

Postoperative Hip Fracture Rate Technical Specifications

Patient Safety Indicators 08 (PSI 08)

AHRQ Quality Indicators™, Version 4.5a, July 2014

Provider-Level Indicator

Type of Score: Rate

Description

Postoperative hip fracture (secondary diagnosis) per 1,000 surgical discharges for patients ages 18 years and older. Excludes cases that are susceptible to falling (seizure disorder, syncope, stroke, occlusion of arteries, coma, cardiac arrest, poisoning, trauma, delirium or other psychoses, anoxic brain injury, metastatic cancer, lymphoid malignancy, bone malignancy, disorders of the musculoskeletal system, and disorders of connective tissue), cases with self-inflicted injury, cases with a principal diagnosis of hip fracture, cases with a secondary diagnosis of hip fracture present on admission, and obstetric cases.

[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report events per 1,000 hospital discharges.]

Numerator

Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with any secondary ICD-9-CM diagnosis codes for hip fracture.

ICD-9-CM Hip fracture diagnosis codes:

82000	FX FEMUR INTRCAPS NOS-CL	82019	FX FEMUR INTRCAP NEC-OPN
82001	FX UP FEMUR EPIPHY-CLOS	82020	TROCHANTERIC FX NOS-CLOS
82002	FX FEMUR, MIDCERVIC-CLOS	82021	INTERTROCHANTERIC FX-CL
82003	FX BASE FEMORAL NCK-CLOS	82022	SUBTROCHANTERIC FX-CLOSE
82009	FX FEMUR INTRCAPS NEC-CL	82030	TROCHANTERIC FX NOS-OPEN
82010	FX FEMUR INTRCAP NOS-OPN	82031	INTERTROCHANTERIC FX-OPN
82011	FX UP FEMUR EPIPHY-OPEN	82032	SUBTROCHANTERIC FX-OPEN
82012	FX FEMUR, MIDCERVIC-OPEN	8208	FX NECK OF FEMUR NOS-CL
82013	FX BASE FEMORAL NCK-OPEN	8209	FX NECK OF FEMUR NOS-OPN

Denominator

Surgical discharges, ages 18 years and older, with any-listed ICD-9-CM procedure codes for an operating room procedure. Surgical discharges are defined by specific DRG or MS-DRG codes.

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 a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission) for hip fracture (see above)
- where the only operating room procedure is hip fracture repair
- where a procedure for hip fracture repair occurs before or on the same day as the first operating room procedure[†]
- with a principal ICD-9-CM diagnosis code for seizure
- with a principal ICD-9-CM diagnosis code for syncope
- with a principal ICD-9-CM diagnosis code for stroke and occlusion of arteries
- with a principal ICD-9-CM diagnosis code for coma
- with a principal ICD-9-CM diagnosis code for cardiac arrest
- with a principal ICD-9-CM diagnosis code for poisoning
- with a principal ICD-9-CM diagnosis code for trauma
- with a principal ICD-9-CM diagnosis code for delirium and other psychoses
- with a principal ICD-9-CM diagnosis code for anoxic brain injury
- with any-listed ICD-9-CM diagnosis codes for metastatic cancer
- with any-listed ICD-9-CM diagnosis codes for lymphoid malignancy
- with any-listed ICD-9-CM diagnosis codes for bone malignancy
- with any-listed ICD-9-CM diagnosis codes for self-inflicted injury
- MDC 8 (diseases and disorders of the musculoskeletal system and connective tissue)
- MDC14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)

See *Patient Safety Indicators Appendices*:

- Appendix G – Trauma Diagnosis Codes
- Appendix K – Self-Inflicted Injury Diagnosis Codes

[†] If day of procedure is not available in the input data file, the rate may be slightly lower than if the information was available

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Postoperative Hip Fracture Rate
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ICD-9-CM Hip fracture repair procedure codes:

7855	INTERNAL FIXATION-FEMUR	7965	DEBRID OPN FX-FEMUR
7905	CL FX FEMUR REDUC-FEMUR	8151	TOTAL HIP REPLACEMENT
7915	CLOSED RED-INT FIX FEMUR	8152	PARTIAL HIP REPLACEMENT
7925	OPEN REDUCTION-FEMUR FX	8153	REVISE HIP REPLACEMENT NOS
7935	OPEN REDUC-INT FIX FEMUR		

ICD-9-CM Seizure diagnosis codes¹:

34500	GEN NONCV EP W/O INTR EP	34570	EPIL PAR CONT W/O INT EP
34501	GEN NONCONV EP W INTR EP	34571	EPIL PAR CONT W INTR EPI
34510	GEN CNV EPIL W/P INTR EP	34580	EPILEP NEC W/O INT EP
34511	GEN CNV EPIL W INTR EPIL	34581	EPILEPSY NEC W INTR EPIL
3452	PETIT MAL STATUS	34590	EPILEP NOS W/O INTR EPIL
3453	GRAND MAL STATUS	34591	EPILEPSY NOS W INTR EPIL
34540	PSYMOTR EPI W/O INT EPI	7803	<i>CONVULSIONS (end 1997)</i>
34541	PSYMOTR EPIL W INTR EPIL	78031	FEBRILE CONVULSIONS NOS
34550	PART EPIL W/O INTR EPIL	78032	COMPLX FEBRILE CONVULSNS
34551	PART EPIL W INTR EPIL	78033	POST TRAUMATIC SEIZURES
34560	INF SPASM W/O INTR EPIL	78039	CONVULSIONS NEC
34561	INF SPASM W/O INT EPIL		

¹ The procedure or diagnosis codes are continuously updated. The current list of ICD-9-CM codes is valid for October 2012 through September 2013. Italicized codes are not active in Fiscal Year 2013.

