



Patient Safety Indicator 12 (PSI 12) Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate

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Provider-Level Indicator

Type of Score: Rate

Prepared by:

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DESCRIPTION

Perioperative pulmonary embolism or proximal deep vein thrombosis (secondary diagnosis) per 1,000 surgical discharges for patients ages 18 years and older. Excludes cases with principal diagnosis for pulmonary embolism or proximal deep vein thrombosis; cases with secondary diagnosis for pulmonary embolism or proximal deep vein thrombosis present on admission; cases in which interruption of vena cava occurs before or on the same day as the first operating room procedure; and obstetric discharges.

[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 a secondary ICD-9-CM diagnosis code for proximal deep vein thrombosis or a secondary ICD-9-CM diagnosis code for pulmonary embolism.

Deep Vein Thrombosis Diagnosis Codes for discharges prior to October 1, 2009: (DEEPVID)

45111	Phlebitis and thrombosis of femoral vein (deep) (superficial)	45340	Dvt-emblsm lower ext nos
45119	Phlebitis and thrombophlebitis - of deep vessel of lower extremities - other	45341	Dvt-emb prox lower ext
4512	Phlebitis and thrombophlebitis of lower extremities unspecified	4538	Other venous embolism and thrombosis of other specified veins
45181	Phlebitis and thrombophlebitis of iliac vein	4539	Other venous embolism and thrombosis of unspecified site
4519	Phlebitis and thrombophlebitis of other sites - of unspecified site		

Deep Vein Thrombosis Diagnosis Codes for discharges on or after October 1, 2009: (DEEPVIB)

45111	Phlebitis and thrombosis of femoral vein (deep) (superficial)	45340	Dvt-emblsm lower ext nos
45119	Phlebitis and thrombophlebitis - of deep vessel of lower extremities - other	45341	Dvt-emb prox lower ext
45181	Phlebitis and thrombophlebitis of iliac vein		

Pulmonary embolism diagnosis codes: (PULMOID)

4151	Pulmonary embolism and infarction (end 1996)	41513	Saddle embolus of pulmonary artery
41511	Iatrogenic pulmonary embolism and infarction	41519	Other

[Note: Codes that are no longer valid may be retained for compatibility with historical data. These codes will have no impact on numerator counts in more recent data using only currently valid codes.]

DENOMINATOR

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

[Appendix A - Operating Room Procedure Codes](#)

[Appendix E - Surgical Discharge MS-DRGs \(for discharges on or after October 1, 2007\)](#)

DENOMINATOR EXCLUSIONS

Exclude cases:

- with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission) for proximal deep vein thrombosis among patients otherwise qualifying for the numerator
- with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission) for pulmonary embolism among patients otherwise qualifying for the numerator
- with a principal procedure for interruption of vena cava or pulmonary arterial thrombectomy
- where a procedure for interruption of vena cava occurs before or on the same day as the first operating room procedure¹
- any-listed ICD-9-CM procedure code for extracorporeal membrane oxygenation (ECMO)
- any-listed ICD-9-CM diagnosis code for acute brain or spinal injury present on admission
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)

¹ If day of procedure is not available in the input data file, the rate may be slightly lower than if the information was available.

Interruption of vena cava procedure code: (VENACIP)

387 Interruption of vena cava

ECMO procedure code: (ECMOP)

3965 Extracorporeal membrane oxygenation

Acute brain or spinal injury diagnosis code: (NEURTRAD)

430	Subarachnoid hemorrhage	80623	Closed fracture of T1-T6 level with central cord syndrome
431	Intracerebral hemorrhage	80624	Closed fracture of T1-T6 level with other specified spinal cord injury
4320	Nontraumatic extradural hemorrhage	80625	Closed fracture of T7-T12 level with unspecified spinal cord injury
4321	Subdural hemorrhage	80626	Closed fracture of T7-T12 level with complete lesion of cord
4329	Unspecified intracranial hemorrhage	80627	Closed fracture of T7-T12 level with anterior cord syndrome
80035	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	80628	Closed fracture of T7-T12 level with central cord syndrome

