

# The Society of Thoracic Surgeons General Thoracic Surgery Database Data Collection Form Version 2.081

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- A Data Collection Form (DCF) should be initiated <u>every time</u> the patient enters the Operating Room (which includes the Endoscopy Suite or Out Patient Surgical Center.)
- Fields that appear <u>underlined and in blue</u> are required for record inclusion. If any of these fields are missing data, the entire record will be excluded from the analysis.

1. Demographics					
Patient ID:	Medical Record #:				
PatID (90)	Med	RecN (110)			
First Name:	MI:		Last Name:		SSN#:
PatFName (120)	PatM	/Init (130)	PLName (140)		SSN (150)
STS Trial Link #:					
STSTLink (160)					
Date of Birth://	Age:	Pati	ent Zip Code:	Gender	□ Male □ Female
DOB (170)	Age (180)	Post	alCode (190)	Gender (	200)
<b><u>Race</u></b> : Select all that apply $\rightarrow$	□ White/Caucasi	ian 🗆 Blac	k/African American	Asian	
	RaceCaucasian (	(210) RaceBl	ack (220)	RaceAsian (240)	
	□ American India	an/Alaskan Nativ	ve 🛛 Native Hawaii	ian/Pacific Islander	
	RaceNativeAm (2	250)	RacNativePacifi	c (260)	
Hispanic or Latino Ethnicity:	Yes 🛛 No				
Ethnicity (280)					

2. Admission		
Admission Status:  Inpatient  Out	tpatient / Observation	If Inpatient $\rightarrow$ Admission Date:/_/
AdmissionStat (290)		AdmitDt (300)
Payor: Select all that apply ↓		
Government Health Insurance:		
PayorGov (310)		
If Yes: Select all that apply: $\rightarrow$		id  □ Military Health Care  □ State-Specific Plan  □ Indian Health Service
		ayorGovMcaid(350) PayorGovMil(360) PayorGovState(370) PayorGovIHS(380)
	If Medicare $\rightarrow$	Fee For Service?  Yes  No
		MedicareFFS (330)
		Health Insurance Claim (HIC)#: HICNumber (340)
Commercial Health Insurance	□ Non-U.S. Ir	
PayorCom (390)	PayorNonUS	
□ Health Maintenance Organization	□ None / Self	
PayorHMO (400)	PayorNS (420	)
Surgeon Name:		Surgeon's National Provider ID:
Surgeon (430)		SurgNPI (450)
Taxpayer ID#:		Hospital Name:
TIN (460)		HospName (470)
Hospital Zip Code:	Hospital Stat	e: Hospital's National Provider ID:
HospZIP (490)	HospStat (500	) HospNPI (510)

3. Pre-Operative Risk Factors			
Height:(cm) Wei	ght:(kg)	Wt loss over past 3 mor	nths? (Enter "0" if none)(kg)
HeightCm (520) Weig	ghtKg (540)	WtLoss3Kg (560)	
□ Hypertension □ Stere		Heart Failure (CHF)	Coronary Artery Disease (CAD)
Hypertn (580) Steroid (			CAD (610)
Peripheral Vascular Disease (P <sup>1</sup> PVD (620)	VD)	othoracic Surgery	
□ Preoperative chemotherapy	If Yes: When $ ightarrow$	$\Box$ <=6 months	$\Box$ >6 months
PreopChemoCur (670) P	PreopChemoCurWhen (680)	)	
Preoperative Thoracic Radiation PreopXRT (690)	n Therapy If Yes: PreopXRTDisWhen (710)	□ Same disease,<=6 months	□ Same disease,>6 months
		□ Unrelated disease, < months	=6
Cerebrovascular History CerebroHx (720)	□ No CVD history	□ Any reversible event	Any irreversible event
Pulmonary Hypertension PulmHypertn (730)	□ Yes □ No □ Not a	pplicable/Not documented	
□ Diabetes <i>If Yes,</i> Type of control Diabetes (740)	□ None □ Diet DiabCtrl (750)	□ Oral or other non-insulir	n 🗆 Insulin
Creatinine level measured CreatMeasured (770)	If Yes $\rightarrow$ Last creatinine lev CreatLst (780)	vel	
□ On Dialysis Dialysis (790)			
Hemoglobin level measured HemoglobinMeasured (800)	If Yes → Last hemoglobin HemoglobinLst (810)	level	
□ COPD (Previous diagnosis, trea COPD (820)		ence)	
Interstitial Fibrosis			
InterstitialFib (830)			
Cigarette smoking: □ Never sn CigSmoking (900)	noked	(stopped >1 month prior to	Current smoker
	I	If past or current smoker $ ightarrow$ Pa	ack-Years PackYear (910)
Pulmonary Function Tests performed? □ Yes □ No If Yes: ↓ PFT (960)			
FEV1 test performed? FEV (1000)		Not Applicable /f Yes→ FEVPred	FEV1 % predicted:
DLCO test performed?	P □ Yes □ No □ I	Not Applicable If Yes→	DLCO % predicted:
Zubrod Score:       DLCO (1030)       DLCOPred (1040)         Zubrod (1050)       0 - Normal activity, no symptoms       1 - Symptoms, fully ambulatory         Zubrod (1050)       2 - Symptoms, in bed <=50% of time			

# 4. Procedures

Category of Disease: Check both Primary and Sec	condary category. Indicate (circle) the Primary category.	
CategoryPrim (1070) CategorySecond (1080)		
Trachea	Mediastinum	
Tracheomalacia-congenital 748.3	□ Mediastinitis 519.2	
□ Tracheomalacia-acquired 519.1	Mediastinal nodes, metastatic 196.1	
□ Tracheostenosis-congenital 748.3 □ Mediastinal nodes, benign 229.0		
Tracheostenosis-acquired (postintubation) 519.1	Anterior mediastinal tumor primary (germ cell cancer, seminoma) 164.2	
Tracheostomy-hemorrhage 519.09	Anterior mediastinal tumor-metastatic 197.1	
□ Tracheostomy related stenosis 519.02 □ Anterior mediastinal tumor-benign-(e.g. teratoma) 212.5		
□ Tracheal tumor, malignant 162.0	Anterior mediastinal tumor-thymus tumor (thymoma, thymic carcinoma) 164.0	
□ Tracheal tumor, benign 212.2 □ Lymphoma, intrathoracic 202.82		
Tracheal tumor, metastatic 197.3	Desterior mediastinal malignant tumor- primary 164.3	
	Posterior mediastinal tumor-metastatic 197.1	