ICD-9-CM Syncope diagnosis codes:

33701	CAROTID SINUS SYNDROME	7802	SYNCOPE AND COLLAPSE
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ICD-9-CM Stroke and occlusion of arteries diagnosis codes:

430	SUBARACHNOID HEMORRHAGE	43391	OCL ART NOS W INFRCT
431	INTRACEREBRAL HEMORRHAGE	43401	CRBL THRMBS W INFRCT
4320	NONTRAUM EXTRADURAL HEM	43411	CRBL EMBLSM W INFRCT
4321	SUBDURAL HEMORRHAGE	43491	CRBL ART OCL NOS W INFRCT
4329	INTRACRANIAL HEMORR NOS	4350	BASILAR ARTERY SYNDROM
43301	OCL HSLR ART W INFRCT	4351	VERTEBRAL ARTERY SYNDROM
43311	OCL CRTD ART W INFRCT	4353	VERTBROBASLR ARTERY SYND
43321	OCL VRTB ART W INFRCT	436	CVA
43331	OCL MLT BY ART W INFRCT	99702	IATROGEN CV INFARC/HMRHG
43381	OCL SPCF ART W INFRCT		

ICD-9-CM Coma diagnosis codes:

0700	HEPATITIS A WITH COMA	24930	SEC DM OT CMA NT ST UNCN
07020	HPT B ACTE COMA WO DLTA	24931	SEC DM OTH COMA UNCNRD
07021	HPT B ACTE COMA W DLTA	25020	DMII HPRSM NT ST UNCNRD
07022	HPT B CHR N COMA WO DLTA	25021	DMI HPRSM NT ST UNCNRD
07023	HPT B CHR N COMA W DLTA	25022	DMII HPROMLR UNCONTROLD
07041	HPT C ACUTE W HEPAT COMA	25023	DMI HPROMLR UNCON
07042	HPT DLT WO B W HPT COMA	25030	DMII O CM NT ST UNCNRD
07043	HPT E W HEPAT COMA	25031	DMI O CM NT ST UNCNRD
07044	CHRN C HPT C W HEPAT COMA	25032	DMII OTH COMA UNCONTROLD
07049	OTH VRL HEPAT W HPT COMA	25033	DMI OTH COMA UNCONTROLD
0706	VIRAL HEPAT NOS W COMA	2510	HYPOGLYCEMIC COMA
07071	HPT C W HEPATIC COMA NOS	5722	HEPATIC ENCEPHALOPATHY
24920	SEC DM HPROS NT ST UNCN	78001	COMA
24921	SEC DM HPROMLR UNCNRD	78003	PERSISTANT VEGTV STATE

ICD-9-CM Cardiac arrest diagnosis code:

4275	CARDIAC ARREST
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ICD-9-CM Poisoning diagnosis codes¹:

96500	POISONING-OPIUM NOS	96502	POISONING-METHADONE
96501	POISONING-HEROIN	96509	POISONING-OPIATES NEC

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Postoperative Hip Fracture Rate
www.qualityindicators.ahrq.gov**

9656	<i>POISONING-ANTIRHEUMATICS (end 1998)</i>	E8508	ACC POISON-ANALGESIC NEC
96561	POIS-PROPIONIC ACID DERV	E8509	ACC POISON-ANALGESIC NOS
96569	POIS-ANTIRHEUMATIC NEC	E851	ACC POISON-BARBITURATES
9658	POIS-ANALGES/ANTIPYR NEC	E8520	ACC POISN-CHLORL HYDRATE
9660	POISON-OXAZOLIDINE DERIV	E8521	ACC POISON-PARALDEHYDE
9661	POISON-HYDANTOIN DERIVAT	E8522	ACC POISON-BROMINE CMPND
9662	POISONING-SUCCINIMIDES	E8523	ACC POISON-METHAQUALONE
9663	POIS-ANTICONVUL NEC/NOS	E8524	ACC POISON-GLUTETHIMIDE
9664	POIS-ANTI-PARKINSON DRUG	E8525	ACC POISON-MIX SEDTV NEC
9670	POISONING-BARBITURATES	E8528	ACC POISON-SEDATIVES NEC
9671	POISONING-CHLORAL HYDRAT	E8529	ACC POISON-SEDATIVES NOS
9672	POISONING-PARALDEHYDE	E8530	ACC POIS-PHENTHAZ TRANQ
9673	POISONING-BROMINE COMPND	E8531	ACC POIS-BUTYRPHEN TRANQ
9674	POISONING-METHAQUALONE	E8532	ACC POISN-BENZDIAZ TRANQ
9675	POISONING-GLUTETHIMIDE	E8538	ACC POISN-TRANQUILZR NEC
9676	POISON-MIX SEDATIVE NEC	E8539	ACC POISN-TRANQUILZR NOS
9678	POIS-SEDATIVE/HYPNOT NEC	E8540	ACC POISON-ANTIDEPRESSNT
9679	POIS-SEDATIVE/HYPNOT NOS	E8541	ACC POISON-HALLUCINOGENS
9680	POIS-CNS MUSCLE DEPRESS	E8542	ACC POISN-PSYCHSTIMULANT
9681	POISONING-HALOTHANE	E8543	ACC POISON-CNS STIMULANT
9682	POISON-GAS ANESTHET NEC	E8548	ACC POISN PSYCHOTROP NEC
9683	POISON-INTRAVERN ANESTHET	E8550	ACC POISN-ANTICONVULSANT
9684	POIS-GEN ANESTH NEC/NOS	E8551	ACC POISN-CNS DEPRES NEC
9685	SURFCE-TOPIC/INFILT ANES	E8552	ACC POISN-LOCAL ANESTHET
9686	POIS-NERVE/PLEX-BLK ANES	E8553	ACC POISON-CHOLINERGICS
9687	POISON-SPINAL ANESTHETIC	E8554	ACC POISN-ANTICHOLINERG
9689	POIS-LOCAL ANEST NEC/NOS	E8555	ACC POISON-ADRENERGICS
9690	<i>POISONING-ANTIDEPRESSANT (end 2009)</i>	E8556	ACC POISN-SYMPATHOLYTICS
96900	POISONING-ANTIDEPRESNT NOS	E8558	ACC POISON-CNS DRUG NEC
96901	POIS MONOAMINE OXIDASE	E8559	ACC POISON-CNS DRUG NOS
96902	POIS SEROTN/NOREPINEPHRN	E856	ACC POISON-ANTIBIOTICS
96903	POIS SEROTININ REUPDATE	E857	ACC POIS-OTH ANTI-INFECT
96904	POIS TETRACYCLC ANDEPRES	E8580	ACC POISON-HORMONES
96905	POIS TRICYCLC ANTIDEPRES	E8581	ACC POISN-SYSTEMIC AGENT
96909	POIS ANTIDEPRESSANTS NEC	E8582	ACC POISON-BLOOD AGENT
9691	POIS-PHENOTHIAZINE TRANQ	E8583	ACC POISN-CARDIOVASC AGT
9692	POIS-BUTYROPHENONE TRANQ	E8584	ACC POISON-GI AGENT
9693	POISON-ANTI-PSYCHOTIC NEC	E8585	ACC POISN-METABOL AGNT
9694	POIS-BENZODIAZEPINE TRAN	E8586	ACC POISN-MUSCL/RESP AGT
9695	POISON-TRANQUILIZER NEC	E8587	ACC POISN-SKIN/EENT AGNT
9696	POISONING-HALLUCINOGENS	E8588	ACC POISONING-DRUG NEC
9697	<i>POISON-PSYCHOSTIMULANTS (end 2009)</i>	E8589	ACC POISONING-DRUG NOS
96970	POIS PSYCHOSTIMULANT NOS	E8600	ACC POISN-ALCOHOL BEVRAG
96971	POISONING BY CAFFEINE	E8601	ACC POISON-ETHYL ALCOHOL
96972	POISONING BY AMPHETAMINE	E8602	ACC POISN-METHYL ALCOHOL
96973	POISON BY METHYLPHENDATE	E8603	ACC POISN-ISOPROPYL ALC
96979	POISON BY PSYCHOSTIM NEC	E8604	ACC POISON-FUSEL OIL
9698	POISON-PSYCHOTROPIC NEC	E8608	ACC POISON-ALCOHOL NEC
9699	POISON-PSYCHOTROPIC NOS	E8609	ACC POISON-ALCOHOL NOS
9752	POIS-SKELET MUSCLE RELAX	E8610	ACC POIS-SYNTH DETERGENT
E8500	ACC POISON-HEROIN	E8611	ACC POISON-SOAP PRODUCTS
E8501	ACC POISON-METHADONE	E8612	ACC POISON-POLISHES
E8502	ACC POISON-OPIATES NEC	E8613	ACC POISON-CLEANSER NEC
E8503	ACC POISON-SALICYLATES	E8614	ACC POISON-DISINFECTANTS
E8504	ACC POISON-AROM ANALGESC	E8615	ACC POISON-LEAD PAINTS
E8505	ACC POISON-PYRAZOLE DERV	E8616	ACC POISON-PAINTS NEC
E8506	ACC POISON-ANTIRHEUMATIC	E8619	ACC POISON-CLEANSER NOS
E8507	ACC POISON-NONNARC ANALG	E8620	ACC POISN-PETROL SOLVENT
		E8621	ACC POISN-PETROLEUM FUEL
		E8622	ACC POIS-LUBRICATING OIL
		E8623	ACC POIS-PETROLEUM SOLID

