

The Society of Thoracic Surgeons General Thoracic Surgery Database Analyzed Procedure Data Collection Form

Version 2.41

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Revised 1/24/2018

- An Analyzed Procedure Data Collection Form (DCF) is **required for all suspected or diagnosed Lung and Esophageal Cancer Resections** and one should be initiated every time the patient enters the operating room. These cases are risk adjusted and are included in the Data Analysis Reports.
- Fields that appear <u>underlined and in blue</u> are required for <u>analyzed procedure</u> record inclusion. If any of these fields are missing data, the entire record will be excluded from analysis.
- Completion of the Thymus/Mediastinal Mass, Tracheal Resection and Hiatal Hernia/GERD sections is optional for analyzed procedures.
- Procedures highlighted below, if performed as isolated procedures or with only other highlighted procedures, are not
 collected unless the Surgeon Participant chooses to track them. If collected, use the Non-analyzed Procedure DCF.
- Highlighted procedures done in conjunction with major procedures should be included on this Analyzed Procedure DCF.

A. Demographics				
Patient ID:PatID (80)	Medical Record #: MedRecN (90)			
First Name: Middle Name: PatFName (100) PatMName(110)	Last Name:			
Patient participating in STS-related clinical trial: ClinTrial (140) □ None □ Trial 1 □ Trial 2 □ Trial 3 □ Trial 4 □ Trial (If not "None" →) Clinical trial patient ID: Clin				
Date of Birth: / Age: DOB (160) (mm/dd/yyyy) Age (170)	Patient Postal Code: Gender: ☐ Male ☐ Female PostalCode (180) Gender (190)			
Is the Patient's Race Documented? ☐ Yes ☐ No ☐ Patient Decline	• • •			
Kara: It you coloct all that anniv	Yes □ No Black/African American □ Yes □ No			
RaceCaucasian (210)	RaceBlack (220) I Yes □ No American Indian/Alaskan Native □ Yes □ No RaceNativeAm (240)			
Native Hawaiian/Pacific Islander RacNativePacific (250)				
Hispanic or Latino Ethnicity: ☐ Yes ☐ No ☐ Not Documented	d Ethnicity (270)			
B. Admission				
Admission Status: ☐ Inpatient ☐ Outpatient / Observation AdmissionStat (280)	If Inpatient → Admission Date:// AdmitDt (290)			
Payor: Indicate the Primary payor: PayorPrim (300)	If Primary Payor is not None/Self→ Indicate the Secondary (supplemental) payor: PayorSecond (320)			
☐ None/self	□ None/self			
☐ Medicare	□ Medicare			
If Medicare → Fee For Service: ☐ Yes ☐ No PrimMCareFFS	If Medicare → Fee For Service: ☐ Yes ☐ No			
(310) ☐ Medicaid	SecondMCareFFS (330) ☐ Medicaid			
☐ Military Health	☐ Military Health			
☐ Indian Health Service	☐ Indian Health Service			
☐ Correctional Facility	☐ Correctional Facility			
☐ State Specific Plan	☐ State Specific Plan			
☐ Other Government Insurance	☐ Other Government Insurance			
☐ Commercial Health Insurance	☐ Commercial Health Insurance			
☐ Health Maintenance Organization☐ Non U.S. Plan	☐ Health Maintenance Organization☐ Non U.S. Plan			
Surgeon Name:	Surgeon's National Provider ID:			
Surgeon (340)	SurgNPI (350)			

Taxpayer ID#: TIN (360)	Hospital Name: HospName (370)
Hospital Postal Code: Hospital Region:_	Hospital's National Provider ID:
HospZIP (380) HospStat (390) C. Pre-Operative Evaluation	HospNPI (400)
<u> </u>	/eight:(kg) WeightKg (420)
Unintentional Wt loss over past 3 months? (Enter "0" if none) -	(kg) WtLoss3Kg (430)
CardioPulmonary History	
Hypertension Hypertn (440) ☐ Yes ☐ No CHF	gestive Heart Failure(CHF) \square Yes \square No $\qquad \qquad \qquad$
Coronary Artery Disease (CAD) ☐ Yes ☐ No Myoo	cardial Infarction
Afib per EKG within the last year; with or without treatment AFIB ☐ Yes ☐ No Disease VHD (500)	☐ Yes ☐ No VHDLocAV (510) VHDLocPV (530)
Pulmonary Hypertension: ☐ Yes ☐ No ☐ Unknown ☐ Unknown	
Interstitial Fibrosis/ Interstitial Lung Disease InterstitialFib (560)	□ Yes □ No
Vascular History	
Major Vascular Disease MVD (580) □ Yes □ No	
DVT/PE DVTPE (590) □ Yes □ No	
Cerebral Vascular Disease History	
Cerebrovascular History: CerebroHx (610) □ Cerebrovascular Accident (CVA) □ CVD history □ Known diseases the content of t	•
Neuromuscular Disease	PNI (620)
Neurologic symptoms present	
NeuroSymptPres (630) Myasthenia Gravis	
MyasGravis (640)	
Diabetes ☐ Yes ☐ No. If Yes → Type of thera	apy: □ None □ Diet Only □Oral □ Insulin
Diabetes (650) DiabCtrl (660)	☐ Other Subcutaneous Medication ☐ Other ☐Unknown
Liver Dysfunction LiverDys (670) ☐ Yes ☐ No	
On Dialysis Dialysis (680) ☐ Yes ☐ No	
Cancer History	
Coexisting Cancer CoexisCancer (690) □ Yes □ No	
Preoperative Chemotherapy / Immunotherapy □ Yes □ No If Yes → PreopChemoCur (700)	 □ Same disease, ≤ 6 months □ Same disease, > 6 months □ Unrelated disease, ≤ 6 months □ Unrelated disease, > 6 months
Preop Thoracic Radiation Therapy PreopXRT (720) □ Yes □ No If Yes →	□ Same disease, ≤ 6 months PreopXRTDisWhen (730) □ Same disease, > 6 months □ Unrelated disease, ≤ 6 months □ Unrelated disease, > 6 months If Same disease, ≤ 6 months → Completion Date PreopXRTCompDt (740)
Prior Surgical History (check all that apply)	
Prior Cardiothoracic Surgery ☐ Yes ☐ No If Yes → Sterno	otomy ☐ Yes ☐ No PriorStern (760)

		Pulmonary resection ☐ Yes ☐ No PriorPulmRes (790) If Yes → ☐ Right ☐ Left ☐ Bilateral PriorPulmResLoc (800)	
		Thoracotomy ☐ Yes ☐ No PriorThora (810) If Yes → ☐ Right ☐ Left ☐ Bilateral PriorThoraLoc (820)	
PreOp Medic	cation History		
Chronic Imm PreOpImmur	nunosuppressive Therapy	□ Yes □ No	
Chronic antic	coagulation	☐ Yes ☐ No (defined as any anticoagulation medication other than ASA)	
Home O2 PreOpHome	O2 (850)] No	
·			
Pre-Operativ	ve Testing evel measured		
CreatMeasur	red (870)	☐ Yes ☐ No	
Hemoglobin	level measured Measured (890)	☐ Yes ☐ No	00)
Pulmonary F PFT (910)	Function Tests performed?	□ Yes □ No	
If No →		☐ Not a Major Lung Resection ☐ Never smoked, no lung disease ☐ Pt. Unab	le to perform
If Yes →	FEV1 test performed? FEV (930)	☐ Yes ☐ No ☐ Not Applicable ## Yes ☐ FEV1 % predicted: FEVPred (940)	
	DLCO test performed? DLCO (950)	☐ Yes ☐ No ☐ Not Applicable If Yes→ DLCO % predicted:	
D!-	-1.1P-4		
Psychosocia	al History		
Cigarette sn CigSmoking	moking:	☐ Past smoker (stopped >1 month prior to operation ☐ Current smoker ☐ Unknown	
Cigarette sn	moking: (970) □ Never smoked ker' or Pack Year Known of	prior to operation If Yes → Pack-Years	
Cigarette sn CigSmoking If 'Past smok 'Current Smo Narcotic depo	moking: (970) □ Never smoked ker' or Pack Year Known of estimated PackYear pendency □ Yes □ No	prior to operation Tr can be prKnown (980) Tr can be PackYears Pack-Years PackYear (990) Alcohol Abuse Tr can be PackYear (990)	
Cigarette sn CigSmoking If 'Past smok' 'Current Smot Narcotic dep- NarcoticDepe Dementia/ne	moking: (970) □ Never smoked ker' or Pack Year Known of estimated PackYear pendency □ Yes □ No end (1000) purocognitive dysfunction	prior to operation or can be rKnown (980) PackYear (990) Or third shoker □ Orikhown If Yes → Pack-Years PackYear (990)	
Cigarette sn CigSmoking If 'Past smok 'Current Smo Narcotic dep- NarcoticDepe Dementia/ne DemNeroDys Major Psychi	moking: (970) □ Never smoked (970) □ Never smoked (970) □ Never smoked (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ Pack Year Known of the estimated PackYear (970) □ PackYear (970)	prior to operation If Yes → Pack-Years PackYear (990) Alcohol Abuse AlcoholAbuse (1010) Current shloker □ Oriknown	
Cigarette sn CigSmoking If 'Past smok 'Current Smo Narcotic dep- NarcoticDepe Dementia/ne DemNeroDys	moking: (970) □ Never smoked ker' or Pack Year Known of Pack Year beendency □ Yes □ No end (1000) eurocognitive dysfunction (s) (1020) iatric Disorder ler (1030) Burnor Disorder ler (1030)	prior to operation Trican be rKnown (980) Alcohol Abuse AlcoholAbuse (1010) □ Yes □ No □ Yes □ No	
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Cigarette sn CigSmoking If 'Past smok 'Current Smo Narcotic deponarcoticDeponentia/ne DemNeroDys Major Psychi PsychDisord Living Status LiveStat (104 Functional Status FuncStat (100 ECOG Score	moking: (970) □ Never smoked ker' or Pack Year Known of estimated PackYear pendency □ Yes □ Note end (1000) eurocognitive dysfunction s (1020) iatric Disorder ler (1030) Site □ Lives alone itatus: □ Independer □ 0 - Furon all provided in the prov	prior to operation Current shloker	ole to carry es. Up and
Cigarette sn CigSmoking If 'Past smok 'Current Smo Narcotic dep- NarcoticDepe Dementia/ne DemNeroDys Major Psychi PsychDisord Living Status LiveStat (104 Functional St FuncStat (10	moking: (970) □ Never smoked (970) □ Never smoked (970) □ Pack Year Known of estimated PackYear (970) □ Yes □ Note estimated PackYear (970) □ Yes □ Y	prior to operation Current shloker	ole to carry es. Up and
Cigarette sn CigSmoking If 'Past smok 'Current Smo Narcotic depo NarcoticDepo Dementia/ne DemNeroDys Major Psychi PsychDisord Living Status LiveStat (104 Functional St FuncStat (10 ECOG Score ECOGScore	noking: (970) □ Never smoked (970) □ Never smoked (970) □ Pack Year Known of estimated PackYear (970) □ Yes □ Note (970) □ Yes □ Note (970) □ No	prior to operation Current shloker	ole to carry es. Up and hours
Cigarette sn CigSmoking If 'Past smok 'Current Smo Narcotic depo NarcoticDepo Dementia/ne DemNeroDys Major Psychi PsychDisord Living Status LiveStat (104 Functional St FuncStat (10 ECOG Score ECOGScore D. Diagnos Category of Diagnosis. C	noking: (970) □ Never smoked (970) □ Never smoked (970) □ Pack Year Known of estimated PackYear (970) □ Yes □ Note estimated PackYear (970) □ Yes □ Yes □ Note estimated PackYear (970) □ Yes □ Y	prior to operation Current smoke Officion Offic	ole to carry es. Up and hours
Cigarette sn CigSmoking If 'Past smok 'Current Smo Narcotic depo NarcoticDepo Dementia/ne DemNeroDys Major Psychi PsychDisord Living Status LiveStat (104 Functional St FuncStat (10 ECOG Score ECOGScore D. Diagnos Category of Diagnosis. C	noking: (970) □ Never smoked ker' or Pack Year Known of estimated PackYear pend (1000) verocognitive dysfunction s (1020) iatric Disorder ler (1030) is: 40) □ Lives alone itatus: □ Independer itatus: □ 1070) □ 3 - Ca self-care chair mo hours in Category of Disease) in Disease: Check both Primary and categoryPrim (1250)	prior to operation Current smoke Officion Offic	es. Up and hours

