

- where a procedure for tracheostomy is the only operating room procedure
- where an esophageal resection procedure occurs
- where a lung cancer procedure occurs
- where a procedure for the ENT/neck occurs
- where a procedure for tracheostomy occurs before the first operating room procedure.

Note: If day of procedure is not available in the input data file, the rate may be slightly lower than if the information was available.

- with any diagnosis code of craniofacial anomalies with
 - 1) a procedure code for laryngeal or pharyngeal surgery *or*
 - 2) a procedure on face
- with any diagnosis code of degenerative neurological disorder
- MDC 14 (pregnancy, childbirth, and puerperium)
- MDC 4 (diseases/disorders of respiratory system)
- MDC 5 (diseases/disorders of circulatory system)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

ICD-9-CM Neuromuscular Disorder codes:

| | | | |
|-------|--------------------------|-------|---|
| 3570 | AC INFECT POLYNEURITIS | 3593 | FAMIL PERIODIC PARALYSIS |
| 35800 | MYSTHNA GRVS W/O AC EXAC | 3594 | TOXIC MYOPATHY |
| 35801 | MYASTHNA GRAVS W AC EXAC | 3595 | MYOPATHY IN ENDOCRIN DIS |
| 3581 | MYASTHENIA IN OTH DIS | 3596 | INFL MYOPATHY IN OTH DIS |
| 3582 | TOXIC MYONEURAL DISORDER | 35971 | INCLUSION BODY MYOSITIS IBM (OCT09) |
| 3588 | MYONEURAL DISORDERS NEC | 35979 | OTHER INFLAMMATORY AND IMMUNE MYOPATHIES, NEC (OCT09) |
| 3589 | MYONEURAL DISORDERS NOS | 35981 | CRITICAL ILLNESS MYOPATHY |
| 3590 | CONG HERED MUSC DYSTRPHY | 35989 | MYOPATHIES NEC |
| 3591 | HERED PROG MUSC DYSTRPHY | 3599 | MYOPATHY NOS |
| 3592 | MYOTONIC DISORDERS | | |
| 35922 | MYOTONIA CONGENITA | | |
| 35923 | MYOTONIC CHONDRODYSTRPHY | | |

ICD-9-CM Tracheostomy procedure codes:

| | | | |
|------|--------------------------|------|--------------------------|
| 3121 | MEDIASTINAL TRACHEOSTOMY | 3174 | REVISION OF TRACHEOSTOMY |
| 3129 | OTHER PERM TRACHEOSTOMY | | |

ICD-9-CM esophageal resection procedure codes:

| | | | |
|------|--------------------------|------|--------------------------|
| 424 | ESOPHAGECTOMY | 4258 | THORAC INTERPOSITION NEC |
| 4240 | ESOPHAGECTOMY NOS | 4259 | THORAC ESOPHAG ANAST NEC |
| 4241 | PARTIAL ESOPHAGECTOMY | 426 | STERN ESOPHAG ANAST |
| 4242 | TOTAL ESOPHAGECTOMY | 4261 | STERN ESOPHAGUESOPHAGOST |
| 425 | THORAC ESOPHAG ANAST | 4262 | STERN ESOPHAGOGASTROSTOM |
| 4251 | THORAC ESOPHAGUESOPHAGOS | 4263 | STERN SM BOWEL INTERPOS |
| 4252 | THORAC ESOPHAGOGASTROST | 4264 | STERN ESOPHAGOENTER NEC |
| 4253 | THORAC SM BOWEL INTERPOS | 4265 | STERN LG BOWEL INTERPOS |
| 4254 | THORAC ESOPHAGOENTER NEC | 4266 | STERN ESOPHAGOCOLOS NEC |
| 4255 | THORAC LG BOWEL INTERPOS | 4268 | STERN INTERPOSITION NEC |
| 4256 | THORAC ESOPHAGOCOLOS NEC | 4269 | STERN ESOPHAG ANAST NEC |

**AHRQ QI, Patient Safety Indicators #11, Technical Specifications,
Postoperative Respiratory Failure Rate
www.qualityindicators.ahrq.gov**

ICD-9-CM Lung cancer procedure codes:

| | | | |
|------|-------------------------|------|--------------------------|
| 3239 | OTH SEG LUNG RESECT NOS | 3259 | OTHER PHENUMONECTOMY NOS |
| 3249 | LOBECTOMY OF LUNG NEC | | |