#### Larynx

- Subglottic stenosis-congenital 748.3
- □ Subglottic stenosis-acquired (postintubation) 478.74
- Vocal cord paralysis 748.3

#### Lung

- □ Lung tumor, metastatic 197.0
- □ Lung tumor, benign 212.3
- □ Lung cancer, main bronchus, carina 162.2
- □ Lung cancer, upper lobe 162.3
- □ Lung cancer, middle lobe 162.4
- $\hfill\square$  Lung cancer, lower lobe 162.5
- □ Lung cancer, location unspecified 162.9
- □ Lung abscess 513.0
- □ Pneumothorax 512.8
- □ Bronchiectasis 494.0
- □ Empyema with fistula 510.0
- □ Empyema without fistula 510.9
- □ Emphysema 492.8
- □ Emphysematous bleb 492.0
- □ Interstitial lung disease/fibrosis 516.3
- Dependence Pneumonia 486
- Pulmonary insufficiency following surgery/trauma (ARDS) 518.5
- □ Hemothorax 511.8
- Lung nodule, benign (not a tumor, e.g., granuloma, subpleural lymph node, pulmonary infarct) 518.89

#### Esophagus

- □ Esophageal cancer-lower third 150.5
- □ Esophageal cancer, middle third 150.4
- □ Esophageal cancer, upper third 150.3
- □ Esophageal cancer, esophagogastric junction (cardia)
- 151.0 □ Esophageal tumor-benign (ie;leiomyoma) 211.0
- □ Esophageal stricture 530.3
- □ Barrett's esophagus 530.85
- □ Achalasia of esophagus 530.0
- □ Esophageal perforation 530.4
- □ Zenkers diverticulum 530.6
- □ Epiphrenic diverticulum 530.4
- □ Gastroesophageal reflux (GERD) 530.81
- □ Tracheoesophageal fistula 530.84
- □ Acquired pyloric stenosis 537.0
- Acquired absence of esophagus (i.e.; post esophagectomy) V45.79

#### Thyroid

- Goiter, nodular 241.9
- □ Thyroid neoplasm, malignant 193
- $\hfill\square$  Thyroid neoplasm, benign 226

- □ Posterior mediastinal tumor-benign (ie; neurogenic tumor) 212.5
- D Myasthenia gravis 358.0
- □ Mediastinal cyst, Bronchogenic 519.3
- □ Mediastinal cyst, Foregut duplication 519.3
- □ Mediastinal cyst, Pericardial 519.3
- □ Mediastinal cyst, Thymic 519.3

#### Pleura

- □ Pleural effusion (sterile) 511.9
- □ Pleural effusion, infected- (empyema) 511.1
- □ Pleural effusion, malignant 197.2
- □ Pleural tumor, malignant (e.g., mesothelioma) 163.9
- □ Pleural tumor, metastatic 197.2
- □ Pleural tumor, benign 212.4
- □ Pleural thickening 511.0

#### **Chest Wall**

- □ Pectus excavatum 754.81
- □ Pectus carinatum 754.82
- □ Sternal tumor, malignant 170.3
- □ Sternal tumor, metastatic 198.5
- □ Sternal tumor, benign 213.3
- □ Rib tumor, malignant-(e.g., osteosarcoma, chondrosarcoma) 170.3
- □ Rib tumor, metastatic 198.5
- □ Rib tumor, benign-(e.g., fibrous dysplasia) 213.3
- □ Thoracic outlet syndrome 353.0

#### Diaphragm

- Diaphragmatic paralysis 519.4
- Diaphragm tumor, malignant 171.4
- Diaphragm tumor, metastatic 198.89
- Diaphragm tumor, benign 215.4

#### Trauma

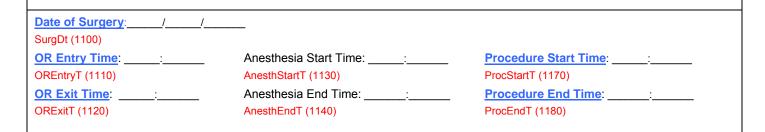
- Rib fracture 807.0
  Sternal fracture 807.2
  Flail chest 807.4
  Tracheal injury 807.5
  Traumatic pneumothorax 860.0
  Traumatic hemothorax 860.2
  Traumatic hemopneumothorax 860.4
  Lung contusion 861.21
- □ Lung laceration 861.22
- Diaphragm injury 862.0
- □ Esophageal injury 862.22
- □ Bronchus injury 862.21

#### Cardiovascular

- $\hfill\square$  Pericarditis with effusion 420.90
- Dericardial effusion, malignant 198.89
- □ SVC Syndrome 459.2

#### Miscellaneous

- □ Hyperhidrosis, focal (e.g., palmaror axillary hyperhidrosis) 705.21
- Lymphadenopathy 785.6
- □ Abnormal radiologic finding 793.1



