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| **The Society of Thoracic Surgeons** |
| **General Thoracic Surgery Database** **Analyzed Procedure Data Collection Form** |
| **Version 2.41** |
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| **Revised 5/31/2018** |

* 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 underlined and in blue are required for analyzed procedure 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 analyzed (major) procedures should be included on this Analyzed Procedure DCF.

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| **A. Demographics** |
| Patient ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PatID (80) |  | Medical Record #:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MedRecN (90) |
| First Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PatFName (100) | Middle Name:\_\_\_\_\_\_\_\_\_\_\_\_PatMName(110) | Last Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PatLName (120) | SSN#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SSN (130) |
| Patient participating in STS-related clinical trial: ClinTrial (140)🞎 None 🞎 Trial 1 🞎 Trial 2 🞎 Trial 3 🞎 Trial 4 🞎 Trial 5 🞎 Trial 6 (If not “None” →) Clinical trial patient ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ClinTrialPatID (150) |
| Date of Birth:\_\_\_\_/\_\_\_\_/\_\_\_\_\_\_DOB (160) (mm/dd/yyyy)  | **Age:** \_\_\_\_\_\_\_\_Age (170) | Patient Postal Code:\_\_\_\_\_\_\_\_\_PostalCode (180) | **Gender:** 🞎 Male 🞎 Female Gender (190) |
| **Is the Patient's Race Documented**? 􀀀 Yes 􀀀 No 􀀀 Patient Declined to Disclose RaceDocumented (200) |
| **Race**: *If Yes select all that apply* | White/Caucasian 🞎 Yes 🞎 NoRaceCaucasian (210) | Black/African American 🞎 Yes 🞎 NoRaceBlack (220) |
|  | Asian 🞎 Yes 🞎 NoRaceAsian (230) | American Indian/Alaskan Native 🞎 Yes 🞎 NoRaceNativeAm (240) |
|  | Native Hawaiian/Pacific Islander 🞎 Yes 🞎 No RacNativePacific (250) | Other 🞎 Yes 🞎 NoRaceOther (260) |
| Hispanic or Latino Ethnicity: 🞎 Yes 🞎 No 🞎 Not Documented Ethnicity (270) |

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| **B. Admission** |
| **Admission Status:** 🞎 Inpatient 🞎 Outpatient / ObservationAdmissionStat (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🞎 Medicare  *If Medicare →* Fee For Service: 🞎 Yes 🞎 No PrimMCareFFS (310) 🞎 Medicaid🞎 Military Health🞎 Indian Health Service🞎 Correctional Facility🞎 State Specific Plan🞎 Other Government Insurance🞎 Commercial Health Insurance🞎 Health Maintenance Organization🞎 Non U.S. Plan | 🞎 None/self🞎 Medicare  *If Medicare →* Fee For Service: 🞎 Yes 🞎 No SecondMCareFFS (330)🞎 Medicaid🞎 Military Health🞎 Indian Health Service🞎 Correctional Facility🞎 State Specific Plan🞎 Other Government Insurance🞎 Commercial Health Insurance🞎 Health Maintenance Organization🞎 Non U.S. Plan |
| Surgeon Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Surgeon (340) | **Surgeon’s National Provider ID:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_SurgNPI (350) |
| **Taxpayer ID#:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_TIN (360) | Hospital Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_HospName (370) |
| Hospital Postal Code:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_HospZIP (380) | Hospital Region:\_\_\_\_\_\_\_\_ HospStat (390) | Hospital’s National Provider ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HospNPI (400) |
| **C. Pre-Operative Evaluation** |
| Height: \_\_\_\_\_\_\_\_\_\_\_(cm) HeightCm (410) | Weight: \_\_\_\_\_\_\_\_\_\_(kg) WeightKg (420) |
| Unintentional Wt loss over past 3 months?  *(Enter “0” if none) -* \_\_\_\_\_\_\_\_\_\_\_\_\_(kg) WtLoss3Kg (430)  |  |
| **CardioPulmonary History** |
|  Hypertension Hypertn (440)  | 🞎 Yes 🞎 No | Congestive Heart Failure(CHF) CHF (450) | 🞎 Yes 🞎 No | *If Yes→* EF \_\_\_\_\_\_% EF (460) |
| Coronary Artery Disease (CAD) CAD (470) | 🞎 Yes 🞎 No | Myocardial Infarction | 🞎 Yes 🞎 No PreMI (480) |
| Afib per EKG within the last year; with or without treatment AFIB (490) | 🞎 Yes 🞎 No  | Valvular Heart Disease VHD (500) | 🞎 Yes 🞎 No *If Yes→* | Location *– check all that apply:* |
| AV 🞎 Yes 🞎 No VHDLocAV (510)MV 🞎 Yes 🞎 No VHDLocMV (520) | PV 🞎 Yes 🞎 No VHDLocPV (530)TV 🞎 Yes 🞎 No VHDLocTV (540) |
| Pulmonary Hypertension: PulmHypertn (550) | 🞎 Yes 🞎 No | 🞎 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) | 🞎 No CVD history | 🞎 Known disease, no events | 🞎 Transient Ischemic Attack (TIA) |
|  🞎 Cerebrovascular Accident (CVA) |  *If CVA→* Permanent Neurologic impairment 🞎 Yes 🞎 No  PNI (620) |
| **Neuromuscular Disease** |
| Neurologic symptoms present NeuroSymptPres (630) | 🞎 Yes 🞎 No |
| Myasthenia Gravis MyasGravis (640) | 🞎 Yes 🞎 No |
| **Endocrine / GI / Renal History** |  |
| Diabetes Diabetes (650) | 🞎 Yes 🞎 No | *If Yes→* Type of therapy:DiabCtrl (660)  | 🞎 None 🞎 Diet Only 🞎Oral 🞎 Insulin 🞎 Other Subcutaneous Medication 🞎 Other 🞎Unknown |
| Liver Dysfunction LiverDys (670) | 🞎 Yes 🞎 No  |
| On DialysisDialysis (680) | 🞎 Yes 🞎 No  |
| **Cancer History** |  |
| Coexisting Cancer CoexisCancer (690) | 🞎 Yes 🞎 No |
| Preoperative Chemotherapy / Immunotherapy PreopChemoCur (700)  | 🞎 Yes 🞎 No *If Yes →*  | 🞎 Same disease, ≤ 6 months PreopChemoCurWhen (710)🞎 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 PriorCTS (750) | 🞎 Yes 🞎 No *If Yes →* Sternotomy 🞎 Yes 🞎 No PriorStern (760) |
|  *(check all that apply)* |  | VATS/Robotic 🞎 Yes 🞎 No PriorVATS (770) *If Yes →* 🞎 Right 🞎 Left 🞎 Bilateral  PriorVATSLoc (780) |
|  | 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 Medication History** |  |
| Chronic Immunosuppressive Therapy PreOpImmunoThx (830) | 🞎 Yes 🞎 No |
| Chronic anticoagulation PreOpAnticoagThx (840) | 🞎 Yes 🞎 No (defined as any anticoagulation medication other than ASA) |
| Home O2 PreOpHomeO2 (850) 🞎 Yes 🞎 No |  |