80036	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration	80629	Closed fracture of T7-T12 level with other specified spinal cord injury
80039	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified	80630	Open fracture of T1-T6 level with unspecified spinal cord injury
80060	Open fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness	80631	Open fracture of T1-T6 level with complete lesion of cord
80061	Open fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness	80632	Open fracture of T1-T6 level with anterior cord syndrome
80062	Open fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness	80633	Open fracture of T1-T6 level with central cord syndrome
80063	Open fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness	80634	Open fracture of T1-T6 level with other specified spinal cord injury
80064	Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	80635	Open fracture of T7-T12 level with unspecified spinal cord injury
80065	Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	80636	Open fracture of T7-T12 level with complete lesion of cord
80066	Open fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration	80637	Open fracture of T7-T12 level with anterior cord syndrome
80069	Open fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified	80638	Open fracture of T7-T12 level with central cord syndrome
80070	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	80639	Open fracture of T7-T12 level with other specified spinal cord injury
80071	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness	8064	Closed fracture of lumbar spine with spinal cord injury

80072	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness	8065	Open fracture of lumbar spine with spinal cord injury
80073	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness	80660	Closed fracture of sacrum and coccyx with unspecified spinal cord injury
80074	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	80661	Closed fracture of sacrum and coccyx with complete cauda equina lesion
80075	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	80662	Closed fracture of sacrum and coccyx with other cauda equina injury
80076	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration	80669	Closed fracture of sacrum and coccyx with other spinal cord injury
80079	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified	80670	Open fracture of sacrum and coccyx with unspecified spinal cord injury
80080	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	80671	Open fracture of sacrum and coccyx with complete cauda equina lesion
80081	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness	80672	Open fracture of sacrum and coccyx with other cauda equina injury
80082	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness	80679	Open fracture of sacrum and coccyx with other spinal cord injury
80083	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness	8068	Closed fracture of unspecified vertebral column with spinal cord injury
80084	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	8069	Open fracture of unspecified vertebral column with spinal cord injury

80085	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85100	Cortex (cerebral) contusion without mention of open intracranial wound, unspecified state of consciousness
80086	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration	85101	Cortex (cerebral) contusion without mention of open intracranial wound, with no loss of consciousness
80089	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified	85102	Cortex (cerebral) contusion without mention of open intracranial wound, with brief [less than one hour] loss of consciousness
80110	Closed fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness	85103	Cortex (cerebral) contusion without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80111	Closed fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness	85104	Cortex (cerebral) contusion without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80112	Closed fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness	85105	Cortex (cerebral) contusion without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80113	Closed fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness	85106	Cortex (cerebral) contusion without mention of open intracranial wound, with loss of consciousness of unspecified duration
80114	Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85109	Cortex (cerebral) contusion without mention of open intracranial wound, with concussion, unspecified
80115	Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85110	Cortex (cerebral) contusion with open intracranial wound, unspecified state of consciousness
80116	Closed fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration	85111	Cortex (cerebral) contusion with open intracranial wound, with no loss of consciousness
80119	Closed fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified	85112	Cortex (cerebral) contusion with open intracranial wound, with brief [less than one hour] loss of consciousness

80120	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	85113	Cortex (cerebral) contusion with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80121	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness	85114	Cortex (cerebral) contusion with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80122	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness	85115	Cortex (cerebral) contusion with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80123	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness	85116	Cortex (cerebral) contusion with open intracranial wound, with loss of consciousness of unspecified duration
80124	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85119	Cortex (cerebral) contusion with open intracranial wound, with concussion, unspecified
80125	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85120	Cortex (cerebral) laceration without mention of open intracranial wound, unspecified state of consciousness
80126	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration	85121	Cortex (cerebral) laceration without mention of open intracranial wound, with no loss of consciousness
80129	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified	85122	Cortex (cerebral) laceration without mention of open intracranial wound, with brief [less than one hour] loss of consciousness
80130	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	85123	Cortex (cerebral) laceration without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80131	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness	85124	Cortex (cerebral) laceration without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level