Multi-Day Operation (operation continued through midnight) MultiDay (1190)	
Status of Operation:   Emergent  Urgent  Elective Status (1200)	
□ Reoperation (any prior cardiothoracic surgery that affects operative field) Reop (1210)	Assisted by Robotic Technology Robotic (1220)
	Red Blood Cell Units:
	BCNum (1250)
ASA Classification:	
ASA (1260)	
Check ALL of the procedures attempted. Indicate (circle) the Print Print (1270)	mary Procedure.
Chest Wall and Neck	Pleural Space and Lung
□ Muscle flap, neck (15732)	□ Thoracostomy; with rib resection for empyema (32035)
<ul> <li>Muscle flap; trunk (i.e.; intercostal, pectoralis or serratus muscle) (15734)</li> </ul>	□ Thoracostomy; with open flap drainage for empyema (32036)
<ul> <li>Excision of chest wall tumor including ribs (19260)</li> <li>Excision of chest wall tumor involving ribs, with Reconstruction (19271)</li> </ul>	<ul> <li>Thoracotomy, limited, for biopsy of lung or pleura (i.e.; open lung biopsy) (32095)</li> </ul>
□ Excision tumor, soft tissue of neck or thorax; subcutaneous (21555)	□ Thoracotomy, major; with exploration and biopsy (32100)
<ul> <li>Excision tumor, soft tissue of neck or thorax; deep, subfascial,</li> </ul>	Thoracotomy, major; with control of traumatic hemorrhage
intramuscular (21556)	and/or repair of lung tear (32110)
□ Radical resection of tumor (e.g., malignant neoplasm), soft tissue of	□ Thoracotomy, major; for postoperative complications (32120)
neck or thorax (21557)	Thoracotomy, major; with cyst(s) removal, with or without a plaural are adduce (20140).
Excision of rib, partial (21600) Excision first and/or convical rib (21615)	without a pleural procedure (32140)
<ul> <li>Excision first and/or cervical rib (21615)</li> <li>Excision first and/or cervical rib; with sympathectomy (21616)</li> </ul>	<ul> <li>Thoracotomy, major; with excision-plication of bullae, with or without any pleural procedure (32141)</li> </ul>
□ Radical resection of sternum (21630)	□ Thoracotomy, major; with removal of intrapleural foreign
□ Radical resection of sternum; with mediastinal	body or hematoma (32150)
Lymphadenectomy (21632)	□ Thoracotomy with cardiac massage (32160)
□ Hyoid myotomy and suspension (21685)	□ Pleural scarification for repeat pneumothorax (32215)
Division of scalenus anticus; without resection of cervical rib (21700)	Decortication, pulmonary- total (32220)
Division of scalenus anticus; with resection of cervical rib (21705)	Decortication, pulmonary, partial (32225)
□ Reconstructive repair of pectus excavatum or carinatum; open (21740)	Pleurectomy, parietal (32310)
Reconstructive repair of pectus, minimally invasive approach	Decortication and parietal pleurectomy (32320)
(Nuss procedure), without thoracoscopy (21742)	□ Biopsy, pleura; open (32402)
□ Reconstructive repair of pectus, minimally invasive approach	□ Removal of lung, total pneumonectomy (32440)
(Nuss procedure), with thoracoscopy (21743)	Removal of lung, sleeve (carinal) pneumonectomy (32442)     Removal of lung, total pneumonectomy outranloural (32445)
<ul> <li>Open treatment of sternum fracture with or without skeletal Fixation (21825)</li> </ul>	<ul> <li>Removal of lung, total pneumonectomy; extrapleural (32445)</li> <li>Removal of lung, single lobe (lobectomy) (32480)</li> </ul>
□ Unlisted procedure, neck or thorax (21899)	□ Removal of lung, two lobes (bilobectomy) (32480)
	□ Removal of lung, single segment (segmentectomy) (32484)
Trachea and Bronchi	□ Removal of lung, sleeve lobectomy (32486)
□ Tracheoplasty; cervical (31750)	□ Removal of lung, completion pneumonectomy) (32488)
□ Tracheoplasty; intrathoracic (31760)	Removal of lung, excision-plication of emphysematous
□ Carinal reconstruction (31766)	lung(s) for lung volume reduction (LVRS) (32491)
□ Bronchoplasty; excision stenosis and anastomosis (31775)	□ Removal of lung, wedge resection, single or multiple (32500)
□ Excision tracheal stenosis and anastomosis; cervical (31780)	□ Resection and repair of portion of bronchus (bronchoplasty)
<ul> <li>Excision tracheal stenosis and anastomosis; cervicothoracic (31781)</li> </ul>	when performed at time of lobectomy or Segmentectomy (32501)
<ul> <li>Excision of tracheal tumor or carcinoma; cervical (31785)</li> <li>Excision of tracheal tumor or carcinoma; thereaid (31786)</li> </ul>	Resection of apical lung tumor (e.g., Pancoast tumor), including sheat wall reception without sheat wall recepting (22502)
<ul> <li>Excision of tracheal tumor or carcinoma; thoracic (31786)</li> <li>Suture of tracheal wound or injury; cervical (31800)</li> </ul>	chest wall resection, without chest wall reconstruction (32503) <ul> <li>Resection of apical lung tumor (e.g., Pancoast tumor), including</li> </ul>
□ Suture of tracheal wound or injury; intrathoracic (31805)	chest wall resection, with chest wall reconstruction (32504)
<ul> <li>Unlisted procedure, trachea, bronchi (31899)</li> </ul>	□ Extrapleural enucleation of empyema (empyemectomy) (32540)
Thoracoscopy (VATS)	Bronchoscopy
<ul> <li>Thoracoscopy, diagnostic lungs and pleural space, without</li> </ul>	<ul> <li>Tracheobronchoscopy through established tracheostomy</li> </ul>
biopsy (32601)	Incision (31615)
<ul> <li>Thoracoscopy, diagnostic lungs and pleural space, with biopsy (32602)</li> <li>Thoracoscopy, diagnostic pericardial sac, without biopsy (32603)</li> </ul>	<ul> <li>Endobronchial ultrasound (EBUS) during bronchoscopic diagnostic or therapeutic intervention(s) (31620)</li> </ul>
□ Thoracoscopy, diagnostic pericardial sac, with biopsy (32003)	□ Bronchoscopy, diagnostic, with or without cell washing (31622)
□ Thoracoscopy, diagnostic periodidial sac, with biopsy (32605)	□ Bronchoscopy, with brushing or protected brushings (31623)
□ Thoracoscopy, diagnostic); mediastinal space, with biopsy (32606)	□ Bronchoscopy, with bronchial alveolar lavage (BAL) (31624)
□ Thoracoscopy, surgical; with pleurodesis (e.g., mechanical or	Bronchoscopy, with bronchial or endobronchial biopsy(s),
chemical) (32650)	single or multiple sites (31625)

chemical) (32650) Thoracoscopy, surgical; with partial pulmonary decortication (32651) single or multiple sites (31625) Bronchoscopy, with transbronchial lung biopsy(s), single