☐ Lung cancer, main bronchus, carina (162.2, C34.00)	☐ Lung cancer, lower lobe (162.5, C34.30)					
☐ Lung cancer, upper lobe (162.3, C34.10)	☐ Lung cancer, location unspecified (162.9, C34.90)					
☐ Lung cancer, middle lobe (162.4, C34.2)	☐ Lung tumor, metastatic (197.0, C78.00)					
☐ Malignant neoplasm other parts of bronchus or lung (162.8, C34.8)	☐ Personal history of malignant neoplasm of bronchus and lung (V10.11, Z85.118)					
☐ Neoplasm of uncertain behavior of trachea, bronchus and lung (235.7, DM38.1)						
Esophagus	Cancer					
☐ Esophageal cancer, esophagogastric junction (cardia) (151.0, C16.0)	☐ Malignant neo stomach unspecified (151.9, C16.9)					
☐ Esophageal cancer, upper third (150.3, C15.3)	☐ Malignant neoplasm of the esophagus, unspecified (150.9, C15.9)					
☐ Esophageal cancer, middle third (150.4, C15.4)	☐ Malignant other part esophagus, specified (150.8, C15.8)					
☐ Esophageal cancer-lower third (150.5, C15.5)						
Thymus / Media	stinal Mass					
☐ Anterior mediastinal tumor primary(germ cell cancer, seminoma) (164.2, C38.1)	☐ Anterior mediastinal tumor-thymus tumor (thymoma, thymic carcinoma) (164.0, C37)					
☐ Anterior mediastinal tumor-metastatic (197.1, C78.1)	☐ Posterior mediastinal tumor-metastatic (197.1, C78.1)					
☐ Posterior mediastinal malignant tumor- primary (164.3, C38.2)	☐ Neoplasm of uncertain behavior of pleura, thymus, mediastinum (235.8, D38.2-D38.4)					
☐ Anterior mediastinal tumor-benign-(e.g., teratoma) (212.5, D15.2)	☐ Myasthenia gravis (358.0, G70.00)					
Trache	ea					
☐ Tracheal tumor, malignant (162.0, C33)	☐ Tracheal stenosis, congenital (748.3, Q32.1)					
☐ Tracheal tumor, benign (212.2, D14.2)	☐ Subglottic stenosis-congenital (748.3, Q31.1)					
☐ Tracheal tumor, metastatic (197.3, C78.30)	☐ Subglottic stenosis-acquired (post intubation) (478.74, J38.6)					
☐ Tracheal stenosis, acquired (519.19, J39.8)	☐ Tracheostomy related stenosis (519.02, J95.03)					
Hiatal Hernia / GERD						
☐ Esophageal reflux (GERD) (530.81, K21.9)	☐ Diaphragmatic hernia, with obstruction, without gangrene (552.3, K44.0)					
☐ Reflux esophagitis (530.11, K21.0)	☐ Diaphragmatic hernia with gangrene (551.3, K44.1)					
☐ Barrett's esophagus (530.85, K22.70)	☐ Diaphragmatic hernia without obstruction or gangrene (553.3, K44.9)					
☐ Barrett's esophagus with High Grade Dysplasia (530.85, K22.711)						
Cardiovas	scular					
☐ Abdominal aneurysm without rupture (441.4, I171.4)	☐ Pericarditis, constrictive (432.2, I31.1)					
☐ Cardiac tamponade (423.3, I31.4)	☐ SVC Syndrome (459.2, I87.1)					
☐ Pericardial effusion, malignant (198.89, C79.89)	☐ Unspecified disease of the pericardium (423.9, I31.9)					
☐ Pericarditis with effusion (420.9, I30.9)						
Chest V	Vall					
☐ Pectus carinatum (754.82, Q67.7)	☐ Sternal tumor, benign (213.3, D16.7)					
☐ Pectus excavatum (754.81, Q67.6)	☐ Sternal tumor, malignant (170.3, C41.3)					
☐ Rib tumor, benign-(e.g., fibrous dysplasia) (213.3, D16.7)	☐ Sternal tumor, metastatic (198.5, C79.51)					
☐ Rib tumor, malignant-(e.g., osteosarcoma, chondrosarcoma) (170.3, C41.3)	☐ Thoracic outlet syndrome (353.0, G54.0)					
☐ Rib tumor, metastatic (198.5, C79.51)						
Diaphra	gm					
☐ Diaphragm tumor, benign (215.4, D21.3)	☐ Diaphragm tumor, metastatic (198.89, C79.89)					
☐ Diaphragm tumor, malignant (171.4, C49.3)	☐ Diaphragmatic paralysis (519.4, J98.6)					
Esophagus	- Other					
☐ Achalasia of esophagus (530.0, K22.0)	☐ Foreign body esophagus (935.1, T18.108a)					
☐ Acquired absence of esophagus (post esophagectomy) (V45.79, Z90.89)	☐ Gastric outlet obstruction, pyloric stenosis, acquired (537.0, K31.1)					