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Postoperative Hip Fracture Rate
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E8624	ACC POISN-SOLVENTS NEC	E8683	ACC POIS-CO/DOMESTC FUEL
E8629	ACC POISN-SOLVENT NOS	E8688	ACC POIS-CARBON MONOX NEC
E8630	ACC POIS-CHLORINE PESTIC	E8689	ACC POIS-CARBON MONOX NOS
E8631	ACC POIS-PHOSPH PESTICID	E8690	ACC POISN-NITROGEN OXIDE
E8632	ACC POISON-CARBAMATES	E8691	ACC POISN-SULFUR DIOXIDE
E8633	ACC POISN-MIXED PESTICID	E8692	ACC POISON-FREON
E8634	ACC POISON-PESTICIDE NEC	E8693	ACC POISON-TEAR GAS
E8635	ACC POISON-HERBICIDES	E8694	SCNDHND TBCCO SMOKE
E8636	ACC POISON-FUNGICIDES	E8698	ACC POISON-GAS/VAPOR NEC
E8637	ACC POISON-RODENTICIDES	E8699	ACC POISON-GAS/VAPOR NOS
E8638	ACC POISON-FUMIGANTS	E9510	POISON-PIPED GAS
E8639	ACC POIS-AGRCULT NEC/NOS	E9511	POISON-GAS IN CONTAINER
E8640	ACC POIS-CORROSIV AROMAT	E9518	POISON-UTILITY GAS NEC
E8641	ACC POISON-ACIDS	E9520	POISON-EXHAUST GAS
E8642	ACC POISN-CAUSTIC ALKALI	E9521	POISON-CO NEC
E8643	ACC POISON-CAUSTIC NEC	E9528	POISON-GAS/VAPOR NEC
E8644	ACC POISON-CAUSTIC NOS	E9529	POISON-GAS/VAPOR NOS
E8650	ACC POISON-MEAT	E9620	ASSAULT-POIS W MEDIC AGT
E8651	ACC POISON-SHELLFISH	E9621	ASSAULT-POIS W SOLID/LIQ
E8652	ACC POISON-FISH NEC	E9622	ASSAULT-POIS W GAS/VAPOR
E8653	ACC POISON-BERRIES/SEEDS	E9629	ASSAULT-POISONING NOS
E8654	ACC POISON-PLANTS NEC	E9800	UNDETERM POIS-ANALGESICS
E8655	ACC POISON-MUSHROOMS	E9801	UNDETERM POIS-BARBITURAT
E8658	ACC POISON-FOOD NEC	E9802	UNDET POIS-SED/HYPN NEC
E8659	ACC POISN-FOOD/PLANT NOS	E9803	UNDETERM POIS-PSYCHOTROP
E8660	ACC POISONING-LEAD	E9804	UNDET POIS-MED AGNT NEC
E8661	ACC POISONING-MERCURY	E9805	UNDET POIS-MED AGNT NOS
E8662	ACC POISONING-ANTIMONY	E9806	UNDET POIS-CORROS/CAUST
E8663	ACC POISONING-ARSENIC	E9807	UNDET POIS-AGRICULT AGNT
E8664	ACC POISON-METALS NEC	E9808	UNDETERM POIS-ARSENIC
E8665	ACC POISON-PLANT FOOD	E9809	UNDETERM POIS-SOL/LIQ NEC
E8666	ACC POISON-GLUES	E9810	UNDETERM POIS-PIPED GAS
E8667	ACC POISON-COSMETICS	E9811	UNDET POIS-CONTAINER GAS
E8668	ACC POIS-SOLID/LIQ NEC	E9818	UNDET POIS-UTIL GAS NEC
E8669	ACC POIS-SOLID/LIQ NOS	E9820	UNDETERM POIS-EXHAUST GAS
E867	ACC POISON-PIPED GAS	E9821	UNDETERM POISON-CO NEC
E8680	ACC POIS-LIQ PETROL GAS	E9828	UNDET POIS-GAS/VAPOR NEC
E8681	ACC POIS-UTL GAS NEC/NOS	E9829	UNDET POIS-GAS/VAPOR NOS
E8682	ACC POISON-EXHAUST GAS		