- □ Thoracoscopy, surgical; with total pulmonary decortication (32652)
- Thoracoscopy, surgical; with removal of intrapleural foreign body or fibrin deposit (32653)
- $\hfill\square$  Thoracoscopy, surgical; with control of traumatic hemorrhage (32654)
- Thoracoscopy, surgical; with excision-plication of bullae, including any pleural procedure (32655)
- $\hfill\square$  Thoracoscopy, surgical; with parietal pleurectomy (32656)
- □ Thoracoscopy, surgical; with wedge resection of lung, single or multiple (32657)
- □ Thoracoscopy, surgical; with removal of clot or foreign body from pericardial sac (32658)
- $\hfill\square$  Thoracoscopy, surgical; with creation of pericardial window or partial resection of pericardial sac for drainage (32659)
- $\hfill\square$  Thoracoscopy, surgical; with total pericardiectomy (32660)
- □ Thoracoscopy, surgical; with excision of pericardial cyst, tumor, or mass (32661)
- □ Thoracoscopy, surgical; with excision of mediastinal cyst, tumor, or mass (32662)
- $\hfill\square$  Thoracoscopy, surgical; with lobectomy, total or segmental (32663)
- $\hfill\square$  Thoracoscopy, surgical; with thoracic sympathectomy (32664)
- □ Thoracoscopy, surgical; with esophagomyotomy (Heller type) (32665)

### Lung Other

- □ 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)
- □ Open closure of major bronchial fistula (32815)
- □ Major reconstruction, chest wall (posttraumatic) (32820)
- $\hfill\square$  Thoracoplasty with closure of bronchopleural fistula (32906)
- □ Total lung lavage (for alveolar protenosis) (32997)
- □ Radio-frequency ablation (RFA) lung tumor (32998)
- □ Single lung transplant (32851)
- □ Single lung transplant with CPB (32852)
- □ Double lung transplant (32853)
- $\hfill\square$  Double lung transplant with CPB (32854)
- □ Unlisted procedure, lung (32999)

## Thymus

- □ Thymectomy, transcervical approach (60520)
- □ Thymectomy, transthoracic approach (60521)
- □ Thymectomy, transthoracic approach, with radical mediastinal dissection (60522)
- □ VATS thymectomy (605XX)

## Esophagus

- □ Transhiatal-Total esophagectomy, without thoracotomy, with cervical esophagogastrostomy (43107)
- □ Three hole-Total esophagectomy with thoracotomy; with cervical esophagogastrostomy (43112)
- Ivor Lewis-Partial esophagectomy, distal two-thirds, with thoracotomy and separate abdominal incision (43117)
- □ Thoracoabdominal-Partial esophagectomy, thoracoabdominal approach (43122)
- □ Minimally invasive esophagectomy, Ivor Lewis approach (43XXX)
- Minimally invasive esophagectomy, Abdominal and neck approach (43XXX)
- Total esophagectomy without thoracotomy; with colon interposition or small intestine reconstruction (43108)
- Total esophagectomy with thoracotomy; with colon interposition or small intestine reconstruction (43113)
- Partial esophagectomy, cervical, with free intestinal graft, including microvascular anastomosis (43116)
- Partial esophagectomy, with thoracotomy and separate abdominal incision with colon interposition or small intestine (43118)
   Partial components in the second s
- □ Partial esophagectomy, distal two-thirds, with thoracotomy only (43121)

### Lobe (31628)

- Bronchoscopy, with transbronchial needle aspiration biopsy(s) (31629)
- $\hfill\square$  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)
- $\hfill\square$  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)
- $\hfill\square$  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)
- $\hfill\square$  Bronchoscopy, with placement of catheter(s) for intracavitary

radioelement application (31643)

- □ Bronchoscopy,with therapeutic aspiration of tracheobronchial tree, initial (e.g., V2\_0\_17, drainage of lung abscess) (31645)
- □ Bronchoscopy, with therapeutic aspiration of tracheobronchial tree, subsequent (31646)

## Mediastinum and Diaphragm

- □ Thoracic lymphadenectomy, regional, including mediastinal and peritracheal nodes (38746)
- Mediastinotomy with exploration or biopsy; cervical approach (39000)
- □ Mediastinotomy with exploration or biopsy; transthoracic approach (39010)
- □ Excision of mediastinal cyst (39200)
- Excision of mediastinal tumor (39220)
- $\hfill\square$  Mediastinoscopy, with or without biopsy (39400)
- $\square$  Unlisted procedure, mediastinum (39499)
- $\hfill\square$  Repair, laceration of diaphragm, any approach (39501)
- □ Repair of paraesophageal hiatus hernia, transabdominal with or without fundoplasty (39502)
- □ Repair, diaphragmatic hernia (other than neonatal), traumatic; acute (39540)
- Repair, diaphragmatic hernia (other than neonatal), traumatic; chronic (39541)
- □ Imbrication (i.e.; plication) of diaphragm (39545)
- Resection, diaphragm; with simple repair (e.g., primary suture) (39560)
- Resection, diaphragm; with complex repair (e.g., prosthetic material, local muscle flap) (39561)
- □ Unlisted procedure, diaphragm (39599)

## Esophagus – other procedures

- Cricopharyngeal myotomy (43030)
- Diverticulectomy of hypopharynx or esophagus, with or without myotomy; cervical approach (43130)
- Diverticulectomy of hypopharynx or esophagus, with or without myotomy; thoracic approach (43135)
- □ Laparoscopy, surgical, esophagogastric fundoplasty (e.g., Nissen, Toupet procedures) (43280)
- □ Laparoscopic esophageal myotomy (432XX)
- Esophagogastric fundoplasty (e.g., Nissen, Belsey IV, Hill procedures) (43324)
- Esophagogastric fundoplasty; with gastroplasty (e.g., Collis) (43326)
- Esophagomyotomy (Heller type); thoracic approach (43331)