□ Dyskinesia/spasm of esophagus (530.5, K22.4) □ Mallory Weiss tear (530.7, K22.6)			
☐ Epiphrenic diverticulum (530.6, K22.5)	☐ Stricture and stenosis of esophagus (530.3, K22.2)		
☐ Esophageal perforation (530.4, K22.3)	☐ Tracheoesophageal fistula (530.84, J86.0)		
☐ Esophageal stricture (530.3, K22.2)	☐ Ulcer esophagus with bleeding (530.21, K22.11)		
☐ Esophageal tumor-benign (i.e., leiomyoma) (211.0, D13.0)	☐ Ulcer esophagus without bleeding (530.2, K22.10)		
☐ Esophagitis (530.1, K20.9)	☐ Zenkers diverticulum (530.6, K22.5)		
☐ Other disease of the esophagus (530.89, K22.8)	☐ Other digestive system complication (997.49, K91.XX)		
Lung – O	other		
☐ Acute respiratory failure (518.81, J96.00)	☐ Lung tumor, benign (e.g., hamartoma) (212.3, D14.30)		
☐ Aspergillosis (117.3, B44.9)	☐ Pneumonia (486.0, J18.9)		
☐ Bronchiectasis (494.0, J47.9)	☐ Post inflammatory pulmonary fibrosis (515, J84.89)		
☐ Cystic fibrosis with pulmonary manifestations (277.02, E84.0)	☐ Primary pulmonary hypertension (416.0, I 27.0)		
☐ Emphysema (492.8, J43.8)	☐ Pulmonary insufficiency following surgery/trauma (ARDS) (518.5, J95.82)		
☐ Emphysematous bleb (492.0, J43.9)	☐ Pulmonary sequestration (748.5, Q33.2)		
☐ Lung abscess (513.0, J85.2)	☐ Transplanted lung complication(s) (996.84, T86.8XX)		
☐ Interstitial lung disease/fibrosis (516.3, J84.1)	☐ Gangrene and necrosis of lung (513.0, J85.0)		
☐ Pneumothorax (512.8, J93.1)	☐ Hemothorax (511.8, J94.2)		
☐ Solitary pulmonary nodule (not a tumor, e.g., granuloma, subpleural lymph node, pulmonary infarct) (793.11, R91.1)			
Mediasti	num		
☐ Mediastinal nodes, metastatic (196.1, C77.1)	☐ Mediastinal cyst, Pericardial (519.3, J98.5)		
☐ Benign neoplasm of thymus (212.6, D15.0)	☐ Mediastinal cyst, Thymic (519.3, J98.5)		
☐ Lymphoma, intrathoracic (202.82, C85.92)	☐ Mediastinal nodes, benign (229.0, D36.0)		
☐ Mediastinal abscess (513.1, J85.3)	☐ Mediastinitis (519.2, J98.5)		
☐ Mediastinal cyst, Bronchogenic (519.3, J98.5)	☐ Posterior mediastinal tumor-benign(neurogenic)(212.5,D15.2)		
☐ Mediastinal cyst, Foregut duplication (519.3, J98.5)	☐ Unspecified disease of thymus gland (254.9, E32.9)		
Pleur	а		
☐ Empyema with fistula (510.0, J86.0)	☐ Pleural thickening (511.0, J94.9)		
☐ Empyema without fistula (510.9, J86.9)	☐ Pleural tumor, benign (212.4, D19.0)		
☐ Empyema, tuberculosis (A15.6)	☐ Pleural tumor, metastatic (197.2, C78.2)		
☐ Pleural effusion, infected- (empyema) (511.1, J86.9)	☐ Malignant neoplasm other specified sites of pleura (163.8, C38.4)		
☐ Pleural effusion, malignant (197.2, C78.2)	☐ Malignant tumor of pleura, unspecified (e.g., mesothelioma) (163.9, C45)		
☐ Pleural effusion sterile (511.9, J90)	☐ Pleural effusion, TB; (Tuberculous pleurisy) (012.0, A15.6)		
☐ Pleural effusion, other specified, except TB (511.89, J90)			
Thyroi	id		
☐ Goiter, nodular (241.9, E04.9)	☐ Thyroid neoplasm, malignant (193.0, C73)		
☐ Thyroid neoplasm, benign (226.0, D34)			
Trachea &	1 -		
☐ Dysphagia, unspecified (787.2, R13.10)	□ Vocal cord paralysis unspecified (478.3, J38.00)		
☐ Tracheomalacia-congenital (748.3, Q32.0)	□ Vocal cord paralysis , unilateral (478.31, J38.01)		
☐ Tracheomalacia-acquired (519.1, J39.8)	☐ Vocal cord paralysis, bilateral (478.33, J38.02)		
☐ Tracheostomy-hemorrhage (519.09, J95.01)			
Traum	1		
☐ Flail chest (807.4, S22.5xxa)	☐ Sternal fracture (807.2, S22.20xa)		
☐ Rib fracture (807.0, S22.39xa)	☐ Tracheal injury (807.5, S12.8xxa)		
☐ Rib fractures, multiple (807.0, S22.49xa)	☐ Traumatic pneumothorax (860.0, S27.0xxa)		
Miscellan	eous		

□ Abnormal radiologic finding (793.1, R91) □ Other non-infectious disorders of lymphatic channels (457.8, 189.8)						
☐ Chronic airway obstruction not elsewhere classified (496, J44.9)				☐ Malignant neoplasm of connective tissue and other soft tissue of the thorax (171.4, C49.3)		
☐ Chylothorax (457.8, 189.8)			☐ Malignant poorly differentiated neuroendocrine carcinoma, any site (209.3, C74.1)			
☐ Disruption of internal operation, sur	gical wour	nd (998.31, T81.32XA)		urgical wound (998.83	3, T81.89XA)	
☐ Hemorrhage complicating a proced	ure (998.1	1, multiple codes)	☐ Other post- op	infection (998.59, T8	1.4XXA)	
☐ Hematoma complicating a procedur	e (998.12	, multiple codes)	☐ Persistent pos T81.83XA)	t-op fistula not otherw	ise classified (998.6,	
☐ Hemoptysis unspecified (786.3, R0-	4.2)			☐ Post-operative air leak (512.2, J95.812)		
☐ Hyperhidrosis, focal axilla (705.21,	L74.510)		☐ Secondary ma C79.89)	☐ Secondary malignant neoplasm of other specified sites (198.89, C79.89)		
☐ Hyperhidrosis, focal, face (705.21, l	_74.511)		☐ Shortness of b	☐ Shortness of breath (786.05, R06.02)		
☐ Hyperhidrosis, focal, palms (705.21	, L74.512)		☐ Swelling, mass	s or lump in chest (786	6.6, R22.2)	
☐ Lymphadenopathy (785.6, R59.9)			☐ Other unlisted	category of disease		
Other Primary Specify: CategoryPrimOth (1260)	If diagno	osis not listed, free text h	ere:			
Other Primary ICD: CategoryPrimOthICD (1270)	Enter IC	D-9 or ICD-10 of unlisted	d primary diagnosis, i	f known:		
Secondary, Other Secondary Specify: CategorySecondOth (1290)	I	f secondary diagnosis n	ot listed, free text her	e:		
Secondary, Other Secondary ICD: CategorySecondOthICD (1300)	Enter IC	D-9 or ICD-10 of unlisted	d secondary diagnosi	s, if known :		
E. Operative						
Date of Surgery: // SurgDt (1310)	_					
OR Entry Time: : : : : : : : : : : : : : : : : : :		Anesthesia Start Time AnesthStartT (1340)	::	Procedure Start Till ProcStartT (1360)	<u>me</u> :	
OR Exit Time: :::::::::::::::::::::::::::::::::::	Anesthesia End Time: AnesthEndT (1350)	:	: Procedure End Time: : ProcEndT (1370)			
Multi-Day Operation (operation continued MultiDay (1380)	through mic	dnight) ☐ Yes ☐ No)			
Planned, staged procedure? PlanStageProc (1390)		□ Yes □ No				
Status (1400)	Emergent	☐ Urgent ☐ Electiv	ve □ Palliative			
Reoperation (any prior cardiothoracic surge that affects operative field) Reop (1410)		′es □ No	Assisted by Robotic Robotic (1420)	Technology ☐ Ye	es □ No	
Surgical Approach Conversion:						
UnanticConv (1430) Conversion Type: □ Elective □ Emergent						
If Yes→ UnanticConvT Conversion Re UnanticConvR	eason:	Vascular □ Anatomy	☐ Lymph Nodes	□ Technical		
Blood transfusion intraoperatively (pack IntraopPRBC (1460)	ked red bloo	od cells) □ Yes □ I		⇒ #Red Blood Cell U opPRBCNum (1470)	Jnits:	
ASA Classification: Normal, Mill ASA (1480) healthy dis	□ III Severe systemic disease	□ IV Life threatening severe systemic disease	☐ V Moribund, not expected to survive without operation	□ VI Declared brain dead, organ donor		
Chack All of the procedures perfe	rmed !	adicate (circle) the Prime	ary Procedure			
Check ALL of the procedures performed. Indicate (circle) the Primary Procedure. Proc (1490) Primary (1500)						
Analyzed Procedures						
	Lung Cancer Resection					

☐ Thoracoscopy, surgical; with lobectomy (32663)	☐ Removal of lung, single lobe (lobectomy) (32480)
☐ Thoracoscopy with therapeutic wedge resection (eg mass or nodule, initial, unilateral (32666)	☐ Removal of lung, two lobes (bilobectomy) (32482)
☐ Thoracoscopy with therapeutic wedge resection(eg mass or nodule) each additional resection, ipsilateral (32667) List separately in addition to primary procedure code	☐ Removal of lung, single segment (segmentectomy) (32484)
☐ Thoracoscopy with diagnostic wedge resection followed by anatomic lung resection (32668), List separately in addition to primary procedure code	☐ Removal of lung, sleeve lobectomy (32486)
☐ Thoracoscopy with removal of a single lung segment (segmentectomy) (32669)	☐ Removal of lung, completion pneumonectomy (32488)
☐ Thoracoscopy with removal of two lobes (bilobectomy) (32670)	☐ Resection and repair of portion of bronchus (bronchoplasty) when performed at time of lobectomy or segmentectomy (32501)
☐ Thoracoscopy with removal of lung, pneumonectomy (32671)	☐ Resection of apical lung tumor (e.g., Pancoast tumor), including chest wall resection, without chest wall reconstruction(s) (32503)
☐ Thoracotomy with therapeutic wedge resection (eg mass nodule) initial (32505)	☐ Resection of apical lung tumor (e.g., Pancoast tumor), including chest wall resection, with chest wall reconstruction (32504)
☐ Removal of lung, total pneumonectomy; (32440)	☐ Thoracotomy with therapeutic wedge resection (eg mass nodule) each additional resection, ipsilateral (+32506)List separately in addition to primary procedure code
☐ Removal of lung, sleeve (carinal) pneumonectomy (32442)	☐ Thoracotomy with diagnostic wedge resection followed by anatomic lung resection (+32507), List separately in addition to primary proc code
☐ Thoracoscopy with mediastinal and regional lymphadenectomy (+32674) List separately in addition to primary procedure code	☐ Thoracic lymphadenectomy, regional, including mediastinal and peritracheal nodes (38746)
Esophagus	
☐ Transhiatal-Total esophagectomy, without thoracotomy, with cervical esophagogastrostomy (43107)	☐ Partial esophagectomy, distal two-thirds, with thoracotomy only (43121)
☐ Total esophagectomy without thoracotomy; with colon interposition or small intestine reconstruction (43108)	☐ Thoracoabdominal-Partial esophagectomy, thoracoabdominal approach (43122)
☐ Three Incision -Total esophagectomy with thoracotomy; with cervical esophagogastrostomy (43112)	☐ Partial esophagectomy, thoracoabdominal with colon interposition or small intestine (43123)
☐ Total esophagectomy with thoracotomy; with colon interposition or small intestine reconstruction (43113)	☐ Total or partial esophagectomy, without reconstruction with cervical esophagostomy (43124)
☐ Partial esophagectomy, cervical, with free intestinal graft, including microvascular anastomosis (43116)	☐ Minimally invasive three incision esophagectomy
☐ Ivor Lewis-Partial esophagectomy, distal two-thirds, with thoracotomy and separate abdominal incision (43117)	☐ Minimally invasive esophagectomy, Ivor Lewis approach
☐ Partial esophagectomy, with thoracotomy and separate abdominal incision with colon interposition or small intestine (43118)	☐ Minimally invasive esophagectomy, Abdominal and neck approach
Hiatal Hernia / G	ERD Procedures
☐ Laparoscopy, surgical, esophagogastric fundoplasty (e.g., Nissen, Toupet procedures) (43280)	☐ Repair, paraesophageal hiatal hernia via laparotomy with mesh (43333)
☐ Laparoscopy, surgical with repair of paraesophageal hernia (fundoplasty) without mesh (43281)	☐ Repair, paraesophageal hiatal hernia via thoracotomy without mesh (43334)
☐ Laparoscopy, surgical with repair of paraesophageal hernia (fundoplasty) with mesh (43282)	☐ Repair, paraesophageal hiatal hernia via thoracotomy with mesh (43335)
☐ Nissen fundoplasty- laparotomy (includes partial fundoplication/wrap) (43327)	☐ Repair, paraesophageal hiatal hernia via thoracoabdominal approach without mesh (43336)
☐ Transthoracic Fundoplication- open thoracotomy (includes Belsey/Nissen) (43328)	Repair, paraesophageal hiatal hernia via thoracoabdominal approach with mesh (43337)
☐ Repair, paraesophageal hiatal hernia via laparotomy without mesh (43332)	
Tracheal I	
☐ Carinal reconstruction (31766)	☐ Tracheal tumor or carcinoma excision; cervical (31785)
☐ Excision tracheal stenosis, cervical (31780) ☐ Excision tracheal stenosis, thoracic (31781)	☐ Tracheal tumor or carcinoma excision; thoracic (31786)
Thymus / Mediastir	nal Mass Resection
-	iai iriass nesectivii
☐ Thoracoscopy, surgical; with excision of mediastinal cyst, tumor, or mass (32662)	☐ Thymectomy, transcervical approach (60520)
☐ Thymus, resection via Thoracoscopy unilateral or bilateral (32673)	☐ Thymectomy, transthoracic approach (60521)
☐ Mediastinal tumor, excision, open, Transthoracic approach (39220)	☐ Thymectomy, transthoracic approach, with radical mediastinal dissection (60522)