ICD-9-CM Laryngeal or pharyngeal surgery codes:

| | | | |
|------|--|------|---|
| 253 | COMPLETE GLOSSECTOMY | 3029 | OTHER PARTIAL LARYNGECTOMY |
| 254 | RADICAL GLOSSECTOMY | 303 | COMPLETE LARYNGECTOMY |
| 2731 | LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BONY PALATE | 304 | RADICAL LARYNGECTOMY |
| 290 | PHARYNGOTOMY | 313 | OTHER INCISION OF LARYNX OR TRACHEA |
| 2933 | PHARYNGECTOMY (PARTIAL) | 315 | LOCAL EXCISION OR DESTRUCTION OF LESION OR TISSUE OF TRACHEA |
| 2939 | OTHER EXCISION OR DESTRUCTION OF LESION OR TISSUE OF PHARYNX | 3169 | OTHER REPAIR OF LARYNX |
| 294 | PLASTIC OPERATION ON PHARYNX | 3173 | CLOSURE OF OTHER FISTULA OF TRACHEA |
| 2953 | CLOSURE OF OTHER FISTULA OF PHARYNX | 3175 | RECONSTRUCTION OF TRACHEA AND CONSTRUCTION OF ARTIFICIAL LARYNX |
| 2959 | OTHER REPAIR OF PHARYNX | 3179 | OTHER REPAIR AND PLASTIC OPERATIONS ON TRACHEA |
| 2991 | DILATION OF PHARYNX | 3198 | OTHER OPERATIONS ON LARYNX |
| 3009 | OTHER EXCISION OR DESTRUCTION OF LESION OR TISSUE OF LARYNX | 3199 | OTHER OPERATIONS ON TRACHEA |
| 3021 | EPIGLOTTIDECTOMY | | |
| 3022 | VOCAL CORDECTOMY | | |

ICD-9-CM Procedure on face codes:

| | | | |
|------|---|------|--|
| 252 | PARTIAL GLOSSECTOMY | 7665 | SEGMENTAL OSTEOPLASTY [OSTEOTOMY] OF MAXILLA |
| 2559 | OTHER REPAIR AND PLASTIC OPERATIONS ON TONGUE | 7666 | TOTAL OSTEOPLASTY [OSTEOTOMY] OF MAXILLA |
| 2732 | WIDE EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BONY PALATE | 7646 | OTHER RECONSTRUCTION OF OTHER FACIAL BONE |
| 2762 | CORRECTION OF CLEFT PALATE | 7669 | OTHER FACIAL BONE REPAIR |
| 2763 | REVISION OF CLEFT PALATE REPAIR | 7691 | BONE GRAFT TO FACIAL BONE |
| 2769 | OTHER PLASTIC REPAIR OF PALATE | | |
| 2931 | CRICOPHARYNGEAL MYOTOMY | | |

ICD-9-CM Craniofacial abnormality diagnosis codes:

| | | | |
|-------|--|------|---|
| 74483 | MACROSTOMIA | 7483 | CONGENITAL ANOMALIES OF SKULL AND FACE BONES |
| 74484 | MICROSTOMIA | | |
| 7449 | UNSPECIFIED ANOMALIES OF FACE AND NECK | 7560 | TRACHEOMALACIA AND CONGENITAL TRACHEAL STENOSIS |

ICD-9-CM Nose, mouth and pharynx procedure codes:

| | | | |
|------|--------------------------|------|--------------------------|
| 214 | RESECTION OF NOSE | 2279 | NASAL SINUS REPAIR NEC |
| 2161 | DIATHER/CRYO TURBINECTOM | 229 | OTHER NASAL SINUS OPS |
| 2162 | TURBINATE FRACTURE | 242 | GINGIVOPLASTY |
| 2169 | TURBINECTOMY NEC | 251 | DESTRUCTION TONGUE LES |
| 2172 | OPEN REDUCTION NASAL FX | 252 | PARTIAL GLOSSECTOMY |
| 2199 | NASAL OPERATION NEC | 253 | COMPLETE GLOSSECTOMY |
| 2231 | RADICAL MAXILLARY ANTROT | 254 | RADICAL GLOSSECTOMY |
| 2239 | EXT MAXILLARY ANTROT NEC | 2559 | REPAIR OF TONGUE NEC |
| 2241 | FRONTAL SINUSOTOMY | 2594 | OTHER GLOSSOTOMY |
| 2242 | FRONTAL SINUSECTOMY | 2599 | TONGUE OPERATION NEC |
| 2250 | SINUSOTOMY NOS | 2621 | SALIVARY CYST MARSUPIAL |
| 2251 | ETHMOIDOTOMY | 2629 | SALIV LESION EXCIS NEC |
| 2252 | SPHENOIDOTOMY | 2630 | SIALOADENECTOMY NOS |
| 2253 | MULTIPLE SINUS INCISION | 2631 | PARTIAL SIALOADENECTOMY |
| 2260 | SINUSECTOMY NOS | 2632 | COMPLETE SIALOADENECTOMY |
| 2261 | C-LUC EXC MAX SINUS LES | 2641 | SUTURE OF SALIV GLND LAC |
| 2262 | EXC MAX SINUS LESION NEC | 2642 | SALIVARY FISTULA CLOSURE |
| 2263 | ETHMOIDECTOMY | 2649 | SALIVARY REPAIR NEC |
| 2264 | SPHENOIDECTOMY | 2699 | SALIVARY OPERATION NEC |
| 2271 | NASAL SINUS FISTULA CLOS | 270 | DRAIN FACE & MOUTH FLOOR |

