

	Measure 1790: Risk-Adjusted Morbidity and Mortality for Lung Resection for Lung Cancer (The Society of Thoracic Surgeons)
Description	Percentage of patients greater than or equal to 18 years of age undergoing elective lung resection (Open or VATS wedge resection, segmentectomy, lobectomy, bilobectomy, sleeve lobectomy, pneumonectomy) for lung cancer who developed any of the following postoperative complications: reintubation, need for tracheostomy, initial ventilator support > 48 hours, ARDS, pneumonia, pulmonary embolus, bronchopleural fistula, unexpected return to the operating room, myocardial infarction or operative mortality (death during the index hospitalization, regardless of timing, or within 30 days, regardless of location).
Numerator	Number of patients greater than or equal to 18 years of age undergoing elective lung resection (Open or VATS wedge resection, segmentectomy, lobectomy, bilobectomy, sleeve lobectomy, pneumonectomy) for lung cancer who developed any of the following postoperative complications: reintubation, need for tracheostomy, initial ventilator support > 48 hours, ARDS, pneumonia, pulmonary embolus, bronchopleural fistula, unexpected return to the operating room, myocardial infarction or operative mortality (death during the index hospitalization, regardless of timing, or within 30 days, regardless of location).
Numerator Details	<p>Number of patients undergoing elective lung resection for lung cancer for whom:</p> <ol style="list-style-type: none"> 1. Postoperative events (POEvents - STS GTS Database, v 2.2, sequence number 1710) is marked "Yes" and one of the following items is marked: <ol style="list-style-type: none"> a. Reintubation (Reintube - STS GTS Database, v 2.2, sequence number 1850) b. Need for tracheostomy (Trach - STS GTS Database, v 2.2, sequence number 1860) c. Initial ventilator support > 48 hours (Vent- STS GTS Database, v 2.2, sequence number 1840) d. Acute Respiratory Distress Syndrome (ARDS - STS GTS Database, v 2.2, sequence number 1790) e. Pneumonia (Pneumonia - STS GTS Database, v 2.2, sequence number 1780) f. Pulmonary Embolus (PE - STS GTS Database, v 2.2, sequence number 1820) g. Bronchopleural Fistula (Bronchopleural - STS GTS Database, v 2.2, sequence number 1810) h. Myocardial infarction (MI - STS GTS Database, v 2.2, sequence number 1900) Or 2. Unexpected return to the operating room (ReturnOR - STS GTS Database, Version 2.2, sequence number 1720) is marked "yes" Or 3. One of the following fields is marked "dead" <ol style="list-style-type: none"> a. Discharge status (MtDCStat - STS GTS Database, Version 2.2, sequence number 2200); b. Status at 30 days after surgery (Mt30Stat - STS GTS Database, Version 2.2, sequence number 2240) <p>Please see STS General Thoracic Surgery Database Data Collection Form, Version 2.3-</p>

	http://www.sts.org/sites/default/files/documents/STSThoracicDCF_V2_3_MajorProc_Annotated.pdf
Denominator	Number of patients greater than or equal to 18 years of age undergoing elective lung resection (Open or VATS wedge resection, segmentectomy, lobectomy, bilobectomy, sleeve lobectomy, pneumonectomy) for lung cancer
Denominator Details	<p>1. Lung cancer (LungCancer - STS GTS Database, v 2.2, sequence number 830) is marked “yes” and Category of Disease – Primary (CategoryPrim - STS GTS Database, v 2.2, sequence number 1300) is marked as one of the following:</p> <p>(ICD-9, ICD-10)</p> <p>Lung cancer, main bronchus, carina (162.2, C34.00)</p> <p>Lung cancer, upper lobe (162.3, C34.10)</p> <p>Lung cancer, middle lobe (162.4, C34.2)</p> <p>Lung cancer, lower lobe (162.5, C34.30)</p> <p>Lung cancer, location unspecified (162.9, C34.90)</p> <p>2. Patient has lung cancer (as defined in #1 above) and primary procedure is one of the following CPT codes:</p> <p>Thoracoscopy, surgical; with lobectomy (32663)</p> <p>Thoracoscopy with therapeutic wedge resection (eg mass or nodule) initial, unilateral (32666)</p> <p>Thoracoscopy with removal of a single lung segment (segmentectomy) (32669)</p> <p>Thoracoscopy with removal of two lobes (bilobectomy) (32670)</p> <p>Thoracoscopy with removal of lung, pneumonectomy (32671)</p> <p>Thoracotomy with therapeutic wedge resection (eg mass nodule) initial (32505)</p> <p>Removal of lung, total pneumonectomy; (32440)</p> <p>Removal of lung, single lobe (lobectomy) (32480)</p> <p>Removal of lung, two lobes (bilobectomy) (32482)</p> <p>Removal of lung, single segment (segmentectomy) (32484)</p> <p>Removal of lung, sleeve lobectomy (32486)</p> <p>3. Status of Operation (Status - STS General Thoracic Surgery Database, Version 2.2, sequence number 1420) is marked as “Elective”</p> <p>4. Only analyze the first operation of the hospitalization meeting criteria 1-3</p>
Exclusions	Patients were excluded if they had an extrapleural pneumonectomy, completion pneumonectomy, carinal pneumonectomy, occult carcinoma or benign disease on final pathology, or an urgent, emergent, or palliative operation. Furthermore, patients with missing age, sex, discharge mortality status, and predicted forced expiratory volume in 1 second were also excluded.
Exclusion details	<p>Cases removed from calculations if any of following fields are checked on the data collection form:</p> <p>Removal of lung, sleeve (carinal) pneumonectomy (32442)</p> <p>Removal of lung, total pneumonectomy; extrapleural (32445)</p> <p>Removal of lung, completion pneumonectomy (32488)</p>

	<p>OR if either of the following fields are checked:</p> <p>Carcinoid tumor of bronchus and lung; benign, typical (209.61., D34.090) Lung tumor, benign (212.3, D14.30)</p> <p>OR if Emergent, Urgent, or Palliative is checked under "Status of Operation"</p> <p>Only general thoracic procedures coded as primary lung or primary esophageal cancer are included in measure calculations, so occult carcinoma is effectively excluded.</p>
Risk Adjustment	Statistical risk model
Stratification	n/a
Type	Outcome
Type of Score	Rate/proportion
Data Source	Other, Registry Data
Level	Facility
Setting	Inpatient/Hospital

Created on: 04/06/2018 at 02:30 AM