

# Rate of Complications of Anesthesia

## Experimental Quality Indicators #1

### 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 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	E9385	SURFACE AND INFILTRATION ANESTHETICS
E9381	HALOTHANE	E9386	PERIPHERAL NERVE AND PLEXUS BLOCKING ANESTHETICS
E9382	OTHER GASEOUS ANESTHETICS	E9387	SPINAL ANESTHETICS
E9383	INTRAVENOUS ANESTHETICS	E9389	OTHER AND UNSPECIFIED LOCAL ANESTHETICS
E9384	OTHER AND UNSPECIFIED GENERAL ANESTHETICS		

Poisoning by other central nervous system depressants and anesthetics:

9681	HALOTHANE		ANESTHETICS
9682	OTHER GASEOUS ANESTHETICS	9687	SPINAL ANESTHETICS
9683	INTRAVENOUS ANESTHETICS	E8551	ACCIDENTAL POISONING, OTHER
9684	OTHER AND UNSPECIFIED GENERAL		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

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- 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)

**ICD-9-CM Self-inflicted injury diagnosis codes:**

Suicide and self-inflicted poisoning by solid or liquid substance:

E9500	ANALGESICS, ANTIPYRETICS, AND ANTIRHEUMATICS
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 poisoning by gases in domestic use:

E9510	GAS DISTRIBUTED BY PIPELINE
E9511	LIQUEFIED PETROLEUM GAS DISTRIBUTED IN MOBILE CONTAINERS
E9518	OTHER UTILITY GASES

Suicide and self-inflicted poisoning by other gases and vapors:

E9520	MOTOR VEHICLE EXHAUST GAS
E9521	OTHER CARBON MONOXIDE
E9528	OTHER SPECIFIED GASES AND VAPORS
E9529	UNSPECIFIED GASES AND VAPORS
E9530	HANGING
E9531	SUFFOCATION BY PLASTIC BAG

**ICD-9-CM Active drug dependence diagnosis codes:**

30400	OPIOID TYPE DEPENDENCE - UNSPECIFIED
30401	OPIOID TYPE DEPENDENCE - CONTINUOUS
30402	OPIOID TYPE DEPENDENCE - EPISODIC

E9538	OTHER SPECIFIED MEANS
E954	SUICIDE AND SELF-INFLICTED INJURY BY SUBMERSION [DROWNING]

Suicide and self-inflicted injury by firearms and explosives:

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 injury by jumping from a high place:

E9570	RESIDENTIAL PREMISES
E9571	OTHER MAN-MADE STRUCTURES
E9572	NATURAL SITES
E9579	UNSPECIFIED

Suicide and self-inflicted injury by other and unspecified means:

E9580	JUMPING OR LYING BEFORE MOVING OBJECT
E9581	BURNS, FIRE
E9582	SCALD
E9583	EXTREMES OF COLD
E9584	ELECTROCUTION
E9585	CRASHING OF MOTOR VEHICLE
E9586	CRASHING OF AIRCRAFT
E9587	CAUSTIC SUBSTANCES EXCEPT POISONING
E9588	OTHER SPECIFIED MEANS
E9589	UNSPECIFIED MEANS

30410	BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC DEPENDENCE - UNSPECIFIED
30411	BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC DEPENDENCE

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30412	- CONTINUOUS BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC DEPENDENCE - EPISODIC	30452	HALLUCINOGEN DEPENDENCE - EPISODIC
30420	COCAINE DEPENDENCE - UNSPECIFIED	30460	OTHER SPECIFIED DRUG DEPENDENCE - UNSPECIFIED
30421	COCAINE DEPENDENCE - CONTINUOUS	30461	OTHER SPECIFIED DRUG DEPENDENCE - CONTINUOUS
30422	COCAINE DEPENDENCE - EPISODIC	30462	OTHER SPECIFIED DRUG DEPENDENCE - EPISODIC
30430	CANNABIS DEPENDENCE - UNSPECIFIED	30470	COMBINATIONS OF OPIOID TYPE DRUG W/ ANY OTHER - UNSPECIFIED
30431	CANNABIS DEPENDENCE - CONTINUOUS	30471	COMBINATIONS OF OPIOID TYPE DRUG W/ ANY OTHER - CONTINUOUS
30432	CANNABIS DEPENDENCE - EPISODIC	30472	COMBINATIONS OF OPIOID TYPE DRUG W/ ANY OTHER - EPISODIC □30480
30440	AMPHETAMINE AND OTHER PSYCHO STIMULANT DEPENDENCE - UNSPECIFIED	30481	COMBINATIONS OF DRUG EXCLUDING OPIOID TYPE DRUG - CONTINUOUS
30441	AMPHETAMINE AND OTHER PSYCHO STIMULANT DEPENDENCE - CONTINUOUS	30482	COMBINATIONS OF DRUG EXCLUDING OPIOID TYPE DRUG - EPISODIC
30442	AMPHETAMINE AND OTHER PSYCHO STIMULANT DEPENDENCE - EPISODIC	30490	UNSPECIFIED DRUG DEPENDENCE - UNSPECIFIED
30450	HALLUCINOGEN DEPENDENCE - UNSPECIFIED	30491	UNSPECIFIED DRUG DEPENDENCE - CONTINUOUS
30451	HALLUCINOGEN DEPENDENCE - CONTINUOUS	30492	UNSPECIFIED DRUG DEPENDENCE - EPISODIC

**ICD-9-CM Active nondependent abuse of drugs diagnosis codes:**

30520	CANNABIS ABUSE - UNSPECIFIED	30570	AMPHETAMINE OR RELATED ACTING SYMPATHOMIMETIC ABUSE - UNSPECIFIED
30521	CANNABIS ABUSE - CONTINUOUS	30571	AMPHETAMINE OR RELATED ACTING SYMPATHOMIMETIC ABUSE - CONTINUOUS
30522	CANNABIS ABUSE - EPISODIC	30572	AMPHETAMINE OR RELATED ACTING SYMPATHOMIMETIC ABUSE - EPISODIC
30530	HALLUCINOGEN ABUSE - UNSPECIFIED	30580	ANTIDEPRESSANT TYPE ABUSE - UNSPECIFIED
30531	HALLUCINOGEN ABUSE - CONTINUOUS	30581	ANTIDEPRESSANT TYPE ABUSE - CONTINUOUS
30532	HALLUCINOGEN ABUSE - EPISODIC	30582	ANTIDEPRESSANT TYPE ABUSE - EPISODIC
30540	BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC ABUSE - UNSPECIFIED	30590	OTHER, MIXED, OR UNSPECIFIED DRUG ABUSE - UNSPECIFIED
30541	BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC ABUSE - CONTINUOUS	30591	OTHER, MIXED, OR UNSPECIFIED DRUG ABUSE - CONTINUOUS
30542	BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC ABUSE - EPISODIC	30592	OTHER, MIXED, OR UNSPECIFIED DRUG ABUSE - EPISODIC
30550	OPIOID ABUSE - UNSPECIFIED		
30551	OPIOID ABUSE - CONTINUOUS		
30552	OPIOID ABUSE - EPISODIC		
30560	COCAINE ABUSE - UNSPECIFIED		
30561	COCAINE ABUSE - CONTINUOUS		
30562	COCAINE ABUSE - EPISODIC		