



IQI #13 Craniotomy Mortality Rate

Provider-Level Indicator

Mortality Indicator for Inpatient Procedures

Numerator

Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.

Denominator

All discharges, age 18 years or older, with DRG or MS-DRG code for craniotomy.

Craniotomy DRGs

001	CRANIOTOMY AGE >17 W CC	530	VENTRICULAR SHUNT PROCEDURES W/O CC
002	CRANIOTOMY AGE >17 W/O CC		
528	INTRACRANIAL VASCULAR PROC W PDX HEMORRHAGE	543	CRANIOTOMY W MAJOR DEVICE IMPLANT OR ACUTE COMPLEX CNS
529	VENTRICULAR SHUNT PROCEDURES W CC		

Craniotomy MS-DRGs

020	INTRACRANIAL VASCULAR PROCEDURES WITH PDX HEMORRHAGE W MCC	026	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W CC
021	INTRACRANIAL VASCULAR PROCEDURES WITH PDX HEMORRHAGE W CC	027	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W/O CC/MCC
022	INTRACRANIAL VASCULAR PROCEDURES WITH PDX HEMORRHAGE W/O CC/MCC	031	VENTRICULAR SHUNT PROCEDURES WITH MCC
023	CRANIOTOMY W MAJOR DEVICE IMPLANT OR ACUTE COMPLEX CNS PDX W MCC	032	VENTRICULAR SHUNT PROCEDURES W CC
024	CRANIOTOMY W MAJOR DEVICE IMPLANT OR ACUTE COMPLEX CNS PDX W/O MCC	033	VENTRICULAR SHUNT PROCEDURES W/O CC/MCC
025	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W MCC		

Exclude cases:

- with a principle diagnosis of head trauma
- missing discharge disposition (DISP=missing)
- transferring to another short-term hospital (DISP=2)

ICD-9-CM Head Trauma diagnosis codes

80000	CLOSED SKULL VAULT FX	80003	CL SKULL VLT FX-MOD COMA
80001	CL SKULL VLT FX W/O COMA	80004	CL SKL VLT FX-PROLN COMA
80002	CL SKULL VLT FX-BRF COMA	80005	CL SKUL VLT FX-DEEP COMA