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ICD-9-CM Delirium and other psychoses diagnosis codes¹:

2900	SENILE DEMENTIA UNCOMP	2914	PATHOLOGIC ALCOHOL INTOX
29010	PRESENILE DEMENTIA	2915	ALCOH PSYCH DIS W DELUS
29011	PRESENILE DELIRIUM	2918	<i>ALCOHOLIC PSYCHOSIS NEC (end 1996)</i>
29012	PRESENILE DELUSION	29181	ALCOHOL WITHDRAWAL
29013	PRESENILE DEPRESSION	29189	ALCOH MENTAL DISOR NEC
29020	SENILE DELUSION	2919	ALCOHOL MENTAL DISOR NOS
29021	SENILE DEPRESSIVE	2920	DRUG WITHDRAWAL
2903	SENILE DELIRIUM	29211	DRUG PSYCH DISOR W DELUS
29040	VASCULAR DEMENTIA, UNCOMP	29212	DRUG PSY DIS W HALLUCIN
29041	VASC DEMENTIA W DELIRIUM	2922	PATHOLOGIC DRUG INTOX
29042	VASC DEMENTIA W DELUSION	29281	DRUG-INDUCED DELIRIUM
29043	VASC DEMENTIA W DEPRESSN	29282	DRUG-INDUCED DEMENTIA
2908	SENILE PSYCHOSIS NEC	29283	DRUG PERSIST AMNESTC DIS
2909	SENILE PSYCHOT COND NOS	29284	DRUG-INDUCED MOOD DISORD
2910	DELIRIUM TREMENS	29285	DRUG INDUCED SLEEP DISOR
2911	ALCOHOL AMNESTIC DISORDR	29289	DRUG MENTAL DISORDER NEC
2912	ALCOHOL PERSIST DEMENTIA	2929	DRUG MENTAL DISORDER NOS
2913	ALCOH PSYCH DIS W HALLUCIN	2930	DELIRIUM D/T OTHER COND

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Postoperative Hip Fracture Rate
www.qualityindicators.ahrq.gov**