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| **Pre-Operative Testing** |  |
| Creatinine level measured CreatMeasured (870) | 🞎 Yes 🞎 No | *If Yes →* Last creatinine level \_\_\_\_\_\_\_\_ CreatLst (880) |
| Hemoglobin level measured HemoglobinMeasured (890) | 🞎 Yes 🞎 No | *If Yes →* Last hemoglobin level \_\_\_\_\_\_\_ HemoglobinLst (900) |
| **Pulmonary Function Tests performed?** PFT (910) | 🞎 Yes 🞎 No |
|  *If No* →  | PFT Not Performed Reason PFTNotPerReas(920) | 🞎 Not a Major Lung Resection🞎 Tracheostomy or Ventilator | 🞎 Never smoked, no lung disease🞎 Urgent or Emergent Status | 🞎 Pt. Unable to perform |
|  *If Yes* → | **FEV1 test performed?**FEV (930) | 🞎 Yes 🞎 No 🞎 Not Applicable | *If Yes→* **FEV1 % predicted:**  **\_\_\_\_\_\_\_\_\_** FEVPred (940) |
|  | DLCO test performed?DLCO (950) | 🞎 Yes 🞎 No 🞎 Not Applicable | *If Yes→* DLCO % predicted: \_\_\_\_\_\_\_\_\_\_ DLCOPred (960) |
| **Psychosocial History** |
| **Cigarette smoking:**CigSmoking (970) | 🞎 Never smoked | 🞎 Past smoker (stopped >1 month prior to operation | 🞎 Current smoker | 🞎 Unknown |  |
| *If ‘Past smoker’ or ‘Current Smoker’* → | Pack Year Known or can be estimated PackYearKnown (980) | 🞎 Yes 🞎 No | *If Yes →* Pack-Years \_\_\_\_\_\_\_\_\_PackYear (990) |
| Narcotic dependency 🞎 Yes 🞎 No NarcoticDepend (1000) | Alcohol Abuse 🞎 Yes 🞎 No AlcoholAbuse (1010) |
| Dementia/neurocognitive dysfunction DemNeroDys (1020) | 🞎 Yes 🞎 No |
| Major Psychiatric Disorder PsychDisorder (1030) | 🞎 Yes 🞎 No |
| Living Status: LiveStat (1040) | 🞎 Lives alone | 🞎 Lives withfamily or friend | 🞎 Assisted Living | 🞎 Nursing Home |
| Functional Status: FuncStat (1050) | 🞎 Independent | 🞎 Partially Dependent | 🞎 Totally Dependent | 🞎 Unknown |
| **ECOG Score:** ECOGScore (1070) | 🞎 0 - Fully active, able to carry on all pre-disease performance without restriction | 🞎 1 - Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g., light house work, office work | 🞎 2 - Ambulatory and capable of all self-care but unable to carry out any work activities. Up and about morethan 50% of waking hours |
| 🞎 3 - Capable of only limited self-care, confined to bed or chair more than 50% of waking hours | 🞎 4 - Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair | 🞎 5 - Dead |

