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

--- AND ---

- 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 ADENOIDECTION
3880  OTHER SURGICAL OCCLUSION OF UNSPECIFIED SITE
3881  OTHER SURGICAL OCCLUSION OF INTRACRANIAL VESSELS
3882  OTHER SURGICAL OCCLUSION OF OTHER VESSELS OF HEAD AND NECK
3883  OTHER SURGICAL OCCLUSION OF UPPER LIMB VESSELS
3884  OTHER SURGICAL OCCLUSION OF AORTA, ABDOMINAL
3885  OTHER SURGICAL OCCLUSION OF THORACIC VESSEL
3886  OTHER SURGICAL OCCLUSION OF ABDOMINAL ARTERIES
3887  OTHER SURGICAL OCCLUSION OF ABDOMINAL VEINS
3888  OTHER SURGICAL OCCLUSION OF LOWER LIMB ARTERIES
3889  OTHER SURGICAL OCCLUSION OF LOWER LIMB VEINS
3941  CONTROL OF HEMORRHAGE FOLLOWING VASCULAR SURGERY
3998  CONTROL OF HEMORRHAGE NOS
4995  CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF ANUS
5793  CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF BLADDER
6094  CONTROL OF (POSTOPERATIVE) HEMORRHAGE OF PROSTATE
610  INCISION AND DRAINAGE OF SCROTUM AND TUNICA AND VAGINALIS
6998  OTHER OPERATIONS ON SUPPORTING STRUCTURES OF UTERUS
7014  OTHER VAGINOTOMY
7109  OTHER INCISION OF VULVA AND PERINEUM
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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>2860</td>
<td>CONG FACTOR VIII DIORD</td>
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<tr>
<td>2861</td>
<td>CONG FACTOR IX DISORDER</td>
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<tr>
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<td>CONG FACTOR XI DISORDER</td>
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<tr>
<td>2863</td>
<td>CONG DEF CLOT FACTOR NEC</td>
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<tr>
<td>2864</td>
<td>VON WILLEBRAND'S DISEASE</td>
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<tr>
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<td>2866</td>
<td>DEFIBRINATION SYNDROME</td>
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<td>2871</td>
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</tr>
<tr>
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<tr>
<td>28730</td>
<td>PRIM THROMBOCYTOPEN NOS</td>
</tr>
</tbody>
</table>
ICD-9-CM Extracorporeal membrane oxygenation (ECMO) procedure code:
3965 ECMO

Low risk group:

All patients not qualifying as high risk.