2931	SUBACUTE DELIRIUM	29571	SCHIZOAFFECTV DIS-SUBCHR
29381	PSY DIS W DELUS OTH DIS	29572	SCHIZOAFFECTIV DISE-CHR
29382	PSY DIS W HALLUC OTH DIS	29573	SCHOZOADD DIS-SUBCH/EXAC
29383	MOOD DISORDER OTHER DIS	29574	SCHIZOAFFTV DIS-CHR/EXAC
29384	ANZIETY DISORDER OTH DIS	29575	SCHIZOAFFECTV DIS-REMIS
29389	TRANSIENT MENTAL DIS NEC	29580	SCHIZOPHRENIA NEC-UNSPEC
2939	TRANSIENT MENTAL DIS NOS	29581	SCHIZOPHRENIA NEC-SUBCHR
2940	AMNESTIC DISORD OTH DIS	29582	SCHIZOPHRENIA NEC-CHR
2941	<i>DEMENTIA IN OTH DISEASES (end 2000)</i>	29583	SCHIZO NEC-SUBCHR/EXACER
29410	DEMENTIA W/O BEHAV DIST	29584	SCHIZO NEC-CHR/EXACERB
29411	DEMENTIA W BEHAVIOR DIST	29585	SCHIZOPHRENIA NEC-REMISS
29420	DEMEN NOS W/O BEHV DSTRB	29590	SCHIZOPHRENIA NOS-UNSPEC
29421	DEMEN NOS W BEHAV DISTRB	29591	SCHIZOPHRENIA NOS-SUBCHR
2948	MENTAL DISOR NEC OTH DIS	29592	SCHIZOPHRENIA NOS-CHR
2949	MENTAL DISOR NOS OTH DIS	29593	SCHIZO NOS-SUBCHR/EXACER
29500	SIMPL SCHIZOPHREN-UNSPEC	29594	SCHIZO NOS-CHR/EXACERB
29501	SIMPL SCHIZOPHREN-SUBCHR	29595	SCHIZOPHRENIA NOS-REMISS
29502	SIMPLE SCHIZOPHREN-CHR	29630	RECURR DEPR PSYCHOS-UNSP
29503	SIMP SCHIZ-SUBCHR/EXACER	29631	RECURR DEPR PSYCHOS-MILD
29504	SIMPL SCHIZO-CHR/EXACERB	29632	RECURR DEPR PSYCHOS-MOD
29505	SIMPL SCHIZOPHREN-REMISS	29633	RECUR DEPR PSYCH-SEVERE
29510	HEBEPHRENIA-UNSPEC	29634	REC DEPR PSYCH-PSYCHOTIC
29511	HEBEPHRENIA-SUBCHRONIC	29635	RECUR DEPR PSYC-PART REM
29512	HEBEPHRENIA-CHRONIC	29636	RECUR DEPR PSYC-FULL REM
29513	HEBEPHREN-SUBCHR/EXACERB	29640	BIPOL I CRRNT MANIC NOS
29514	HEBEPHRENIA-CHR/EXACERB	29641	BIPOL I CURRNT MANIC-MILD
29515	HEBEPHRENIA-REMISSION	29642	BIPOL I CURRNT MANIC-MOD
29520	CATATONIA-UNSPEC	29643	BIPOL I MANC-SEV W/O PSY
29521	CATATONIA-SUBCHRONIC	29644	BIPOL I MANIC-SEV W PSY
29522	CATATONIA-CHRONIC	29645	BIPOL I CUR MAN PART REM
29523	CATATONIA-SUBCHR/EXACERB	29646	BIPOL I CUR MAN FULL REM
29524	CATATONIA-CHR/EXACERB	2967	BIPOLOR I CURRENT NOS
29525	CATATONIA-REMISSION	29680	BIPOLOR DISORDER NOS
29530	PARANOID SCHIZO-UNSPEC	29681	ATYPICAL MANIC DISPORDER
29531	PARANOID SCHIZO-SUBCHR	29682	ATYPICAL DEPRESSIVE DIS
29532	PARANOID SCHIZO-CHRONIC	29689	BIPOLAR DISORDER NEC
29533	PARAN SCHIZO-SUBCHR/EXAC	29690	EPISODIC MOOD DISORD NOS
29534	PARAN SCHIZO-CHR/EXACERB	2970	PARANOID STATE, SIMPLE
29535	PARANOID SCHIZO-REMISS	2971	DELUSIONAL DISORDER
29540	SCHIZOPHRENIFORM DIS NOS	2972	PARAPHRENIA
29541	SCHIZOPHRENIC DIS-SUBCHR	2973	SHARED PSYCHOTIC DISORD
29542	SCHIZOPHREN DIS-CHRONIC	2978	PARANOID STATES NEC
29543	SCHOZO DIS SUBCHR/EXACER	2979	PARANOID STATE NOS
29544	SCHIZOPHR DIS-CHR/EXACER	2980	REACT DEPRESS PSYCHOSIS
29545	SCHIZOPHRENIC DIS-REMISS	2981	EXCITATIV TYPE PSYCHOSIS
29550	LATENT SCHIZOPHREN-UNSP	2982	REACTIVE CONFUSION
29551	LAT SCHIZOPHREN-SUBCHR	2983	ACUTE PARANOID REACTION
29552	LATENT SCHIZOPHREN-CHR	2984	PSYCHOGEN PARANOID PSYCH
29553	LAT SCHIZO-SUBCHR/EXACER	2988	REACT PSYCHOSIS NEC/NOS
29554	LATENT SCHIZO-CHR/EXACER	2989	PSYCHOSIS NOS
29555	LAT SCHIZOPHREN-REMISS	29900	AUTISTIC DISORD-CURRENT
29560	SCHIZOPHR DIS RESOD NOS	29901	AUTISTIC DISORD-RESIDUAL
29561	SCHIZOPH DIS RESID-SUBCH	29910	CHILDHD DISINTEGR-ACTIVE
29562	SCHIZOPHR DIS RESID-CHR	29911	CHILDHD DISINTEGR-RESID
29563	SCHOZO RESID SUBCHR/EXAC	29980	PERVASV DEV DIS-CUR NEC
29564	SCHIZOPH RESID-CHRO/EXAC	29981	ERVASV DEV DIS-RES NEC
29565	SCHIZOPH DIS RESID-REMIS	29990	PERVASV DEV DIS-CUR NOS
29570	SCHIZOAFFECTIVE DIS NOS	29991	PERVASV DEV DIS-RES NOS

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ICD-9-CM Anoxic brain injury diagnosis code:

3481 ANOXIC BRAIN DAMAGE

ICD-9-CM Metastatic cancer diagnosis codes:

1960	MAL NEO LYMPH-HEAD/NECK	1981	SEC MALIG NEO URIN NEC
1961	MAL NEO LYMPH-INTRATHOR	1982	SECONDARY MALIG NEO SKIN
1962	MAL NEO LYMPH INTRA-ABD	1983	SEC MAL NEO BRAIN/SPINE
1963	MAL NEO LYMPH-AXILLA/ARM	1984	SEC MALIG NEO NERVE NEC
1965	MAL NEO LYMPH-INGUIN/LEG	1985	SECONDARY MALIG NEO BONE
1966	MAL NEO LYMPH-INTRAPELV	1986	SECOND MALIG NEO OVARY
1968	MAL NEO LYMPH NODE-MULT	1987	SECOND MALIG NEO ADRENAL
1969	MAL NEO LYMPH NODE NOS	19881	SECOND MALIG NEO BREAST
1970	SECONDARY MALIG NEO LUNG	19882	SECOND MALIG NEO GENITAL
1971	SEC MAL NEO MEDIASTINUM	19889	SECONDARY MALIG NEO NEC
1972	SECOND MALIG NEO PLEURA	1990	MALIG NEO DISSEMINATED
1973	SEC MALIG NEO RESP NEC	20970	SEC NEUROENDO TUMOR NOS
1974	SEC MALIG NEO SM BOWEL	20971	SEC NEUROEND TU DIST LYM
1975	SEC MALIG NEO LG BOWEL	20972	SEC NEUROEND TUMOR-LIVER
1976	SEC MAL NEO PERITONEUM	20973	SEC NEUROENDO RUPOR-LIVER
1977	SECOND MALIG NEO LIVER	20974	SEC NEUROENDO RUMOR-BONE
1978	SEC MAL NEO GI NEC	20975	SECONDARY MERKEL CELL CA
1980	SECOND MALIG NEO KIDNEY	20979	SEC NEUROEND TU OTH SITE

ICD-9-CM Lymphoid malignancy diagnosis codes¹:

