

# Postoperative Pulmonary Embolism or Deep Vein Thrombosis Rate

## Patient Safety Indicators #12 Technical Specifications

### Provider-Level Indicator

### AHRQ Quality Indicators, Version 4.3, August 2011

Version 4.3a is a maintenance release of Version 4.3. The differences between the two versions are:

- Version 4.3a includes Version 29 of the Limited License edition of the 3M™ APR-DRG Grouper. This grouper corrects an issue found in Version 28 of the Limited License edition of the 3M™ APR-DRG Grouper. The grouper is only used with the Inpatient Quality Indicator (IQI) mortality measures. Version 4.3 includes Version 28 of the Limited License edition of the 3M™ APR-DRG Grouper, which was incorrectly assigning a Risk of Mortality (ROM) subclass for cases dated on or after 10/1/10.
- Version 4.3a allows users to calculate area-level indicators for years 2010 and 2011, correcting an issue previously identified in Version 4.3.

All other aspects of the software, including measure specifications, remain the same. Thus this document (related to Version 4.3) remains unchanged.

## 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 codes:

45111	PHLEBITIS AND THROMBOSIS OF FEMORAL VEIN (DEEP) (SUPERFICIAL)	4519	PHLEBITIS AND THROMBOPHLEBITIS OF OTHER SITES - OF UNSPECIFIED SITE*
45119	PHLEBITIS AND THROMBOPHLEBITIS OF DEEP VESSEL OF LOWER EXTREMITIES – OTHER	45340	DVT-EMBLISM LOWER EXT NOS (OCT04)
4512	PHLEBITIS AND THROMBOPHLEBITIS OF LOWER EXTREMITIES UNSPECIFIED*	45341	DVT-EMB PROX LOWER EXT (OCT04)
45181	PHLEBITIS AND THROMBOPHLEBITIS OF ILIAC VEIN	45342	DVT-EMB DISTAL LOWER EXT (OCT04)
		4538	OTHER VENOUS EMBOLISM AND THROMBOSIS OF OTHER SPECIFIED VEINS*
		4539	OTHER VENOUS EMBOLISM AND THROMBOSIS OF UNSPECIFIED SITE*

\* Does not apply on or after October 1, 2009.

### ICD-9-CM Pulmonary embolism diagnosis codes:

4151	PULMONARY EMBOLISM AND INFARCTION	41519	PULMONARY EMBOLISM AND INFARCTION, OTHER
41511	IATROGENIC PULMONARY EMBOLISM AND INFARCTION		

## 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
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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)

**ICD-9-CM Interruption of vena cava procedure code:**

387 INTERRUPTION OF VENA CAVA