



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 in any secondary procedure field 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
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ICD-9-CM Mechanical Ventilation for 96 consecutive hours or more procedure code:

9672	CONTINUOUS MECHANICAL VENTILATION FOR 96 CONSECUTIVE HRS OR MORE
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ICD-9-CM Mechanical Ventilation procedure codes:

9670	CONTINUOUS MECHANICAL VENTILATION OF UNSPEC DURATION	9671	CONTINUOUS MECHANICAL VENTILATION FOR LESS THAN 96 CONSECUTIVE HRS
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ICD-9-CM Reintubation procedure code:

9604	INSERT OF SENSTAKEN TUBE
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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 craniofacial anomalies with
 - 1) any procedure code for laryngeal or pharyngeal surgery or
 - 2) a procedure on face *and* any diagnosis code of craniofacial abnormalities
- 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

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	35922	MYOTONIA CONGENITA
35800	MYSTHNA GRVS W/O AC EXAC	35923	MYOTONIC CHONDRODYSTRPHY
35801	MYASTHNA GRAVS W AC EXAC	3593	FAMIL PERIODIC PARALYSIS
3581	MYASTHENIA IN OTH DIS	3594	TOXIC MYOPATHY
3582	TOXIC MYONEURAL DISORDER	3595	MYOPATHY IN ENDOCRIN DIS
3588	MYONEURAL DISORDERS NEC	3596	INFL MYOPATHY IN OTH DIS
3589	MYONEURAL DISORDERS NOS	35981	CRITICAL ILLNESS MYOPHTY
3590	CONG HERED MUSC DYSTRPHY	35989	MYOPATHIES NEC
3591	HERED PROG MUSC DYSTRPHY	3599	MYOPATHY NOS
3592	MYOTONIC DISORDERS		

ICD-9-CM Laryngeal or pharyngeal surgery codes:

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

3179 OTHER REPAIR AND PLASTIC OPERATIONS ON TRACHEA

3198 OTHER OPERATIONS ON LARYNX
3199 OTHER OPERATIONS ON TRACHEA

ICD-9-CM Procedure on face codes:

252 PARTIAL GLOSSECTOMY
2559 OTHER REPAIR AND PLASTIC OPERATIONS ON TONGUE
2732 WIDE EXCISION OR DESTRUCTION OF LESION OR TISSUE OF BONY PALATE
2762 CORRECTION OF CLEFT PALATE
2763 REVISION OF CLEFT PALATE REPAIR
2769 OTHER PLASTIC REPAIR OF PALATE
2931 CRICOPHARYNGEAL MYOTOMY

7665 SEGMENTAL OSTEOPLASTY [OSTEOTOMY] OF MAXILLA
7666 TOTAL OSTEOPLASTY [OSTEOTOMY] OF MAXILLA
7646 OTHER RECONSTRUCTION OF OTHER FACIAL BONE
7669 OTHER FACIAL BONE REPAIR
7691 BONE GRAFT TO FACIAL BONE

ICD-9-CM Craniofacial abnormality diagnosis codes:

74483 MACROSTOMIA
74484 MICROSTOMIA
7449 UNSPECIFIED ANOMALIES OF FACE AND NECK

7483 CONGENITAL ANOMALIES OF SKULL AND FACE BONES
7560 TRACHEOMALACIA AND CONGENITAL TRACHEAL STENOSIS

Low Birth Weight categories:

Less than 500 grams - Birth Weight Category 1	
76401	LIGHT-FOR-DATES <500G
76411	LT-FOR-DATE W/MAL <500G
76421	FETAL MALNUTRITION <500G
76491	FET GROWTH RETARD <500G
76501	EXTREME IMMATUR <500G
76511	PRETERM NEC <500G
V2131	LOW BIRTHWT STATUS <500G
500 to 999 grams - Birth Weight Category 2	
76402	LT-FOR-DATES 500-749G
76412	LT-DATE W/MAL 500-749G
76422	FETAL MALNUTR 500-749G
76492	FET GROWTH RET 500-749G
76502	EXTREME IMMATUR 500-749G
76512	PRETERM NEC 500-749G
76403	LT-FOR-DATES 750-999G
76413	LT-DATE W/MAL 750-999G
76423	FETAL MAL 750-999G
76493	FET GROWTH RET 750-999G
76503	EXTREME IMMATUR 750-999G
76513	PRETERM NEC 750-999G
V2132	LOW BIRTHWT 500-999G
1000 to 1499 grams - Birth Weight Category 3	
76404	LT-FOR-DATES 1000-1249G
76414	LT-DATE W/MAL 1000-1249G
76424	FETAL MAL 1000-1249G
76494	FET GRWTH RET 1000-1249G
76504	EXTREME IMMATUR 1000-1249G
76514	PRETERM NEC 1000-1249G

76405	LT-FOR-DATES 1250-1499G
76415	LT-DATE W/MAL 1250-1499G
76425	FETAL MAL 1250-1499G
76495	FET GRWTH RET 1250-1499G
76505	EXTREME IMMATUR 1250-1499G
76515	PRETERM NEC 1250-1499G
V2133	LOW BIRTHWT 1000-1499G
1500 to 1999 grams - Birth Weight Category 4	
76406	LT-FOR-DATES 1500-1749G
76416	LT-DATE W/MAL 1500-1749G
76426	FETAL MAL 1500-1749G
76496	FET GRWTH RET 1500-1749G
76506	EXTREME IMMATUR 1500-1749G
76516	PRETERM NEC 1500-1749G
76407	LT-FOR-DATES 1750-1999G
76417	LT-DATE W/MAL 1750-1999G
76427	FETAL MALNUTR 1750-1999G
76497	FET GRWTH RET 1750-1999G
76507	EXTREME IMMATUR 1750-1999G
76517	PRETERM NEC 1750-1999G
V2134	LOW BIRTHWT 1500-1999G
2000 to 2499 grams - Birth Weight Category 5	
76408	LT-FOR-DATES 2000-2499G
76418	LT-DATE W/MAL 2000-2499G
76428	FETAL MALNUTR 2000-2499G
76498	FET GRWTH RET 2000-2499G
76508	EXTREME IMMATUR 2000-2499G
76518	PRETERM NEC 2000-2499G
V2135	LOW BIRTHWT 2000-2500G