Non-analyzed Procedures						
Trachea, Bro	onchi, Larynx					
□ Laryngectomy, partial (31370)						
☐ Tracheostomy replacement (tube change) prior to est. of fistula tract (31502)	☐ Tracheal wound or injury suture repair; cervical (31800)					
☐ Tracheostomy, planned (31600)	☐ Tracheal wound or injury suture repair; intrathoracic (31805)					
☐ Tracheostomy revision simple, without flap (31613)	☐ Unlisted procedure, trachea, bronchi (31899)					
☐ Tracheostomy revision complex, with flap (31614)	☐ Bronchopleural fistula closure (32906)					
☐ Tracheoplasty; cervical (31750)	☐ Bronchogenic cyst removal					
☐ Tracheoplasty; intrathoracic (31760)	☐ Bronchial laceration suture					
	☐ Bronchial sleeve resection					
☐ Bronchoplasty, graft repair (31770)	☐ Tracheostomy mediastinal					
☐ Bronchoplasty; excision stenosis and anastomosis (31775)	☐ Rigid stent removal					
	_					
Bronch	оѕсору					
☐ Tracheobronchoscopy through established tracheostomy incision	☐ Bronchoscopy, with transbronchial lung biopsy(s), each additional					
(31615) ☐ Endobronchial ultrasound (EBUS) during bronchoscopy diagnostic	lobe (31632) ☐ Bronchoscopy, with transbronchial needle aspiration biopsy(s),					
or therapeutic intervention(s) (31620)	each additional lobe (31633)					
☐ Bronchoscopy, diagnostic, with or without cell washing (31622)	☐ Bronchoscopy, with removal of foreign body (31635)					
☐ Bronchoscopy, with brushing or protected brushings (31623)	☐ Bronchoscopy, with placement of bronchial stent(s) (includes tracheal/bronchial dilation as required), initial bronchus (31636)					
☐ Bronchoscopy, with bronchial alveolar lavage (BAL) (31624)	☐ Bronchoscopy, each additional major bronchus stented (31637)					
☐ Bronchoscopy, with bronchial or endobronchial biopsy(s), single or multiple sites (31625)	☐ Bronchoscopy, with revision of tracheal or bronchial stent inserted at previous session (31638)					
☐ Bronchoscopy, with placement of Fiducial markers (31626)	☐ Bronchoscopy, with excision of tumor (31640)					
☐ Bronchoscopy, navigational (31627)	☐ Bronchoscopy, with destruction of tumor or relief of stenosis by any method other than excision (e.g., laser therapy) (31641)					
☐ Bronchoscopy, with transbronchial lung biopsy(s), single lobe (31628)	☐ Bronchoscopy, with placement of catheter(s) for intracavitary radioelement application (31643)					
☐ Bronchoscopy, with transbronchial needle aspiration biopsy(s) (31629)	☐ Bronchoscopy, with therapeutic aspiration of tracheobronchial tree, initial (drainage of lung abscess) (31645)					
☐ Bronchoscopy, with tracheal/bronchial dilation or closed reduction of fracture (31630)	☐ Bronchoscopy, with therapeutic aspiration of tracheobronchial tree, subsequent (31646)					
☐ Bronchoscopy, with placement of tracheal stent(s) (includes tracheal/bronchial dilation as required) (31631)						
Pleural Space	ce and Lung					
☐ Thoracostomy; with rib resection for empyema (32035)	☐ Insertion indwelling tunneled pleural catheter (32550)					
☐ Thoracostomy; with open flap drainage for empyema (32036)	☐ Thoracoscopy, diagnostic lungs and pleural space, without biopsy (32601)					
☐ Thoracotomy with biopsy(s) lung infiltrate(s) (e.g. wedge), unilateral (32096)	☐ Thoracoscopy, diagnostic; with biopsy(s) of lung infiltrate(s) (e.g. wedge), unilateral (32607)					
☐ Thoracotomy with biopsy(s) lung nodule(s) or masses (e.g. incisional), unilateral (32097)	☐ Thoracoscopy, diagnostic; with biopsy(s) of lung nodule(s) or mass(es) (eg incisional), unilateral (32608)					
☐ Thoracotomy with biopsy(s) of pleura (32098)	☐ Thoracoscopy, diagnostic; with biopsy(s) of pleura (32609)					
☐ Thoracotomy, with exploration (32100)	☐ Thoracoscopy, surgical; with pleurodesis (e.g., mechanical or chemical) (32650)					
☐ Thoracotomy, major; with control of traumatic hemorrhage and/or repair of lung tear (32110)	☐ Thoracoscopy, surgical; with partial pulmonary decortication (32651)					
☐ Thoracotomy, major; for postoperative complications (32120)	☐ Thoracoscopy, surgical; with total pulmonary decortication (32652)					
☐ Thoracotomy with open intrapleural pneumolysis (32124)	☐ Thoracoscopy, surgical; with removal of intrapleural foreign body or fibrin deposit (32653)					
☐ Thoracotomy, major; with cyst(s) removal, with or without a pleural procedure (32140)	☐ Thoracoscopy, surgical; with control of traumatic hemorrhage (32654)					
☐ Thoracotomy, major; with excision-plication of bullae, with or without any pleural procedure (32141)	☐ Thoracoscopy, surgical; with excision-plication of bullae, including any pleural procedure (32655)					
☐ Thoracotomy, major; with removal of intrapleural foreign body or hematoma (32150)	☐ Thoracoscopy, surgical; with parietal pleurectomy (32656)					