80132	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness	85125	Cortex (cerebral) laceration without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80133	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness	85126	Cortex (cerebral) laceration without mention of open intracranial wound, with loss of consciousness of unspecified duration
80134	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85129	Cortex (cerebral) laceration without mention of open intracranial wound, with concussion, unspecified
80135	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85130	Cortex (cerebral) laceration with open intracranial wound, unspecified state of consciousness
80136	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration	85131	Cortex (cerebral) laceration with open intracranial wound, with no loss of consciousness
80139	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified	85132	Cortex (cerebral) laceration with open intracranial wound, with brief [less than one hour] loss of consciousness
80160	Open fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness	85133	Cortex (cerebral) laceration with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80161	Open fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness	85134	Cortex (cerebral) laceration with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80162	Open fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness	85135	Cortex (cerebral) laceration with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80163	Open fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness	85136	Cortex (cerebral) laceration with open intracranial wound, with loss of consciousness of unspecified duration
80164	Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85139	Cortex (cerebral) laceration with open intracranial wound, with concussion, unspecified

80165	Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85140	Cerebellar or brain stem contusion without mention of open intracranial wound, unspecified state of consciousness
80166	Open fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration	85141	Cerebellar or brain stem contusion without mention of open intracranial wound, with no loss of consciousness
80169	Open fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified	85142	Cerebellar or brain stem contusion without mention of open intracranial wound, with brief [less than one hour] loss of consciousness
80170	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	85143	Cerebellar or brain stem contusion without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80171	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness	85144	Cerebellar or brain stem contusion without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80172	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness	85145	Cerebellar or brain stem contusion without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80173	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness	85146	Cerebellar or brain stem contusion without mention of open intracranial wound, with loss of consciousness of unspecified duration
80174	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85149	Cerebellar or brain stem contusion without mention of open intracranial wound, with concussion, unspecified
80175	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85150	Cerebellar or brain stem contusion with open intracranial wound, unspecified state of consciousness
80176	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration	85151	Cerebellar or brain stem contusion with open intracranial wound, with no loss of consciousness
80179	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified	85152	Cerebellar or brain stem contusion with open intracranial wound, with brief [less than one hour] loss of consciousness

80180	Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	85153	Cerebellar or brain stem contusion with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80181	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness	85154	Cerebellar or brain stem contusion with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80182	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness	85155	Cerebellar or brain stem contusion with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80183	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness	85156	Cerebellar or brain stem contusion with open intracranial wound, with loss of consciousness of unspecified duration
80184	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85159	Cerebellar or brain stem contusion with open intracranial wound, with concussion, unspecified
80185	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85160	Cerebellar or brain stem laceration without mention of open intracranial wound, unspecified state of consciousness
80186	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration	85161	Cerebellar or brain stem laceration without mention of open intracranial wound, with no loss of consciousness
80189	Open fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified	85162	Cerebellar or brain stem laceration without mention of open intracranial wound, with brief [less than 1 hour] loss of consciousness
80310	Other closed skull fracture with cerebral laceration and contusion, unspecified state of consciousness	85163	Cerebellar or brain stem laceration without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80311	Other closed skull fracture with cerebral laceration and contusion, with no loss of consciousness	85164	Cerebellar or brain stem laceration without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80312	Other closed skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness	85165	Cerebellar or brain stem laceration without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level