20000	RETCLSRC UNSP XTRNDL ORG	20101	HODGKINS PARAGRAN HEAD
20001	RETICULOSARCOMA HEAD	20102	HODGKINS PARAGRAN THORAX
20002	RETICULOSARCOMA THORAX	20103	HODGKINS PARAGRAN ABDOM
20003	RETICULOSARCOMA ABDOM	20104	HODGKINS PARAGRAN AXILLA
20004	RETICULOSARCOMA AXILLA	20105	HODGKINS PARAGRAN INGUIN
20005	RETICULOSARCOMA INGUIN	20106	HODGKINS PARAGRAN PELVIC
20006	RETICULOSARCOMA PELVIC	20107	HODGKINS PARAGRAN SPLEEN
20007	RETICULOSARCOMA SPLEEN	20108	HODGKINS PARAGRAN MULT
20008	RETICULOSARCOMA MULT	20110	HDGK GRN UNSP XTRNDL ORG
20010	LYMPHSRC UNSP XTRNDL ORG	20111	HODGKINS GRANULOM HEAD
20011	LYMPHOSARCOMA HEAD	20112	HODGKINS GRANULOM THORAX
20012	LYMPHOSARCOMA THORAX	20113	HODGKINS GRANULOM ABDOM
20013	LYMPHOSARCOMA ABDOM	20114	HODGKINS GRANULOM AXILLA
20014	LYMPHOSARCOMA AXILLA	20115	HODGKINS GRANULOM INGUIN
20015	LYMPHOSARCOMA INGUIN	20116	HODGKINS GRANULOM PELVIC
20016	LYMPHOSARCOMA PELVIC	20117	HODGKINS GRANULOM SPLEEN
20017	LYMPHOSARCOMA SPLEEN	20118	HODGKINS GRANULOM MULT
20018	LYMPHOSARCOMA MULT	20120	HDGK SRC UNSP XTRNDL ORG
20020	BRKT TMR UNSP XTRNDL ORG	20121	HODGKINS SARCOMA HEAD
20021	BURKITTTS TUMOR HEAD	20122	HODGKINS SARCOMA THORAX
20022	BURKITTTS TUMOR THORAX	20123	HODGKINS SARCOMA ABDOM
20023	BURKITTTS TUMOR ABDOM	20124	HODGKINS SARCOMA AXILLA
20024	BURKITTTS TUMOR AXILLA	20125	HODGKINS SARCOMA INGUIN
20025	BURKITTTS TUMOR INGUIN	20126	HODGKINS SARCOMA PELVIC
20026	BURKITTTS TUMOR PELVIC	20127	HODGKINS SARCOMA SPLEEN
20027	BURKITTTS TUMOR SPLEEN	20128	HODGKINS SARCOMA MULT
20028	BURKITTTS TUMOR MULT	20140	LYM-HST UNSP XTRNDL ORGN
20080	OTH VARN UNSP XTRNDL ORG	20141	HODG LYMPH-HISTIO HEAD
20081	MIXED LYMPHOSARC HEAD	20142	HODG LYMPH-HISTIO THORAX
20082	MIXED LYMPHOSARC THORAX	20143	HODG LYMPH-HISTIO ABDOM
20083	MIXED LYMPHOSARC ABDOM	20144	HODG LYMPH-HISTIO AXILLA
20084	MIXED LYMPHOSARC AXILLA	20145	HODG LYMPH-HISTIO INGUIN
20085	MIXED LYMPHOSARC INGUIN	20146	HODG LYMPH-HISTIO PELVIC
20086	MIXED LYMPHOSARC PELVIC	20147	HODG LYMPH-HISTIO SPLEEN
20087	MIXED LYMPHOSARC SPLEEN	20148	HODG LYMPH-HISTIO MULT
20088	MIXED LYMPHOSARC MULT	20150	NDR SCLR UNSP XTRNDL ORG
20100	HDGK PRG UNSP XTRNDL ORG	20151	HODG NODUL SCLERO HEAD

**AHRQ QI™ Version 4.5a, Patient Safety Indicators 08, Technical Specifications,
Postoperative Hip Fracture Rate
www.qualityindicators.ahrq.gov**