☐ Thoracotomy with cardiac massage (32160)	☐ Thoracoscopy with resection-plication for emphysematous lung (bullous or non-bullous) for lung volume reduction- LVRS, unilateral including any pleural procedure (32672)			
☐ Decortication, pulmonary, total (32220)	☐ Repair lung hernia through chest wall (32800)			
☐ Pleural scarification for repeat pneumothorax (32215)	☐ Closure of chest wall following open flap drainage for empyema (Clagett type procedure) (32810)			
☐ Decortication, pulmonary, partial (32225)	☐ Total lung lavage (for alveolar proteinosis) (32997)			
☐ Pleurectomy, parietal (32310)	☐ Radio-frequency ablation (RFA) lung tumor (32998)			
☐ Decortication and parietal pleurectomy (32320)	☐ Removal of lung, total pneumonectomy; extrapleural (32445)			
☐ Removal of lung, excision-plication of emphysematous lung(s) for lung volume reduction (LVRS) (32491)	☐ Unlisted procedure, lung (32999)			
Lung Other	Procedures			
☐ Open closure of major bronchial fistula (32815)	☐ Double lung transplant (32853)			
☐ Single lung transplant (32851)	☐ Double lung transplant with CPB (32854)			
☐ Single lung transplant with CPB (32852)	☐ Thoracoplasty with closure of bronchopleural fistula (32906)			
Mediastinum a	nd Diaphragm			
☐ Thoracoscopy, diagnostic; mediastinal space, with biopsy (32606)	☐ Diaphragmatic hernia repair (other than neonatal), traumatic; acute (39540)			
☐ Mediastinotomy with exploration or biopsy; cervical approach (39000)	☐ Diaphragmatic hernia repair (other than neonatal), traumatic; chronic (39541)			
☐ Mediastinotomy with exploration or biopsy; transthoracic approach (39010)	☐ Diaphragm imbrication (i.e., plication) of (39545)			
☐ Mediastinal cyst, excision, open, Transthoracic approach (39200)	☐ Diaphragm; resection with simple repair (e.g., primary suture) (39560)			
☐ Mediastinoscopy, with or without biopsy (39400)	☐ Diaphragm; resection with complex repair (e.g., prosthetic material, local muscle flap) (39561)			
☐ Unlisted procedure, mediastinum (39499)	☐ Unlisted procedure, diaphragm (39599)			
☐ Diaphragm, laceration repair, any approach (39501)				
Esophagoscopy				
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☐ Esophagoscopy (43200)	☐ Upper gastrointestinal endoscopy with endoscopic ultrasound examination limited to the esophagus (43237)			
□ Esophagoscopy (43200)	examination limited to the esophagus (43237) □ Upper gastrointestinal endoscopy with transendoscopic ultrasound-guided FNA (43238) □ Upper gastrointestinal endoscopy with biopsy (43239)			
☐ Esophagoscopy (43200) ☐ Esophagoscopy with biopsy (43202)	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)			
□ Esophagoscopy (43200) □ Esophagoscopy with biopsy (43202) □ Esophagoscopy with removal of foreign body (43215) □ Esophagoscopy with insertion of stent (43219) □ Esophagoscopy with balloon dilation (43220)	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)			
□ Esophagoscopy (43200) □ Esophagoscopy with biopsy (43202) □ Esophagoscopy with removal of foreign body (43215) □ Esophagoscopy with insertion of stent (43219)	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)			
□ 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)	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)			
□ 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)	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)			
□ 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)	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)			
□ 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)	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)			
□ 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) Esophagus Otl	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)			
□ 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)	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) Der Procedures Esophagostomy, fistulization of esophagus, external; cervical approach (43352)			
□ 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) ■ Esophagus Ott □ Thoracoscopy, surgical; with esophagomyotomy (Heller type) (32665) □ Cricopharyngeal myotomy (43030)	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) ■ Procedures ☐ Esophagostomy, fistulization of esophagus, external; cervical approach (43352) ☐ Gastrointestinal reconstruction for previous esophagectomy with stomach (43360)			
□ 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) □ Thoracoscopy, surgical; with esophagomyotomy (Heller type) (32665) □ Cricopharyngeal myotomy (43030) □ Excision esophageal lesion with primary repair, cervical approach (43100)	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) ■ Procedures ☐ Esophagostomy, fistulization of esophagus, external; cervical approach (43352) ☐ Gastrointestinal reconstruction for previous esophagectomy with			
□ 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) □ Thoracoscopy, surgical; with esophagomyotomy (Heller type) (32665) □ Cricopharyngeal myotomy (43030) □ Excision esophageal lesion with primary repair, cervical approach (43100) □ Excision Esophageal lesion with primary repair, thoracic approach (eg: leiomyoma) (43101)	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) Der Procedures ☐ Esophagostomy, fistulization of esophagus, external; cervical approach (43352) ☐ Gastrointestinal reconstruction for previous esophagectomy with stomach (43360) ☐ Gastrointestinal reconstruction for previous esophagectomy with colon interposition or small intestine (43361) ☐ Suture of esophageal wound or injury; cervical approach (43410)			
□ 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) ■ Esophagoscopy, surgical; with esophagomyotomy (Heller type) (32665) □ Cricopharyngeal myotomy (43030) □ Excision esophageal lesion with primary repair, cervical approach (43100) □ Excision Esophageal lesion with primary repair, thoracic approach	□ 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) ner Procedures □ Esophagostomy, fistulization of esophagus, external; cervical approach (43352) □ Gastrointestinal reconstruction for previous esophagectomy with stomach (43360) □ Gastrointestinal reconstruction for previous esophagectomy with colon interposition or small intestine (43361)			

	☐ Laparoscopic esophageal myotomy (Heller Myotomy, with or without fundoplication) (43279)		☐ Total gastrectomy with esophagoenterostomy (43620)			
□ Laparoscopy, surgical, esophageal lengthening procedure (Collis) (43283) Secondary Procedure code		☐ Total gastrectomy with Roux-en-Y reconstruction (43621)				
☐ Unlisted laparoscopy, esophagus (43289)			☐ Conduit revision s/p esophagectomy			
☐ Esophagoplasty with repair of TEF, cervical approach (43305)			☐ Per oral endoscopic myotomy (POEM)			
ł	☐ Esophagoplasty with repair TEF, thoracic approach (43312)	,	☐ Trans oral fundoplication			
ł	☐ Esophagomyotomy (Heller type); thoracic approach (43331)		☐ Esophageal lengthening procedure - open (Collis) Secondary			
			Procedure code (43338) ☐ Ligation or stapling at gastroesophageal junction for esophageal			
	☐ Free jejunum transfer with microvascular anastomosis (43496☐ Unlisted procedure, esophagus (43499)) 	perforation (43405)			
ŀ		oct Wal	l and Neck			
ŀ		esi wai	□ Radical resection of sternum (21630)			
ŀ	☐ Muscle flap, neck (15732) ☐ Muscle flap; trunk (i.e., intercostal, pectoralis or serratus musc	cle)	☐ Radical resection of sternum; with mediastinal lymphadenectomy			
	(15734)		(21632)			
	☐ Excision of chest wall tumor including ribs (19260)		☐ Hyoid myotomy and suspension (21685) secondary procedure code			
	☐ Excision of chest wall tumor involving ribs, with reconstruction (19271)	1	☐ Division of scalenus anticus; without resection of cervical rib (21700)			
	☐ Excision tumor, soft tissue of neck or thorax; subcutaneous (2	21555)	☐ Division of scalenus anticus; with resection of cervical rib (21705)			
	☐ Excision tumor, soft tissue of neck or thorax; deep, subfascial	,	☐ Reconstructive repair of pectus excavatum or carinatum; open			
•	intramuscular (21556) ☐ Radical resection of tumor (e.g., malignant neoplasm), soft tis	sue	(21740) ☐ Reconstructive repair of pectus, minimally invasive approach (Nuss			
ŀ	of neck or thorax (21557)		procedure), without thoracoscopy (21742) ☐ Open treatment of sternum fracture with or without skeletal fixation			
	☐ Excision of rib, partial (21600)		(21825)			
☐ Excision first and/or cervical rib (21615)			☐ Removal of sternal wire(s)			
☐ Excision first and/or cervical rib; with sympathectomy (21616)		☐ Reconstructive repair of pectus, minimally invasive approach (Nuss procedure), with thoracoscopy (21743)				
☐ Major reconstruction, chest wall (posttraumatic) (32820)			☐ Unlisted procedure, neck or thorax (21899)			
			aneous			
	☐ Thoracoscopy, diagnostic pericardial sac, with biopsy (32604)		SVC resection and reconstruction (34502)			
	☐ Thoracoscopy, surgical; with removal of clot or foreign body fr pericardial sac (32658)		☐ Ligation thoracic duct (38381)			
	☐ Thoracoscopy, surgical; with creation of pericardial window or partial resection of pericardial sac for drainage (32659)	ſ	☐ Intraoperative jejunostomy (44015)			
	☐ Thoracoscopy, surgical; with total pericardiectomy (32660)		☐ Omental flap (49904)			
	☐ Thoracoscopy, surgical; with excision of pericardial cyst, tumo mass (32661)	or, or	☐ Transthoracic thyroidectomy (60270)			
ĺ	☐ Thoracoscopy, surgical; with thoracic sympathectomy (32664	.)	☐ Removal substernal thyroid, cervical approach (60271)			
	☐ Stereotactic radiosurgery (SRS) and stereotactic body radioth (SBRT),surgeon participation (32701)	nerapy	☐ Application of wound vac (97605, 97606)			
İ	☐ Tube pericardiostomy (33015)		☐ Pericardial window (33025)			
ı	☐ Other Minor Procedure		□ Other			
I						
	Enter Name of unlisted Procedure(s): ProcOth (1510)					
ļ	Enter 5 digit CPT code(s) of unlisted procedure, if known: ProcOthCPT (1520)					
	Surgical Procedure for Lung Cancer or Suspected Lung Cancer? LungCancer (1580) □ Yes	□ No	if yes, complete Section F			
	Surgical Procedure for Esophageal Cancer? EsophCancer (1590) ☐ Yes	□ No	if yes, complete Section G			
	Are you collecting data for Thymus / Mediastinal					
		□ No	if yes, complete Section H			
	Mass Resection? ThymusMediastinalData (1600) Are you collecting data for Tracheal Resection?		if yes, complete Section I			
	Mass Resection? ThymusMediastinalData (1600) Are you collecting data for Tracheal Resection?	□ No				