80313	Other closed skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness	85166	Cerebellar or brain stem laceration without mention of open intracranial wound, with loss of consciousness of unspecified duration
80314	Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85169	Cerebellar or brain stem laceration without mention of open intracranial wound, with concussion, unspecified
80315	Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85170	Cerebellar or brain stem laceration with open intracranial wound, unspecified state of consciousness
80316	Other closed skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration	85171	Cerebellar or brain stem laceration with open intracranial wound, with no loss of consciousness
80319	Other closed skull fracture with cerebral laceration and contusion, with concussion, unspecified	85172	Cerebellar or brain stem laceration with open intracranial wound, with brief [less than one hour] loss of consciousness
80320	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	85173	Cerebellar or brain stem laceration with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80321	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness	85174	Cerebellar or brain stem laceration with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80322	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness	85175	Cerebellar or brain stem laceration with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80323	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness	85176	Cerebellar or brain stem laceration with open intracranial wound, with loss of consciousness of unspecified duration
80324	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85179	Cerebellar or brain stem laceration with open intracranial wound, with concussion, unspecified
80325	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85180	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, unspecified state of consciousness

80326	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration	85181	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, with no loss of consciousness
80329	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified	85182	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, with brief [less than one hour] loss of consciousness
80330	Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified state of unconsciousness	85183	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80331	Other closed skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness	85184	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80332	Other closed skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness	85185	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80333	Other closed skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness	85186	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, with loss of consciousness of unspecified duration
80334	Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85189	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, with concussion, unspecified
80335	Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85190	Other and unspecified cerebral laceration and contusion, with open intracranial wound, unspecified state of consciousness
80336	Other closed skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration	85191	Other and unspecified cerebral laceration and contusion, with open intracranial wound, with no loss of consciousness
80339	Other closed skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified	85192	Other and unspecified cerebral laceration and contusion, with open intracranial wound, with brief [less than one hour] loss of consciousness

80360	Other open skull fracture with cerebral laceration and contusion, unspecified state of consciousness	85193	Other and unspecified cerebral laceration and contusion, with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80361	Other open skull fracture with cerebral laceration and contusion, with no loss of consciousness	85194	Other and unspecified cerebral laceration and contusion, with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80362	Other open skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness	85195	Other and unspecified cerebral laceration and contusion, with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80363	Other open skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness	85196	Other and unspecified cerebral laceration and contusion, with open intracranial wound, with loss of consciousness of unspecified duration
80364	Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85199	Other and unspecified cerebral laceration and contusion, with open intracranial wound, with concussion, unspecified
80365	Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85200	Subarachnoid hemorrhage following injury without mention of open intracranial wound, unspecified state of consciousness
80366	Other open skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration	85201	Subarachnoid hemorrhage following injury without mention of open intracranial wound, with no loss of consciousness
80369	Other open skull fracture with cerebral laceration and contusion, with concussion, unspecified	85202	Subarachnoid hemorrhage following injury without mention of open intracranial wound, with brief [less than one hour] loss of consciousness
80370	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	85203	Subarachnoid hemorrhage following injury without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80371	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness	85204	Subarachnoid hemorrhage following injury without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level

80372	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness	85205	Subarachnoid hemorrhage following injury without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80373	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness	85206	Subarachnoid hemorrhage following injury without mention of open intracranial wound, with loss of consciousness of unspecified duration
80374	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85209	Subarachnoid hemorrhage following injury without mention of open intracranial wound, with concussion, unspecified
80375	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85210	Subarachnoid hemorrhage following injury with open intracranial wound, unspecified state of consciousness
80376	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration	85211	Subarachnoid hemorrhage following injury with open intracranial wound, with no loss of consciousness
80379	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified	85212	Subarachnoid hemorrhage following injury with open intracranial wound, with brief [less than one hour] loss of consciousness
80380	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified state of consciousness	85213	Subarachnoid hemorrhage following injury with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80381	Other open skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness	85214	Subarachnoid hemorrhage following injury with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80382	Other open skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness	85215	Subarachnoid hemorrhage following injury with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80383	Other open skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness	85216	Subarachnoid hemorrhage following injury with open intracranial wound, with loss of consciousness of unspecified duration