Partial esophagectomy, thoracoabdominal with colon	Esophagostomy, fistulization of esophagus, external;
interposition or small intestine (43123)	cervical approach (43352)
Total or partial esophagectomy, without reconstruction with	Gastrointestinal reconstruction for previous esophagectomy
cervical esophagostomy (43124)	with stomach (43360)
	Gastrointestinal reconstruction for previous esophagectomy
Esophagoscopy	with colon interposition or small intestine (43361)
□ Esophagoscopy (43200)	Ligation or stapling at gastroesophageal junction for pre-existing
□ Esophagoscopy with biopsy (43202)	esophageal perforation (43405)
□ Esophagoscopy with removal of foreign body (43215)	□ Suture of esophageal wound or injury; cervical approach (43410)
□ Esophagoscopy with insertion of stent (43219)	Suture of esophageal wound or injury; transthoracic or
□ Esophagoscopy with balloon dilation (43220)	transabdominal approach (43415)
Esophagoscopy with insertion of guide wire followed by dilation	□ Closure of esophagostomy or fistula; cervical approach (43420)
over guide wire (43226)	□ Free jejunum transfer with microvascular anastomosis (43496)
□ Esophagoscopy with ablation of tumor (43228)	□ Total gastrectomy with esophagoenterostomy (43620)
Esophagoscopy with endoscopic ultrasound examination (EUS)	□ Total gastrectomy with Roux-en-Y reconstruction (43621)
(43231)	
Esophagoscopy with transendoscopic ultrasound-guided fine	Unlisted procedure, esophagus (43499)
needle aspiration (43232)	
Upper gastrointestinal endoscopy, diagnostic (43235)	Miscellaneous
Upper gastrointestinal endoscopy with endoscopic ultrasound	Partial laryngectomy (31370)
examination limited to the esophagus (43237)	□ Ligation thoracic duct (38381)
Upper gastrointestinal endoscopy with transendoscopic	Intraoperative jejunostomy (44015)
ultrasound-guided FNA (43238)	□ Omental flap (49904)
Upper gastrointestinal endoscopy with biopsy (43239)	Transthoracic thyroidectomy (60270)
Upper gastrointestinal endoscopy with dilation of gastric outlet	Removal substernal thyroid, cervical approach (60271)
for obstruction (43245)	Tube pericardiostomy (33015)
Upper gastrointestinal endoscopy with directed placement of	Pericardial window (33025)
percutaneous gastrostomy tube (43246)	SVC resection and reconstruction (34502)
□ Upper gastrointestinal endoscopy with removal of foreign body (43247)	□ Other (XXXX)
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	
<ul> <li>Upper gastrointestinal endoscopy with transendoscopic stent placement (43256)</li> </ul>	
placement (43256) <ul> <li>Upper gastrointestinal endoscopy with ablation of tumor (43258)</li> </ul>	
placement (43256)	
placement (43256) <ul> <li>Upper gastrointestinal endoscopy with ablation of tumor (43258)</li> </ul>	able
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)	able
placement (43256) □ Upper gastrointestinal endoscopy with ablation of tumor (43258) Lung Resection Performed □ Yes □ No LungResect (1400) <i>If Yes</i> → Laterality: □ Right □ Left □ Bilateral □ Not Applica Laterality (1410)	
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter	rmediate Care Unit
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter	
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter	rmediate Care Unit r Bed □ Not Applicable (Expired in OR)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14)	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14)	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, upper lobe-162.3,	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14)         Lung cancer documented AND resection performed LungCancer (14)         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, middle lobe-162.4	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, noidel lobe-162.4         180 = Lung cancer, lower lobe-162.5	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14)         Lung cancer documented AND resection performed LungCancer (14)         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, middle lobe-162.4	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256) □ Upper gastrointestinal endoscopy with ablation of tumor (43258) Lung Resection Performed □ Yes □ No LungResect (1400) If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica Laterality (1410) If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter PatDisp (1420) □ Regular Floor If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14: Lung cancer documented AND resection performed LungCancer (14: Indicate whether the patient has lung cancer documented with one of the follow 150 = Lung cancer, main bronchus, carina-162.2 160 = Lung cancer, middle lobe-162.3, 170 = Lung cancer, lower lobe-162.5	rmediate Care Unit r Bed D Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, middle lobe-162.3,         170 = Lung cancer, lower lobe-162.5         190 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, indel lobe-162.4         180 = Lung cancer, lower lobe-162.5         190 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, nower lobe-162.4         180 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, total pneumonectomy; (32440)	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)       □ Regular Floor         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, lower lobe-162.4         180 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, total pneumonectomy; (32440)         2500 = Removal of lung, single lobe (lobectomy) (32480)	rmediate Care Unit r Bed □ Not Applicable (Expired in OR) 30) 490)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)       □ Regular Floor         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, lower lobe-162.4         180 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, total pneumonectomy; (32440)         2500 = Removal of lung, single lobe (lobectomy) (32480)         2510 = Removal of lung, two lobes (bilobectomy) (32482)	rmediate Care Unit r Bed Dot Applicable (Expired in OR) 30) 490) wing Categories of Disease:
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)       □ Regular Floor         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, lower lobe-162.4         180 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, total pneumonectomy; (32440)         2500 = Removal of lung, single lobe (lobectomy) (32480)	rmediate Care Unit r Bed Dot Applicable (Expired in OR) 30) 490) wing Categories of Disease:
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, middle lobe-162.3,         170 = Lung cancer, niddle lobe-162.4         180 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, total pneumonectomy; (32440)         2500 = Removal of lung, single lobe (lobectomy) (32482)         2510 = Removal of lung, single segment (segmentectomy) (32442)         2520 = Removal of lung, single segment (segmentectomy) (32442)         2530 = Removal of lung, single segment (segmentectomy) (3248)         2540 = Removal of lung, completion pneumonectomy (32488)	rmediate Care Unit r Bed I Not Applicable (Expired in OR) 30) 490) wing Categories of Disease: 84)
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, middle lobe-162.3,         1770 = Lung cancer, nower lobe-162.5         190 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, single lobe (lobectomy) (32480)         2510 = Removal of lung, single lobe (lobectomy) (32480)         2510 = Removal of lung, single segment (segmentectomy) (32482)         2520 = Removal of lung, single segment (segmentectomy) (3248)         2540 = Removal of lung, completion pneumonectomy (32486)         2540 = Removal of lung, completion pneumonectomy (32488)         2560 = Removal of lung, wedge resection, single or multiple (32	<pre>rmediate Care Unit r Bed</pre>
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)       □ Regular Floor         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, noper lobe-162.3,         170 = Lung cancer, noper lobe-162.4         180 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, single lobe (lobectomy) (32480)         2510 = Removal of lung, single lobe (lobectomy) (32480)         2510 = Removal of lung, single segment (segmentectomy) (32482)         2520 = Removal of lung, single segment (segmentectomy) (32488)         2540 = Removal of lung, completion pneumonectomy (32488)         2540 = Removal of lung, wedge resection, single or multiple (32         2580 = Resection of apical lung tumor (e.g., Pancoast tumor), in	<pre>rmediate Care Unit r Bed</pre>
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)       □ Regular Floor         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, mid le lobe-162.3,         170 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, total pneumonectomy; (32440)         2500 = Removal of lung, single lobe (lobectomy) (32482)         2520 = Removal of lung, single segment (segmentectomy) (32482)         2520 = Removal of lung, single segment (segmentectomy) (32482)         2530 = Removal of lung, wedge resection, single or multiple (32         2540 = Removal of lung, wedge resection, single or multiple (32         2580 = Resection of apical lung tumor (e.g., Pancoast tumor), in         without chest wall reconstruction(s)	<ul> <li>rmediate Care Unit</li> <li>r Bed D Not Applicable (Expired in OR)</li> <li>30)</li> <li>490)</li> <li>wing Categories of Disease:</li> </ul> 84) 84) 500) bound on the section,
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)       □ Regular Floor         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (1:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, midble lobe-162.3,         170 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, total pneumonectomy; (32440)         2500 = Removal of lung, single lobe (lobectomy) (32482)         2520 = Removal of lung, single segment (segmentectomy) (32482)         2520 = Removal of lung, single segment (segmentectomy) (32488)         2560 = Removal of lung, wedge resection, single or multiple (32         2580 = Resection of apical lung tumor (e.g., Pancoast tumor), in without chest wall reconstruction(s) (32503)         2590 = Resection of apical lung tumor (e.g., Pancoast tumor), in	<ul> <li>rmediate Care Unit</li> <li>r Bed D Not Applicable (Expired in OR)</li> <li>30)</li> <li>490)</li> <li>wing Categories of Disease:</li> <li>84)</li> <li>500)</li> <li>cluding chest wall resection,</li> <li>with chest wall reconstruction (32504)</li> </ul>
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)       □ Regular Floor         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, main bronchus, carina-162.2         160 = Lung cancer, mid le lobe-162.3,         170 = Lung cancer, lower lobe-162.5         190 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, total pneumonectomy; (32440)         2500 = Removal of lung, single lobe (lobectomy) (32482)         2520 = Removal of lung, single segment (segmentectomy) (32482)         2520 = Removal of lung, single segment (segmentectomy) (32482)         2530 = Removal of lung, wedge resection, single or multiple (32         2540 = Removal of lung, wedge resection, single or multiple (32         2580 = Resection of apical lung tumor (e.g., Pancoast tumor), in         without chest wall reconstruction(s)	<ul> <li>rmediate Care Unit</li> <li>r Bed D Not Applicable (Expired in OR)</li> <li>30)</li> <li>490)</li> <li>wing Categories of Disease:</li> <li>84)</li> <li>500)</li> <li>icluding chest wall resection,</li> <li>including chest wall resection, with chest wall reconstruction (32504)</li> <li>ingle or multiple (32657)</li> </ul>
placement (43256)         □ Upper gastrointestinal endoscopy with ablation of tumor (43258)         Lung Resection Performed □ Yes □ No LungResect (1400)         If Yes → Laterality: □ Right □ Left □ Bilateral □ Not Applica         Laterality (1410)         If Admission Status=Inpatient → Patient Disposition: □ ICU □ Inter         PatDisp (1420)       □ Regular Floor         If Admission Status=Inpatient → Total #Days in ICU: ICUDays (14:         Lung cancer documented AND resection performed LungCancer (14:         Indicate whether the patient has lung cancer documented with one of the follow         150 = Lung cancer, upper lobe-162.3,         170 = Lung cancer, nindle lobe-162.4         180 = Lung cancer, location unspecified-162.9         AND,         was treated with one of the following Procedures:         2470 = Removal of lung, single lobe (lobectomy) (32480)         2510 = Removal of lung, single segment (segmentcomy) (32482)         2520 = Removal of lung, single segment (segment corr) (32488)         2530 = Removal of lung, completion pneumonectomy (32488)         2540 = Removal of lung, wedge resection, single or multiple (32         2580 = Resection of apical lung tumor (e.g., Pancoast tumor), in         without chest wall reconstruction(s) (32503)         2590 = Resection of apical lung tumor (e.g., Pancoast tumor), in         without chest wall reconstruction(s)	<ul> <li>rmediate Care Unit</li> <li>r Bed D Not Applicable (Expired in OR)</li> <li>30)</li> <li>490)</li> <li>wing Categories of Disease:</li> </ul> 84) 84) 500) coulding chest wall resection, including chest wall resection, with chest wall reconstruction (32504) ngle or multiple (32657) tal (32663).