F. Lung Ca	incer				
<u>Diagnosis:</u>					
	pathological diagnosis of lung cancer eoperatively; no: lung cancer was on				□ Yes □ No
How was lung	g cancer diagnosed?				
Bronchoscop ClinStagLung	Bronc (1640)	Clin	StagLungNeedle (□ Yes □ No
	ging: Pre-treatment Lung cand ion performed. Clinical staging			ancer suspected	d or documented <u>AND</u>
	ing Done ClinStagDoneLung (1660)		пен рын.		
If Yes→	Pre-Op Positive Tissue diagnosis Obtained PreopPosTisOb (1670)	□ Yes □ No			
	Clinical Staging Methods : Choose	se all that apply			
	Radiographic Staging Procedure	s			
	PET or PET/CT ClinStagLungPET (1680)	□ Yes □ No	Brain CT Scan ClinStagLungBr	ainCT (1700)	□ Yes □ No
	CT ClinStagLungCT (1690)	□ Yes □ No	Brain MRI ClinStagLungBN	√IRI (1710)	□ Yes □ No
	Was invasive mediastinal staging performed? ClinStagInvasive (1720	☐ Yes, reason doc	umented □ Yes	s, reason not docur	mented No
	If Documented \rightarrow Operative (check all that apply)	e/Clinic Note indicates Inva	sive Mediastinal S	Staging performed	for the following reasons:
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			□ Yes □ No	
	Mediastinal Lymphadenopathy on CT > 1cm ClinStagInvasiveLymphCT (1740)			□ Yes □ No	
		lpsilateral hilar med ClinStagInvasiveHil		uptake on PET	☐ Yes ☐ No
		Central Tumor Clin	•	or (1760)	□ Yes □ No
		Other ClinStagInva	siveOther (1770)		☐ Yes ☐ No
	Mediastinal Tissue Sampling/Sta	ging	VATO		
	ClinStagLungEBUS (1780)	□ Yes □ No	VATS ClinStagLungVA	TS (1790)	☐ Yes ☐ No
	EUS ClinStagLungEUS (1800)	□ Yes □ No	Other ClinStagLungOth	ı (1810)	□ Yes □ No
	Mediastinoscopy/Chamberlain ClinStagLungMedia (1830)	□ Yes □ No			
	Tumor size known? ☐ Yes ☐ N LungCaTumSzKnown (1850)	No If Yes ↓			
	Lung CA tumor size ir Scan) <mark>LungCaTumSz</mark>	n cm (the dominanat/most (1860)	concerning lesion	per CT	cm (ex. 2.3cm)
	Invasion of Adjacent Structures LCI	InvAdjStr (1870)	□ Yes □ No		
	Lung CA T Stage (tumor stage) ClinStageLungTumor (1880)	☐ Tis ☐ T1	□ T2 □ T		
	Lung CA Nodes: ClinStageLungN (1890)	□ N0 No regional lymph node i	metastasis		ateral peribronchial or hilar ry nodes. Includes direct
		□ N2 Metastasis in ipsilateral n and/or subcarinal lymph i	nediastinal nodes	contralateral hilar	tralateral mediastinal or nodes, ipsilateral or ene or supraclavicular nodes
	Lung CA Metastases: ClinStageLungM (1900)	☐ M0 No distant metastasis		□M1 Distant Metastasis	S

Lung - FINAL Path	ological Staging				
To be completed if I	ung cancer suspected	d or documented <u>AND</u> lung	g resection performed.	(8 th Edition)	
Lung Cancer Results ClinStageLungResult					
☐ No cancer found, b		Lung Cancer Tumor preser	nt:		
If Cancer Tumor Present→ PathStageLungT (1920)	proven by the present	t be assessed, or tumor ce of malignant cells in rashings but not visualized oscopy	□ T0 No evidence of primary tumor	☐ Tis Carcinoma in situ; squ carcinoma in situ (SCi Adenocarcinoma in sit adenocarcinoma with pattern, ≤3 cm in grea	IS); tu (AIS): pure lepidic
		cm in greatest dimension) epidic pattern and <5 mm	☐ T1a Tumor ≤1 cm in greates superficial, spreading turn whose invasive componing bronchial wall and may easily the main bronchus also T1a, but these tumors as	t dimension. A Tu mor of any size cm ent is limited to the din extend proximal to is classified as	T1b mor > 1 cm but ≤ 2 n in greatest nension
	☐ T1c Tumor > 2 cm but ≤ 3 cm in greatest dimension	□ T2a Tumor > 3 cm but \leq 4 cm a following features: 1. involv the carina, 2. but without in (PL1 or PL2); 3. associated extends to the hilar region,	es the main bronchus reg volvement of the carina; i I with atelectasis or obstru	nardless of distance to nvades visceral pleura uctive pneumonitis that	☐ T2b Tumor > 4 cm but ≤ 5 cm at greatest dimension
	invading any of the fo	cm in greatest dimension of flowing: parietal pleura (PL3, or sulcus tumors), phrenic ne or separate tumor nodule(s) nary), chest more of the fo erve, great vessels, in the esophagus, ve	or tumor of any size inva llowing: diaphragm, medi trachea, recurrent laryng ertebral body, or carina; s n ipsilateral lobe different	iastinum, heart, peal nerve, separate tumor
	If tumor is	T2a or T2b → Visceral Ple	ura Invasion Yes	□ No VisPleuraInv (1930))
	Lung CA Nodes: PathStageLungN (1940)	Regional lymph nodes	□ N0 No regional lymph node metastasis	☐ N1 Metastasis in ipsilat and/or ipsilateral hill intrapulmonary node involvement by dire	ar lymph nodes and es, includes
		Metastasis in ipsilateral	□ N3 Metastasis in contralatera or contralateral scalene o	al mediastinal, contralater	al hilar, ipsilateral
		Multi-station N2 ☐ Yes [ageLungMultiN2 (1950)	□ No		
	Lung CA Metastases: PathStageLungM (1960)	□ M0 No distant metastasis	□ M1 Distant metasta	asis	
	Lung CA Histology: LungCAHist (1970)	□Carcinoma in situ-	☐ Adenocarcinoma	☐ Squamous cell	□ Large cell
		(typic	w Grade Neuroendocrine al carcinoid)	☐ Intermediate grade neuroendocrine, atypic carcinoid	cal 🗆 Mixed
		☐ Other			
		de (well differentiated) stGrade (1980)	□ Intermediate grade	☐ High grade (poorly differentiated)	□ Unknown / Not reported
	Total # of Lymph Nod sampled/harvested:LungCANodes (1990)	9 8	Total # of Nodal Static LungCANodStat (2000	ons sampled/harvested: _	

Lung CA Resection Margins Positive: LungCAPathMarg (2010)	□ Yes □ No	If Yes→ LungCAPath MargPosR (2020)	☐ R1 (microscopic residual tumor present)	☐ R2 (macroscopic (gross) residual tumor present)
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G. Esophageal Cancer						
	Pre-treatment Esophageal cancer staging - to be completed if esophageal cancer suspected, esophagus resection performed. Clinical staging determines the treatment plan.					
	Oone ClinStagDoneEsoph (2030) ☐ Yes ☐ No					
Radiologic / Endo	escopic Staging Procedures					
If Clinical Stagin Done is Yes →	Bronchoscopy					
	ClinStagEsophBronc (2060) Li Yes Li No ClinStagEsophEUS (2090) Li Yes Li No					
Invasive Staging						
	VATS – for staging ClinStagEsophVATS (2100) Endoscopic Mucosal Resection Vas □ No Laparoscopy – for staging ClinStagEsophLap (2110) □ Yes □ No Other: □ Yes □ No					
	ClinStagEsophEMR (2120) Pes No ClinStagEsophOth (2130)					
	Esophageal Tumor: ClinStageEsophT (2150) T0 Tis High grade dysplasia Tumor invades lamina propria, mucosa or submucosa					
	□ T2 □ T3 □ T4 Tumor invades Tumor invades adventitia Tumor invades adjacent structures					
	Clinical Diagnosis of Nodal Involvement: See Yes (N1, N2 or N3) ClinStageEsophNode (2160) Esophageal CA Metastases ClinStageEsophM (2170) M0 No Distant Metastasis M1 Distant Metastasis					
	Tumor Location (check all that apply): Cervical Esophagus (15 - < 20 cm)					

Pathological St	aging - Esophagus							
Esophagus to be Esophageal Can	completed if esophageal cer = Yes) (8 th Edition)	cancer docui	mented <u>ANI</u>	<u>D</u> esopha	ageal r	esection	performed (Pre-Ope	erative Evaluation –
Esophageal Cand	cer Results ClinStageEsop	hResult (2220))					
☐ No cancer foun	d, benign tumor 🔲 🛭	Esophageal ca	ncer presen	nt				
If cancer	Esophageal Tumor: Patl	nStageEsophT	(2230)					
present →	☐ TX Tumor cannot be assesse		T0 o evidence d	of primary	/ tumor	con		efined as malignant cells n by the basement
	☐ T1a Tumor invades lamina pro muscularis mucosa	opria or	□ T1b Tumor ii submuc			□ T2 Tumor in propria	vades muscularis	
	□ T3 Tumor invades adventitia		des pleura, p , diaphragm				invades other adjace s aorta, vertebral bod	
	Esophageal CA Nodes: PathStageEsophN (2240)	□ NX Regional lyi cannot be a		□ N0 No regi metasta		mph node	□ N1 Metastasis	s in 1-2 regional nodes
			tasis in 3-6 ı	regional l	ymph		-	regional lymph nodes
	Esophageal CA Metastas PathStageEsophM (2250		□ M0 No dista	ant metas	stasis		M1 stant metastasis	
	Esoph Histopathologic Ty PathStageEsophH (2260)		□ H1Squar	mous Car	rcinoma	a □ H2	Adenocarcinoma	☐ Other
	Esophageal CA Histologic PathStageEsophG (2270)		☐ GX Grad cannot be assessed	le	□ G1 differe	Well ntiated	☐ G2 Moderately differentiated	☐ G3 Poorly differentiated, undifferentiated
	Total # of Lymph Nodes s EsophCANodes (2280)	ampled/harve	sted:				A Resection Margins F Marg (2290)	Positive: ☐ Yes ☐ No
H. Thymus / Me	diastinal Mass Resection	on						
Pre-Operative	-4h							
Symptomatic mya MyastheniaSympt								
If Yes -	→ Chronic Medical Treatm	ent:	Mestinon TxMestine)		□ Yes □ N	0
			Steroids TxSteroid	ls (2320)			□ Yes □ N	o
			Other Imr Txlmmun			re Therapy <mark>0)</mark>	′ □ Yes □ N	o
Pre-operative ma	nagement				•			
	IVIG IVIG (2		□ Yes □	□ No				
		aphereis aphereis	□ Yes □	□ No				
	wwn: ☐ Yes ☐ No MassS st diameter in mm derived fi			. 000:4401	imaza		mm MassCire (6	2270)
	pproach ThylnitSurgAp (23		ii, coronai oi	Sayıllar	image		mm MassSize (2	2370)
	l Full Sternotomy	oo) □ Clamshel	I or Hemicla	mshell		Transce	rvical	
	Partial Sternotomy	□ Robotic				VATS		
If "Robotic" or "VA	TS" → yRobVATSLoc (2390) Lo	cation: R	ight □ Left	t 🗆 Bi	lateral			
	"Partial Sternotomy", "Robo	tic" or "VATS"	→ Conve	ersion to	open ap	oproach d	uring procedure?	

