

Supplementary Table S1. Variable defined using International Classification of Diseases, Tenth Revision (ICD-10) Clinical Modification (CM) & Procedure Coding System (PCS)

Variable	ICD-10	Code(s)
Watchman	PCS	O2L73DK
Atrial fibrillation	CM	I48.0, I48.11, I48.19, I48.20, I48.21, I48.91
Atrial flutter	CM	I48.3, I48.4, I48.92
Bleeding related admits		
GI bleed	CM	I85.01, K25.0, K25.4, K26.0, K26.4, K27.4, K28.0, K28.4, K29.01, K29.51, K29.61, K29.71, K29.81, K31.811, K51.011, K51.911, K55.21, K57.11, K57.21, K57.31, K57.33, K57.51, K57.91, K57.93, K62.5, K92.0, K92.1, K92.2
Hemorrhagic anemia	CM	D62
Hemorrhagic disorder due to extrinsic circulating anticoagulants	CM	D68.32
Postprocedural hemorrhage of the spleen following other procedure	CM	D78.22
Acute hemorrhagic cerebrovascular disease	CM	I60.02, I60.32, I60.7, I60.8, I60.9, I61.0, I61.1, I61.3, I61.4, I61.5, I61.8, I61.9, I62.00, I62.01, I62.02, I62.03, I62.9
Sequela of hemorrhagic cerebrovascular disease	CM	I69.098, I69.120, I69.151, I69.191, I69.193, I69.198, I69.21, I69.218, I69.220, I69.293, I69.298
Hereditary hemorrhagic telangiectasia	CM	I78.0
Postprocedural hemorrhage/hematoma of a circulatory system organ complicating other circulatory system procedure	CM	I97.418, I97.618, I97.638
Postprocedural hemorrhage/hematoma of a digestive system organ	CM	K94.01, K94.11, K91.840, K91.841
Hemoperitoneum	CM	K66.1
Hemorrhage of GU system including hematuria and post-procedural	CM	N02.9, N30.01, N30.41, N30.91, N42.1, N99.61, N99.820, R31.0, R31.9
Traumatic brain injury with intracranial hemorrhage	CM	S06.340A, S06.341A, S06.350A, S06.360A, S06.369A, S06.5X0A, S06.5X0D, S06.5X1A, S06.5X1D, S06.5X9A, S06.5X9D, S06.6X0A, S06.6X0D, S06.6X1A, S06.6X7A, S06.6X9A
Hemorrhage due to cardiovascular device/implant/graft	CM	T82.837A, T82.838A
Hemorrhage due to genitourinary device/implant/graft	CM	T83.83XA
Traumatic hemo/hemopneumothorax	CM	S27.1XXA, S27.2XXA
Hemothorax	CM	J94.2
Hemarthrosis	CM	M25.012, M25.061, M25.062
Hemorrhage from tracheostomy stoma	CM	J95.01
Postprocedural hematoma/hemorrhage of skin	CM	L76.21, L76.22, L76.32
Postprocedural hematoma of Musculoskeletal structure	CM	M96.841
Non-traumatic hematoma of soft tissue	CM	M79.81
Hemorrhage not elsewhere classified	CM	R58
Epistaxis	CM	R04.0
Hemoptysis	CM	R04.2

Supplementary Table SI. Cont.

Variable	ICD-10	Code(s)
Thrombosis related admits		
Cerebral infarction	CM	I63.02, I63.10, I63.131, I63.132, I63.19, I63.231, I63.232, I63.233, I63.311, I63.312, I63.322, I63.332, I63.341, I63.349, I63.40, I63.411, I63.412, I63.413, I63.419, I63.421, I63.422, I63.431, I63.432, I63.441, I63.442, I63.49, I63.50, I63.511, I63.512, I63.519, I63.531, I63.541, I63.542, I63.8, I63.9
Postprocedural cerebral infarction	CM	I97.821
Cerebral ischemia	CM	I67.82
Sequela of cerebral infarction	CM	I69.320, I69.322, I69.351, I69.352, I69.354, I69.391, I69.393, I69.398
TIA	CM	G45.0, G45.9
Intracardiac thrombosis	CM	I51.3
Intestinal ischemia	CM	K55.019, K55.031, K55.039, K55.049, K55.069
Peripheral artery thrombosis or embolism	CM	I74.2, I74.3, I74.8
Ischemia and infarction of kidney	CM	N28.0
Thrombosis due to cardiovascular device	CM	T82.867A, T82.868A
Hemiplegia	CM	G81.92, G81.94