80006	CL SKULL VLT FX-COMA NOS	80076	OPN SKUL VLT FX-COMA NOS
80009	CL SKL VLT FX-CONCUS NOS	80079	OP SKL VLT FX-CONCUS NOS
80010	CL SKL VLT FX/CEREBR LAC	80080	OPN SKULL VLT FX/HEM NEC
80011	CL SKULL VLT FX W/O COMA	80081	OPN SKUL VLT FX W/O COMA
80012	CL SKULL VLT FX-BRF COMA	80082	OPN SKUL VLT FX-BRF COMA
80013	CL SKULL VLT FX-MOD COMA	80083	OPN SKUL VLT FX-MOD COMA
80014	CL SKL VLT FX-PROLN COMA	80084	OPN SKL VLT FX-PROLN COM
80015	CL SKUL VLT FX-DEEP COMA	80085	OPN SKL VLT FX-DEEP COMA
80016	CL SKULL VLT FX-COMA NOS	80086	OPN SKUL VLT FX-COMA NOS
80019	CL SKL VLT FX-CONCUS NOS	80089	OP SKL VLT FX-CONCUS NOS
80020	CL SKL VLT FX/MENING HEM	80090	OP SKL VLT FX/BR INJ NEC
80021	CL SKULL VLT FX W/O COMA	80091	OPN SKUL VLT FX W/O COMA
80022	CL SKULL VLT FX-BRF COMA	80092	OPN SKUL VLT FX-BRF COMA
80023	CL SKULL VLT FX-MOD COMA	80093	OPN SKUL VLT FX-MOD COMA
80024	CL SKL VLT FX-PROLN COMA	80094	OPN SKL VLT FX-PROLN COM
80025	CL SKUL VLT FX-DEEP COMA	80095	OP SKUL VLT FX-DEEP COMA
80026	CL SKULL VLT FX-COMA NOS	80096	OPN SKUL VLT FX-COMA NOS
80029	CL SKL VLT FX-CONCUS NOS	80099	OP SKL VLT FX-CONCUS NOS
80030	CL SKULL VLT FX/HEM NEC	80100	CLOS SKULL BASE FRACTURE
80031	CL SKULL VLT FX W/O COMA	80101	CL SKUL BASE FX W/O COMA
80032	CL SKULL VLT FX-BRF COMA	80102	CL SKUL BASE FX-BRF COMA
80033	CL SKULL VLT FX-MOD COMA	80103	CL SKUL BASE FX-MOD COMA
80034	CL SKL VLT FX-PROLN COMA	80104	CL SKL BASE FX-PROL COMA
80035	CL SKUL VLT FX-DEEP COMA	80105	CL SKL BASE FX-DEEP COMA
80036	CL SKULL VLT FX-COMA NOS	80106	CL SKUL BASE FX-COMA NOS
80039	CL SKL VLT FX-CONCUS NOS	80109	CL SKULL BASE FX-CONCUSS
80040	CL SKL VLT FX/BR INJ NEC	80110	CL SKL BASE FX/CEREB LAC
80041	CL SKULL VLT FX W/O COMA	80111	CL SKUL BASE FX W/O COMA
80042	CL SKULL VLT FX-BRF COMA	80112	CL SKUL BASE FX-BRF COMA
80043	CL SKULL VLT FX-MOD COMA	80113	CL SKUL BASE FX-MOD COMA
80044	CL SKL VLT FX-PROLN COMA	80114	CL SKL BASE FX-PROL COMA
80045	CL SKUL VLT FX-DEEP COMA	80115	CL SKL BASE FX-DEEP COMA
80046	CL SKULL VLT FX-COMA NOS	80116	CL SKUL BASE FX-COMA NOS
80049	CL SKL VLT FX-CONCUS NOS	80119	CL SKULL BASE FX-CONCUSS
80050	OPN SKULL VAULT FRACTURE	80120	CL SKL BASE FX/MENIN HEM
80051	OPN SKUL VLT FX W/O COMA	80121	CL SKUL BASE FX W/O COMA
80052	OPN SKUL VLT FX-BRF COMA	80122	CL SKUL BASE FX/BRF COMA
80053	OPN SKUL VLT FX-MOD COMA	80123	CL SKUL BASE FX-MOD COMA
80054	OPN SKL VLT FX-PROLN COM	80124	CL SKL BASE FX-PROL COMA
80055	OPN SKL VLT FX-DEEP COMA	80125	CL SKL BASE FX-DEEP COMA
80056	OPN SKUL VLT FX-COMA NOS	80126	CL SKUL BASE FX-COMA NOS
80059	OP SKL VLT FX-CONCUS NOS	80129	CL SKULL BASE FX-CONCUSS
80060	OPN SKL VLT FX/CEREB LAC	80130	CL SKULL BASE FX/HEM NEC
80061	OPN SKUL VLT FX W/O COMA	80131	CL SKUL BASE FX W/O COMA
80062	OPN SKUL VLT FX-BRF COMA	80132	CL SKUL BASE FX-BRF COMA
80063	OPN SKUL VLT FX-MOD COMA	80133	CL SKUL BASE FX-MOD COMA
80064	OPN SKL VLT FX-PROLN COM	80134	CL SKL BASE FX-PROL COMA
80065	OPN SKL VLT FX-DEEP COMA	80135	CL SKL BASE FX-DEEP COMA
80066	OPN SKUL VLT FX-COMA NOS	80136	CL SKUL BASE FX-COMA NOS
80069	OP SKL VLT FX-CONCUS NOS	80139	CL SKULL BASE FX-CONCUSS
80070	OPN SKL VLT FX/MENIN HEM	80140	CL SK BASE FX/BR INJ NEC
80071	OPN SKUL VLT FX W/O COMA	80141	CL SKUL BASE FX W/O COMA
80072	OPN SKUL VLT FX-BRF COMA	80142	CL SKUL BASE FX-BRF COMA
80073	OPN SKUL VLT FX-MOD COMA	80143	CL SKUL BASE FX-MOD COMA
80074	OPN SKL VLT FX-PROLN COM	80144	CL SKL BASE FX-PROL COMA
80075	OPN SKL VLT FX-DEEP COMA	80145	CL SKL BASE FX-DEEP COMA

