Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate

Patient Safety Indicators #12
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 ICD-9-CM codes for deep vein thrombosis or pulmonary embolism in any secondary diagnosis field.

ICD-9-CM Deep vein thrombosis diagnosis codes¹:
45111  FEMORAL VEIN PHLEBITIS
45119  DEEP PHLEBITIS-LEG NEC
4512   THROMBOPHLEBITIS LEG NOS
45181  ILIAC THROMBOPHLEBITIS
4519   THROMBOPHLEBITIS NOS
45340  AC DVT/EMBL LOW EXT NOS

ICD-9-CM Pulmonary embolism diagnosis codes¹²:
4151   PULMONARY EMBOLISM AND INFARCTION
41511  IATROGEN PULM EMB/INFARC
41513  SADDLE EMBOL PULMON ART
41519  PULM EMBOL/INFARCT NEC

¹ Italicized codes are not active in the current fiscal year.
² Bolded codes are new to the current fiscal year.

Denominator

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

See Patient Safety Indicators Appendices:
• Appendix A – Operating Room Procedure Codes
• Appendix D – Surgical Discharge DRGs
• Appendix E – Surgical Discharge MS-DRGs

Exclude cases:
• with principal diagnosis of deep vein thrombosis or pulmonary embolism or secondary diagnosis present on admission*
• where a procedure for interruption of vena cava is the only operating room procedure
where a procedure for interruption of vena cava occurs before or on the same day as 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.

- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing 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

**ICD-9-CM Interruption of vena cava procedure code:**
387  INTERUPTTION OF VENA CAVA