**Supplemental Table. ICD-9CM Diagnosis and Procedure Codes**

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| --- | --- |
| Classification | Code(s) |
| **Diagnosis**Alcohol abuseAneurysmArteriovenous malformationCerebral venous sinus thrombosisEhlers Danlos Intracerebral hemorrhageMarfan syndromeMalignant neoplasm of brainMetastatic tumorMoyamoya diseaseObesityOpioid useOverweightPregnancyTobacco use disorderSickle cell diseaseSubstance use disorderVon Willebrand Disease |  291.0-291.3, 303.0, 303.9, 305.0, 790.3, 890.0, E860.0430.0, 437.3, 39.51, 39.52747.81325.0, 437.6, 671.5756.83431759.82191.0 – 191.9198.3437.5278.0, 278.01, 278.03, 649.1, 793.91, V77.8, V85.3, V85.4, V85.54965.00 – 965.02, 965.09278.02, V85.2, V85.53640 – 677 305.1, 649.0, 989.84282.6, 282.61, 282.62304.0 – 9, 305.2 – 305.9286.4 |
| **Procedure**CraniotomyExternal ventricular drainPercutaneous endoscopic gastrostomy tubeTracheostomyVentriculoperitoneal shunt | 01.2, 01.20, 01.23 – 01.28, 01.3902.2, 02.20 – 02.2243.1, 43.10, 43.11, 43.19, 44.32, 44.38, 44.3931.1, 31.10, 31.2, 31.20, 31.21, 31.2902.3, 02.30 – 02.35, 02.39 |