

Postoperative Hemorrhage or Hematoma Rate

Pediatric Quality Indicators #8 Technical Specifications

Provider-Level Indicator

AHRQ Quality Indicators, Version 4.3, August 2011

Numerator

Discharges among cases meeting the inclusion and exclusion rules for the denominator with the following:

- ICD-9-CM code for postoperative hemorrhage **or** postoperative hematoma in any secondary diagnosis field

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- ICD-9-CM code for postoperative control of hemorrhage **or** for drainage of hematoma procedure.

ICD-9-CM Postoperative hemorrhage diagnosis code:

99811 HEMORRHAGE COMPLICATING A PROCEDURE

ICD-9-CM Postoperative hematoma diagnosis code:

99812 HEMATOMA COMPLICATING A PROCEDURE

ICD-9-CM Control of postoperative hemorrhage procedure codes:

287	CONTROL OF HEMORRHAGE AFTER TONSILLECTOMY AND ADENOIDECTOMY	3887	OTHER SURGICAL OCCLUSION OF ABDOMINAL VEINS
3880	OTHER SURGICAL OCCLUSION OF UNSPECIFIED SITE	3888	OTHER SURGICAL OCCLUSION OF LOWER LIMB ARTERIES
3881	OTHER SURGICAL OCCLUSION OF INTRACRANIAL VESSELS	3889	OTHER SURGICAL OCCLUSION OF LOWER LIMB VEINS
3882	OTHER SURGICAL OCCLUSION OF OTHER VESSELS OF HEAD AND NECK	3941	CONTROL OF HEMORRHAGE FOLLOWING VASCULAR SURGERY
3883	OTHER SURGICAL OCCLUSION OF UPPER LIMB VESSELS	3998	CONTROL OF HEMORRHAGE NOS
3884	OTHER SURGICAL OCCLUSION OF AORTA, ABDOMINAL	4995	CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF ANUS
3885	OTHER SURGICAL OCCLUSION OF THORACIC VESSEL	5793	CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF BLADDER
3886	OTHER SURGICAL OCCLUSION OF ABDOMINAL ARTERIES	6094	CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF PROSTATE

ICD-9-CM Drainage of hematoma procedure codes:

1809	OTHER INCISION OF EXTERNAL EAR	610	INCISION AND DRAINAGE OF SCROTUM AND TUNICA AND VAGINALIS
540	INCISION OF ABDOMINAL WALL	6998	OTHER OPERATIONS ON SUPPORTING STRUCTURES OF UTERUS
5412	REOPENING OF RECENT LAPAROTOMY SITE	7014	OTHER VAGINOTOMY
5919	OTHER INCISION OF PERIVESICLE TISSUE	7109	OTHER INCISION OF VULVA AND PERINEUM

7591	EVACUATION OF OBSTETRICAL INCISIONAL HEMATOMA OF PERINEUM	8604	OTHER INCISION W/ DRAINAGE OF SKIN AND SUBCUTANEOUS TISSUE
7592	EVACUATION OF OTHER HEMATOMA OF VULVA OR VAGINA		

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 postoperative hemorrhage or postoperative hematoma or secondary diagnosis present on admission
- where the only operating room procedure is postoperative control of hemorrhage or drainage of hematoma.
- where a procedure for postoperative control of hemorrhage or drainage of hematoma 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.

- obstetrical patients in MDC 14 (Pregnancy, Childbirth, and Puerperium)
- neonates with birth weight less than 500 grams (Birth Weight Category 1)
- with missing discharge gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

See *Pediatric Quality Indicators Appendices*:

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

Stratification

Stratifies rates by high-risk vs. lower risk groups.

High risk group:

Patients with any diagnosis codes indicating for specified coagulopathies

Patients with ICD-9-CM procedure code for Extracorporeal Membrane Oxygenation (ECMO)

ICD-9-CM Coagulopathy diagnosis codes:

2860	CONG FACTOR VIII DIORD	2866	DEFIBRATION SYNDROME
2861	CONG FACTOR IX DISORDER	2867	ACQ COAGUL FACTOR DEFIC
2862	CONG FACTOR XI DISORDER	2869	COAGULAT DEFECT NEC NOS
2863	CONG DEF CLOT FACTOR NEC	2871	THROMBOCYTOPATHY
2864	VON WILLEBRAND'S DISEASE	2873	PRIMARY THROMBOCYTOPENIA
2865	CIRCULATING ANTICOAG DIS	28730	PRIM THROMBOCYTOPEN NOS

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28731	IMMUNE THROMBOCYT PURPRA	28741	POSTTRANSFUSION PURPURA
28732	EVANS' SYNDROME	2875	THROMBOCYTOPENIA NOS
28733	CONG/HERID THROMB PURPRA	2878	HEMORRHAGIC COND NEC
28739	PRIM THROMBOCYTOPEN NEC	2879	HEMORRHAGIC COND NOS
2874	SECOND THROMBOCYTOPENIA		

ICD-9-CM Extracorporeal membrane oxygenation (ECMO) procedure code:

3965 ECMO

Low risk group:

All patients not qualifying as high risk.