Econhagoal cancer decumen	ted AND respection performed Faceboo	20000 (1500)	
Esophageal cancer documented AND resection performed EsophCancer (1500) Indicate whether the patient has esophageal cancer documented with one of the following Categories of Disease:			
indicate whether the patient has es	ophageal cancel documented with one of the	Tonowing Categories of Disease.	
	680 = Esophageal cancer-lower third-150.5		
	ancer, middle third-150.4 ancer, upper third-150.3		
	ancer, esophagogastric junction (cardia)-151.	0	
AND was treated wit	AND was treated with one of the following Procedures:		
	-		
	otal esophagectomy, without thoracotomy, w		
3340 = Ivor Lewis-Pa	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)		
	ominal-Partial esophagectomy, thoracoabdom		
	asive esophagectomy, Ivor Lewis approach ( asive esophagectomy, Abdominal and neck a		
		erposition or small intestine reconstruction (43108)	
		sition or small intestine reconstruction (43113)	
		ncluding microvascular anastomosis (43116) dominal incision with colon interposition or small intestine (43118)	
3420 = Partial esoph	agectomy, distal two-thirds, with thoracotomy	r only (43121)	
3430 = Partial esoph	agectomy, thoracoabdominal with colon inter	position or small intestine (43123)	
□ Yes □ No (If Yes, indicate clinical and pathological staging for esophageal cancer)			
Clinical Staging			
If lung cancer documented <u>and</u> resec	tion performed: $\downarrow$ (Stage both non-small c	ell and small cell lung cancer the same.)	
Lung Cancer			
<ul> <li>T1a (Tumor &lt;=2 cm, surrounded by lung, not in the main bronchus) ClinStageLungT (1510)</li> <li>T1b (Tumor &gt;2 cm, &lt;=3 cm, surrounded by lung, not in the main bronchus)</li> </ul>			
		s >2 cm from carina, associated with atelectasis	
that extends to the hilum but not	•		
□ <b>T2b</b> (Tumor >5 cm, <=7 cm, or in	vades visceral pleura, involves main bronchu	s >2 cm from carina, associated with atelectasis	
that extends to the hilum but not	0,		
		tinal pleura, pericardium; or tumor in the main	
	r atelectasis of the entire lung, or separate tur	nor nodules in the same lobe) int laryngeal nerve, esophagus, vertebral body,	
carina; separate tumor nodule in		ni laiyngearnerve, esopriagus, venebrarbouy,	
□ N0 (No nodal metastases) ClinSt	. ,		
<ul> <li>N1 (Nodal metastases to ipsilateral hilar or peribronchial nodes)</li> <li>N2 (Nodal metastases to ipsilateral mediastinal and/or subcarinal nodes)</li> </ul>			
N3 (Nodal metastases to contralateral mediastinal, contralateral hilar, and either ipsilateral or contralateral scalene or supraclavicular nodes)			
□ M0 (No distant metastases) ClinStageLungM (1530)			
M1a (Separate tumor nodule in a contralateral lobe, tumor with pleural nodeules or malignant pleural or pericardial effusion)			
Image M1b (Distant metastases)			
If esophageal cancer documented <u>an</u>	d resection performed:		
Esophageal Cancer			
Primary Tumor ClinStageEsophT (1540) Regional Lymph Nodes ClinStageEsophN (1550)			
□ T0 (No evidence of tumor) □ N0 (No nodal metastases)			
□ <b>Tis</b> (High grade dysplasia – HGI		□ N1a (Nodal metastases to 1 or 2 nodes)	
<ul> <li>T1a (Tumor invades lamina propria or muscularis mucoasae)</li> <li>T1b (Tumor invades submuscas)</li> </ul>		■ <b>N1b</b> (Nodal metastases to 3 to 5 nodes)	
□ T1b (Tumor invades submucosa) □ N2 (Nodal metastases to 6 to 9 nodes) □ T2 (Tumor invades muscularis propria) □ N3 (Nodal metastases to 10 or more nodes)			
$\Box$ <b>T</b> 3 (Tumor invades adventita)			
□ <b>T4a</b> (Tumor invades adjacent structures – pleura, pericardium, diaphragm) <b>Histologic Grade</b> ClinStageEsophG (1580)			
□ T4b (Tumor invades other adjacent structures) □ GX (Grade cannot be accessed)			
		□ G1 (Well differentiated)	
Distant Metastasis ClinStageEsophM (1560)	Histopathologic Type ClinStageEsophH (1570)	<ul> <li>G2 (Moderately differentiated)</li> <li>G3 (Poorly differentiated)</li> </ul>	
□ <b>M0</b> (No distant metastases)	□ H1 (Squamous carcinoma)	□ GS (Poolly differentiated)	
□ M1 (Distant metatases)	□ <b>H2</b> (Adenocarcinoma)	· · · · · · · · · · · · · · · · · · ·	