80146	CL SKUL BASE FX-COMA NOS	80232	SUBCONDYL FX MANDIB-OPEN
80149	CL SKULL BASE FX-CONCUSS	80233	FX CORON PROC MANDIB-OPN
80150	OPEN SKULL BASE FRACTURE	80234	FX RAMUS NOS-OPEN
80151	OPN SKL BASE FX W/O COMA	80235	FX ANGLE OF JAW-OPEN
80152	OPN SKL BASE FX-BRF COMA	80236	FX SYMPHY MANDIB BDY-OPN
80153	OPN SKL BASE FX-MOD COMA	80237	FX ALV BORD MAND BDY-OPN
80154	OP SKL BASE FX-PROL COMA	80238	FX MANDIBLE BODY NEC-OPN
80155	OP SKL BASE FX-DEEP COMA	80239	MULT FX MANDIBLE-OPEN
80156	OPN SKL BASE FX-COMA NOS	8024	FX MALAR/MAXILLARY-CLOSE
80159	OPN SKUL BASE FX-CONCUSS	8025	FX MALAR/MAXILLARY-OPEN
80160	OP SKL BASE FX/CEREB LAC	8026	FX ORBITAL FLOOR-CLOSED
80161	OPN SKL BASE FX W/O COMA	8027	FX ORBITAL FLOOR-OPEN
80162	OPN SKL BASE FX-BRF COMA	8028	FX FACIAL BONE NEC-CLOSE
80163	OPN SKL BASE FX-MOD COMA	8029	FX FACIAL BONE NEC-OPEN
80164	OP SKL BASE FX-PROL COMA	80300	CLOSE SKULL FRACTURE NEC
80165	OP SKL BASE FX-DEEP COMA	80301	CL SKULL FX NEC W/O COMA
80166	OPN SKL BASE FX-COMA NOS	80302	CL SKULL FX NEC-BRF COMA
80169	OPN SKUL BASE FX-CONCUSS	80303	CL SKULL FX NEC-MOD COMA
80170	OP SKL BASE FX/MENIN HEM	80304	CL SKL FX NEC-PROLN COMA
80171	OPN SKL BASE FX W/O COMA	80305	CL SKUL FX NEC-DEEP COMA
80172	OPN SKL BASE FX-BRF COMA	80306	CL SKULL FX NEC-COMA NOS
80173	OPN SKL BASE FX-MOD COMA	80309	CL SKULL FX NEC-CONCUSS
80174	OP SKL BASE FX-PROL COMA	80310	CL SKL FX NEC/CEREBR LAC
80175	OP SKL BASE FX-DEEP COMA	80311	CL SKULL FX NEC W/O COMA
80176	OPN SKL BASE FX-COMA NOS	80312	CL SKULL FX NEC-BRF COMA
80179	OPN SKUL BASE FX-CONCUSS	80313	CL SKULL FX NEC-MOD COMA
80180	OPN SKUL BASE FX/HEM NEC	80314	CL SKL FX NEC-PROLN COMA
80181	OPN SKL BASE FX W/O COMA	80315	CL SKUL FX NEC-DEEP COMA
80182	OPN SKL BASE FX-BRF COMA	80316	CL SKULL FX NEC-COMA NOS
80183	OPN SKL BASE FX-MOD COMA	80319	CL SKULL FX NEC-CONCUSS
80184	OP SKL BASE FX-PROL COMA	80320	CL SKL FX NEC/MENING HEM
80185	OP SKL BASE FX-DEEP COMA	80321	CL SKULL FX NEC W/O COMA
80186	OPN SKL BASE FX-COMA NOS	80322	CL SKULL FX NEC-BRF COMA
80189	OPN SKUL BASE FX-CONCUSS	80323	CL SKULL FX NEC-MOD COMA
80190	OP SK BASE FX/BR INJ NEC	80324	CL SKL FX NEC-PROLN COMA
80191	OP SKUL BASE FX W/O COMA	80325	CL SKUL FX NEC-DEEP COMA
80192	OPN SKL BASE FX-BRF COMA	80326	CL SKULL FX NEC-COMA NOS
80193	OPN SKL BASE FX-MOD COMA	80329	CL SKULL FX NEC-CONCUSS
80194	OP SKL BASE FX-PROL COMA	80330	CL SKULL FX NEC/HEM NEC
80195	OP SKL BASE FX-DEEP COMA	80331	CL SKULL FX NEC W/O COMA
80196	OPN SKL BASE FX-COMA NOS	80332	CL SKULL FX NEC-BRF COMA
80199	OPN SKUL BASE FX-CONCUSS	80333	CL SKULL FX NEC-MOD COMA
8020	NASAL BONE FX-CLOSED	80334	CL SKL FX NEC-PROLN COMA
8021	NASAL BONE FX-OPEN	80335	CL SKUL FX NEC-DEEP COMA
80220	MANDIBLE FX NOS-CLOSED	80336	CL SKULL FX NEC-COMA NOS
80221	FX CONDYL PROC MANDIB-CL	80339	CL SKULL FX NEC-CONCUSS
80222	SUBCONDYLAR FX MANDIB-CL	80340	CL SKL FX NEC/BR INJ NEC
80223	FX CORON PROC MANDIB-CL	80341	CL SKULL FX NEC W/O COMA
80224	FX RAMUS NOS-CLOSED	80342	CL SKULL FX NEC-BRF COMA
80225	FX ANGLE OF JAW-CLOSED	80343	CL SKULL FX NEC-MOD COMA
80226	FX SYMPHY MANDIB BODY-CL	80344	CL SKL FX NEC-PROLN COMA
80227	FX ALVEOLAR BORD MAND-CL	80345	CL SKUL FX NEC-DEEP COMA
80228	FX MANDIBLE BODY NEC-CL	80346	CL SKULL FX NEC-COMA NOS
80229	MULT FX MANDIBLE-CLOSED	80349	CL SKULL FX NEC-CONCUSS
80230	MANDIBLE FX NOS-OPEN	80350	OPEN SKULL FRACTURE NEC
80231	FX CONDYL PROC MAND-OPEN	80351	OPN SKUL FX NEC W/O COMA