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| **D. Diagnosis (Category of Disease)** |
| **Category of Disease**: Check both **Primary** and **Secondary** Diagnosis (Category of Disease) **(ICD-9, ICD-10)**. Indicate (circle) the Primary Diagnosis. CategoryPrim (1250) CategorySecond (1280) |
| **Note: Diagnosis is based on final pathology report.** |
| 🞎 No Secondary Diagnosis *(for Category of Disease - Secondary field only)* |
| **Lung Cancer** |
| 🞎 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 / Mediastinal 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) |
| **Trachea**  |
| 🞎 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) |  |
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| **Cardiovascular** |
| 🞎 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 Wall** |
| 🞎 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) |  |
| **Diaphragm** |
| 🞎 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 – 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) |  |
| **Mediastinum** |
| 🞎 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) |
| **Pleura** |
| 🞎 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) |  |
| **Thyroid** |
| 🞎 Goiter, nodular (241.9, E04.9) | 🞎 Thyroid neoplasm, malignant (193.0, C73) |
| 🞎 Thyroid neoplasm, benign (226.0, D34) |  |
| **Trachea & Larynx** |
| 🞎 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) |  |
| **Trauma** |
| 🞎 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) |
| **Miscellaneous** |
| 🞎 Abnormal radiologic finding (793.1, R91) | 🞎 Other non-infectious disorders of lymphatic channels (457.8, I89.8) |
| 🞎 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, surgical wound (998.31, T81.32XA) | 🞎 Non-healing surgical wound (998.83, T81.89XA) |
| 🞎 Hemorrhage complicating a procedure (998.11, multiple codes) | 🞎 Other post- op infection (998.59, T81.4XXA) |
| 🞎 Hematoma complicating a procedure (998.12, multiple codes) | 🞎 Persistent post-op fistula not otherwise classified (998.6, T81.83XA) |
| 🞎 Hemoptysis unspecified (786.3, R04.2) | 🞎 Post-operative air leak (512.2, J95.812) |
| 🞎 Hyperhidrosis, focal axilla (705.21, L74.510) | 🞎 Secondary malignant neoplasm of other specified sites (198.89, C79.89) |
| 🞎 Hyperhidrosis, focal, face (705.21, L74.511) | 🞎 Shortness of breath (786.05, R06.02) |
| 🞎 Hyperhidrosis, focal, palms (705.21, L74.512) | 🞎 Swelling, mass or lump in chest (786.6, R22.2) |
| 🞎 Lymphadenopathy (785.6, R59.9) | 🞎 Other unlisted category of disease |
|  |
| Other Primary Specify: CategoryPrimOth (1260) | If diagnosis not listed, free text here:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Other Primary ICD:CategoryPrimOthICD (1270) | Enter ICD-9 or ICD-10 of unlisted primary diagnosis, if known:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Secondary, Other Secondary Specify:CategorySecondOth (1290) | If secondary diagnosis not listed, free text here:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Secondary, Other Secondary ICD:CategorySecondOthICD (1300) | Enter ICD-9 or ICD-10 of unlisted secondary diagnosis, if known :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| **E. Operative** |
| **Date of Surgery**:\_\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_\_ SurgDt (1310) |
| **OR Entry Time**: \_\_\_\_\_\_:\_\_\_\_\_\_\_ OREntryT (1320) | Anesthesia Start Time: \_\_\_\_\_\_:\_\_\_\_\_\_\_ AnesthStartT (1340) | **Procedure Start Time**: \_\_\_\_\_\_:\_\_\_\_\_\_\_ ProcStartT (1360) |
| **OR Exit Time:** \_\_\_\_\_\_:\_\_\_\_\_\_\_ ORExitT (1330) | Anesthesia End Time: \_\_\_\_\_\_\_:\_\_\_\_\_\_\_ AnesthEndT (1350) | **Procedure End Time:** \_\_\_\_\_\_\_:\_\_\_\_\_\_\_ ProcEndT (1370) |
| Multi-Day Operation (operation continued through midnight) MultiDay (1380) | 🞎 Yes 🞎 No |
| Planned, staged procedure? PlanStageProc (1390) | 🞎 Yes 🞎 No |
| Status of Operation Status (1400) | 🞎 Emergent 🞎 Urgent 🞎 Elective 🞎 Palliative |
| Reoperation (*any prior cardiothoracic surgery that affects operative field*) Reop (1410) | 🞎 Yes 🞎 No | Assisted by Robotic Technology Robotic (1420) | 🞎 Yes 🞎 No |
| **Surgical Approach Conversion:** UnanticConv (1430) | 🞎 VATS→ Open 🞎 Robotic → VATS 🞎 Robotic→ Open 🞎 No |
| *If Yes→* | Conversion Type: 🞎 Elective 🞎 Emergent UnanticConvTy (1440) |
| Conversion Reason: 🞎 Vascular 🞎 Anatomy 🞎 Lymph Nodes 🞎 Technical UnanticConvRsn (1450) |
| Blood transfusion intraoperatively (packed red blood cells) IntraopPRBC (1460) | 🞎 Yes 🞎 No | *If Yes*→ #Red Blood Cell Units: \_\_\_\_\_\_\_\_\_ IntraopPRBCNum (1470) |
| **ASA Classification:** ASA (1480) | 🞎 I *Normal, healthy*  | 🞎 II*Mild systemic disease* | 🞎 III*Severe systemic disease*  | 🞎 IV*Life threatening severe systemic disease*  | 🞎 V*Moribund, not expected to survive without operation* | 🞎 VI*Declared brain dead, organ donor* |
|  |
| **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 Resection** |
| 🞎 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 (McKeown) (43288) |
| 🞎 Ivor Lewis-Partial esophagectomy, distal two-thirds, with thoracotomy and separate abdominal incision (43117) | 🞎 Minimally invasive esophagectomy, Ivor Lewis approach (43287) |
| 🞎 Partial esophagectomy, with thoracotomy and separate abdominal incision with colon interposition or small intestine (43118) | 🞎 Minimally invasive esophagectomy, Abdominal and neck approach (43286) |
| **Hiatal Hernia / GERD 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 Resection** |
| 🞎 Carinal reconstruction (31766) | 🞎 Tracheal tumor or carcinoma excision; cervical (31785) |
| 🞎 Excision tracheal stenosis, cervical (31780) | 🞎 Tracheal tumor or carcinoma excision; thoracic (31786) |
| 🞎 Excision tracheal stenosis, thoracic (31781) |  |
| **Thymus / Mediastinal Mass Resection** |
| 🞎 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) |
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|  |
| **Non-analyzed Procedures** |
| **Trachea, Bronchi, 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 |
| **Bronchoscopy** |
| 🞎 Tracheobronchoscopy through established tracheostomy incision (31615) | 🞎 Bronchoscopy, with transbronchial lung biopsy(s), each additional lobe (31632) |
| 🞎 Endobronchial ultrasound (EBUS) during bronchoscopy diagnostic or therapeutic intervention(s) (31620) | 🞎 Bronchoscopy, with transbronchial needle aspiration biopsy(s), 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 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 and 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** |
| 🞎 Esophagoscopy (43200) | 🞎 Upper gastrointestinal endoscopy with endoscopic ultrasound examination limited to the esophagus (43237) |
| 🞎 Esophagoscopy with biopsy (43202) | 🞎 Upper gastrointestinal endoscopy with transendoscopic ultrasound-guided FNA (43238) |
| 🞎 Esophagoscopy with removal of foreign body (43215) | 🞎 Upper gastrointestinal endoscopy with biopsy (43239) |
| 🞎 Esophagoscopy with insertion of stent (43219) | 🞎 Upper gastrointestinal endoscopy with dilation of gastric outlet for obstruction (43245) |
| 🞎 Esophagoscopy with balloon dilation (43220) | 🞎 Upper gastrointestinal endoscopy with directed placement of percutaneous gastrostomy tube (43246) |
| 🞎 Esophagoscopy with insertion of guide wire followed by dilation over guide wire (43226) | 🞎 Upper gastrointestinal endoscopy with removal of foreign body (43247) |
| 🞎 Esophagoscopy with ablation of tumor (43228) | 🞎 Upper gastrointestinal endoscopy with insertion of guide wire followed by dilation of esophagus (43248) |
| 🞎 Esophagoscopy with endoscopic ultrasound examination (EUS) (43231) | 🞎 Upper gastrointestinal endoscopy with balloon dilation of esophagus (43249) |
| 🞎 Esophagoscopy with transendoscopic ultrasound-guided fine needle aspiration (43232) | 🞎 Upper gastrointestinal endoscopy with transendoscopic stent placement (43256) |
| 🞎 Upper gastrointestinal endoscopy, diagnostic (43235) | 🞎 Upper gastrointestinal endoscopy with ablation of tumor (43258) |
| **Esophagus Other Procedures** |
| 🞎 Thoracoscopy, surgical; with esophagomyotomy (Heller type) (32665) | 🞎 Esophagostomy, fistulization of esophagus, external; cervical approach (43352) |
| 🞎 Cricopharyngeal myotomy (43030) | 🞎 Gastrointestinal reconstruction for previous esophagectomy with stomach (43360) |
| 🞎 Excision esophageal lesion with primary repair, cervical approach (43100) | 🞎 Gastrointestinal reconstruction for previous esophagectomy with colon interposition or small intestine (43361) |
| 🞎 Excision Esophageal lesion with primary repair, thoracic approach (eg: leiomyoma) (43101) | 🞎 Suture of esophageal wound or injury; cervical approach (43410) |
| 🞎 Diverticulectomy of hypopharynx or esophagus, with or without myotomy; cervical approach (43130) | 🞎 Suture of esophageal wound or injury; transthoracic or transabdominal approach (43415) |
| 🞎 Diverticulectomy of esophagus, with or without myotomy; thoracic approach (43135) | 🞎 Closure of esophagostomy or fistula; cervical approach (43420) |
| 🞎 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) |
| 🞎 Esophagoplasty with repair TEF, thoracic approach (43312) | 🞎 Trans oral fundoplication |
| 🞎 Esophagomyotomy (Heller type); thoracic approach (43331) | 🞎 Esophageal lengthening procedure - open (Collis) Secondary Procedure code (43338) |
| 🞎 Free jejunum transfer with microvascular anastomosis (43496) | 🞎 Ligation or stapling at gastroesophageal junction for esophageal perforation (43405) |
| 🞎 Unlisted procedure, esophagus (43499) |  |
| **Chest Wall and Neck** |
| 🞎 Muscle flap, neck (15732) | 🞎 Radical resection of sternum (21630) |
| 🞎 Muscle flap; trunk (i.e., intercostal, pectoralis or serratus muscle) (15734) | 🞎 Radical resection of sternum; with mediastinal lymphadenectomy (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) | 🞎 Division of scalenus anticus; without resection of cervical rib (21700) |
| 🞎 Excision tumor, soft tissue of neck or thorax; subcutaneous (21555) | 🞎 Division of scalenus anticus; with resection of cervical rib (21705) |
| 🞎 Excision tumor, soft tissue of neck or thorax; deep, subfascial, intramuscular (21556) | 🞎 Reconstructive repair of pectus excavatum or carinatum; open (21740) |
| 🞎 Radical resection of tumor (e.g., malignant neoplasm), soft tissue of neck or thorax (21557) | 🞎 Reconstructive repair of pectus, minimally invasive approach (Nuss procedure), without thoracoscopy (21742) |
| 🞎 Excision of rib, partial (21600) | 🞎 Open treatment of sternum fracture with or without skeletal fixation (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) |
| **Miscellaneous** |
| 🞎 Thoracoscopy, diagnostic pericardial sac, with biopsy (32604) | 🞎 SVC resection and reconstruction (34502) |
| 🞎 Thoracoscopy, surgical; with removal of clot or foreign body from pericardial sac (32658) | 🞎 Ligation thoracic duct (38381) |
| 🞎 Thoracoscopy, surgical; with creation of pericardial window or partial resection of pericardial sac for drainage (32659) | 🞎 Intraoperative jejunostomy (44015) |
| 🞎 Thoracoscopy, surgical; with total pericardiectomy (32660) | 🞎 Omental flap (49904) |
| 🞎 Thoracoscopy, surgical; with excision of pericardial cyst, tumor, or mass (32661) | 🞎 Transthoracic thyroidectomy (60270) |
| 🞎 Thoracoscopy, surgical; with thoracic sympathectomy (32664) | 🞎 Removal substernal thyroid, cervical approach (60271) |
| 🞎 Stereotactic radiosurgery (SRS) and stereotactic body radiotherapy (SBRT),surgeon participation (32701) | 🞎 Application of wound vac (97605, 97606) |
| 🞎 Tube pericardiostomy (33015) | 🞎 Pericardial window (33025) |
| 🞎 Other Minor Procedure | 🞎 Other |
|  |
| Enter Name of unlisted Procedure(s): ProcOth (1510) |
| Enter 5 digit CPT code(s) of unlisted procedure, if known:ProcOthCPT (1520) |

