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| **GROUPS** | ICD-9 | ICD-9 Description |
| **Epistaxis** | 459.0 | Hemorrhage, unspecified\* |
|  | 784.7 | Epistaxis |
| **Hematuria** | 459.0 | Hemorrhage, unspecified\* |
|  | 599.7 | Hematuria |
| **Gastrointestinal bleeding** | 456.0 | Esophageal varices with bleeding |
|  | 459.0 | Hemorrhage, unspecified\* |
|  | 530.82 | Esophageal hemorrhage |
|  | 531.00 | Acute gastric ulcer with hemorrhage, without mention of obstruction |
|  | 531.01 | Acute gastric ulcer with hemorrhage, with obstruction |
|  | 531.41 | Chronic or unspecified gastric ulcer with hemorrhage, with obstruction |
|  | 532.00 | Acute duodenal ulcer with hemorrhage, without mention of obstruction |
|  | 532.21 | Acute duodenal ulcer with hemorrhage and perforation, with obstruction |
|  | 532.61 | Chronic or unspecified duodenal ulcer with hemorrhage and perforation, with obstruction |
|  | 535.01 | Acute gastritis, with hemorrhage |
|  | 535.51 | Unspecified gastritis and gastroduodenitis, with hemorrhage |
|  | 535.61 | Duodenitis, with hemorrhage |
|  | 562.12 | Diverticulosis of colon with hemorrhage |
|  | 562.13 | Diverticulitis of colon with hemorrhage |
|  | 578.0 | Hematemesis |
|  | 578.1 | Blood in stool |
|  | 578.9 | Hemorrhage of gastrointestinal tract, unspecified |
|  | 784.8 | Hemorrhage from throat |
| **Cerebral hemorrhage** | 430 | Subarachnoid hemorrhage |
|  | 431 | Intracerebral hemorrhage |
|  | 432.0 | Nontraumatic extradural hemorrhage |
|  | 432.1 | Subdural hemorrhage |
|  | 432.9 | Unspecified intracranial hemorrhage |
|  | 459.0 | Hemorrhage, unspecified\* |
|  | 997.02 | Iatrogenic cerebrovascular infarction or hemorrhage |
| **Other hemorrhages** | 286.5 | Hemorrhagic disorder due to intrinsic circulating anticoagulants |
|  | 287.2 | Other nonthrombocytopenic purpuras |
|  | 287.8 | Other specified hemorrhagic conditions |
|  | 287.9 | Unspecified hemorrhagic conditions |
|  | 423.0 | Hemopericardium |
|  | 459.0 | Hemorrhage, unspecified\* |
|  | 719.16 | Hemarthrosis, lower leg |
|  | 719.18 | Hemarthrosis, other specified sites |
|  | 786.3 | Hemoptysis |
|  | 998.11 | Hemorrhage complicating a procedure |
|  | 998.12 | Hematoma complicating a procedure |
| \*Whenever the kind of hemorrhage was unspecified (discharge code 459.0) the clinical record diagnosis was considered for the classification. | | |

Supplementary Table 1: ICD-9 codes list and description.