

Rate of Complications of Anesthesia

Experimental Quality Indicators #1

Technical Specifications

Provider-Level Indicator

AHRQ Quality Indicators, Version 4.4, March 2012

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.

ICD-9-CM Adverse effects in therapeutic use, other central nervous system depressants and anesthetics codes:

E8763	MISPLACED ENDOTRACH TUBE	E9385	ADV EFF TOPIC/INFIL ANES
E9381	ADD EFF HALOTHANE	E9386	ADV EFF NERVE-BLOCK ANES
E9382	ADV EFF GAS ANESTHET NEC	E9387	ADV EFF SPINAL ANESTHET
E9383	ADV EFF INTRAVEN ANESTH	E9389	ADV EFF LOC ANES NEC/NOS
E9384	ADV EFF GEN ANES NEC/NOS		

ICD-9-CM Poisoning by other central nervous system depressants and anesthetics codes:

9681	POISONING-HALOTHANE	9684	POIS-GEN ANESTH NEC/NOS
9682	POISON-GAS ANESTHET NEC	9687	POISON-SPINAL ANESTHETIC
9683	POISON-INTRAVEN ANESTHET	E8551	ACC POISN-CNS DEPRES NEC

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
- 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 poisoning due to anesthetics (E8551, 9681-4, 9687) **and** any diagnosis code for [active drug dependence **or** active nondependent abuse of drugs **or** self-inflicted injury]
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

See *Patient Safety Indicators Appendix*:

- Appendix K –Self-Inflicted Injury Diagnosis Codes

ICD-9-CM Active drug dependence diagnosis codes:

30400	OPIOID DEPENDENCE-UNSPEC	30450	HALLUCINOGEN DEP-UNSPEC
30401	OPIOID DEPENDENCE-CONTIN	30451	HALLUCINOGEN DEP-CONTIN
30402	OPIOID DEPENDENCE-EPISOD	30452	HALLUCINOGEN DEP-EPISOD
30410	SED,HYP,ANZIOLYT DEP-NOS	30460	DRUG DEPEND NEC-UNSPEC
30411	SED,HYP,ANZIOLYT DEP-CON	30461	DRUF DEPEND NEC-CONTIN
30412	SED,HYP,ANZIOLYT DEP-EPI	30462	DRUG DEPEND-NEC EPISODIC
30420	COCAINE DEPEND-UNSPEC	30470	OPIOID/OTHER DEP-UNPSPEC
30421	COCAINE DEPEND-CONTIN	30471	OPIOID/OTHER DEP-CONTIN
30422	COCAINE DEPEND-EPISODIC	30472	OPIOD/OTHER DEP-EPISOD
30430	CANNABIS DEPEND-UNSPEC	30480	COMB DRUG DEP-UNSPEC
30431	CANNABIS DEPEND-CONTIN	30481	COMB DRUG DEP NEC-CONTIN
30432	CANNABIS DEPEND-EPISOD	30482	COMB DRUF DEP NEC-EPISOD
30440	AMPHETAMIN DEPEND-UNSPEC	30490	DRUG DEPEND NOS-UNSPEC
30441	AMPHETAMIN DEPEND-CONTIN	30491	DRUG DEPEND NOS-CONTIN
30442	AMPHETAMIN DEPEND-EPISOD	30492	DRUG DEPEND NOS-EPISODIC

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

30520	CANNABIS ABUSE-UNSPEC	30560	COCAINE ABUSE-UNSPEC
30521	CANNABIS ABUSE-CONTIN	30561	COCAINE ABUSE-CONTINUOUS
30522	CANNABIS ABUSE-EPISODIC	30562	COCAINE ABUSE-EPISODIC
30530	HALLUCINO ABUSE-UNSPEC	30570	AMPHETAMINE ABUSE-UNSPEC
30531	HALLUCINO ABUSE-CONTIN	30571	AMPHETAMINE ABUSE-CONTIN
30532	HALLUCINO ABUSE-EPISOD	30572	AMPHETAMINE ABUSE-EPISOD
30540	SED,HYP,ANZIOLYT AB-NOS	30580	ANTIDEPRESS ABUSE-UNSPEC
30541	SED,HYP,ANZIOLYT AB-CON	30581	ANTIDEPRESS ABUSE-CONTIN
30542	SED,HYP,ANZIOLYT AB-EPI	30582	ANTIDEPRESS ABUSE-EPISOD
30550	OPIOID ABUSE-UNSPEC	30590	DRUG ABUSE NEC-UNSPEC
30551	OPIOID ABUSE-CONTINUOUS	30591	DRUG ABUSE NEC-CONTIN
30552	OPIOID ABUSE-EPISODIC	30592	DRUG ABUSE NEC-EPISODIC