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| --- | --- | --- |
| **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 Mass Resection?** ThymusMediastinalData (1600) | 🞎 Yes 🞎 No  | *if yes, complete Section H*  |
| **Are you collecting data for Tracheal Resection?** TrachealData (1610) | 🞎 Yes 🞎 No  | *if yes, complete Section I*  |
| **Are you collecting data for Hiatal Hernia / GERD?** HiatalHerniaData (1620) | 🞎 Yes 🞎 No  | *if yes, complete Section J*  |
| **F. Lung Cancer**  |
| ***Diagnosis:*** |
| Was there a pathological diagnosis of lung cancer prior to the lung resection? (*yes: lung cancer was diagnosed preoperatively; no: lung cancer was only suspected preoperatively)* LungCancerSus (1630) | 🞎 Yes 🞎 No |
| How was lung cancer diagnosed?  |
| Bronchoscopy ClinStagLungBronc (1640) | 🞎 Yes 🞎 No | Needle Biopsy Attempted or Completed ClinStagLungNeedle (1650) | 🞎 Yes 🞎 No |
| ***Clinical Staging: Pre-treatment Lung cancer staging- to be completed if lung cancer suspected or documented AND lung resection performed. Clinical staging determines the treatment plan.*** |
| **Clinical Staging Done** ClinStagDoneLung (1660) | 🞎 Yes 🞎 No  |
| *If Yes→* | Pre-Op Positive Tissue diagnosis Obtained PreopPosTisOb (1670) | 🞎 Yes 🞎 No  |
| **Clinical Staging Methods : *Choose all that apply*** |
| **Radiographic Staging Procedures** |  |  |  |
| PET or PET/CT ClinStagLungPET (1680) | 🞎 Yes 🞎 No | Brain CT Scan ClinStagLungBrainCT (1700) | 🞎 Yes 🞎 No |
| CT ClinStagLungCT (1690) | 🞎 Yes 🞎 No | Brain MRI ClinStagLungBMRI (1710) | 🞎 Yes 🞎 No |
| Was invasive mediastinal staging performed? ClinStagInvasive (1720) | 🞎 Yes, reason documented 🞎 Yes, reason not documented 🞎 No  |
|  *If Documented →* Operative/Clinic Note indicates Invasive Mediastinal Staging performed for the following reasons:  (*check all that apply)* |
|  | Lesion size > 3cm ClinStagInvasiveSize (1730) | 🞎 Yes 🞎 No |
| Mediastinal Lymphadenopathy on CT > 1cm ClinStagInvasiveLymphCT (1740) | 🞎 Yes 🞎 No  |
| Ipsilateral hilar mediastinal node FDG uptake on PET ClinStagInvasiveHilar (1750) | 🞎 Yes 🞎 No  |
| Central Tumor ClinStagInvasiveTumor (1760) | 🞎 Yes 🞎 No |
| Other ClinStagInvasiveOther (1770) | 🞎 Yes 🞎 No  |
| **Mediastinal Tissue Sampling/Staging** |  |  |
| EBUS ClinStagLungEBUS (1780) | 🞎 Yes 🞎 No | VATS ClinStagLungVATS (1790) | 🞎 Yes 🞎 No |
| EUS ClinStagLungEUS (1800) | 🞎 Yes 🞎 No | Other ClinStagLungOth (1810)  | 🞎 Yes 🞎 No |
| Mediastinoscopy/Chamberlain ClinStagLungMedia (1830) | 🞎 Yes 🞎 No |  |  |
| Tumor size known? 🞎 Yes 🞎 No *If Yes ↓* LungCaTumSzKnown (1850) |  |
|  | Lung CA tumor size in cm (the dominanat/most concerning lesion per CT Scan) LungCaTumSz (1860) | \_\_\_\_\_\_\_\_\_\_cm (ex. 2.3cm)  |
| Invasion of Adjacent Structures LCInvAdjStr (1870) | 🞎 Yes 🞎 No |
| Lung CA T Stage (tumor stage) ClinStageLungTumor (1880) | 🞎 Tis | 🞎 T1 | 🞎 T2 | 🞎 T3 | 🞎 T4 |
| Lung CA Nodes: ClinStageLungN (1890) | 🞎 N0*No regional lymph node metastasis* | 🞎 N1*Metastasis in ipsilateral peribronchial or hilar and intrapulmonary nodes. Includes direct extension.* |
|  | 🞎 N2*Metastasis in ipsilateral mediastinal and/or subcarinal lymph nodes* | 🞎 N3*Metastasis in contralateral mediastinal or contralateral hilar nodes, ipsilateral or contralateral scalene or supraclavicular nodes* |
| Lung CA Metastases: ClinStageLungM (1900) | 🞎 M0*No distant metastasis* | 🞎M1*Distant Metastasis* |

