: _____ HospName (450)

Hospital Zip Code: _____ HospZIP (460)	Hospital State: _____ HospStat (470)	Hospital's National Provider ID: _____ HospNPI (480)
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Diagnosis (Category of Disease) and Procedures

Category of Disease: Check both Primary and Secondary Diagnosis (Category of Disease). Indicate (circle) the Primary Diagnosis.
 CategoryPrim (1300) CategorySecond (1320)

Category of Disease (ICD-9, ICD-10)	Trachea & Larynx
<input type="checkbox"/> Tracheomalacia-congenital (748.3, Q32.0) <input type="checkbox"/> Tracheomalacia-acquired (519.1, J39.8) <input type="checkbox"/> Tracheostenosis-congenital (748.3, Q32.1) <input type="checkbox"/> Tracheostenosis-acquired (post intubation) (519.1, J39.8) <input type="checkbox"/> Tracheostomy-hemorrhage (519.09, J95.01) <input type="checkbox"/> Tracheostomy related stenosis (519.02, J95.03) <input type="checkbox"/> Tracheal tumor, malignant (162.0, C33)	<input type="checkbox"/> Tracheal tumor, benign (212.2, D14.2) <input type="checkbox"/> Tracheal tumor, metastatic (197.3, C78.30) <input type="checkbox"/> Subglottic stenosis-congenital (748.3, Q31.1) <input type="checkbox"/> Subglottic stenosis-acquired (post intubation) (478.74, J38.6) <input type="checkbox"/> Vocal cord paralysis unspecified (478.3, J38.00) <input type="checkbox"/> Vocal cord paralysis, unilateral (478.31, J38.01) <input type="checkbox"/> Vocal cord paralysis, bilateral (478.33, J38.02)

Lung

<input type="checkbox"/> Lung tumor, metastatic (197.0, C78.00) <input type="checkbox"/> Lung tumor, benign (212.3, D14.30) <input type="checkbox"/> Lung cancer, main bronchus, carina (162.2, C34.00) <input type="checkbox"/> Lung cancer, upper lobe (162.3, C34.10) <input type="checkbox"/> Lung cancer, middle lobe (162.4, C34.2) <input type="checkbox"/> Lung cancer, lower lobe (162.5, C34.30) <input type="checkbox"/> Lung cancer, location unspecified (162.9, C34.90) <input type="checkbox"/> Acute respiratory failure (518.81, J96.00) <input type="checkbox"/> Hemothorax (511.8, J94.2) <input type="checkbox"/> Pulmonary sequestration (748.5, Q33.2) <input type="checkbox"/> Pulmonary insufficiency following surgery/trauma (ARDS) (518.5, J95.82) <input type="checkbox"/> Lung nodule, benign (not a tumor, e.g., granuloma, subpleural lymph node, pulmonary infarct) (518.89, J98.4)	<input type="checkbox"/> Lung abscess (513.0, J85.2) <input type="checkbox"/> Gangrene and necrosis of lung (513.0, J85.0) <input type="checkbox"/> Pneumothorax (512.8, J93.1) <input type="checkbox"/> Bronchiectasis (494.0, J47.9) <input type="checkbox"/> Empyema with fistula (510.0, J86.0) <input type="checkbox"/> Empyema without fistula (510.9, J86.9) <input type="checkbox"/> Emphysema (492.8, J43.8) <input type="checkbox"/> Emphysematous bleb (492.0, J43.9) <input type="checkbox"/> Interstitial lung disease/fibrosis (516.3, J84.1) <input type="checkbox"/> Pneumonia (486.0, J18.9)
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Mediastinum

