

Table 1 [=IMG1]: Codes to Identify Neuroimaging in Administrative Claims

Imaging Modality	Code Type	Codes
Computerized Tomography (CT) of Brain/Head	Revenue (UB-92)	350, 351, 352, 353, 354, 355, 356, 357, 358, 359
	CPT	70450, 70460, 70470, 70480, 70481, 70482
	ICD-9-CM	87.03
Magnetic Resonance Imaging (MRI) of Brain/Head	Revenue (UB-92)	610, 611, 612, 613, 614, 615, 616, 617, 618, 619
	CPT	70551, 70552, 70553
	ICD-9-CM	88.91

Table 2 [=IMG2]: Epilepsy and Recurrent Seizures

General Diagnosis	Diagnosis Detail	ICD-9-CM Code
Epilepsy and recurrent seizures		
Generalized non-convulsive	Absences (atonic, typical), minor epilepsy, petit mal, pykno-epilepsy, seizures (akineti, atonic)	345.0
Generalized convulsive	Epileptic seizures (clonic, tonic, myoclonic, tonic-clonic), grand mal, major epilepsy	345.1
Petit mal status	Epileptic absence status	345.2
Grand mal status	Status epilepticus NOS	345.3
Localized-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures	Epilepsy (limbic system partial, psychomotor, psychosensory, temporal lobe), Epileptic automatism	345.4
Localized-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures	Epilepsy (Bravais-Jacksonian NOS, focal (motor) NOS, Jacksonian NOS, motor partial, partial NOS, sensory-induced, somatomotor, somatosensory, visceral, visual	345.5
Infantile spasms	Hypsarrhythmia, Lightning spasms, Salaam attacks	345.6
Epilepsia partialis continua	Kojevnikov's epilepsy	345.7
Other forms of epilepsy and recurrent seizures	Cursive [running] gelastic	345.8
Epilepsy, unspecified	Epileptic convulsions, fits or seizures NOS, recurrent seizures NOS, seizure disorder NOS	345.9
General symptoms		
	Simple febrile seizure	780.31
	Complex febrile seizure	780.32
	Post-traumatic seizure	780.33
	Other convulsions	780.39

Table 3 [=IMG8]: Vascular Disease

General Diagnosis	Diagnosis Detail	ICD-9-CM Code
Hemangioma of unspecified site (includes cavernous malformation)		228.00
Phlebitis/thrombophlebitis of intracranial venous sinuses		325
Occlusion and stenosis of precerebral arteries	Basilar artery	433.0
	Carotid artery	433.1
	Vertebral artery	433.2
	Multiple and bilateral	433.3
	Other specified	433.8
	Unspecified	433.9
Occlusion of the cerebral arteries	Cerebral thrombosis	434.0
	Cerebral embolism	434.1
	Cerebral artery occlusion	434.9
Transient cerebral ischemia	Basilar artery syndrome, vertebral artery syndrome, etc	435.x
Cerebral aneurysm, nonruptured		437.3
Moyamoya disease		437.5
Nonpyogenic thrombosis of intracranial venous sinus		437.6
Other congenital anomalies of the circulatory system	Coarctation of the aorta	747.1
	Other anomalies of the aorta	747.2x
Other specified anomalies of circulatory system (includes arteriovenous malformation)	Cerebrovascular anomalies	747.81
	Other (aneurysm)	747.89
Other venous embolism/thrombosis unspecified site		753.9
Other and unspecified intracranial hemorrhage		432.x
Personal history of other certain diseases	TIA and cerebral infarction	V12.5

Table 4 [=IMG9]: Head Trauma and Intracranial Hemorrhage

General Diagnosis	Diagnosis Detail	ICD-9-CM Code
Post-traumatic headache		339.2x
Concussion	With no loss of consciousness	850.0
	With brief loss of consciousness	850.1
Fracture of skull	Closed w/o mention of intracranial injury	800.0
	Closed with cerebral laceration and contusion	800.1
	Closed with subarachnoid, subdural and extradural hemorrhage	800.2
	Closed with other and unspecified intracranial hemorrhage	800.3
	Closed with intracranial injury of other and unspecified nature	800.4
	Open w/o mention of intracranial injury	800.5
	Open with cerebral laceration and contusion	800.6
	Open with subarachnoid, subdural and extradural hemorrhage	800.7
	Open with other and unspecified intracranial hemorrhage	800.8
	Open with intracranial injury of other, unspecified nature	800.9
	Fracture of skull base	801.x
	Other, unqualified skull fracture	803.x
	Multiple fractures involving skull or face with other bones	804.x
Concussion	With loss of consciousness (LOC) 30min or less	850.11
	With LOC 31 minutes to 59 minutes	850.12
	With moderate LOC (1-24 hours)	850.2
	With prolonged LOC and return to pre-existing conscious level	850.3
	With prolonged LOC, without return to pre-existing conscious level	850.4
	With loss of consciousness of unspecified duration	850.5
	Concussion, unspecified	850.9
	Cerebral laceration and contusion	851.x
	Subarachnoid, subdural, extradural hemorrhage post injury	852.x
	Other/unspecified intracranial hemorrhage following injury	853.x
	Intracranial injury of other and unspecified nature	854.x
	Subarachnoid hemorrhage	430
	Intracerebral hemorrhage	431
	Other and unspecified intracranial hemorrhage	432.x
	Child abuse and neglect	995.5x
	Observation and evaluation for – abuse and neglect	V71.81
	Late effect of fracture of skull and face bones	905.0
	Late effect of intracranial injury without mention of skull fracture	907.0

Table 5 [=IMG12]: ICD-9-CM Codes to Identify Relative Contraindications to MRI

General Description	Code
Devices	
Programmable shunt	V53.01
Nerve Stimulator	V53.02
Cochlear or Ocular Implant	V53.09
Cardiac Pace Maker	V53.31
AICD	V53.32
Implanted pumps/infusion pumps	V53.91
Bone/spinal fusion stimulator; Coils/stents/filters; IUCs/diaphragms; Halo vests/fixation devices; Ferrous aneurysm clips; Ferromagnetic foreign body	V53.99
Other complications	
Retained (old) intraocular foreign body, magnetic	360.5
Foreign body, magnetic	360.5x
Penetration of eyeball with magnetic foreign body	871.5
Mechanical complication of nervous system device, implant, and graft	996.2
Mechanical complication of internal orthopedic device, implant, and graft	996.4
Due to vascular device, implant and graft	996.62
Due to other internal orthopedic device, implant and graft	996.67
Aftercare involving internal fixation device	V54.0