



PDI #9 Postoperative Respiratory Failure

Provider-Level Indicator

Numerator

Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM codes for acute respiratory failure in any secondary diagnosis field.

OR

Discharges among cases meeting the inclusion and exclusion rules for the denominator with ICD-9-CM codes as follows:

- *Mechanical Ventilation for 96 consecutive hours or more* - zero or more days after the major operating room procedure code
- *Mechanical Ventilation for less than 96 consecutive hours or undetermined* - two or more days after the major operating room procedure code
- *Reintubation* - one or more days after the major operating room procedure code

ICD-9-CM Acute Respiratory Failure diagnosis codes:

51881 ACUTE RESPIRATORY FAILURE 51884 ACUTE & CHRONIC RESP FAIL

ICD-9-CM Mechanical Ventilation for 96 consecutive hours or more procedure code:

9672 CONTINUOUS MECHANICAL VENTILATION
FOR 96 CONSECUTIVE HRS OR MORE

ICD-9-CM Mechanical Ventilation procedure codes:

9670 CONTINUOUS MECHANICAL VENTILATION OF UNSPEC DURATION 9671 CONTINUOUS MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HRS

ICD-9-CM Reintubation procedure code:

9604 INSERT OF SENSTAKEN TUBE

Denominator

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

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

See *Pediatric Quality Indicators Appendices*:

- Appendix A – Operating Room Procedure Codes
- Appendix B – Surgical Discharge DRGs
- Appendix C – Surgical Discharge MS-DRGs

Exclude cases:

- with principal diagnosis of acute respiratory failure or secondary diagnosis present on admission
- where a procedure for tracheostomy is the only operating room procedure.
- 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 ICD-9-CM diagnosis code of neuromuscular disorder
- with respiratory or circulatory diseases (MDC 4 and 5)
- with any diagnosis code of craniofacial anomalies with
 - 1) a procedure code for laryngeal or pharyngeal surgery or
 - 2) a procedure on face
- MDC 14 (Pregnancy, Childbirth, and the Puerperium)
- neonates with birth weight less than 500 grams (Birth Weight Category 1)

See *Pediatric Quality Indicators Appendices*:

- Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn
- Appendix L- Low Birth Weight Categories

ICD-9-CM Tracheostomy procedure codes:

3121	MEDIASTINAL TRACHEOSTOMY	3174	REVISION OF TRACHEOSTOMY
3129	OTHER PERM TRACHEOSTOMY		

ICD-9-CM Neuromuscular Disorder codes:

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

ICD-9-CM Laryngeal or pharyngeal surgery codes:

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

3173	CLOSURE OF OTHER FISTULA OF TRACHEA	3179	OTHER REPAIR AND PLASTIC OPERATIONS ON TRACHEA
3175	RECONSTRUCTION OF TRACHEA AND CONSTRUCTION OF ARTIFICIAL LARYNX	3198	OTHER OPERATIONS ON LARYNX
		3199	OTHER OPERATIONS ON TRACHEA

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