

Denominator

All elective* surgical discharges age 18 and older defined by specific DRGs or MS-DRGs and an ICD-9-CM code for an operating room procedure.

*Elective - SID Admission type # is recorded as elective (Admission Type = 3)

See *Patient Safety Indicators Appendices*:

- Appendix A – Operating Room Procedure Codes
- Appendix D – Surgical Discharge DRGs
- Appendix E – Surgical Discharge MS-DRGs

Exclude cases:

- with principal diagnosis of acute respiratory failure or secondary diagnosis present on admission
- with any diagnosis code of neuromuscular disorder
- 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	4240	ESOPHAGECTOMY NOS
-----	---------------	------	-------------------

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

4241	PARTIAL ESOPHAGECTOMY	4259	THORAC ESOPHAG ANAST NEC
4242	TOTAL ESOPHAGECTOMY	426	STERN ESOPHAG ANAST
425	THORAC ESOPHAG ANAST	4261	STERN ESOPHAGUESOPHAGOST
4251	THORAC ESOPHAGUESOPHAGOS	4262	STERN ESOPHAGOGASTROSTOM
4252	THORAC ESOPHAGOGASTROST	4263	STERN SM BOWEL INTERPOS
4253	THORAC SM BOWEL INTERPOS	4264	STERN ESOPHAGOENTER NEC
4254	THORAC ESOPHAGOENTER NEC	4265	STERN LG BOWEL INTERPOS
4255	THORAC LG BOWEL INTERPOS	4266	STERN ESOPHAGOCOLOS NEC
4256	THORAC ESOPHAGOCOLOS NEC	4268	STERN INTERPOSITION NEC
4258	THORAC INTERPOSITION 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,
Postoperative Respiratory Failure Rate
www.qualityindicators.ahrq.gov**

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