Rate of Complications of Anesthesia

Experimental Quality Indicators #1
Technical Specifications
Provider-Level Indicator
AHRQ Quality Indicators, Version 4.3, August 2011

Numerator

Discharges with ICD-9-CM diagnosis codes for anesthesia complications in any secondary diagnosis field among cases meeting the inclusion and exclusion rules for the denominator.

Adverse effects in therapeutic use, other central nervous system depressants and anesthetics:

- E8763 ENDOTRACHEAL TUBE WRONGLY PLACED DURING ANESTHETIC PROCEDURE
- E9381 HALOTHANE
- E9382 OTHER GASEOUS ANESTHETICS
- E9383 INTRAVENOUS ANESTHETICS
- E9384 OTHER AND UNSPECIFIED GENERAL ANESTHETICS
- E9385 SURFACE AND INfiltrATION ANESTHETICS
- E9386 PERIPHERAL NERVE AND PLEXUS BLOCKING ANESTHETICS
- E9387 SPINAL ANESTHETICS
- E9389 OTHER AND UNSPECIFIED LOCAL ANESTHETICS

Poisoning by other central nervous system depressants and anesthetics:

- 9681 HALOTHANE
- 9682 OTHER GASEOUS ANESTHETICS
- 9683 INTRAVENOUS ANESTHETICS
- 9684 OTHER AND UNSPECIFIED GENERAL
- 9685 ACCIDENTAL POISONING, OTHER
- E8551 AccidentAL POISONING, OTHER NERVOUS SYSTEM DEPRESSANTS

Denominator

All surgical discharges, 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), defined by specific 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 -OR-
- Appendix E – Surgical Discharge MS-DRGs

Exclude cases:

- with ICD-9-CM diagnosis codes for anesthesia complications (see Numerator) in the principal diagnosis field or in a secondary diagnosis field if present on admission, if known
- with codes for self-inflicted injury, poisoning due to anesthetics (E8551, 9681-4, 9687) and any diagnosis code for active drug dependence, or active nondependent abuse of drugs
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

IDC-9-CM Self-inflicted injury diagnosis codes:
Suicide and self-inflicted poisoning by solid or liquid substance:

E9500 ANALGESICS, ANTIPYRETICS, AND ANTIINFLAMMATORY AGENTS
E9501 BARBITURATES
E9502 OTHER SEDATIVE AND HYPNOTICS
E9503 TRANQUILIZERS AND OTHER PSYCHOTROPIC AGENTS
E9504 OTHER SPECIFIED DRUGS AND MEDICINAL SUBSTANCES
E9505 UNSPECIFIED DRUG OR MEDICINAL SUBSTANCE
E9506 AGRICULTURAL AND HORTICULTURAL CHEMICAL AND PHARMACEUTICAL PREPARATIONS OTHER THAN PLANT FOODS AND FERTILIZERS
E9507 CORROSIVE AND CAUSTIC SUBSTANCES
E9508 ARSENIC AND ITS COMPOUNDS
E9509 OTHER AND UNSPECIFIED SOLID AND LIQUID SUBSTANCES

Suicide and self-inflicted injury by firearms and explosives:

E9538 OTHER SPECIFIED MEANS
E954 SUICIDE AND SELF-INFlicted INJURY BY SUBMERSION [DROWNING]
E9550 HANDGUN
E9551 SHOTGUN
E9552 HUNTING RIFLE
E9553 MILITARY FIREARMS
E9554 OTHER AND UNSPECIFIED FIREARMS
E9555 EXPLOSIVES
E9559 UNSPECIFIED
E956 SUICIDE AND SELF-INFlicted INJURY BY CUTTING AND PIERCING INSTRUMENT

Suicide and self-inflicted poisoning by gases in domestic use:

E9510 GAS DISTRIBUTED BY PIPELINE
E9511 LIQUEFIED PETROLEUM GAS DISTRIBUTED IN MOBILE CONTAINERS
E9518 OTHER UTILITY GASES
E9520 MOTOR VEHICLE EXHAUST GAS
E9521 OTHER CARBON MONOXIDE
E9528 OTHER SPECIFIED GASES AND VAPORS
E9529 UNSPECIFIED GASES AND VAPORS
E9530 HANGING
E9531 SUICIDE AND SELF-INFlicted INJURY BY SUBMERSION [DROWNING]

ICD-9-CM Active drug dependence diagnosis codes:

30400 OPIOID TYPE DEPENDENCE - UNSPECIFIED
30401 OPIOID TYPE DEPENDENCE - CONTINUOUS
30402 OPIOID TYPE DEPENDENCE - EPISODIC
30410 BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC DEPENDENCE - UNSPECIFIED
30411 BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC DEPENDENCE - CONTINUOUS
30412 BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC DEPENDENCE - EPISODIC
30420 COCAINE DEPENDENCE - UNSPECIFIED
30421 COCAINE DEPENDENCE - CONTINUOUS
30422 COCAINE DEPENDENCE - EPISODIC
30430 CANNABIS DEPENDENCE - UNSPECIFIED
30431 CANNABIS DEPENDENCE - CONTINUOUS
30432 CANNABIS DEPENDENCE - EPISODIC
30440 AMPHETAMINE AND OTHER PSYCHOSTIMULANT DEPENDENCE - UNSPECIFIED
30480 COMBINATIONS OF OPIOID TYPE DRUG W/ ANY OTHER - UNSPECIFIED
30481 COMBINATIONS OF OPIOID TYPE DRUG W/ ANY OTHER - CONTINUOUS
30482 COMBINATIONS OF OPIOID TYPE DRUG W/ ANY OTHER - EPISODIC
ICD-9-CM Active nondependent abuse of drugs diagnosis codes:

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