20152	HODG NODUL SCLERO THORAX	20227	SEZARY'S DISEASE SPLEEN
20153	HODG NODUL SCLERO ABDOM	20228	SEZARY'S DISEASE MULT
20154	HODG NODUL SCLERO AXILLA	20230	MLG HIST UNSP XTRNDL ORG
20155	HODG NODUL SCLERO INGUIN	20231	MAL HISTIOCYTOSIS HEAD
20156	HODG NODUL SCLERO PELVIC	20232	MAL HISTIOCYTOSIS THORAX
20157	HODG NODUL SCLERO SPLEEN	20233	MAL HISTIOCYTOSIS ABDOM
20158	HODG NODUL SCLERO MULT	20234	MAL HISTIOCYTOSIS AXILLA
20160	MXD CELR UNSP XTRNDL ORG	20235	MAL HISTIOCYTOSIS INGUIN
20161	HODGKINS MIX CELL HEAD	20236	MAL HISTIOCYTOSIS PELVIC
20162	HODGKINS MIX CELL THORAX	20237	MAL HISTIOCYTOSIS SPLEEN
20163	HODGKINS MIX CELL ABDOM	20238	MAL HISTIOCYTOSIS MULT
20164	HODGKINS MIX CELL AXILLA	20240	LK RTCTL UNSP XTRNDL ORG
20165	HODGKINS MIX CELL INGUIN	20241	HAIRY-CELL LEUKEM HEAD
20166	HODGKINS MIX CELL PELVIC	20242	HAIRY-CELL LEUKEM THORAX
20167	HODGKINS MIX CELL SPLEEN	20243	HAIRY-CELL LEUKEM ABDOM
20168	HODGKINS MIX CELL MULT	20244	HAIRY-CELL LEUKEM AXILLA
20170	LYM DPLT UNSP XTRNDL ORG	20245	HAIRY-CELL LEUKEM INGUIN
20171	HODG LYMPH DEPLET HEAD	20246	HAIRY-CELL LEUKEM PELVIC
20172	HODG LYMPH DEPLET THORAX	20247	HAIRY-CELL LEUKEM SPLEEN
20173	HODG LYMPH DEPLET ABDOM	20248	HAIRY-CELL LEUKEM MULT
20174	HODG LYMPH DEPLET AXILLA	20250	LTR-SIWE UNSP XTRNDL ORG
20175	HODG LYMPH DEPLET INGUIN	20251	LETTERER-SIWE DIS HEAD
20176	HODG LYMPH DEPLET PELVIC	20252	LETTERER-SIWE DIS THORAX
20177	HODG LYMPH DEPLET SPLEEN	20253	LETTERER-SIWE DIS ABDOM
20178	HODG LYMPH DEPLET MULT	20254	LETTERER-SIWE DIS AXILLA
20190	HODGKINS DIS UNSP XTRNDL ORG	20255	LETTERER-SIWE DIS INGUIN
20191	HODGKINS DIS NOS HEAD	20256	LETTERER-SIWE DIS PELVIC
20192	HODGKINS DIS NOS THORAX	20257	LETTERER-SIWE DIS SPLEEN
20193	HODGKINS DIS NOS ABDOM	20258	LETTERER-SIWE DIS MULT
20194	HODGKINS DIS NOS AXILLA	20260	MLG MAST UNSP XTRNDL ORG
20195	HODGKINS DIS NOS INGUIN	20261	MAL MASTOCYTOSIS HEAD
20196	HODGKINS DIS NOS PELVIC	20262	MAL MASTOCYTOSIS THORAX
20197	HODGKINS DIS NOS SPLEEN	20263	MAL MASTOCYTOSIS ABDOM
20198	HODGKINS DIS NOS MULT	20264	MAL MASTOCYTOSIS AXILLA
202	<i>OTH MAL NEO LYMPH/HISTIO (invalid 3-digit code)</i>	20265	MAL MASTOCYTOSIS INGUIN
20200	NDLR LYM UNSP XTRNDL ORG	20266	MAL MASTOCYTOSIS PELVIC
20201	NODULAR LYMPHOMA HEAD	20267	MAL MASTOCYTOSIS SPLEEN
20202	NODULAR LYMPHOMA THORAX	20268	MAL MASTOCYTOSIS MULT
20203	NODULAR LYMPHOMA ABDOM	20280	OTH LYMP UNSP XTRNDL ORG
20204	NODULAR LYMPHOMA AXILLA	20281	LYMPHOMAS NEC HEAD
20205	NODULAR LYMPHOMA INGUIN	20282	LYMPHOMAS NEC THORAX
20206	NODULAR LYMPHOMA PELVIC	20283	LYMPHOMAS NEC ABDOM
20207	NODULAR LYMPHOMA SPLEEN	20284	LYMPHOMAS NEC AXILLA
20208	NODULAR LYMPHOMA MULT	20285	LYMPHOMAS NEC INGUIN
20210	MYCS FNG UNSP XTRNDL ORG	20286	LYMPHOMAS NEC PELVIC
20211	MYCOSIS FUNGOIDES HEAD	20287	LYMPHOMAS NEC SPLEEN
20212	MYCOSIS FUNGOIDES THORAX	20288	LYMPHOMAS NEC MULT
20213	MYCOSIS FUNGOIDES ABDOM	20290	UNSP LYM UNSP XTRNDL ORG
20214	MYCOSIS FUNGOIDES AXILLA	20291	LYMPHOID MAL NEC HEAD
20215	MYCOSIS FUNGOIDES INGUIN	20292	LYMPHOID MAL NEC THORAX
20216	MYCOSIS FUNGOIDES PELVIC	20293	LYMPHOID MAL NEC ABDOM
20217	MYCOSIS FUNGOIDES SPLEEN	20294	LYMPHOID MAL NEC AXILLA
20218	MYCOSIS FUNGOIDES MULT	20295	LYMPHOID MAL NEC INGUIN
20220	SZRY DIS UNSP XTRNDL ORG	20296	LYMPHOID MAL NEC PELVIC
20221	SEZARY'S DISEASE HEAD	20297	LYMPHOID MAL NEC SPLEEN
20222	SEZARY'S DISEASE THORAX	20298	LYMPHOID MAL NEC MULT
20223	SEZARY'S DISEASE ABDOM	2030	<i>MULTIPLE MYELOMA (end 1991)</i>
20224	SEZARY'S DISEASE AXILLA	20300	MULT MYE W/O ACHV RMSON
20225	SEZARY'S DISEASE INGUIN	20301	MULT MYELM W REMISSION
20226	SEZARY'S DISEASE PELVIC	20302	MULT MYELOMA IN RELAPSE
		2031	<i>PLASMA CELL LEUKEMIA (end 1991)</i>

**AHRQ QI™ Version 4.5a, Patient Safety Indicators 08, Technical Specifications,
Postoperative Hip Fracture Rate
www.qualityindicators.ahrq.gov**