80352	OPN SKUL FX NEC-BRF COMA	80422	CL SKL W OTH FX-BRF COMA
80353	OPN SKUL FX NEC-MOD COMA	80423	CL SKL W OTH FX-MOD COMA
80354	OPN SKL FX NEC-PROL COMA	80424	CL SKL/OTH FX-PROLN COMA
80355	OPN SKL FX NEC-DEEP COMA	80425	CL SKUL/OTH FX-DEEP COMA
80356	OPN SKUL FX NEC-COMA NOS	80426	CL SKL W OTH FX-COMA NOS
80359	OPN SKULL FX NEC-CONCUSS	80429	CL SKUL W OTH FX-CONCUSS
80360	OPN SKL FX NEC/CEREB LAC	80430	CL SKUL W OTH FX/HEM NEC
80361	OPN SKUL FX NEC W/O COMA	80431	CL SKL W OTH FX W/O COMA
80362	OPN SKUL FX NEC-BRF COMA	80432	CL SKL W OTH FX-BRF COMA
80363	OPN SKUL FX NEC-MOD COMA	80433	CL SKL W OTH FX-MOD COMA
80364	OPN SKL FX NEC-PROLN COM	80434	CL SKL/OTH FX-PROLN COMA
80365	OPN SKL FX NEC-DEEP COMA	80435	CL SKUL/OTH FX-DEEP COMA
80366	OPN SKUL FX NEC-COMA NOS	80436	CL SKL W OTH FX-COMA NOS
80369	OPN SKULL FX NEC-CONCUSS	80439	CL SKUL W OTH FX-CONCUSS
80370	OPN SKL FX NEC/MENIN HEM	80440	CL SKL/OTH FX/BR INJ NEC
80371	OPN SKUL FX NEC W/O COMA	80441	CL SKL W OTH FX W/O COMA
80372	OPN SKUL FX NEC-BRF COMA	80442	CL SKL W OTH FX-BRF COMA
80373	OPN SKUL FX NEC-MOD COMA	80443	CL SKL W OTH FX-MOD COMA
80374	OPN SKL FX NEC-PROL COMA	80444	CL SKL/OTH FX-PROLN COMA
80375	OPN SKL FX NEC-DEEP COMA	80445	CL SKUL/OTH FX-DEEP COMA
80376	OPN SKUL FX NEC-COMA NOS	80446	CL SKL W OTH FX-COMA NOS
80379	OPN SKULL FX NEC-CONCUSS	80449	CL SKUL W OTH FX-CONCUSS
80380	OPN SKULL FX NEC/HEM NEC	80450	OPN SKULL FX/OTH BONE FX
80381	OPN SKUL FX NEC W/O COMA	80451	OPN SKUL/OTH FX W/O COMA
80382	OPN SKUL FX NEC-BRF COMA	80452	OPN SKUL/OTH FX-BRF COMA
80383	OPN SKUL FX NEC-MOD COMA	80453	OPN SKUL/OTH FX-MOD COMA
80384	OPN SKL FX NEC-PROL COMA	80454	OPN SKL/OTH FX-PROL COMA
80385	OPN SKL FX NEC-DEEP COMA	80455	OPN SKL/OTH FX-DEEP COMA
