

Postoperative Hemorrhage or Hematoma Rate

Pediatric Quality Indicators #8 Technical Specifications

Provider-Level Indicator

AHRQ Quality Indicators, Version 4.4, March 2012

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 COMPLIC PROC

ICD-9-CM Postoperative hematoma diagnosis code:

99812 HEMATOMA COMPLIC PROC

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

287	HEMORR CONTRL POST T & A	3887	OCCLUDE ABD VEIN NEC
3880	SURG VESSEL OCCLUS NEC	3888	OCCLUDE LEG ARTERY NEC
3881	OCCLUS INTRACRAN VES NEC	3889	OCCLUDE LEG VEIN NEC
3882	OCCLUS HEAD/NECK VES NEC	3941	POSTOP VASC OP HEM CONTR
3883	OCCLUDE ARM VESSEL NEC	3998	HEMORRHAGE CONTROL NOS
3884	OCCLUDE AORTA NEC	4995	CONTROL ANAL HEMORRHAGE
3885	OCCLUDE THORACIC VES NEC	5793	CONTROL BLADD HEMORRHAGE
3886	OCCLUDE ABD ARTERY NEC	6094	CONTROL PROSTATE HEMORR

ICD-9-CM Drainage of hematoma procedure codes:

1809	EXTERNAL EAR INCIS NEC	7014	VAGINOTOMY NEC
540	ABDOMINAL WALL INCISION	7109	INCIS VULVA/PERINEUM NEC
5412	REOPEN RECENT LAP SITE	7591	EVAC OB INC HEMAT PERIN
5919	PERIVESICAL INCISION NEC	7592	EVAC OB HEMAT VULVA/VAG
610	SCROTUM & TUNICA I & D	8604	OTHER SKIN & SUBQ I & D
6998	UTERINE SUPPORT OP NEC		

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 DRGs
 - Appendix C – Surgical MS-DRGs
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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)

* Only for cases that otherwise qualify for the numerator

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

ICD-9-CM Coagulopathy diagnosis codes^{1,2}:

2860	CONG FACTOR VIII DIORD	2871	THROMBOCYTOPATHY
2861	CONG FACTOR IX DISORDER	2873	<i>PRIMARY THROMBOCYTOPENIA</i>
2862	CONG FACTOR XI DISORDER	28730	PRIM THROMBOCYTOPEN NOS
2863	CONG DEF CLOT FACTOR NEC	28731	IMMUNE THROMBOCYT PURPRA
2864	VON WILLEBRAND'S DISEASE	28732	EVANS' SYNDROME
2865	<i>CIRCULATING ANTICOAG DIS</i>	28733	CONG/HERID THROMB PURPRA
28652	ACQUIRED HEMOPHILIA	28739	PRIM THROMBOCYTOPEN NEC
28653	ANTIPHOSPHOLIPID W HEMOR	2874	<i>SECOND THROMBOCYTOPENIA</i>
28659	OT HEM D/T CIRC ANTICOAG	28741	POSTTRANSFUSION PURPURA
2866	DEFIBRATION SYNDROME	2875	THROMBOCYTOPENIA NOS
2867	ACQ COAGUL FACTOR DEFIC	2878	HEMORRHAGIC COND NEC
2869	COAGULAT DEFECT NEC NOS	2879	HEMORRHAGIC COND NOS

¹ Italicized codes are not active in the current fiscal year.

² Bolded codes are new to the current fiscal year.

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

3965 EXTRACORPOREAL MEMB OXY

Low risk group:

All patients not qualifying as high risk.