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| ***Lung - FINAL Pathological Staging***  |
| ***To be completed if lung cancer suspected or documented AND lung resection performed. (8th Edition)*** |
| **Lung Cancer Results** ClinStageLungResult (1910) |  |
| 🞎 No cancer found, benign tumor | 🞎 Lung Cancer Tumor present: |
| *If Cancer Tumor Present→* PathStageLungT (1920) | 🞎 TX*Primary Tumor cannot be assessed, or tumor proven by the presence of malignant cells in sputum or bronchial washings but not visualized by imaging or bronchoscopy* | 🞎 T0*No evidence of primary tumor* | 🞎 Tis*Carcinoma in situ; squamous cell carcinoma in situ (SCIS); Adenocarcinoma in situ (AIS): adenocarcinoma with pure lepidic pattern, <3 cm in greatest dimension* |
| 🞎 T1mi*Minimally invasive adenocarcinoma: adenocarcinoma (<3 cm in greatest dimension) with a predominantly lepidic pattern and <5 mm invasion in greatest dimension.* | 🞎 T1a*Tumor <1 cm in greatest dimension. A superficial, spreading tumor of any size whose invasive component is limited to the bronchial wall and may extend proximal to the main bronchus also is classified as T1a, but these tumors are uncommon.* | 🞎 T1b*Tumor > 1 cm but < 2 cm in greatest dimension* |
| 🞎 T1c*Tumor > 2 cm but < 3 cm in greatest dimension* | 🞎 T2a*Tumor > 3 cm but < 4 cm at greatest dimension, or having any of the following features: 1. involves the main bronchus regardless of distance to the carina, 2. but without involvement of the carina; invades visceral pleura (PL1 or PL2); 3. associated with atelectasis or obstructive pneumonitis that extends to the hilar region, involving part or all of the lung.*  | 🞎 T2b*Tumor > 4 cm but < 5 cm at greatest dimension* |
| 🞎 T3*Tumor > 5 cm but < 7 cm in greatest dimension or directly invading any of the following: parietal pleura (PL3), chest wall (including superior sulcus tumors), phrenic nerve, parietal pericardium; or separate tumor nodule(s) in the same lobe as the primary* | 🞎 T4*Tumor > 7 cm or tumor of any size invading one or more of the following: diaphragm, mediastinum, heart, great vessels, trachea, recurrent laryngeal nerve, esophagus, vertebral body, or carina; separate tumor nodule(s) in an ipsilateral lobe different from that of the primary* |  |
|  | *If tumor is T2a or T2b →* Visceral Pleura Invasion 🞎 Yes 🞎 No VisPleuraInv (1930) |  |
| Lung CA Nodes: PathStageLungN (1940) | 🞎 NX*Regional lymph nodes cannot be assessed* | 🞎 N0*No regional lymph node metastasis* | 🞎 N1*Metastasis in ipsilateral peribronchial and/or ipsilateral hilar lymph nodes and intrapulmonary nodes, includes involvement by direct extension* |
|  | 🞎 N2*Metastasis in ipsilateral mediastinal and/or subcarinal lymph node(s)* | 🞎 N3*Metastasis in contralateral mediastinal, contralateral hilar, ipsilateral or contralateral scalene or supraclavicular lymph node(s)* |
|  | *If N2 →* Multi-station N2 🞎 Yes 🞎 No PathStageLungMultiN2 (1950) |  |
| Lung CA Metastases: PathStageLungM (1960) | 🞎 M0*No distant metastasis* | 🞎 M1*Distant metastasis* |
| Lung CA Histology: LungCAHist (1970) | 🞎Carcinoma in situ- | 🞎 Adenocarcinoma | 🞎 Squamous cell  | 🞎 Large cell |
|  | 🞎 Small cell | 🞎 Low Grade Neuroendocrine (typical carcinoid) | 🞎 Intermediate grade neuroendocrine, atypical carcinoid | 🞎 Mixed |
|  | 🞎 Other |  |  |  |
| Grade: | 🞎 Low grade (well differentiated) LungCAHistGrade (1980) | 🞎 Intermediate grade | 🞎 High grade (poorly differentiated) | 🞎 Unknown / Not reported |
| Total # of Lymph Nodes sampled/harvested:\_\_\_\_\_\_\_\_\_ LungCANodes (1990) | Total # of Nodal Stations sampled/harvested: \_\_\_\_\_\_\_\_\_\_\_ LungCANodStat (2000) |
| Lung CA Resection Margins Positive: LungCAPathMarg (2010) | 🞎 Yes 🞎 No  |  *If Yes→* LungCAPathMargPosR (2020) | 🞎 R1 *(microscopic residual tumor present)*  | 🞎 R2 *(macroscopic (gross) residual tumor present)* |

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| **G. Esophageal Cancer** |
| ***Clinical Staging: Pre-treatment Esophageal cancer staging - to be completed if esophageal cancer suspected, documented OR esophagus resection performed. Clinical staging determines the treatment plan.*** |
| **Clinical Staging Done** ClinStagDoneEsoph (2030) | 🞎 Yes 🞎 No  |
| **Radiologic / Endoscopic Staging Procedures** |  |
| *If Clinical Staging Done is Yes →* | PET or PET/CT ClinStagEsophPET (2040) | 🞎 Yes 🞎 No | CT ClinStagEsophCT (2050) | 🞎 Yes 🞎 No |  |
| Bronchoscopy ClinStagEsophBronc (2060) | 🞎 Yes 🞎 No | EUS ClinStagEsophEUS (2090) | 🞎 Yes 🞎 No |  |
| **Invasive Staging Procedures** |  |  |  |  |  |
|  | VATS – for staging ClinStagEsophVATS (2100) | 🞎 Yes 🞎 No | Laparoscopy – for staging ClinStagEsophLap (2110) | 🞎 Yes 🞎 No |
| Endoscopic Mucosal Resection ClinStagEsophEMR (2120) | 🞎 Yes 🞎 No | Other: 🞎 Yes 🞎 No ClinStagEsophOth (2130) |
| Esophageal Tumor: ClinStageEsophT (2150) | 🞎 T0*No evidence of primary tumor* | 🞎 Tis*High grade dysplasia* | 🞎 T1*Tumor invades lamina propria, mucosa or submucosa* |
|  | 🞎 T2*Tumor invades muscularis propria* | 🞎 T3*Tumor invades adventitia* | 🞎 T4*Tumor invades adjacent structures* |
| Clinical Diagnosis of Nodal Involvement: ClinStageEsophNode (2160) | 🞎 Yes (N1, N2 or N3) 🞎 No |
| Esophageal CA Metastases ClinStageEsophM (2170) | 🞎 M0 *No Distant Metastasis* 🞎 M1 *Distant Metastasis* |
|  | **Tumor Location** (check all that apply)**:** |  |
|  | Cervical Esophagus (15 – < 20 cm) 🞎 Yes 🞎 No TumorEsopCervical (2180) |
|  | Upper Thoracic (20 - < 25 cm) 🞎 Yes 🞎 No TumorEsopUpThorac (2190) |
|  | Middle Thoracic (25 - < 30 cm) 🞎 Yes 🞎 No TumorEsopMidThorac (2200) |
|  | Lower Thoracic, including EG Junction (30 – 42 cm) 🞎 Yes 🞎 No TumorEsopLowThorac (2210) |

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| **Pathological Staging - Esophagus** |
| **Esophagus *to be completed if esophageal cancer documented AND esophageal resection performed (Pre-Operative Evaluation – Esophageal Cancer = Yes) (8th Edition)*** |
| **Esophageal Cancer Results** ClinStageEsophResult (2220) |
| 🞎 No cancer found, benign tumor 🞎 Esophageal cancer present |
| *If cancer**present* → | **Esophageal Tumor**: PathStageEsophT (2230) |
| 🞎 TX*Tumor cannot be assessed*  | 🞎 T0*No evidence of primary tumor* | 🞎 Tis*High Grade dysplasia, defined as malignant cells confined to the epithelium by the basement membrane* |
| 🞎 T1a*Tumor invades lamina propria or muscularis mucosa* | 🞎 T1b*Tumor invades submucosa* | 🞎 T2*Tumor invades muscularis propria* |  |
| 🞎 T3*Tumor invades adventitia* | 🞎 T4a*Tumor invades pleura, pericardium, azygos vein, diaphragm or peritoneum* | 🞎 T4b*Tumor invades other adjacent structures such as aorta, vertebral body, or airway.* |  |
| Esophageal CA Nodes: PathStageEsophN (2240) | 🞎 NX*Regional lymph nodes cannot be assessed* | 🞎 N0*No regional lymph node metastasis* | 🞎 N1*Metastasis in 1-2 regional nodes* |
|  |  | 🞎 N2*Metastasis in 3-6 regional lymph nodes* | 🞎 N3*Metastasis in 7 or more regional lymph nodes* |
| Esophageal CA Metastases: PathStageEsophM (2250) | 🞎 M0*No distant metastasis* | 🞎 M1*Distant metastasis* |
| Esoph Histopathologic Type: PathStageEsophH (2260) | 🞎 H1Squamous Carcinoma | 🞎 H2 Adenocarcinoma | 🞎 Other |
| Esophageal CA Histologic Grade: PathStageEsophG (2270) | 🞎 GX *Grade cannot be assessed* | 🞎 G1 *Well differentiated* | 🞎 G2 *Moderately differentiated* | 🞎 G3 *Poorly differentiated, undifferentiated* |  |
| Total # of Lymph Nodes sampled/harvested: \_\_\_\_\_\_\_ EsophCANodes (2280) | Esophageal CA Resection Margins Positive: 🞎 Yes 🞎 No EsophCAPathMarg (2290) |