80386	OPN SKUL FX NEC-COMA NOS	80456	OPN SKUL/OTH FX-COMA NOS
80389	OPN SKULL FX NEC-CONCUSS	80459	OPN SKULL/OTH FX-CONCUSS
80390	OP SKL FX NEC/BR INJ NEC	80460	OPN SKL/OTH FX/CEREB LAC
80391	OPN SKUL FX NEC W/O COMA	80461	OPN SKUL/OTH FX W/O COMA
80392	OPN SKUL FX NEC-BRF COMA	80462	OPN SKUL/OTH FX-BRF COMA
80393	OPN SKUL FX NEC-MOD COMA	80463	OPN SKUL/OTH FX-MOD COMA
80394	OPN SKL FX NEC-PROL COMA	80464	OPN SKL/OTH FX-PROL COMA
80395	OPN SKL FX NEC-DEEP COMA	80465	OPN SKL/OTH FX-DEEP COMA
80396	OPN SKUL FX NEC-COMA NOS	80466	OPN SKUL/OTH FX-COMA NOS
80399	OPN SKULL FX NEC-CONCUSS	80469	OPN SKULL/OTH FX-CONCUSS
80400	CL SKUL FX W OTH BONE FX	80470	OPN SKL/OTH FX/MENIN HEM
80401	CL SKL W OTH FX W/O COMA	80471	OPN SKUL/OTH FX W/O COMA
80402	CL SKL W OTH FX-BRF COMA	80472	OPN SKUL/OTH FX-BRF COMA
80403	CL SKL W OTH FX-MOD COMA	80473	OPN SKUL/OTH FX-MOD COMA
80404	CL SKL/OTH FX-PROLN COMA	80474	OPN SKL/OTH FX-PROL COMA
80405	CL SKUL/OTH FX-DEEP COMA	80475	OPN SKL/OTH FX-DEEP COMA
80406	CL SKL W OTH FX-COMA NOS	80476	OPN SKUL/OTH FX-COMA NOS
80409	CL SKUL W OTH FX-CONCUSS	80479	OPN SKULL/OTH FX-CONCUSS
80410	CL SK W OTH FX/CEREB LAC	80480	OPN SKL W OTH FX/HEM NEC
80411	CL SKL W OTH FX W/O COMA	80481	OPN SKUL/OTH FX W/O COMA
80412	CL SKL W OTH FX-BRF COMA	80482	OPN SKUL/OTH FX-BRF COMA
80413	CL SKL W OTH FX-MOD COMA	80483	OPN SKUL/OTH FX-MOD COMA
80414	CL SKL/OTH FX-PROLN COMA	80484	OPN SKL/OTH FX-PROL COMA
80415	CL SKUL/OTH FX-DEEP COMA	80485	OPN SKL/OTH FX-DEEP COMA
80416	CL SKL W OTH FX-COMA NOS	80486	OPN SKUL/OTH FX-COMA NOS
80419	CL SKUL W OTH FX-CONCUSS	80489	OPN SKULL/OTH FX-CONCUSS
80420	CL SKL/OTH FX/MENING HEM	80490	OP SKL/OTH FX/BR INJ NEC
80421	CL SKL W OTH FX W/O COMA	80491	OPN SKUL/OTH FX W/O COMA