	ThyConvToOp	nen (2400)	☐ Yes, Planned	☐ Yes, Unplanned	□ No
	my convice,	2011 (2 100)	<u> 100, Панноа</u>	E 100, Onplanio	2110
			If Yes → ThyConvA p (2410)	☐ Sternotomy ☐ Clamshell	☐ Thoracotomy
	resection of functioning phrenic nerve)	□ Yes □ No		
	eResect (2420) Staging PathRptStage (2430)				
athologic	Staging Fathicitize (2400)	☐ Stage II			
called a noni	microscopically encapsulated. Also invasive thymoma. That is, it has not nd the thymus.	The thymo capsule (or thymus) ar tissue or to	ma invades beyond the uter boundary of the old into the nearby fatty of the pleura (outer f the lung). Sometimes	Microscopic Mad	tage IIb rroscopic capsular sion
extends into or upper che	invasion of neighboring organs. The thy the neighboring tissues or organs of the st area, including the pericardium (cove ngs, or the main blood vessels leading i the heart.	lower neck ring of the	☐ Stage IVa Pleural or pericardial dis The thymoma has sprea throughout the pleura ar pericardium.	id widely dissemination Th	e thymoma has
WHO classi	fication (from path report – Thymoma o	nly) Thymom	aType (2440)		
	Гуре A □ Туре AB □ Туре В1	☐ Type	B2		
	Гуре В3 □ Thymic Carcinoma or Ty	rpe C □	Not Thymoma		
	ess of resection (from operative note or oleteness (2450)	pathology re	port) R0	□ R1 □ R2	
Patient alive	e at 30 days post op	No PtAlive3	0Day (2460)		
If Yes →	Post – operative Event (30 day)				
	Myasthenic crisis requiring return to IC	CU or interve	ntion (intubation, plasmapl	heresis) ☐ Yes ☐ No	
	MYAL (2470) Unintentional phrenic nerve palsy PhrenicNervePalsy (2480)			□ Yes □ No	
Patient alive		No PtAlive90	DDay (2490)		
If Yes →	90 Day Post – Operative Variable				
	Adjuvant thoracic radiation				
	ThoracicRadiation (2500)		☐ Yes ☐ No		
	Persistent unintentional phrenic nerve PhrenNrvPalsyPersis (2510)	palsy	☐ Yes ☐ No		
	, ,				
I Trocked	Decetion				
I. Tracheal Pre-Operativ					
	irway AirwayCurr (2520)	П	Native □ Oral ETT □	Trach □ T-Tube	
	neostomy TracheostomyPrior (2530)		es 🗆 No	114611 = 1 1450	
	pation IntubatePrior (2540)		es □ No		
	cheal Resection TrachealResectPrior (25	550) 🗆 Y	es □ No		
Recent Bror BronchInt6W	nchoscopic Intervention (within 6 week /ks (2560)	(s)	☐ Yes ☐ No (includes:	core out, dilation, ablation, stent)
Recurrent n	erves intact RecurrNervesIntact (2570)	□ Yes	□ No □ Unknown		
	If not intact → RecurrNervNotIntact (25)	Which	nerve? □ Right □ Left	□ Both	
Airway man	agement during resection (check all the				
_	table ventilation	VAI	ECMO □ Yes □ No	Jet ventilation ☐ Yes ☐	No
CrossTa VV ECM	ibleVent (2590)		CMO (2600) diopulmonary bypass □	JetVent (2610)	
VVECM			doPulmBypass (2630)		
Incision (che	ack all that apply must have at least one	indicated)			·

TrachIncisCerv (2640)		ull sternotomy □ Yes □ No rachIncisFullStern (2660)				
	TrachIncisClam (2680)					
	_mm (Surgical or pathological meas	surement acceptable)				
TrachealResectLen (2690)	(Gargical of pathological fricat	surement acceptable)				
Cricoid resection required CricoidResect (2700)	□ Yes □ No					
Carinal resection required CarinalResect (2710)	☐ Yes ☐ No					
Pologeo Manouvore						
ReleaseManeuver (2720) If yes →						
ReleaseManeuverT □ Suprahyoid □ S ype (2730)	Suprathyroid Hilar					
Additional Post-Operative Events						
Anastomotic dehiscence requiring drainage	e. revision. stent. tracheostomy. T-tube					
AnastomoticDehiscen (2740)		☐ Yes ☐ No				
Anastomotic stricture requiring intervention AnastomoticStricture (2750)		□ Yes □ No				
Airway obstruction requiring intervention (e AirwayObstruct (2760)	.g., unscheduled bronchoscopy)	□ Yes □ No				
Recurrent nerve palsy NervePalsyRecurr (2770)		□ Right □ Left □ Both □ Neither				
Did the patient leave the hospital with trach	eal appliance? (tracheostomy, T-tube or	☐ Yes ☐ No ☐ Patient Died In Hospital				
stent) TrachealAppliance (2780) At 30 Days Post – Operative Patient is:		· · · · · · · · · · · · · · · · · · ·				
Stent/tube free StentTubeFree30days (279	0) ☐ Yes ☐ No ☐ Patient Died Within	30 Days of Procedure				
At 90 Days Post - Operative Patient is:		•				
Stent/tube free StentTubeFree90days (280	0) ☐ Yes ☐ No ☐ Patient Died Within	90 Days of Procedure				
J. Hiatal Hernia / GERD						
Symptoms Heartburn	Yes □ No Cough	□ Yes □ No				
Heartburn (2810)	Cough					
Regurgitation	Yes □ No Hoarse	eness □ Yes □ No				
Regurgitate (2830) Dysphagia	Yes □ No Sore th	e <mark>(2840)</mark> nroat □ Yes □ No				
Dysphagia (2850)	SoreTh	roat (2860)				
Epigastric/chest pain Ephigastric (2870)	Yes □ No Asthma Asthma	a □ Yes □ No a (2880)				
Early satiety	Yes □ No Reflux	laryngitis ☐ Yes ☐ No				
EarlySatiety (2890)		_aryngitis (2900)				
Anemia Anemia (2910)	Yes □ No					
PPIs						
PPI use ☐ Yes ☐ No	PPI relief If Yes → PPIRelief □ Comple	ete □ Partial □ No				
PPIUse (2920)	(2930)	oo arana ano				
EGD						
Esophagitis ☐ Yes ☐ No If Yes →	LA Grade: LAGrade (2950) □ A □	IB C D				
(2940) Barrett's metaplasia		Yes, with high grade dysplasia ☐ No				
MetaplasiaBarrett (2960)	Tes, with low grade dyspiasia	Tes, with high grade dyspiasia				
pH Testing pHTest (2970) □ Yes □ No If Yes ↓	Manometry					
DeMeester score	Manometry	Motility:				
DeMeesterScore (2980)		Motility ☐ normal ☐ decreased ☐ aperistalsis (3000)				
	(2990)	· ,				
LES resting pressure RestPressure						
Imaging	If Voc.					
Imaging performed ImagePerform (3030) ☐ Yes ☐ No	If Yes → Type of imaging ImageType (3040)	□ bariums swallow/ upper GI □ CT Scan □ CXR				

