Esophageal Resection Mortality Rate

Inpatient Quality Indicators #8
Technical Specifications
Provider-Level Indicator
Procedure Mortality Indicator
AHRQ Quality Indicators, Version 4.3, August 2011

Numerator

Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.

Denominator

Discharges, age 18 years and older, with ICD-9-CM esophageal resection procedure code and a diagnosis code of esophageal cancer or gastrointestinal-related cancer in any field.

ICD-9-CM esophageal resection procedure codes:

- 424 ESOPHAGECTOMY
- 4240 ESOPHAGECTOMY NOS
- 4241 PARTIAL ESOPHAGECTOMY
- 4242 TOTAL ESOPHAGECTOMY
- 425 THORAC ESOPHAG ANAST
- 4251 THORAC ESOPHAGOESOPHAGOS
- 4252 THORAC ESOPHAGOGASTROST
- 4253 THORAC SM BOWEL INTERPOS
- 4254 THORAC ESOPHAGOENTER NEC
- 4255 THORAC LG BOWEL INTERPOS
- 4256 THORAC ESOPHAGOCOLOS NEC

ICD-9-CM esophageal cancer code:

- 1500 MALIGNANT NEOPLASM OF ESOPHAGUS, CERVICAL
- 1501 MALIGNANT NEOPLASM OF ESOPHAGUS, THORACIC
- 1502 MALIGNANT NEOPLASM OF ESOPHAGUS, ABDOMINAL
- 1503 MALIGNANT NEOPLASM OF ESOPHAGUS, UPPER THIRD OF
- 1504 MALIGNANT NEOPLASM OF ESOPHAGUS, MIDDLE THIRD OF
- 1505 MALIGNANT NEOPLASM OF ESOPHAGUS, LOWER THIRD OF
- 1508 MALIGNANT NEOPLASM OF ESOPHAGUS, OTHER SPECIFIED PART
- 1509 MALIGNANT NEOPLASM OF ESOPHAGUS, UNSPECIFIED

ICD-9CM gastrointestinal-related cancer code:

- 1510 MALIGNANT NEOPLASM OF STOMACH, CARDIA
- 1978 SECONDARY MALIGNANT NEOPLASM OF RESPIRATORY AND DIGESTIVE SYSTEMS, OTHER DIGESTIVE ORGANS AND SPLEEN
- 2301 CARCINOMA IN SITU OF DIGESTIVE ORGANS, ESOPHAGUS
- 2355 NEOPLASM OF UNCERTAIN BEHAVIOR OF DIGESTIVE AND RESPIRATORY SYSTEMS, OTHER AND UNSPECIFIED DIGESTIVE ORGANS
any procedure for total gastrectomy and any diagnosis of esophageal cancer.

**ICD-9-CM gastrectomy procedure code:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>4399</td>
<td>OTHER TOTAL GASTRECTOMY</td>
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</table>

**ICD-9-CM esophageal cancer code:**

<table>
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<th>Code</th>
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<tr>
<td>1500</td>
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<td>1509</td>
<td>MALIGNANT NEOPLASM OF ESOPHAGUS, UNSPECIFIED</td>
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</table>

Exclude cases:

- transferring to another short-term hospital (DISP=2)
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)