80492	OPN SKUL/OTH FX-BRF COMA	85103	CORTEX CONTUS-MOD COMA
80493	OPN SKUL/OTH FX-MOD COMA	85104	CORTX CONTUS-PROLNG COMA
80494	OPN SKL/OTH FX-PROL COMA	85105	CORTEX CONTUS-DEEP COMA
80495	OPN SKL/OTH FX-DEEP COMA	85106	CORTEX CONTUS-COMA NOS
80496	OPN SKUL/OTH FX-COMA NOS	85109	CORTEX CONTUS-CONCUS NOS
80499	OPN SKULL/OTH FX-CONCUSS	85110	CORTEX CONTUSION/OPN WND
80500	FX CERVICAL VERT NOS-CL	85111	OPN CORTX CONTUS-NO COMA
80501	FX C1 VERTEBRA-CLOSED	85112	OPN CORT CONTUS-BRF COMA
80502	FX C2 VERTEBRA-CLOSED	85113	OPN CORT CONTUS-MOD COMA
80503	FX C3 VERTEBRA-CLOSED	85114	OPN CORT CONTU-PROL COMA
80504	FX C4 VERTEBRA-CLOSED	85115	OPN CORT CONTU-DEEP COMA
80505	FX C5 VERTEBRA-CLOSED	85116	OPN CORT CONTUS-COMA NOS
80506	FX C6 VERTEBRA-CLOSED	85119	OPN CORTX CONTUS-CONCUSS
80507	FX C7 VERTEBRA-CLOSED	85120	CEREBRAL CORTEX LACERAT
80508	FX MULT CERVICAL VERT-CL	85121	CORTEX LACERAT W/O COMA
80510	FX CERVICAL VERT NOS-OPN	85122	CORTEX LACERA-BRIEF COMA
80511	FX C1 VERTEBRA-OPEN	85123	CORTEX LACERAT-MOD COMA
80512	FX C2 VERTEBRA-OPEN	85124	CORTEX LACERAT-PROL COMA
80513	FX C3 VERTEBRA-OPEN	85125	CORTEX LACERAT-DEEP COMA
80514	FX C4 VERTEBRA-OPEN	85126	CORTEX LACERAT-COMA NOS
80515	FX C5 VERTEBRA-OPEN	85129	CORTEX LACERAT-CONCUSS
80516	FX C6 VERTEBRA-OPEN	85130	CORTEX LACER W OPN WOUND
80517	FX C7 VERTEBRA-OPEN	85131	OPN CORTEX LACER-NO COMA
80518	FX MLT CERVICAL VERT-OPN	85132	OPN CORTX LAC-BRIEF COMA
80600	C1-C4 FX-CL/CORD INJ NOS	85133	OPN CORTX LACER-MOD COMA
80601	C1-C4 FX-CL/COM CORD LES	85134	OPN CORTX LAC-PROLN COMA
80602	C1-C4 FX-CL/ANT CORD SYN	85135	OPN CORTEX LAC-DEEP COMA
80603	C1-C4 FX-CL/CEN CORD SYN	85136	OPN CORTX LACER-COMA NOS
80604	C1-C4 FX-CL/CORD INJ NEC	85139	OPN CORTX LACER-CONCUSS
80605	C5-C7 FX-CL/CORD INJ NOS	85140	CEREBEL/BRAIN STM CONTUS
80606	C5-C7 FX-CL/COM CORD LES	85141	CEREBELL CONTUS W/O COMA
80607	C5-C7 FX-CL/ANT CORD SYN	85142	CEREBELL CONTUS-BRF COMA
80608	C5-C7 FX-CL/CEN CORD SYN	85143	CEREBELL CONTUS-MOD COMA
80609	C5-C7 FX-CL/CORD INJ NEC	85144	CEREBEL CONTUS-PROL COMA
80610	C1-C4 FX-OP/CORD INJ NOS	85145	CEREBEL CONTUS-DEEP COMA
80611	C1-C4 FX-OP/COM CORD LES	85146	CEREBELL CONTUS-COMA NOS
80612	C1-C4 FX-OP/ANT CORD SYN	85149	CEREBELL CONTUS-CONCUSS
80613	C1-C4 FX-OP/CEN CORD SYN	85150	CEREBEL CONTUS W OPN WND
80614	C1-C4 FX-OP/CORD INJ NEC	85151	OPN CEREBE CONT W/O COMA
80615	C5-C7 FX-OP/CORD INJ NOS	85152	OPN CEREBE CONT-BRF COMA
80616	C5-C7 FX-OP/COM CORD LES	85153	OPN CEREBE CONT-MOD COMA
80617	C5-C7 FX-OP/ANT CORD SYN	85154	OPN CEREBE CONT-PROL COM
80618	C5-C7 FX-OP/CEN CORD SYN	85155	OPN CEREBE CONT-DEEP COM
80619	C5-C7 FX-OP/CORD INJ NEC	85156	OPN CEREBE CONT-COMA NOS
8500	CONCUSSION W/O COMA	85159	OPN CEREBEL CONT-CONCUSS
8501	CONCUSSION-BRIEF COMA	85160	CEREBEL/BRAIN STEM LACER
85011	CONCUS-BRIEF COMA <31 MN	85161	CEREBEL LACERAT W/O COMA
85012	CONCUS-BRF COMA 31-59 MN	85162	CEREBEL LACER-BRIEF COMA
8502	CONCUSSION-MODERATE COMA	85163	CEREBEL LACERAT-MOD COMA
8503	CONCUSSION-PROLONG COMA	85164	CEREBEL LACER-PROLN COMA
8504	CONCUSSION-DEEP COMA	85165	CEREBELL LACER-DEEP COMA
8505	CONCUSSION W COMA NOS	85166	CEREBEL LACERAT-COMA NOS
8509	CONCUSSION NOS	85169	CEREBEL LACER-CONCUSSION
85100	CEREBRAL CORTX CONTUSION	85170	CEREBEL LACER W OPEN WND
85101	CORTEX CONTUSION-NO COMA	85171	OPN CEREBEL LAC W/O COMA
85102	CORTEX CONTUS-BRIEF COMA	85172	OPN CEREBEL LAC-BRF COMA