<input type="checkbox"/> Mediastinitis (519.2, J98.5) <input type="checkbox"/> Mediastinal abscess (513.1, J85.3) <input type="checkbox"/> Mediastinal cyst, Bronchogenic (519.3, J98.5) <input type="checkbox"/> Mediastinal cyst, Foregut duplication (519.3, J98.5) <input type="checkbox"/> Mediastinal nodes, metastatic (196.1, C77.1) <input type="checkbox"/> Myasthenia gravis (358.0, G70.00) <input type="checkbox"/> Anterior mediastinal tumor-metastatic (197.1, C78.1) <input type="checkbox"/> Anterior mediastinal tumor-benign-(e.g., teratoma) (212.5, D15.2) <input type="checkbox"/> Anterior mediastinal tumor-thymus tumor (thymoma, thymic carcinoma) (164.0, C37) <input type="checkbox"/> Anterior mediastinal tumor primary(germ cell cancer, seminoma) (164.2, C38.1)	<input type="checkbox"/> Mediastinal cyst, Pericardial (519.3, J98.5) <input type="checkbox"/> Mediastinal cyst, Thymic (519.3, J98.5) <input type="checkbox"/> Mediastinal nodes, benign (229.0, D36.0) <input type="checkbox"/> Lymphoma, intrathoracic (202.82, C85.92) <input type="checkbox"/> Posterior mediastinal malignant tumor- primary (164.3, C38.2) <input type="checkbox"/> Posterior mediastinal tumor-metastatic (197.1, C78.1) <input type="checkbox"/> Posterior mediastinal tumor-benign(neurogenic)(212.5,D15.2)
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Thyroid

<input type="checkbox"/> Goiter, nodular (241.9, E04.9)	<input type="checkbox"/> Thyroid neoplasm, malignant (193.0, C73)	<input type="checkbox"/> Thyroid neoplasm, benign (226.0, D34)
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Pleura

<input type="checkbox"/> Pleural effusion sterile (511.9, J90) <input type="checkbox"/> Pleural effusion, infected- (empyema) (511.1, J86.9) <input type="checkbox"/> Pleural effusion, malignant (197.2, C78.2) <input type="checkbox"/> Pleural tumor, malignant (e.g., mesothelioma)(163.9, C45.0)	<input type="checkbox"/> Pleural tumor, metastatic (197.2, C78.2) <input type="checkbox"/> Pleural tumor, benign (212.4, D19.0) <input type="checkbox"/> Pleural thickening (511.0, J94.9)
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Chest Wall

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

<input type="checkbox"/> Diaphragmatic hernia without obstruction or gangrene (553.3, K44.9) <input type="checkbox"/> Diaphragmatic hernia with gangrene (551.3, K44.1) <input type="checkbox"/> Diaphragmatic hernia with obstruction, without gangrene (552.3, K44.0) <input type="checkbox"/> Diaphragmatic paralysis (519.4, J98.6)	<input type="checkbox"/> Diaphragm tumor, malignant (171.4, C49.3) <input type="checkbox"/> Diaphragm tumor, metastatic (198.89, C79.89) <input type="checkbox"/> Diaphragm tumor, benign (215.4, D21.3)
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Esophagus

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

Trauma

- | | |
|---|---|
| <input type="checkbox"/> Rib fracture (807.0, S22.39xa) | <input type="checkbox"/> Flail chest (807.4, S22.5xxa) |
| <input type="checkbox"/> Multiple rib fractures (807.0, S22.49xa) | <input type="checkbox"/> Tracheal injury (807.5, S12.8xxa) |
| <input type="checkbox"/> Sternal fracture (807.2, S22.20xa) | <input type="checkbox"/> Traumatic pneumothorax (860.0, S27.0xxa) |

Cardiovascular

- | | | |
|--|---|--|
| <input type="checkbox"/> Pericarditis with effusion (420.9, I30.9) | <input type="checkbox"/> Pericardial effusion, malignant (198.89, C79.89) | <input type="checkbox"/> SVC Syndrome (459.2, I87.1) |
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Miscellaneous