80384	Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85219	Subarachnoid hemorrhage following injury with open intracranial wound, with concussion, unspecified
80385	Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85220	Subdural hemorrhage following injury without mention of open intracranial wound, unspecified state of consciousness
80386	Other open skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration	85221	Subdural hemorrhage following injury without mention of open intracranial wound, with no loss of consciousness
80389	Other open skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified	85222	Subdural hemorrhage following injury without mention of open intracranial wound, with brief [less than one hour] loss of consciousness
80410	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness	85223	Subdural hemorrhage following injury without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80411	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness	85224	Subdural hemorrhage following injury without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80412	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness	85225	Subdural hemorrhage following injury without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80413	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness	85226	Subdural hemorrhage following injury without mention of open intracranial wound, with loss of consciousness of unspecified duration
80414	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85229	Subdural hemorrhage following injury without mention of open intracranial wound, with concussion, unspecified
80415	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85230	Subdural hemorrhage following injury with open intracranial wound, unspecified state of consciousness

80416	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration	85231	Subdural hemorrhage following injury with open intracranial wound, with no loss of consciousness
80419	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified	85232	Subdural hemorrhage following injury with open intracranial wound, with brief [less than one hour] loss of consciousness
80420	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	85233	Subdural hemorrhage following injury with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80421	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness	85234	Subdural hemorrhage following injury with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80422	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness	85235	Subdural hemorrhage following injury with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80423	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness	85236	Subdural hemorrhage following injury with open intracranial wound, with loss of consciousness of unspecified duration
80424	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85239	Subdural hemorrhage following injury with open intracranial wound, with concussion, unspecified
80425	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85240	Extradural hemorrhage following injury without mention of open intracranial wound, unspecified state of consciousness
80426	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration	85241	Extradural hemorrhage following injury without mention of open intracranial wound, with no loss of consciousness
80429	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified	85242	Extradural hemorrhage following injury without mention of open intracranial wound, with brief [less than 1 hour] loss of consciousness

80430	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness	85243	Extradural hemorrhage following injury without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80431	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness	85244	Extradural hemorrhage following injury without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80432	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness	85245	Extradural hemorrhage following injury without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80433	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness	85246	Extradural hemorrhage following injury without mention of open intracranial wound, with loss of consciousness of unspecified duration
80434	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85249	Extradural hemorrhage following injury without mention of open intracranial wound, with concussion, unspecified
80435	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85250	Extradural hemorrhage following injury with open intracranial wound, unspecified state of consciousness
80436	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration	85251	Extradural hemorrhage following injury with open intracranial wound, with no loss of consciousness
80439	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified	85252	Extradural hemorrhage following injury with open intracranial wound, with brief [less than one hour] loss of consciousness
80460	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness	85253	Extradural hemorrhage following injury with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80461	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness	85254	Extradural hemorrhage following injury with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level

80462	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness	85255	Extradural hemorrhage following injury with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80463	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness	85256	Extradural hemorrhage following injury with open intracranial wound, with loss of consciousness of unspecified duration
80464	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85259	Extradural hemorrhage following injury with open intracranial wound, with concussion, unspecified
80465	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85300	Other and unspecified intracranial hemorrhage following injury without mention of open intracranial wound, unspecified state of consciousness
80466	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration	85301	Other and unspecified intracranial hemorrhage following injury without mention of open intracranial wound, with no loss of consciousness
80469	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified	85302	Other and unspecified intracranial hemorrhage following injury without mention of open intracranial wound, with brief [less than one hour] loss of consciousness
80470	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	85303	Other and unspecified intracranial hemorrhage following injury without mention of open intracranial wound, with moderate [1-24 hours] loss of consciousness
80471	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness	85304	Other and unspecified intracranial hemorrhage following injury without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80472	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness	85305	Other and unspecified intracranial hemorrhage following injury without mention of open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level