85173	OPN CEREBEL LAC-MOD COMA	85243	EXTRADURAL HEM-MOD COMA
85174	OPN CEREBE LAC-PROL COMA	85244	EXTRADUR HEM-PROLN COMA
85175	OPN CEREBE LAC-DEEP COMA	85245	EXTRADURAL HEM-DEEP COMA
85176	OPN CEREBEL LAC-COMA NOS	85246	EXTRADURAL HEM-COMA NOS
85179	OPN CEREBELL LAC-CONCUSS	85249	EXTADURAL HEM-CONCUSS
85180	BRAIN LACERATION NEC	85250	EXTRADURAL HEM W OPN WND
85181	BRAIN LACER NEC W/O COMA	85251	EXTRADURAL HEMOR-NO COMA
85182	BRAIN LAC NEC-BRIEF COMA	85252	EXTRADUR HEM-BRIEF COMA
85183	BRAIN LACER NEC-MOD COMA	85253	EXTRADURAL HEM-MOD COMA
85184	BRAIN LAC NEC-PROLN COMA	85254	EXTRADUR HEM-PROLN COMA
85185	BRAIN LAC NEC-DEEP COMA	85255	EXTRADUR HEM-DEEP COMA
85186	BRAIN LACER NEC-COMA NOS	85256	EXTRADURAL HEM-COMA NOS
85189	BRAIN LACER NEC-CONCUSS	85259	EXTRADURAL HEM-CONCUSS
85190	BRAIN LAC NEC W OPEN WND	85300	TRAUMATIC BRAIN HEM NEC
85191	OPN BRAIN LACER W/O COMA	85301	BRAIN HEM NEC W/O COMA
85192	OPN BRAIN LAC-BRIEF COMA	85302	BRAIN HEM NEC-BRIEF COMA
85193	OPN BRAIN LACER-MOD COMA	85303	BRAIN HEM NEC-MOD COMA
85194	OPN BRAIN LAC-PROLN COMA	85304	BRAIN HEM NEC-PROLN COMA
85195	OPEN BRAIN LAC-DEEP COMA	85305	BRAIN HEM NEC-DEEP COMA
85196	OPN BRAIN LACER-COMA NOS	85306	BRAIN HEM NEC-COMA NOS
85199	OPEN BRAIN LACER-CONCUSS	85309	BRAIN HEM NEC-CONCUSSION
85200	TRAUM SUBARACHNOID HEM	85310	BRAIN HEM NEC W OPN WND
85201	SUBARACHNOID HEM-NO COMA	85311	BRAIN HEM OPN W/O COMA
85202	SUBARACH HEM-BRIEF COMA	85312	BRAIN HEM OPN-BRF COMA
85203	SUBARACH HEM-MOD COMA	85313	BRAIN HEM OPEN-MOD COMA
85204	SUBARACH HEM-PROLNG COMA	85314	BRAIN HEM OPN-PROLN COMA
85205	SUBARACH HEM-DEEP COMA	85315	BRAIN HEM OPEN-DEEP COMA
85206	SUBARACH HEM-COMA NOS	85316	BRAIN HEM OPEN-COMA NOS
85209	SUBARACH HEM-CONCUSSION	85319	BRAIN HEM OPN-CONCUSSION
85210	SUBARACH HEM W OPN WOUND	85400	BRAIN INJURY NEC
85211	OPN SUBARACH HEM-NO COMA	85401	BRAIN INJURY NEC-NO COMA
85212	OP SUBARACH HEM-BRF COMA	85402	BRAIN INJ NEC-BRIEF COMA
85213	OP SUBARACH HEM-MOD COMA	85403	BRAIN INJ NEC-MOD COMA
85214	OP SUBARACH HEM-PROL COM	85404	BRAIN INJ NEC-PROLN COMA
85215	OP SUBARACH HEM-DEEP COM	85405	BRAIN INJ NEC-DEEP COMA
85216	OP SUBARACH HEM-COMA NOS	85406	BRAIN INJ NEC-COMA NOS
85219	OPN SUBARACH HEM-CONCUSS	85409	BRAIN INJ NEC-CONCUSSION
85220	TRAUMATIC SUBDURAL HEM	85410	BRAIN INJURY W OPN WND
85221	SUBDURAL HEM W/O COMA	85411	OPN BRAIN INJ W/O COMA
85222	SUBDURAL HEM-BRIEF COMA	85412	OPN BRAIN INJ-BRIEF COMA
85223	SUBDURAL HEMORR-MOD COMA	85413	OPN BRAIN INJ-MOD COMA
85224	SUBDURAL HEM-PROLNG COMA	85414	OPN BRAIN INJ-PROLN COMA
85225	SUBDURAL HEM-DEEP COMA	85415	OPN BRAIN INJ-DEEP COMA
85226	SUBDURAL HEMORR-COMA NOS	85416	OPEN BRAIN INJ-COMA NOS
85229	SUBDURAL HEM-CONCUSSION	85419	OPN BRAIN INJ-CONCUSSION
85230	SUBDURAL HEM W OPN WOUND	9500	OPTIC NERVE INJURY
85231	OPEN SUBDUR HEM W/O COMA	9501	INJURY TO OPTIC CHIASM
85232	OPN SUBDUR HEM-BRF COMA	9502	INJURY TO OPTIC PATHWAYS
85233	OPN SUBDUR HEM-MOD COMA	9503	INJURY TO VISUAL CORTEX
85234	OPN SUBDUR HEM-PROL COMA	9509	INJ OPTIC NERV/PATH NOS
85235	OPN SUBDUR HEM-DEEP COMA	9510	INJURY OCULOMOTOR NERVE
85236	OPN SUBDUR HEM-COMA NOS	9511	INJURY TROCHLEAR NERVE
85239	OPN SUBDUR HEM-CONCUSS	9512	INJURY TRIGEMINAL NERVE
85240	TRAUMATIC EXTRADURAL HEM	9513	INJURY ABDUCENS NERVE
85241	EXTRADURAL HEM W/O COMA	9514	INJURY TO FACIAL NERVE
85242	EXTRADUR HEM-BRIEF COMA	9515	INJURY TO ACOUSTIC NERVE