- | | |
|--|---|
| <input type="checkbox"/> Hyperhidrosis, focal axilla (705.21, L74.510) | <input type="checkbox"/> Chylothorax (457.8, I89.8) |
| <input type="checkbox"/> Hyperhidrosis, focal, face (705.21, L74.511) | <input type="checkbox"/> Lymphadenopathy (785.6, R59.9) |
| <input type="checkbox"/> Hyperhidrosis, focal, palms (705.21, L74.512) | <input type="checkbox"/> Abnormal radiologic finding (793.1, R91) |
| <input type="checkbox"/> Other unlisted category of disease | |

Other Primary Specify: CategoryPrimOth(1310)	If diagnosis not listed, free text here: _____ _____
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Other Primary ICD: CategoryPrimOthICD(1311)	Enter ICD-9 or ICD-10 of unlisted primary diagnosis, if known: _____ _____
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Secondary, Other Secondary Specify: CategorySecondOth(1330)	If secondary diagnosis not listed, free text here: _____ _____
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Secondary, Other Secondary ICD: CategorySecondOthICD(1331)	Enter ICD-9 or ICD-10 of unlisted secondary diagnosis, if known : _____ _____
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Date of Surgery: ____/____/____ SurgDt (1340)	Status of Operation: <input type="checkbox"/> Emergent <input type="checkbox"/> Urgent <input type="checkbox"/> Elective <input type="checkbox"/> Palliative Status (1420)
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Procedures

Check ALL of the procedures attempted. Indicate (circle) the Primary Procedure.
Proc (1480) **Primary (1500)**

Trachea and Bronchi

- Tracheostomy (31600)
 Unlisted procedure, trachea, bronchi (31899)

Bronchoscopy

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

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(ies) of lung infiltrate(s) (eg wedge), unilateral (32607)
 Thoracoscopy, diagnostic; with biopsy(ies) of lung nodule(s) or mass(es) (eg incisional), unilateral (32608)
 Thoracoscopy, diagnostic; with biopsy(ies) of pleura (32609)

- Thoracostomy; with rib resection for empyema (32035)
- Thoracostomy; with open flap drainage for empyema (32036)
- Thoracotomy with biopsy(ies) lung infiltrate(s) (eg wedge), unilateral (32096)
- Thoracotomy with biopsy(ies) lung nodule(s) or masses (eg incisional), unilateral (32097)
- Thoracotomy with biopsy(ies) of pleura (32098)
- Thoracotomy with cardiac massage (32160)
- Pleural scarification for repeat pneumothorax (32215)
- Insertion indwelling tunneled pleural catheter (32550)

Lung Other

- 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)
- 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
- 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)
- Thoracoscopy, surgical; with thoracic sympathectomy (32664)
- Tube pericardiostomy (33015)
- Pericardial window (33025)
- Removal substernal thyroid, cervical approach (60271)
- Application of wound vac (XXXX)
- Stereotactic radiosurgery (SRS) and stereotactic body radiotherapy (SBRT),surgeon participation (XXXX)
- Other Minor Procedure (XXXX)

Procedure Unlisted – Specify: Enter Name of unlisted Procedure(s): _____
ProcOth(1490) _____

Procedure Unlisted – CPT: <i>Enter 5 digit CPT code(s) of unlisted procedure, if known:</i> _____ ProcOthCPT(1491)
Discharge
Discharge Status: <input type="checkbox"/> Alive <input type="checkbox"/> Dead MtDCStat (2200)
Quality Measures
IV antibiotics ordered to be given within 1 hour before incision: IVAntibioOrdered (2290) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not indicated for procedure
IV antibiotics given within 1 hour before incision: IVAntibioGiven (2300) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not indicated for procedure
Cephalosporin Antibiotic Ordered: CephalAntiOrdered (2310) <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: AntibioticDiscOrdered (2320) <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: DVTProphylaxis (2330) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable
Smoking Cessation Counseling: SmokCoun (2340) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Patient refused <input type="checkbox"/> Nonsmoker