20310	PLS CL LEU W/O ACHV RMSN	20602	ACT MONO LEUK IN RELAPSE
20311	PLSM CELL LEUK W RMSN	2061	<i>CHR MONOCYTIC LEUKEMIA(end 1991)</i>
20312	PLSM CEL LEUK IN RELAPSE	20610	CHR MONO LEU WO ACHV RMSN
2038	<i>IMMUNOPROLIFERAT NEO NEC (end 1991)</i>	20611	CHR MONO LEUK W RMSION
20380	OTH IMNO NPL WO ACH RMSM	20612	CHR MONO LEUK IN RELAPSE
20381	OTH IMNPRFL NPL W RMSN	2062	<i>SUBAC MONOCYTIC LEUKEMIA(end 1991)</i>
20382	OTH IMNPRFL NEO-RELAPSE	20620	SBAC MNO LEU WO ACH RMSN
2040	<i>ACUTE LYMPHOID LEUKEMIA (end 1991)</i>	20621	SBAC MONO LEUK W RMSION
20400	ACT LYM LEUK WO RMSION	20622	SBAC MONO LEU IN RELAPSE
20401	ACT LYM LEUK W RMSION	2068	<i>MONOCYTIC LEUKEMIA NEC (end 1991)</i>
20402	ACT LYMP LEUK IN RELAPSE	20680	OT MONO LEU WO ACHV RMSN
2041	<i>CHR LYMPHOID LEUKEMIA (end 1991)</i>	20681	OTH MONO LEUK W RMSION
20410	CHR LYM LEUK WO ACH RMSN	20682	OTH MONO LEUK IN RELAPSE
20411	CHR LYM LEUK W RMSION	2069	<i>MONOCYTIC LEUKEMIA NOS (end 1991)</i>
20412	CHR LYMP LEUK IN RELAPSE	20690	UNS MNO LEU WO ACH RMSN
2042	<i>SUBAC LYMPHOID LEUKEMIA (end 1991)</i>	20691	UNS MONO LEUK W RMSION
20420	SBAC LYM LEUK WO ACHV RMSN	20692	MONO LEUK NOS RELAPSE
20421	SBAC LYM LEUK W RMSION	2070	<i>ACUTE ERYTHREMIA (end 1991)</i>
20422	SBAC LYM LEUK IN RELAPSE	20700	ACT ERTH/ERLK WO ACH RMSN
2048	<i>LYMPHOID LEUKEMIA NEC (end 1991)</i>	20701	ACT ERTH/ERYLK W RMSON
20480	OTH LYM LEUK WO ACHV RMSN	20702	AC ERTH/ERYLK IN RELAPSE
20481	OTH LYM LEUK W RMSION	2071	<i>CHRONIC ERYTHREMIA (end 1991)</i>
20482	OTH LYM LEUK IN RELAPSE	20710	CHR ERYTHRM W/O ACH REMSN
2049	<i>LYMPHOID LEUKEMIA NOS (end 1991)</i>	20711	CHR ERYTHRM W REMISION
20490	UNS LYM LEU WO ACH RMSN	20712	CHR ERYTHRMIA IN RELAPSE
20491	UNS LYM LEUK W RMSION	2072	<i>MEGAKARYOCYTIC LEUKEMIA (end 1991)</i>
20492	LYMP LEUK NOS RELAPSE	20720	MGKRCYT LEUK WO ACH RMSN
2050	<i>ACUTE MYELOID LEUKEMIA (end 1991)</i>	20721	MGKRYCYT LEUK W RMSION
20500	AC MYL LEUK WO ACHV RMSN	20722	MGKRYCYT LEUK IN RELAPSE
20501	ACT MYL LEUK W RMSION	2078	<i>SPECIFIED LEUKEMIA NEC (end 1991)</i>
20502	ACT MYEL LEUK IN RELAPSE	20780	OTH LEUK W/O ACHV REMSION
2051	<i>CHRONIC MYELOID LEUKEMIA (end 1991)</i>	20781	OTH SPF LEUK W REMSION
20510	CHR MYL LEUK WO ACHV RMSN	20782	OTH SPF LEUK IN RELAPSE
20511	CHR MYL LEUK W RMSION	2080	<i>ACT LEUK UNS CL W/O RMSN (end 1991)</i>
20512	CHR MYEL LEUK IN RELAPSE	20800	ACT LEU UN CL WO ACH RMSN
2052	<i>SUBACUT MYELOID LEUKEMIA (end 1991)</i>	20801	ACT LEUK UNS CL W RMSON
20520	SBAC MYL LEU WO ACH RMSN	20802	AC LEUK UNS CL RELAPSE
20521	SBAC MYL LEUK W RMSION	2081	<i>CHRONIC LEUKEMIA NOS (end 1991)</i>
20522	SBAC MYL LEUK IN RELAPSE	20810	CH LEU UN CL WO ACH RMSN
2053	<i>MYELOID SARCOMA (end 1991)</i>	20811	CHR LEUK UNS CL W RMSON
20530	MYL SARCOMA WO ACHV RMSN	20812	CH LEU UNS CL IN RELAPSE
20531	MYL SRCOMA W RMSION	2082	SUBACUTE LEUKEMIA NOS
20532	MYEL SARCOMA IN RELAPSE	20820	SBC LEU UN CL WO AH RMSN
2058	<i>MYELOID LEUKEMIA NEC (end 1991)</i>	20821	SBAC LEUK UNS CL W RMSON
20580	OTH MYL LEUK WO ACHV RMSN	20822	SBAC LEU UNS CL-RELAPSE
20581	OTH MYL LEUK W RMSION	2088	<i>LEUKEMIA-UNSPEC CELL NEC (end 1991)</i>
20582	OTH MYEL LEUK IN RELAPSE	20880	OT LEU UN CL WO ACH RMSN
2059	<i>MYELOID LEUKEMIA NOS (end 1991)</i>	20881	OTH LEUK UNS CL W RMSON
20590	UNS MYL LEU WO ACH RMSN	20882	OTH LEUK UNS CL-RELAPSE
20591	UNS MYL LEUK W RMSION	2089	<i>LEUKEMIA-UNSPEC CELL NOS (end 1991)</i>
20592	MYEL LEUK NOS IN RELAPSE	20890	LEUK NOS W/O ACHV RMSN
2060	<i>ACUTE MONOCYTIC LEUKEMIA (end 1991)</i>	20891	LEUKEMIA NOS W REMISION
20600	ACT MONO LEU WO ACHV RMSN	20892	LEUKEMIA NOS IN RELAPSE
20601	ACT MONO LEUK W RMSION		

¹ The procedure or diagnosis codes are continuously updated. The current list of ICD-9-CM codes is valid for October 2012 through September 2013. Italicized codes are not active in Fiscal Year 2013.

ICD-9-CM Bone malignancy diagnosis codes:

1700	MAL NEO SKULL/FACE BONE	1705	MAL NEO BONES WRIST/HAND
1701	MALIGNANT NEO MANDIBLE	1706	MAL NEO PELVIC GIRDLE
1702	MALIG NEO VERTEBRAE	1707	MAL NEO LONG BONES LEG
1703	MAL NEO RIBS/STERN/CLAV	1708	MAL NEO BONES ANKLE/FOOT
1704	MAL NEO LONG BONES ARM	1709	MALIG NEOPL BONE NOS