Hiatal hernia size (HerniaSize (3050)	cm)		Hiatal hernia type: HerniaType (3060)		
Hernia repair stat	us 🗆 Primary r	repair Re-ope		B065)	
If re-operation -	•	oach used in the initia		oic ☐ Laparotomy ☐ Thoracoto	omy ☐ Not documented
Procedure Appro					
	Laparoscopic		Robotic	□ Vaa □ Na	
	GERDAppLapa scopic (3070)	aro □ Yes □ No	GERDAppRob otic (3080)	□ Yes □ No	
	Laparotomy		Thoracotomy		
	GERDAppLapa tomy (3090)	aro □ Yes □ No	GERDAppThor (3100)	□ Yes □ No	
Fundanliastion	torry (3030)		If Yes → Type		
Fundoplication ProcFundoplicate	(3110)	Yes □ No	FundoplicateType (3120)	□ Partial □ Complete	
Gastroplasty	(0400)	Yes □ No			
ProcGastroplasty (•				
ProcMesh (3140)		Yes □ No			
Relaxing incision ProcRelaxIncision	(3150)	Yes □ No			
Is patient alive at	1 month post - C			at 1 year post – Op?	
GERDPtAliveMth (If Yes → 1 Mor	•			(3210) ☐ Yes ☐ No	
	nth Post - Operati graphic recurrence	•		ear Post – Operative Follow Up	
	graphRecurr1Mon			diographic recurrence	☐ Yes ☐ No
(3170			Rac	diographRecurr1Year (3220)	
	tomatic recurrence tomRecurr1Mon	e □ Yes □ No		nptomatic recurrence	□ Yes □ No
(3180		□ 163 □ 140	Syn	nptomRecurr1Year (3230)	□ 163 □ NO
	scopic Intervention nt1Mon (3190)	□ Yes □ No		doscopic Intervention doInt1Year (3240)	☐ Yes ☐ No
	Operation	Yes □ No		do operation	☐ Yes ☐ No
Redou	Operate1Mon (320	10)	Rec	doOperate1Year (3250)	
K. Disposition					
Patient Disposition	on:	□ ICU	□ Intermediate Care	Unit ☐ Regular F	Floor Bed
PatDisp (3260)		• •	le (Expired in OR)	☐ Outpatient or Observation St	tatus
ICU Admit this adr	nission:	☐ No ICUVisitInit (3	•		
	Initial ICU Days: _	ICUVisitInitDa			
		l Yes □ No <mark>ICUVisitA</mark> → Additional ICU Day		ve (3300)	
	11 163 -	- Additional ICO Day	5 100 VISITAUUDA)	ys (3300)	
L. Post-Operati	ve Events				
Indicate all advers	e events that occu		f surgery if discharged from	the hospital or those that occur of	luring the same
- annecion regardi		of otory			
	ess of the length o	-	. (. (. 		
Postoperative Ev POEvents (3310)	onte?	of stay. es □ No If Yes, sele	ct all that occurred: ↓		
Postoperative Ev POEvents (3310)	ents?	es □ No If Yes, selec	ct all that occurred: ↓ procedure? □ Yes □ No	PostOpInvProc (3330)	
Postoperative Ev POEvents (3310)	Unanticipated po	es No If Yes, selectors of the select	· · · · · · · · · · · · · · · · · · ·		
Postoperative Ev POEvents (3310)	Unanticipated post-operative	es □ No If Yes, selectorst-operative invasive Primary Reason for P	procedure? ☐ Yes ☐ No	340)	bectomy for torsion
Postoperative Ev POEvents (3310)	Unanticipated post-operative invasive procedure→	es □ No If Yes, selectost-operative invasive Primary Reason for P □ Bleeding □ E	procedure? ☐ Yes ☐ No	340) □ Empyema □ Middle lo	bectomy for torsion
Postoperative Ev POEvents (3310)	Unanticipated post-operative invasive procedure→	es □ No If Yes, selectost-operative invasive Primary Reason for P □ Bleeding □ E	procedure? □ Yes □ No rocedure: ReturnORRsn (3: Bronchopleural Fistula	340) □ Empyema □ Middle lo	bectomy for torsion
Postoperative Ev POEvents (3310)	Unanticipated post-operative invasive procedure→	es No If Yes, selectost-operative invasive Primary Reason for P Bleeding Conduit necrosis/fa Anastomotic leak following esophageal	procedure? Yes No rocedure: ReturnORRsn (3: Bronchopleural Fistula illure following esophageal	340) □ Empyema □ Middle losurgery □ Other Surgical drainage and repai	r
Postoperative Ev POEvents (3310)	Unanticipated post-operative invasive procedure→	es No If Yes, selectost-operative invasive Primary Reason for P Bleeding Conduit necrosis/fa Anastomotic leak following esophageal surgery	procedure? □ Yes □ No rocedure: ReturnORRsn (3: Bronchopleural Fistula	340) □ Empyema □ Middle losurgery □ Other	r
Postoperative Ev POEvents (3310)	Unanticipated post-operative invasive procedure→	es No If Yes, selectost-operative invasive Primary Reason for P Bleeding Conduit necrosis/fa Anastomotic leak following esophageal	procedure? Yes No rocedure: ReturnORRsn (3: Bronchopleural Fistula illure following esophageal	340) □ Empyema □ Middle losurgery □ Other Surgical drainage and repai	r □ Yes □ No
Postoperative Ev POEvents (3310)	Unanticipated post-operative invasive procedure→	es No If Yes, selectost-operative invasive Primary Reason for P Bleeding Conduit necrosis/fa Anastomotic leak following esophageal surgery	procedure? Yes No rocedure: ReturnORRsn (3: Bronchopleural Fistula illure following esophageal	340) □ Empyema □ Middle losurgery □ Other □ Surgical drainage and repaire PosOpProcALRepair (3360)	r

ΔÝe	othorax Present es □ No If Yes → oPres (3390)	Chylothorax req. surgical ligation of thoracic duct ☐ Yes ☐ No PosOpProcChylotho (3400)				
Grigien res (esses)		If No → Thoracic duct embolization attempted ☐ Yes ☐ No PosOpProcEmboli (3410)				
			/as Thoracic duct occDuctSucc (3420	embolization successful?	☐ Yes ☐ No	
		Pulmonary				
Air leak > 5 days duration AirLeak5 (3430)	□ Yes □ No	Atelectasis req. bronchoscopy Atelectasis (3440)	□ Yes □ No	Pleural Effusion req. drainage CPIEff (3450)	□ Yes □ No	
Pneumonia Pneumonia (3460)	□ Yes □ No	Acute Respiratory Distress Syndrome (ARDS) ARDS (3470)	□ Yes □ No	Respiratory Failure RespFail (3480)	□ Yes □ No	
Bronchopleural Fistula Bronchopleural (3490)	□ Yes □ No	Pulmonary Embolus PE (3500)	□ Yes □ No	Pneumothorax req. CT reinsertion Pneumo (3510)	□ Yes □ No	
Initial Vent Support > 48 Hr Vent (3520)	□ Yes □ No	Tracheostomy Trach (3530)	□ Yes □ No	Other Pulmonary Event OtherPul (3550)	□ Yes □ No	
		Cardiova	scular			
Atrial arrhythmia req treatment AtrialArryth (3560)	. □ Yes □ No	Ventricular arrhythmi req. treatment VentArryth (3570)	a □ Yes □ No	Myocardial infarct MI (3580)	□ Yes □ No	
Deep venous thrombosis (DVT) req. treatment DVT (3590)	□ Yes □ No	Other CV event Other CV (3600)	□ Yes □ No			
		Gastroint				
Ileus Ileus (3610)	□ Yes □ No	Anastomotic leak requiring medical treatment only AnastoMed (3620)	□ Yes □ No	Dilation esophagus DilationEsoph (3630)	□ Yes □ No	
Conduit Necrosis Requiring Surgery CondNecSurg (3640)	□ Yes □ No	Delayed conduit emp	r maintenance of I	ervention (pyloric NG drainage > 7days	□ Yes □ No	
Clostridium Difficile infection CDiff (3660)	□ Yes □ No	Other GI event OtherGI (3670)	□ Yes □ No			
		Hemato	ology			
Packed red blood cells PostopPRBC (3680)	□ Yes □ No	*transfusions docum include bl	ented here do no ood given in OR*	_		
		Urolo	<u> </u>			
Urinary tract infection UTI (3700)	□ Yes □ No	Urinary retention req. Catheterization UrinRetent (3710)	□ Yes □ No	Discharged with Foley catheter DischFoley (3720)	□ Yes □ No	
		Infect				
Empyema req. treatment Empyema (3730)	□ Yes □ No	Surgical Site Infect SurgSiteInfect (37		☐ Superficial ☐ Despace	еер	
Sepsis (3750)	□ Yes □ No	Another infection of OtherInfect (3760)		☐ Yes ☐ No		
		Neurol	ogy			

	New central neurological event CentNeuroEvt (3770)	□ Yes □ No	Recurrent laryngeal nerve paresis -unexpected LaryngealNerve (3780)	□ Yes □ No			
	Delirium Delirium (3790)	□ Yes □ No	Other neurological event OtherNeuro (3800)	☐ Yes ☐ No			
	Zemam (er ee)		Miscellaneous				
	New renal failure per RIFLE criteri RenFailRIFLE (3810)	a □ Yes □ N	No Chylothorax req. m	nedical intervention ☐ Yes ☐ No			
	Other events req. OR with gen. anesthesia OtherSurg (3830)	□ Yes □ N	Vo Unexpected Admis UnexpectAdmitICL				
M. Discharge							
Patient is still in the	e hospital □ Yes □ No StillInHosp	(3860)					
If No →	Date of Discharge: DischDt (3	870)/_					
	Discharge Status: MtDCStat (3880) □ Alive	□ Dead				
	If Discharged Alive →						
	Discharge location: DisLoctn (3890)	Home	☐ Extended Care/Transit	ional Care Unit /Rehab			
		Other Hospital	□ Nursing Home □	Hospice ☐ Other			
	Discharged with chest tube: CTubeDis (3900)		□ Yes □ No				
	Discharged with home O2 (new; n	ot using O2 pre-o	p) □ Yes □ No				
	DischHomeO2 (3910) If Yes → On O2 at 30 days postoperative? □ Yes □ No □ Unknown □ Patient Died Within 30 Days Post Op OnOxygen30DayPOp (3920)						
	Readmit to any hospital within 30 Readm30Dis (3930)	days of discharge	☐ Yes ☐ NO ☐ ONKIC	own			
	If Yes → Readmission re Readm30DisRel (3940)	elated to operative	procedure? ☐ Yes ☐ N	o 🗆 Unknown			
Status at 30 days	after surgery: Mt30Stat (3950)		☐ Alive ☐ Dead ☐ Unk	nown			
N. Fallandla							
N. Follow Up Date of Last Follow	v-Up: / /						
LFUDate (3960)	•						
Mortality Status at LFUMortStat (397)		□ Dead					
Mortality Date:							
MortDate (3980)							
O. Quality Mea		ingialoni					
IVAntibioOrdered (incision: \square Ye	es 🗆 No	☐ Not indicated for procedure			
IV antibiotics giver IVAntibioGiven (40	n within 1 hour before incision: 1 <mark>000</mark>)	□ Ye	es 🗆 No	☐ Not indicated for procedure			
Cephalosporin Ant		No □ Not indi		Documented allergy or indication for erapeutic substitution			
Prophylactic Antibi Ordered within 24 AntibioticDiscOrde		□ No I	☐ Not indicated for procedure	□ No, due to documented infection			
Smoking Cessatio SmokCoun (4030)		□ No □ Pa	atient refused Nonsmoke	er			
DVT Prophylaxis N		□ No □ No	ot applicable				
	/						