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| **H. Thymus / Mediastinal Mass Resection** |
| **Pre-Operative** |
| Symptomatic myasthenia MyastheniaSympt (2300) | 🞎 Yes 🞎 No |
|  *If Yes* → Chronic Medical Treatment: | Mestinon TxMestinon (2310) | 🞎 Yes 🞎 No  |
|  | Steroids TxSteroids (2320) | 🞎 Yes 🞎 No  |
|  | Other Immunosuppressive Therapy TxImmunoSuppress (2330) | 🞎 Yes 🞎 No  |
| **Pre-operative management** |
|  | IVIG IVIG (2340) | 🞎 Yes 🞎 No  |
|  | Plasmaphereis Plasmaphereis (2350) | 🞎 Yes 🞎 No  |
| **Size of mass known:**  🞎 Yes 🞎 No MassSizeKnown (2360) *If yes* *→* Largest diameter in mm derived from preop axial, coronal or sagittal image \_\_\_\_\_\_\_\_\_\_\_mm MassSize (2370) |
| **Initial Surgical Approach** ThyInitSurgAp (2380) |
|  | 🞎 Full Sternotomy | 🞎 Clamshell or Hemiclamshell | 🞎 Transcervical |
|  | 🞎 Partial Sternotomy | 🞎 Robotic  | 🞎 VATS  |
| *If “Robotic” or “VATS” →* ThyRobVATSLoc (2390) | Location: 🞎 Right 🞎 Left 🞎 Bilateral |
| *If “Transcervical”, “Partial Sternotomy”, ”Robotic” or “VATS” →* ThyConvToOpen (2400) | Conversion to open approach during procedure? 🞎 Yes, Planned 🞎 Yes, Unplanned 🞎 No |
|  |  *If Yes* *→* ThyConvAp (2410) | 🞎 Sternotomy 🞎 Clamshell 🞎 Thoracotomy  |
| **Intentional resection of functioning phrenic nerve** PhrenicNerveResect (2420) | 🞎 Yes 🞎 No  |
| **Pathologic Staging** PathRptStage (2430) |
| 🞎 Stage I*Grossly and microscopically encapsulated. Also called a noninvasive thymoma. That is, it has not spread beyond the thymus.* | 🞎 Stage II *The thymoma invades beyond the capsule (outer boundary of the thymus) and into the nearby fatty tissue or to the pleura (outer covering of the lung).* *Sometimes divided into:* | 🞎 Stage IIa*Microscopic transcapsular invasion* | 🞎 Stage IIb*Macroscopic capsular invasion* |
| 🞎 Stage III *Macroscopic invasion of neighboring organs. The thymoma extends into the neighboring tissues or organs of the lower neck or upper chest area, including the pericardium (covering of the heart), the lungs, or the main blood vessels leading into or exiting from the heart.* | 🞎 Stage IVa *Pleural or pericardial dissemination. The thymoma has spread widely throughout the pleura and/or pericardium.* | 🞎 Stage IVb*Hematogenous or lymphatic dissemination. The thymoma has spread to distant organs.* |
| **WHO classification (**from path report – Thymoma only) ThymomaType (2440) |
|  🞎 Type A 🞎 Type AB 🞎 Type B1 🞎 Type B2  |
|  🞎 Type B3 🞎 Thymic Carcinoma or Type C 🞎 Not Thymoma |
| **Completeness of resection** (from operative note or pathology report) ResectCompleteness (2450) | 🞎 R0 | 🞎 R1 | 🞎 R2 |
| **Patient alive at 30 days post op** 🞎 Yes 🞎 No PtAlive30Day (2460) |
| *If Yes* → | **Post – operative Event (30 day)** |
|  | Myasthenic crisis requiring return to ICU or intervention (intubation, plasmapheresis) MYAL (2470) | 🞎 Yes 🞎 No  |
|  | Unintentional phrenic nerve palsy PhrenicNervePalsy (2480) | 🞎 Yes 🞎 No  |
| **Patient alive at 90 days post op** 🞎 Yes 🞎 No PtAlive90Day (2490) |
| *If Yes* → | **90 Day Post – Operative Variable** |
|  | Adjuvant thoracic radiation ThoracicRadiation (2500) | 🞎 Yes 🞎 No  |
|  | Persistent unintentional phrenic nerve palsy PhrenNrvPalsyPersis (2510) | 🞎 Yes 🞎 No  |

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| **I. Tracheal Resection** |
| **Pre-Operative** |
|  Current Airway AirwayCurr (2520) | 🞎 Native 🞎 Oral ETT 🞎 Trach 🞎 T-Tube |
|  Prior tracheostomy TracheostomyPrior (2530) | 🞎 Yes 🞎 No  |
|  Prior intubation IntubatePrior (2540) | 🞎 Yes 🞎 No  |
|  Prior Tracheal Resection TrachealResectPrior (2550) | 🞎 Yes 🞎 No  |
| **Recent Bronchoscopic Intervention** (within 6 weeks) BronchInt6Wks (2560) | 🞎 Yes 🞎 No (*includes: core out, dilation, ablation, stent*) |
| **Recurrent nerves intact** RecurrNervesIntact (2570) | 🞎 Yes 🞎 No 🞎 Unknown |
|  *If not intact →*  RecurrNervNotIntact (2580) | Which nerve? 🞎 Right 🞎 Left 🞎 Both |
| **Airway management during resection** (check all that apply) |
|  | Cross – table ventilation CrossTableVent (2590) | 🞎 Yes 🞎 No | VA ECMO 🞎 Yes 🞎 No VaECMO (2600) | Jet ventilation 🞎 Yes 🞎 No JetVent (2610) |
|  | VV ECMO VvECMO (2620) | 🞎 Yes 🞎 No | Cardiopulmonary bypass 🞎 Yes 🞎 No CardoPulmBypass (2630) |
| **Incision** (check all that apply, must have at least one indicated) |
|  Cervical 🞎 Yes 🞎 No TrachIncisCerv (2640) | Partial sternotomy 🞎 Yes 🞎 No TrachIncisPartStern (2650) | Full sternotomy 🞎 Yes 🞎 No TrachIncisFullStern (2660) |
|  Right thoracotomy 🞎 Yes 🞎 No TrachIncisRight (2670) | Clamshell 🞎 Yes 🞎 No TrachIncisClam (2680) |
| **Length of tracheal resection** \_\_\_\_\_\_\_\_\_\_mm TrachealResectLen (2690) | (Surgical or pathological measurement acceptable) |
| **Cricoid resection** required CricoidResect (2700) | 🞎 Yes 🞎 No  |
| **Carinal resection** required CarinalResect (2710) | 🞎 Yes 🞎 No  |
| **Release Maneuvers** ReleaseManeuver (2720) | 🞎 Yes 🞎 No  |
|  *If yes* *→* ReleaseManeuverType (2730) | 🞎 Suprahyoid 🞎 Suprathyroid 🞎 Hilar |
| **Additional Post-Operative Events** |
| Anastomotic dehiscence requiring drainage, revision, stent, tracheostomy, T-tube AnastomoticDehiscen (2740) | 🞎 Yes 🞎 No  |
| Anastomotic stricture requiring intervention AnastomoticStricture (2750) | 🞎 Yes 🞎 No  |
| Airway obstruction requiring intervention (e.g., unscheduled bronchoscopy) AirwayObstruct (2760) | 🞎 Yes 🞎 No  |
| Recurrent nerve palsy NervePalsyRecurr (2770) | 🞎 Right 🞎 Left 🞎 Both 🞎 Neither  |
| Did the patient leave the hospital with tracheal appliance? (tracheostomy, T-tube or stent) TrachealAppliance (2780) | 🞎 Yes 🞎 No 🞎 Patient Died In Hospital |
| **At 30 Days Post – Operative Patient is**: |  |
| Stent/tube free StentTubeFree30days (2790) | 🞎 Yes 🞎 No 🞎 Patient Died Within 30 Days of Procedure |
| **At 90 Days Post – Operative Patient is**: |  |
| Stent/tube free StentTubeFree90days (2800) | 🞎 Yes 🞎 No 🞎 Patient Died Within 90 Days of Procedure |