80473	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness	85306	Other and unspecified intracranial hemorrhage following injury without mention of open intracranial wound, with loss of consciousness of unspecified duration
80474	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85309	Other and unspecified intracranial hemorrhage following injury without mention of open intracranial wound, with concussion, unspecified
80475	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level	85310	Other and unspecified intracranial hemorrhage following injury with open intracranial wound, unspecified state of consciousness
80476	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration	85311	Other and unspecified intracranial hemorrhage following injury with open intracranial wound, with no loss of consciousness
80479	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified	85312	Other and unspecified intracranial hemorrhage following injury with open intracranial wound, with brief [less than one hour] loss of consciousness
80480	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness	85313	Other and unspecified intracranial hemorrhage following injury with open intracranial wound, with moderate [1-24 hours] loss of consciousness
80481	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness	85314	Other and unspecified intracranial hemorrhage following injury with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level
80482	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness	85315	Other and unspecified intracranial hemorrhage following injury with open intracranial wound, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level
80483	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness	85316	Other and unspecified intracranial hemorrhage following injury with open intracranial wound, with loss of consciousness of unspecified duration

80484	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level	85319	Other and unspecified intracranial hemorrhage following injury with open intracranial wound, with concussion, unspecified
80485	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level	95200	C1-C4 level with unspecified spinal cord injury
80486	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration	95201	C1-C4 level with complete lesion of spinal cord
80489	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified	95202	C1-C4 level with anterior cord syndrome
80600	Closed fracture of C1-C4 level with unspecified spinal cord injury	95203	C1-C4 level with central cord syndrome
80601	Closed fracture of C1-C4 level with complete lesion of cord	95204	C1-C4 level with other specified spinal cord injury
80602	Closed fracture of C1-C4 level with anterior cord syndrome	95205	C5-C7 level with unspecified spinal cord injury
80603	Closed fracture of C1-C4 level with central cord syndrome	95206	C5-C7 level with complete lesion of spinal cord
80604	Closed fracture of C1-C4 level with other specified spinal cord injury	95207	C5-C7 level with anterior cord syndrome
80605	Closed fracture of C5-C7 level with unspecified spinal cord injury	95208	C5-C7 level with central cord syndrome
80606	Closed fracture of C5-C7 level with complete lesion of cord	95209	C5-C7 level with other specified spinal cord injury
80607	Closed fracture of C5-C7 level with anterior cord syndrome	95210	T1-T6 level with unspecified spinal cord injury
80608	Closed fracture of C5-C7 level with central cord syndrome	95211	T1-T6 level with complete lesion of spinal cord
80609	Closed fracture of C5-C7 level with other specified spinal cord injury	95212	T1-T6 level with anterior cord syndrome
80610	Open fracture of C1-C4 level with unspecified spinal cord injury	95213	T1-T6 level with central cord syndrome
80611	Open fracture of C1-C4 level with complete lesion of cord	95214	T1-T6 level with other specified spinal cord injury
80612	Open fracture of C1-C4 level with anterior cord syndrome	95215	T7-T12 level with unspecified spinal cord injury
80613	Open fracture of C1-C4 level with central cord syndrome	95216	T7-T12 level with complete lesion of spinal cord

80614	Open fracture of C1-C4 level with other specified spinal cord injury	95217	T7-T12 level with anterior cord syndrome
80615	Open fracture of C5-C7 level with unspecified spinal cord injury	95218	T7-T12 level with central cord syndrome
80616	Open fracture of C5-C7 level with complete lesion of cord	95219	T7-T12 level with other specified spinal cord injury
80617	Open fracture of C5-C7 level with anterior cord syndrome	9522	Lumbar spinal cord injury without evidence of spinal bone injury
80618	Open fracture of C5-C7 level with central cord syndrome	9523	Sacral spinal cord injury without evidence of spinal bone injury
80619	Open fracture of C5-C7 level with other specified spinal cord injury	9524	Cauda equina spinal cord injury without evidence of spinal bone injury
80620	Closed fracture of T1-T6 level with unspecified spinal cord injury	9528	Multiple sites of spinal cord injury without evidence of spinal bone injury
80621	Closed fracture of T1-T6 level with complete lesion of cord	9529	Unspecified site of spinal cord injury without evidence of spinal bone injury
80622	Closed fracture of T1-T6 level with anterior cord syndrome		