

Supplementary Table 1. Definition of variables outcomes according to ICD-9 and ICD-10 from Med-Echo databases

	ICD-9 codes	ICD-10 codes
Thromboembolic events		
Stroke		
Ischaemic stroke	433.xx, 434.xx, 436.0, 436.9 (primary diagnosis only using Med-Echo)	I63 except I63.6, I64 (primary diagnosis only using Med-Echo)
Systemic embolism	444.x, 557.0, 362.31, 362.32, 598.31 (primary diagnosis only using Med-Echo)	I74 (primary only)
Arterial embolism and thrombosis	444.x (primary diagnosis only using Med-Echo)	I74.0, I74.1, I74.2, I74.3, I74.5, I74.8, I74.9 (primary diagnosis only using Med-Echo)
Ischemic colitis or mesenteric thromboembolism	557.0 (primary diagnosis only using Med-Echo)	K55.0 (primary diagnosis only using Med-Echo)
Retinal artery thromboembolism	362.31, 362.32 (primary diagnosis only using Med-Echo)	H34.1, H34.2 (primary diagnosis only using Med-Echo)
Renal artery thromboembolism	593.81 (primary diagnosis only using Med-Echo)	N28.0 (primary diagnosis only using Med-Echo)
All-cause of deaths		
Major bleeding		
Intracranial bleeding (recurrent event)	430, 431, 432.x, 852.x, 853.x (primary diagnosis or the first secondary diagnosis using Med-Echo)	I60, I61, I62, S06.3, S06.4, S06.5, S06.6 (primary diagnosis or the first secondary diagnosis using Med-Echo)
Other major bleeding		
Major GI bleeding		
Upper gastrointestinal bleeding (only using Med-Echo)	456.1, 530.7, 531.0x, 531.2x, 531.4x, 531.6x, 532.0x, 532.2x, 532.4x, 532.6x, 533.0x, 533.2x, 533.4x, 533.6x, 534.0x, 534.2x, 534.4x, 534.6x, 535.1, 578.0 (primary diagnosis only using Med-Echo)	I85.0, K22.6, K25.0, K25.2, K25.4, K25.6, K26.0, K26.2, K26.4, K26.6, K27.0, K27.2, K27.4, K27.6, K28.0, K28.2, K28.4, K28.6, K29.0, K92.0 (primary diagnosis only using Med-Echo)
Upper gastrointestinal bleeding (only using RAMQ)	456.1, 530.7, 531.0x, 531.2x, 531.4x, 531.6x, 532.0x, 532.2x, 532.4x, 532.6x, 533.0x, 533.2x, 533.4x, 533.6x, 534.0x, 534.2x, 534.4x, 534.6x, 535.1, 578.0 RAMQ ICD-9 at an emergency room and procedure endoscopic control of gastric or duodenal bleeding or upper gastrointestinal endoscopy including esophagus, stomach, and either the duodenum and/or jejunum as appropriate with control of bleeding, any method (code 00691) within 7 days	I85.0, K22.6, K25.0, K25.2, K25.4, K25.6, K26.0, K26.2, K26.4, K26.6, K27.0, K27.2, K27.4, K27.6, K28.0, K28.2, K28.4, K28.6, K29.0, K92.0 RAMQ ICD-9 at an emergency room and procedure endoscopic control of gastric or duodenal bleeding or upper gastrointestinal endoscopy including esophagus, stomach, and either the duodenum and/or jejunum as appropriate with control of bleeding, any method (00691) within 7 days
Lower gastrointestinal bleeding	562.02, 562.03, 562.12, 562.13, 569.3x, 569.85, 578.1x, 578.9 (primary diagnosis only using Med-Echo)	K57.11, K57.13, K57.31, K57.33, K62.5, K55.21, K92.1, K92.2 (primary diagnosis only using Med-Echo)
Other major bleeds		
Gross hematuria	599.7 (primary diagnosis only using Med-Echo)	R31 (primary diagnosis only using Med-Echo)
Hemoptysis	786.3x (primary diagnosis only using Med-Echo)	R04.2, R04.89, R04.9 (primary diagnosis only using Med-Echo)
Vitreous hemorrhage	379.23 (primary diagnosis only using Med-Echo)	H43.13 (primary diagnosis only using Med-Echo)
Urogenital bleed	626.2x and 280.0 (primary only), 285.1 (principal diagnosis or the first secondary diagnosis) or 285.9 (principal diagnosis or the first secondary diagnosis using Med-Echo)	N92.0 and D50.0 (primary only), D62 (principal diagnosis or the first secondary diagnosis), D64.9 (principal diagnosis or the first secondary diagnosis using Med-Echo)
Hemathrosis	719.1x (primary diagnosis only using Med-Echo)	M25.0x (primary diagnosis only using Med-Echo)
Hemopericardium	423.0 (primary diagnosis only using Med-Echo)	I31.2 (primary diagnosis only using Med-Echo)
Hemoperitoneum	568.8 (primary diagnosis only using Med-Echo)	K66.1 (primary diagnosis only using Med-Echo)
Hemorrhage not specified	459.0x (primary diagnosis only using Med-Echo)	R58.0 (primary diagnosis only using Med-Echo)
Acute posthemorrhagic anemia	285.1x (primary diagnosis only using Med-Echo)	D62 (primary diagnosis only using Med-Echo)
Instrumental bleeds codes in addition to other previous codes	996x, 997x, 998x, 999x, 8602, 8603, 8604, 8605, 851x, 920x, 921x, 922x, 923x, 924x	S271x, S272.x

ICD, International Classification of Diseases; GI, gastrointestinal; RAMQ, Régie de l'Assurance Maladie du Québec.