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| **J. Hiatal Hernia / GERD** |
| **Symptoms** |
|  | Heartburn Heartburn (2810) | 🞎 Yes 🞎 No | Cough Cough (2820) | 🞎 Yes 🞎 No |
|  | Regurgitation Regurgitate (2830) | 🞎 Yes 🞎 No | Hoarseness Hoarse (2840) | 🞎 Yes 🞎 No |
|  | Dysphagia Dysphagia (2850) | 🞎 Yes 🞎 No | Sore throat SoreThroat (2860) | 🞎 Yes 🞎 No |
|  | Epigastric/chest pain Ephigastric (2870) | 🞎 Yes 🞎 No | Asthma Asthma (2880) | 🞎 Yes 🞎 No |
|  | Early satiety EarlySatiety (2890) | 🞎 Yes 🞎 No | Reflux laryngitis RefluxLaryngitis (2900) | 🞎 Yes 🞎 No |
|  | Anemia Anemia (2910) | 🞎 Yes 🞎 No |  |  |
| **PPIs**  |
|  PPI use PPIUse (2920) | 🞎 Yes 🞎 No *If Yes* → | PPI relief PPIRelief (2930) |  🞎 Complete 🞎 Partial 🞎 No |
| **EGD** |
| Esophagitis Esophagitis (2940) | 🞎 Yes 🞎 No *If Yes* → | LA Grade: LAGrade (2950) | 🞎 A | 🞎 B | 🞎 C | 🞎 D |
| Barrett’s metaplasia MetaplasiaBarrett (2960) |  | 🞎 Yes, with low grade dysplasia  | 🞎 Yes, with high grade dysplasia | 🞎 No  |
| **pH Testing** pHTest (2970)🞎 Yes 🞎 No *If Yes ↓* | **Manometry** |  |  |
| DeMeester score DeMeesterScore (2980) | \_\_\_\_\_\_\_\_\_\_\_\_\_ | Manometry performed: Manometry (2990) | 🞎 Yes 🞎 No *If Yes* → | Motility:Motility (3000) | 🞎 normal 🞎 decreased 🞎 aperistalsis |
| LES resting pressure \_\_\_\_\_ RestPressure (3010) | % of failed swallows \_\_\_\_\_\_ SwallowFail (3020) |
| **Imaging** |
| Imaging performed ImagePerform (3030) | 🞎 Yes 🞎 No  | *If Yes* → Type of imaging ImageType (3040) | 🞎 bariums swallow/ upper GI 🞎 CT Scan 🞎 CXR |
| Hiatal hernia size (cm) HerniaSize (3050) | \_\_\_\_\_\_\_\_\_\_\_\_\_ | Hiatal hernia type: HerniaType (3060) | 🞎 I 🞎 II 🞎 III 🞎 IV |
| **Hernia repair status**  | 🞎 Primary repair 🞎 Re-operation HerniaRepStat (3065) |
| *If re-operation* →  | Surgical approach used in the initial procedure: 🞎 Laparoscopic 🞎 Laparotomy 🞎 Thoracotomy 🞎 Not documentedHerniaReopApp (3066) |
| **Procedure Approach** (check all that apply) |  |  |
|  | Laparoscopic GERDAppLaparoscopic (3070) | 🞎 Yes 🞎 No | Robotic GERDAppRobotic (3080) | 🞎 Yes 🞎 No |
|  | Laparotomy GERDAppLaparotomy (3090) | 🞎 Yes 🞎 No | Thoracotomy GERDAppThor (3100) | 🞎 Yes 🞎 No |
| Fundoplication ProcFundoplicate (3110) |  🞎 Yes 🞎 No  | *If Yes* → Type FundoplicateType (3120) | 🞎 Partial  | 🞎 Complete |
| Gastroplasty ProcGastroplasty (3130) | 🞎 Yes 🞎 No  |  |
| Mesh ProcMesh (3140) | 🞎 Yes 🞎 No  |  |
| Relaxing incision ProcRelaxIncision (3150) | 🞎 Yes 🞎 No  |   |
| **Is patient alive at 1 month post – Op?** GERDPtAliveMth (3160)🞎 Yes 🞎 No | **Is patient alive at 1 year post – Op?** GERDPtAliveYr (3210)🞎 Yes 🞎 No |
| *If Yes* → | **1 Month Post – Operative Follow Up**  | *If Yes* → | **1 Year Post – Operative Follow Up**  |
|  | Radiographic recurrence RadiographRecurr1Mon (3170) | 🞎 Yes 🞎 No  |  | Radiographic recurrence RadiographRecurr1Year (3220) | 🞎 Yes 🞎 No  |
|  | Symptomatic recurrence SymptomRecurr1Mon (3180) | 🞎 Yes 🞎 No  |  | Symptomatic recurrence SymptomRecurr1Year (3230) | 🞎 Yes 🞎 No  |
|  | Endoscopic Intervention EndoInt1Mon (3190) | 🞎 Yes 🞎 No  |  | Endoscopic Intervention EndoInt1Year (3240) | 🞎 Yes 🞎 No  |
|  | Redo Operation RedoOperate1Mon (3200) | 🞎 Yes 🞎 No  |  | Redo operation RedoOperate1Year (3250) | 🞎 Yes 🞎 No  |

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| **K. Disposition** |
| **Patient Disposition:** PatDisp (3260) | 🞎 ICU  | 🞎 Intermediate Care Unit | 🞎 Regular Floor Bed  |
| 🞎 Not Applicable (Expired in OR) | 🞎 Outpatient or Observation Status |
| ICU Admit this admission:  | 🞎 Yes 🞎 No ICUVisitInit (3270) |  |
|  *If Yes* → Initial ICU Days: \_\_\_\_\_\_ ICUVisitInitDays (3280) |
|   | ICU Readmit: 🞎 Yes 🞎 No ICUVisitAdd (3290) |
|  |  *If Yes* → Additional ICU Days: \_\_\_\_\_\_\_ ICUVisitAddDays (3300) |