9516	INJURY ACCESSORY NERVE	95208	CENTRAL CORD SYND/C5-C7
9517	INJURY HYPOGLOSSAL NERVE	95209	C5-C7 SPIN CORD INJ NEC
9518	INJURY CRANIAL NERVE NEC	95210	T1-T6 SPIN CORD INJ NOS
9519	INJURY CRANIAL NERVE NOS	95211	COMPLETE LES CORD/T1-T6
95200	C1-C4 SPIN CORD INJ NOS	95212	ANTERIOR CORD SYND/T1-T6
95201	COMPLETE LES CORD/C1-C4	95213	CENTRAL CORD SYND/T1-T6
95202	ANTERIOR CORD SYND/C1-C4	95214	T1-T6 SPIN CORD INJ NEC
95203	CENTRAL CORD SYND/C1-C4	95215	T7-T12 SPIN CORD INJ NOS
95204	C1-C4 SPIN CORD INJ NEC	95216	COMPLETE LES CORD/T7-T12
95205	C5-C7 SPIN CORD INJ NOS	95217	ANTERIOR CORD SYN/T7-T12
95206	COMPLETE LES CORD/C5-C7	95218	CENTRAL CORD SYN/T7-T12
95207	ANTERIOR CORD SYND/C5-C7	95219	T7-T12 SPIN CORD INJ NEC