### 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	E9385	SURFACE AND INFILTRATION
	PLACED DURING ANESTHETIC		ANESTHETICS
	PROCEDURE	E9386	PERIPHERAL NERVE AND PLEXUS
E9381	HALOTHANE		BLOCKING ANESTHETICS
E9382	OTHER GASEOUS ANESTHETICS	E9387	SPINAL ANESTHETICS
E9383	INTRAVENOUS ANESTHETICS	E9389	OTHER AND UNSPECIFIED LOCAL
E9384	OTHER AND UNSPECIFIED GENERAL		ANESTHETICS
	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 <u>and</u> 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)

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

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Suicide	and self-inflicted poisoning by solid or	E9538	OTHER SPECIFIED MEANS
liquid substance:		E954	SUICIDE AND SELF-INFLICTED INJURY
E9500			BY SUBMERSION [DROWNING]
E9500	ANALGESICS, ANTIPYRETICS, AND	Suicide	e and self-inflicted injury by firearms and
	ANTIRHEUMATICS		
E9501	BARBITURATES	explosi	
E9502	OTHER SEDATIVE AND HYPNOTICS	E9550	HANDGUN
E9503	TRANQUILIZERS AND OTHER	E9551	SHOTGUN
	PSYCHOTROPIC AGENTS	E9552	HUNTING RIFLE
E9504	OTHER SPECIFIED DRUGS AND	E9553	MILITARY FIREARMS
_000.	MEDICINAL SUBSTANCES	E9554	OTHER AND UNSPECIFIED FIREARMS
E9505	UNSPECIFIED DRUG OR MEDICINAL	E9555	EXPLOSIVES
L3303	SUBSTANCE	E9559	UNSPECIFIED
E0500			
E9506	AGRICULTURAL AND HORTICULTURAL	E956	SUICIDE AND SELF INFLICTED INJURY
	CHEMICAL AND PHARMACEUTICAL		BY CUTTING AND PIERCING
	PREPARATIONS OTHER THAN PLANT	-	INSTRUMENT
	FOODS AND FERTILIZERS	Suicide	e and self-inflicted injury by jumping from
E9507	CORROSIVE AND CAUSTIC	a high	
	SUBSTANCES	E9570	
E9508	ARSENIC AND ITS COMPOUNDS		
E9509	OTHER AND UNSPECIFIED SOLID AND	E9571	
L3303	LIQUID SUBSTANCES	E9572	NATURAL SITES
0 '.'.			UNSPECIFIED
	and self-inflicted poisoning by gases in	Suicide	e and self-inflicted injury by other and
domest		unspec	cified means:
E9510	GAS DISTRIBUTED BY PIPELINE	E9580	JUMPING OR LYING BEFORE MOVING
E9511	LIQUEFIED PETROLEUM GAS	_0000	OBJECT
	DISTRIBUTED IN MOBILE CONTAINERS	E9581	BURNS, FIRE
E9518	OTHER UTILITY GASES	E9582	SCALD
	and self-inflicted poisoning by other		
	, , ,	E9583	EXTREMES OF COLD
	and vapors:	E9584	
E9520	MOTOR VEHICLE EXHAUST GAS	E9585	
E9521	OTHER CARBON MONOXIDE	E9586	CRASHING OF AIRCRAFT
E9528	OTHER SPECIFIED GASES AND VAPORS	E9587	CAUSTIC SUBSTANCES EXCEPT
E9529	UNSPECIFIED GASES AND VAPORS		POISONING
E9530	HANGING	E9588	OTHER SPECIFIED MEANS
E9531	SUFFOCATION BY PLASTIC BAG	E9589	UNSPECIFIED MEANS
		_	
	CM Active drug dependence diagnosis co	des:	
30400	OPIOID TYPE DEPENDENCE -		UNSPECIFIED
	UNSPECIFIED	30441	AMPHETAMINE AND OTHER PSYCHO
30401	OPIOID TYPE DEPENDENCE -		STIMULANT DEPENDENCE -
	CONTINUOUS		CONTINUOUS
30402	OPIOID TYPE DEPENDENCE - EPISODIC	30442	AMPHETAMINE AND OTHER PSYCHO
30410	BARBITURATE AND SIMILARLY ACTING	30442	STIMULANT DEPENDENCE - EPISODIC
30410		20450	HALLUCINOGEN DEPENDENCE -
	SEDATIVE OR HYPNOTIC DEPENDENCE	30450	
	- UNSPECIFIED		UNSPECIFIED
30411	BARBITURATE AND SIMILARLY ACTING	30451	HALLUCINOGEN DEPENDENCE -
	SEDATIVE OR HYPNOTIC DEPENDENCE		CONTINUOUS
	- CONTINUOUS	30452	HALLUCINOGEN DEPENDENCE -
30412	BARBITURATE AND SIMILARLY ACTING		EPISODIC
	SEDATIVE OR HYPNOTIC DEPENDENCE	30460	OTHER SPECIFIED DRUG DEPENDENCE
	- EPISODIC	00.00	- UNSPECIFIED
30420	COCAINE DEPENDENCE - UNSPECIFIED	30461	OTHER SPECIFIED DRUG DEPENDENCE
		30401	- CONTINUOUS
30421	COCAINE DEPENDENCE - CONTINUOUS	00.400	
30422	COCAINE DEPENDENCE - EPISODIC	30462	OTHER SPECIFIED DRUG DEPENDENCE
30430	CANNABIS DEPENDENCE -	_	- EPISODIC
	UNSPECIFIED	30470	COMBINATIONS OF OPIOID TYPE DRUG
30431	CANNABIS DEPENDENCE -		W/ ANY OTHER - UNSPECIFIED
	CONTINUOUS	30471	COMBINATIONS OF OPIOID TYPE DRUG
30432	CANNABIS DEPENDENCE - EPISODIC		W/ ANY OTHER - CONTINUOUS
30440	AMPHETAMINE AND OTHER PSYCHO	30472	COMBINATIONS OF OPIOID TYPE DRUG
30 . 10	STIMULANT DEPENDENCE -	30 11 2	W/ ANY OTHER - EPISODIC 30480
	OTHWOLANT DELENDENCE -		WITHIN OHIER - ELIGODIC 30400