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| **L. Post-Operative Events** |
| Indicate all adverse events that occurred within 1 month of surgery if discharged from the hospital or those that occur during the same admission, regardless of the length of stay. |
| **Postoperative Events?** POEvents (3310) | 🞎 Yes 🞎 No *If Yes, select all that occurred: ↓*  |
| *If Post-Operative Events Yes →*  | Unanticipated post-operative invasive procedure? 🞎 Yes 🞎 No PostOpInvProc (3330) |
| *If unanticipated post-operative invasive procedure→* | Primary Reason for Procedure: ReturnORRsn (3340) |
| 🞎 Bleeding | 🞎 Bronchopleural Fistula  | 🞎 Empyema  | 🞎 Middle lobectomy for torsion |
| 🞎 Conduit necrosis/failure following esophageal surgery | 🞎 Other |
| Anastomotic leak following esophageal surgery PosOpProcAL (3350) | 🞎 Yes 🞎 No *If Yes* → | Surgical drainage and repair PosOpProcALRepair (3360) | 🞎 Yes 🞎 No |
|  |  | Stent placement PosOpProcALStent (3370) | 🞎 Yes 🞎 No |
|  |  | Additional chest tube placement PosOpProcALTube (3380) | 🞎 Yes 🞎 No |
| Chylothorax Present🞎 Yes 🞎 No *If Yes* → ChyloPres (3390) | Chylothorax req. surgical ligation of thoracic duct 🞎 Yes 🞎 No PosOpProcChylotho (3400) |
|  | *If No* → Thoracic duct embolization attempted 🞎 Yes 🞎 No PosOpProcEmboli (3410) |
|  | *If Yes* → Was Thoracic duct embolization successful? 🞎 Yes 🞎 No PosOpProcDuctSucc (3420) |
| **Pulmonary** |
| Air leak > 5 days duration AirLeak5 (3430) | 🞎 Yes 🞎 No | Atelectasis req. bronchoscopy Atelectasis (3440) | 🞎 Yes 🞎 No | Pleural Effusion req. drainage CPlEff (3450) | 🞎 Yes 🞎 No |
| Pneumonia Pneumonia (3460) | 🞎 Yes 🞎 No | Acute Respiratory Distress Syndrome (ARDS) ARDS (3470) | 🞎 Yes 🞎 No | Respiratory FailureRespFail (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 EventOtherPul (3550) | 🞎 Yes 🞎 No |
|  | **Cardiovascular** |
|  | Atrial arrhythmia req. treatment AtrialArryth (3560) | 🞎 Yes 🞎 No | Ventricular arrhythmia req. treatment VentArryth (3570) | 🞎 Yes 🞎 No | Myocardial infarct MI (3580) | 🞎 Yes 🞎 No |
| Deep venous thrombosis (DVT) req. treatment DVT (3590) | 🞎 Yes 🞎 No | Other CV event OtherCV (3600) | 🞎 Yes 🞎 No |  |  |
|  | **Gastrointestinal** |
|  | Ileus Ileus (3610) | 🞎 Yes 🞎 No | Anastomotic leak requiring medical treatment only AnastoMed (3620) | 🞎 Yes 🞎 No | Dilation esophagus DilationEsoph (3630) | 🞎 Yes 🞎 No |
| Conduit Necrosis Requiring SurgeryCondNecSurg (3640) | 🞎 Yes 🞎 No | Delayed conduit emptying requiring intervention (pyloric dilatation or botox) or maintenance of NG drainage > 7days post op DelayCondEmp (3650) | 🞎 Yes 🞎 No |
| Clostridium Difficile infectionCDiff (3660) | 🞎 Yes 🞎 No | Other GI event OtherGI (3670) | 🞎 Yes 🞎 No |  |  |
| **Hematology** |
| Packed red blood cells PostopPRBC (3680) | 🞎 Yes 🞎 No  | ***\*transfusions documented here do not include blood given in OR\**** | *If Yes→* # Units \_\_\_\_\_\_\_\_\_ PostopPRBCUnits (3690) |
| **Urologic** |
| Urinary tract infection UTI (3700) | 🞎 Yes 🞎 No | Urinary retention req. Catheterization UrinRetent (3710) | 🞎 Yes 🞎 No | Discharged with Foley catheter DischFoley (3720) | 🞎 Yes 🞎 No |
| **Infection** |
| Empyema req. treatment Empyema (3730) | 🞎 Yes 🞎 No | Surgical Site Infection SurgSiteInfect (3740) | 🞎 None 🞎 Superficial 🞎 Deep🞎 Organ space  |
| Sepsis Sepsis (3750) | 🞎 Yes 🞎 No | Another infection req. IV antibiotics OtherInfect (3760) | 🞎 Yes 🞎 No |
| **Neurology** |
| 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 |
| **Miscellaneous** |
| New renal failure per RIFLE criteria RenFailRIFLE (3810) | 🞎 Yes 🞎 No | Chylothorax req. medical intervention ChyloMed (3820) | 🞎 Yes 🞎 No |
| Other events req. OR with gen. anesthesia OtherSurg (3830) | 🞎 Yes 🞎 No | Unexpected Admission to ICU UnexpectAdmitICU (3840) | 🞎 Yes 🞎 No |

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| **M. Discharge** |
| Patient is still in the hospital 🞎 Yes 🞎 No StillInHosp (3860) |
| *If No →* | **Date of Discharge:**  DischDt (3870)\_\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ |
| **Discharge Status:** MtDCStat (3880) 🞎 Alive 🞎 Dead |
| *If Discharged Alive →*  |
|  | Discharge location: DisLoctn (3890) | 🞎 Home | 🞎 Extended Care/Transitional Care Unit /Rehab |
|  | 🞎 Other Hospital  | 🞎 Nursing Home  | 🞎 Hospice | 🞎 Other |
| Discharged with chest tube: CTubeDis (3900) | 🞎 Yes 🞎 No |
| Discharged with home O2 (new; not using O2 pre-op) DischHomeO2 (3910) | 🞎 Yes 🞎 No |
|  | *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 days of discharge: Readm30Dis (3930) | 🞎 Yes 🞎 No 🞎 Unknown |
|  *If Yes* → Readmission related to operative procedure? Readm30DisRel (3940) | 🞎 Yes 🞎 No 🞎 Unknown |
| **Status at 30 days after surgery:** Mt30Stat (3950) | 🞎 Alive 🞎 Dead 🞎 Unknown |

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| **N. Follow Up** |
| Date of Last Follow-Up: \_\_\_\_/\_\_\_/\_\_\_\_\_ LFUDate (3960) |
| Mortality Status at Last Follow-Up: 🞎 Alive 🞎 Dead LFUMortStat (3970) |
| Mortality Date: \_\_\_\_/\_\_\_/\_\_\_\_\_ MortDate (3980) |

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| **O. Quality Measures** |
| IV antibiotics ordered to be given within 1 hour before incision: IVAntibioOrdered (3990) | 🞎 Yes | 🞎 No | 🞎 Not indicated for procedure |
| IV antibiotics given within 1 hour before incision: IVAntibioGiven (4000) | 🞎 Yes | 🞎 No  | 🞎 Not indicated for procedure |
| Cephalosporin Antibiotic Ordered CephalAntiOrdered (4010) | 🞎 Yes  | 🞎 No  | 🞎 Not indicated for procedure | 🞎 Documented allergy or indication for therapeutic substitution |
| Prophylactic Antibiotic Discontinuation Ordered within 24 hour AntibioticDiscOrdered (4020) | 🞎 Yes | 🞎 No | 🞎 Not indicated for procedure | 🞎 No, due to documented infection  |
| Smoking Cessation Counseling SmokCoun (4030) | 🞎 Yes  | 🞎 No  | 🞎 Patient refused  | 🞎 Nonsmoker |
| DVT Prophylaxis MeasuresDVTProphylaxis (4040) | 🞎 Yes | 🞎 No | 🞎 Not applicable |  |