### 5. Postoperative Events

Indicate all adverse events that occurred within 1 month of surgery if discharged from the hospital <u>or</u> those that occur during the same admission, regardless of the length of stay.

If Patient Disposition = "ICU", "Intermediate Care Unit" or "Regular floor bed"  $\rightarrow$  Unexpected Return to the OR  $\Box$  Yes  $\Box$  No ReturnOR (1590) If Yes  $\rightarrow$  Bleeding req re-operation  $\Box$  Yes  $\Box$  No BleedOperate (1600) **Postoperative Events?** □ Yes □ No If Yes, select all that occurred: ↓ POEvents (1610) Pulmonary Infection Neurology □ Urinary tract infection □ New central neurological event (TIA, CVA, etc.) □ Air leak > 5 days duration AirLeak5 (1620) UTI (1880) CentNeuroEvt (1930) □ Atelectasis reg bronchoscopy □ Empyema req Rx □ Recurrent laryngeal nerve paresis or paralysis Atelectasis (1630) Empyema (1890) RecLarynParesis (1940) Pneumonia Wound infection Delirium Delirium (1950) Pneumonia (1640) WoundInfect (1900) Adult Respiratory Distress Syndrome (ARDS) Sepsis □ Other neurological event ARDS (1650) Sepsis (1910) OtherNeuro (1960) □ Another infection req IV antibiotics □ Bronchopleural fistula OtherInfect (1920) Bronchopleural (1660) Pulmonary embolus PE (1670) Pneumothorax Hematology Miscellaneous Pneumo (1680) New renal failure req Rx or worsening □ Initial ventilator support > 48 hours □ Packed red blood cells Vent (1690) PostopPRBC (1850) (Cr >=2x preop) Reintubation If Yes→ # Units NewRenalFail (1970) PostopPRBCUnits (1860) Reintube (1700) □ Tracheostomy Chylothorax req medical intervention Trach (1710) (i.e.; chest tube, TPN) Other Pulmonary event Gastrointestinal ChyloMed (1980) OtherPul (1720) □ Gastric outlet obstruction Chylothorax req surgical intervention GastricOutlet (1780) (i.e.; reoperation and ligation of thoracic duct) Cardiovascular □ Ileus ChyloSurg (1990) lleus (1790) □ Atrial arrhythmia reg Rx □ Anastomotis leak reg medical Rx only □ Other events reg OR with general anesthesia AtrialArryth (1730) (i.e.: interventional radiation drainage, OtherSurg (2010) Ventricular arrhythmia req Rx NPO, antibiotics) VentArryth (1740) AnastoMed (1800) Myocardial infarct □ Anastomotis leak reg surgical If Admission Status = Inpatient MI (1750) intervention (i.e.; reoperation) Deep venous thrombosis (DVT) req Rx AnastoSurg (1810) Unexpected Admission to ICU UnexpectAdmitICU (2020) DVT (1760) Dilation esophagus prior to discharge □ Other CV event