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30481 30482 30490	COMBINATIONS OF DRUG EXCLUDING OPIOID TYPE DRUG - CONTINUOUS COMBINATIONS OF DRUG EXCLUDING OPIOID TYPE DRUG - EPISODIC UNSPECIFIED DRUG DEPENDENCE -	30491 30492	UNSPECIFIED UNSPECIFIED DRUG DEPENDENCE - CONTINUOUS UNSPECIFIED DRUG DEPENDENCE - EPISODIC			
ICD-9-CM Active nondependent abuse of drugs diagnosis codes:						
30520 30521 30522	CANNABIS ABUSE - UNSPECIFIED CANNABIS ABUSE - CONTINUOUS CANNABIS ABUSE - EPISODIC	30570	AMPHETAMINE OR RELATED ACTING SYMPATHOMIMETIC ABUSE - UNSPECIFIED			
30530 30531 30532	HALLUCINOGEN ABUSE - UNSPECIFIED HALLUCINOGEN ABUSE - CONTINUOUS HALLUCINOGEN ABUSE - EPISODIC	30571	AMPHETAMINE OR RELATED ACTING SYMPATHOMIMETIC ABUSE - CONTINUOUS			
30540	BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC ABUSE - UNSPECIFIED	30572 30580	AMPHETAMINE OR RELATED ACTING SYMPATHOMIMETIC ABUSE - EPISODIC ANTIDEPRESSANT TYPE ABUSE -			
30541	BARBITURATE AND SIMILARLY ACTING	30360	UNSPECIFIED			
	SEDATIVE OR HYPNOTIC ABUSE - CONTINUOUS	30581	ANTIDEPRESSANT TYPE ABUSE - CONTINUOUS			
30542	BARBITURATE AND SIMILARLY ACTING SEDATIVE OR HYPNOTIC ABUSE -	30582	ANTIDEPRESSANT TYPE ABUSE - EPISODIC			
00550	EPISODIC	30590	OTHER, MIXED, OR UNSPECIFIED DRUG			
30550 30551 30552	OPIOID ABUSE - UNSPECIFIED OPIOID ABUSE - CONTINUOUS OPIOID ABUSE - EPISODIC	30591	ABUSE - UNSPECIFIED OTHER, MIXED, OR UNSPECIFIED DRUG ABUSE - CONTINUOUS			
30560 30561 30562	COCAINE ABUSE - UNSPECIFIED COCAINE ABUSE - CONTINUOUS COCAINE ABUSE - EPISODIC	30592	OTHER, MIXED, OR UNSPECIFIED DRUG ABUSE - EPISODIC			