**AHRQ QI, Patient Safety Indicators #11, Technical Specifications,
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|------|-------------------------------|------|---------------------------------|
| 271 | INCISION OF PALATE | 280 | PERITONSILLAR I & D |
| 2731 | LOC EXC BONY PALATE LES | 284 | EXCISION OF TONSIL TAG |
| 2732 | WIDE EXC BONY PALATE LES | 285 | EXCISION LINGUAL TONSIL |
| 2742 | WIDE EXCISION OF LIP LES | 2891 | INCIS TO REMOV TONSIL FB |
| 2743 | EXCISION OF LIP LES NEC | 2892 | EXCIS TONSIL/ADENOID LES |
| 2749 | EXCISION OF MOUTH NEC | 2899 | TONSIL/ADENOID OPS NEC |
| 2753 | CLOSURE OF MOUTH FISTULA | 290 | PHARYNGOTOMY |
| 2754 | REPAIR OF CLEFT LIP | 292 | EXC BRANCHIAL CLEFT CYST |
| 2755 | FULL-THICK GRFT TO MOUTH | | DESTRUCT PHARYNGEAL LES (1980 - |
| 2756 | SKIN GRAFT TO MOUTH NEC | 293 | 1991) |
| 2757 | PEDICLE ATTACH TO MOUTH | 2931 | CRICOPHARYNGEAL MYOTOMY (1991) |
| 2759 | MOUTH REPAIR NEC | 2932 | PHARYNGEAL DIVERTICULEC (1991) |
| 2761 | SUTURE OF PALATE LACERAT | 2933 | PHARYNGECTOMY (1991) |
| 2762 | CLEFT PALATE CORRECTION | 2939 | EXCIS/DESTR LES PHAR NEC (1991) |
| 2763 | REVIS CLEFT PALAT REPAIR | 294 | PLASTIC OP ON PHARYNX |
| 2764 | INSERT PALATAL IMPLANT (2004) | 2951 | SUTURE OF PHARYNGEAL LAC |
| 2769 | OTH PLASTIC REPAIR PALAT | 2952 | CLOS BRANCH CLEFT FISTUL |
| 2771 | INCISION OF UVULA | 2953 | CLOS PHARYNX FISTULA NEC |
| 2772 | EXCISION OF UVULA | 2954 | LYSIS PHARYNGEAL ADHES |
| 2773 | REPAIR OF UVULA | 2959 | PHARYNGEAL REPAIR NEC |
| 2779 | OTHER UVULA OPERATIONS | 2992 | DIVIS GLOSSOPHARYNG NERV |
| 2792 | MOUTH INCISION NOS | 2999 | PHARYNGEAL OPERATION NEC |
| 2799 | ORAL CAVITY OPS NEC | | |

ICD-9-CM Degenerative neurological disorder diagnosis codes:

| | | | |
|-------|--------------------------|-------|-----------------------------|
| 2900 | SENILE DEMENTIA UNCOMP | | DEMENTIA IN OTH DISEASES W0 |
| 29010 | PRESENILE DEMENTIA | 29410 | BEHAVRAL (OCT00) |
| 29011 | PRESENILE DELIRIUM | | DEMENTIA IN OTH DISEASES |
| 29012 | PRESENILE DELUSION | 29411 | WBEHAVIORAL (OCT00) |
| 29013 | PRESENILE DEPRESSION | 2948 | ORGANIC BRAIN SYND NEC |
| 29020 | SENILE DELUSION | 2949 | ORGANIC BRAIN SYND NOS |
| 29021 | SENILE DEPRESSIVE | 3100 | FRONTAL LOBE SYNDROME |
| 2903 | SENILE DELIRIUM | 3102 | POSTCONCUSSION SYNDROME |
| 29040 | ARTERIOSCLER DEMENT NOS | 3108 | NONPSYCHOT BRAIN SYN NEC |
| 29041 | ARTERIOSCLER DELIRIUM | 3109 | NONPSYCHOT BRAIN SYN NOS |
| 29042 | ARTERIOSCLER DELUSION | 3310 | ALZHEIMERS DISEASE |
| 29043 | ARTERIOSCLER DEPRESSIVE | 3311 | FRONTOTEMPORAL DEMENTIA |
| 2908 | SENILE PSYCHOSIS NEC | 33111 | PICKS DISEASE |
| 2909 | SENILE PSYCHOT COND NOS | | OTHER FRONTOTEMPORAL |
| 2930 | ACUTE DELIRIUM | 33119 | DEMENTIA |
| 2931 | SUBACUTE DELIRIUM | 3312 | SENILE DEGENERAT BRAIN |
| 2940 | AMNESTIC SYNDROME | 33182 | DEMENTIA WITH LEWY BODIES |
| 2941 | DEMENTIA IN OTH DISEASES | | SENILITY WITHOUT MENTION OF |
| | | 797 | PSYCHOSIS |