DilationEsoph (1820)

□ Other GI event OtherGI (1830)

6. Discharge
If Admission Status = Inpatient→ Date of Discharge://
DischDt (2030)
Discharge Status: □ Alive □ Dead MtDCStat (2040)
If Alive → Discharge location: □ Home □ Extended Care / Transitional Care Unit / Rehab DisLoctn (2050)
Other Hospital      Nursing Home      Hospice      Other
Readmitted within 30 days of procedure □ Yes □ No Readm30 (2060)
<i>If Admission Status = Inpatient</i> → <u>Status at 30 days after surgery</u> : □ Alive □ Dead □ Unknown
Mt30Stat (2070)
Date of Death://
MtDate (2080)
Chest tube used?   Yes  No
CTubeUse (2090)
If Chest Tube Use = Yes $\rightarrow$ Discharged with chest tube $\Box$ Yes $\Box$ No If No $\rightarrow$ Date chest tube was removed:
CTubeDis (2100) CTubeOutDate (2110)
Pathological Staging
If lung cancer documented <u>and</u> resection performed: ↓ Lung Cancer □ T1a (Tumor <=2 cm, surrounded by lung, not in the main bronchus) PathStageLungT (2170)

□ T1b (Tumor >2 cm, <=3 cm, surrounded by lung, not in the main bronchus)

OtherCV (1770)

□ T2a (Tumor >3 cm, <=5 cm, or invades visceral pleura, involves main bronchus >2 cm from carina, associated with atelectasis

that extends to the hilum but not the entire lung)			
□ T2b (Tumor >5 cm, <=7 cm, or invades visceral pleura, involves main bronchus >2 cm from carina, associated with atelectasis			
that extends to the hilum but not the entire lung)			
□ <b>T3</b> (Tumor >7 cm or invasion of chest wall, diaphragm, phr			
bronchus <=2 cm from carina, or atelectasis of the entire lu			
<ul> <li>T4 (Tumor of any size that invades mediastinum, heart, gre carina; separate tumor nodule in a different ipsilateral lobe)</li> </ul>		rrent laryngeal nerve, esophagus, vertebral body,	
□ N0 (No nodal metastases) PathStageLungN (2180)			
□ N1 (Nodal metastases to ipsilateral hilar or peribronchial nodes)			
N2 (Nodal metastases to ipsilateral mediastinal and/or subcomposition of the state of the sta	carinal nodes)		
N3 (Nodal metastases to contralateral mediastinal, contrala	ateral hilar, and e	ither ipsilateral or contralateral scalene or supraclavicular nodes)	
□ M0 (No distant metastases) PathStageLungM (2190)			
■ M1a (Separate tumor nodule in a contralateral lobe, tumor v	with pleural node	ules or malignant pleural or pericardial effusion)	
□ M1b (Distant metastases)			
If esophageal cancer documented <u>and</u> resection performed: Ecophageal Cancer and of the Cardia and Castroogenbage	ool lunction		
Esophageal Cancer and of the Cardia and Gastroesphage Primary Tumor	eal Junction	Pagianal Lymph Nadaa	
□ <b>T0</b> (No evidence of tumor)PathStageEsophT (2200)		Regional Lymph Nodes □ N0 (No nodal metastases) PathStageEsophN (2210)	
□ <b>Tis</b> (High grade dysplasia – HGD)		□ <b>N1a</b> (Nodal metastases to 1 or 2 nodes)	
<ul> <li>T1a (Tumor invades lamina propria or muscularis mucoasa</li> </ul>	e)	□ <b>N1b</b> (Nodal metastases to 3 to 5 nodes)	
<ul> <li>T1b (Tumor invades submucosa)</li> </ul>		$\square$ N2 (Nodal metastases to 6 to 9 nodes)	
<b>T2</b> (Tumor invades muscularis propria)	$\square$ N3 (Nodal metastases to 10 or more nodes)		
□ 12 (Tumor invades adventita)			
T4a (Tumor invades adjacent structures – pleura, pericardia	um, diaphragm)	Histologic Grade	
T4b (Tumor invades other adjacent structures)		GX (Grade cannot be accessed) PathStageEsophG (2240)	
		G1 (Well differentiated)	
Distant Metastasis Histopathologic Type		G2 (Moderately differentiated)	
PathStageEsophM (2220) PathStageEsophH (2230			
■ M0 (No distant metastases) ■ H1 (Squamous carcino		□ G3 (Poorly differentiated)	
□ M1 (Distant metatases) □ H2 (Adenocarcinoma)		□ G4 (Undifferentiated)	
7. Quality Measures			
If Admission Status = Inpatient ↓			
IV antibiotics ordered within 1 hour	🗆 Yes 🗆 No	If Yes $\rightarrow$ IV antibiotics given within 1 hour IVAntibioGiven (2260)	
IVAntibioOrdered (2250)		□ Yes □ No □ Not indicated for procedure	
		□ Not indicated for procedure	
		•	
CephalAntiOrdered (2270)		d due to documented allergy; another appropriate antibiotic given	
Prophylactic Antibiotic Discontinuation Ordered AntibioticDiscOrdered (2280)	□ Yes □ No	□ No, due to documented infection	
DVT Prophylaxis Measures			
DVTProphylaxis (2290)			
If Cigarette Smoking = Current Smoker ↓			
Smoking Cessation Counseling			
SmokCoun (2300)			