

Supplementary Material

1 Supplementary Tables

Table S1. International Classification of Disease, 9th and 10th edition, Clinical Modification (ICD-9-CM) codes used to define study clinical outcomes and comorbidities.

Clinical outcomes	ICD-9-CM codes	ICD-10 codes
Isquemic stroke	433.x1, 434.x1, 436.xx	I63.x, I67.81, I67.82, I67.89
TIA	435.xx	G45, I67.848
GI bleeding	456.0, 456.20, 530.21, 530.7, 530.82, 531.00, 531.01, 531.20, 531.21,531.40, 531.41, 531.60, 531.61, 532.00, 532.01, 532.20, 532.21,532.40, 532.41, 532.60, 532.61, 533.00, 533.01, 533.20, 533.21, 533.40, 533.41, 533.60, 533.61, 534.00, 534.01, 534.20, 534.21, 534.40, 534.41, 534.60, 534.61, 535.01, 535.11, 535.21, 535.31, 535.41,535.51, 535.61, 537.83, 537.84, 562.02, 562.03, 562.12, 562.13,568.81, 569.3, 569.85, 569.86, 578.0, 578.1, 578.9	I85.11, K22.11, K22.6, K22.8, 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, K29.01, K29.41, K29.51, K29.61, K29.21, K29.71, K29.91, K29.81,K31.811, K31.82, K57.01, K57.11, K57.13, K57.41, K57.51, K57.53,K57.81, K57.93, K57.21, K57.31, K57.91, K57.33, K66.1, K62.5, K55.21,K63.81, K92.0, K92.1, K92.2
Intracranial haemorrhage	430.xx, 431.xx, 432.xx, 852.0x, 852.2x, 852.4x, 853.0x	I60.x, I61.x, I62.0x, I62.1,I62.9, S06.36x, S06.4x, S06.5x,S06.6x
Acute Coronary Syndrome	410.00,410.01,410.10,410.11,410.20,410.21,410.31, 410.40,410.41,410.51,410.61,410.70,410.71,410.80, 410.81,410.90,410.91,411	I20,I21
Comorbidity	ICD-9-CM codes	ICD-10 codes
Congestive heart failure	428.xx, 398.91, 402.01, 402.11, 402.91, 404.01, 404.11, 404.03, 404.13, 404.91, 404.93, 425.4	I11.0, I13.0, I13.2, I42.0, I50.x
Hypertension	401.xx - 405.xx, 437.2	I10.x- I13.x, I15.x, I67.4
Diabetes	249.xx, 250.xx,	E08.x- E11.x, E13.x
Liver disease	070.0, 070.2x, 070.4x, 070.6x, 070.71, 570.xx, 571.xx, 572.xx	B150.x,B160.x, B162.x, B190.x, K704.x, K72.x ,K766.x, I85.x
Renal disease	403.x,404.x, 580.x- 586.x, 590.x,753.x	I12.x,I13.x, N00.x- N05.x, N07.x, N11.x, N14.x, N17.x-N19.x,Q61.x
Dementia	290.xx, 294.xx, 330.xx, 331.xx	F00.x,F01.x, F02.x, F03.x, G30.x, G31.x
Depression	296.2x, 296.3x, 298.0x, 300.4x, 301.12, 311.xx	F32.x, F33.x, F34.1
Malignancy	140.xx-208.xx	C00.x -C96.x
Alcohol	291.xx, 303.xx, 305.0x, 980.0, 357.5	E52.x, F10.x, G31.2, G62.1, G72.1, I42.6, K29.2, K70.x, K86.0, O35.4,

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		T51.x, Z71.4
VTE	451.xx,452.xx,453.5,453.8,453.9,415.1,437.6, 453.40,453.41,453.42,434.01	I80.x,I81.x,I82.x,I26.x,I63.6,I67.6
Coronary heart disease	410.xx-414.xx	I20.x- I25.x
Vascular disease	410.xx- 414.xx, 440.xx, 443.9	I20.x- I25.x, I70.x, I71.x, I73.9
Hemorrhagic stroke	430.xx- 432.xx, 852.0x, 852.2x, 852.4x, 853.x	I60.x, I61.x, I62.0x, I62.1, I62.9, S06.36x, S06.4x, S06.5x, S06.6x
GI bleeding	456.0, 456.20, 530.21, 530.7, 530.82, 531.00, 531.01, 531.20, 531.21,531.40, 531.41, 531.60, 531.61, 532.00, 532.01, 532.20, 532.21,532.40, 532.41, 532.60, 532.61, 533.00, 533.01, 533.20, 533.21, 533.40, 533.41, 533.60, 533.61, 534.00, 534.01, 534.20, 534.21, 534.40, 534.41, 534.60, 534.61, 535.01, 535.11, 535.21, 535.31, 535.41,535.51, 535.61, 537.83, 537.84, 562.02, 562.03, 562.12, 562.13,568.81, 569.3, 569.85, 569.86, 578.0, 578.1, 578.9	I85.11, K22.11, K22.6, K22.8, 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, K29.01, K29.41, K29.51, K29.61, K29.21, K29.71, K29.91, K29.81,K31.811, K31.82, K57.01, K57.11, K57.13, K57.41, K57.51, K57.53,K57.81, K57.93, K57.21, K57.31, K57.91, K57.33, K66.1, K62.5, K55.21,K63.81, K92.0, K92.1, K92.2
Other bleeding	078.6, 246.3, 285.1, 286.5, 336.1, 388.69, 360.43, 362.43, 362.81, 363.61, 363.62, 363.72, 364.41, 372.72, 376.32, 377.42, 379.23, 423.0, 459.0, 599.7, 599.70, 599.71, 602.1, 621.4, 626.2, 626.5, 626.7, 626.8, 626.9, 640.8x, 641.8x, 641.9x, 641.3x, 641.1x, 666.1x, 719.1x, 782.7, 784.7, 784.8, 866.01, 866.11, 790.01, 958.2, 998.1, 998.11, 998.12	A98.5, D62, D68.312, D68.318, D68.32, G95.19, H92.2x, H44.81x, H35.73x, H35.6x, H31.30x, H31.31x, H31.41x, H21.0x, H11.3x, H05.23x, H47.02x, H43.1x, I31.2, R58, R31.9, R31.0, N42.1, N85.7, N92.0, N92.3, N93.0, N93.8, N92.6, N93.9, O20.8x, O46.x, O72.x, M25.0x, R23.3, R04.0, R04.1, S37.019, S37.029, S37.019, S37.029, R71.0, T79.2x, D78.2x, E36.0x, E89.1x, G97.3x, G97.5x, H59.1x, H59.3x, H95.2x, H95.4x, I97.4x, I97.6x, J95.6x, J95.83x, K91.6x, K91.84x, L76.0x, L76.2x, M96.8x, N99.6x, N99.82x

ICD-9-CM: International Classification of Diseases, 9th Revision, Clinical Modification; ICD-10-CM: International Classification of Diseases, 10th Revision, Clinical Modification; GI: gastrointestinal VTE: venous and pulmonary thromboembolism.

Table S2. Factors associated with each treatment strategy (Vs OAC treatment). Multinomial logistic regression analysis.

	No treatment		APT		OAC+APT	
	OR	95% IC	OR	95% IC	OR	95% IC
Age; mean (SD)	1.00	0.99-1.01	0.99	0.99-0.99	0.99	0.99-1.00
Female	1.42	1.19-1.70	1.29	1.16-1.44	0.81	0.72-0.91
Country						
Spain	0.61	0.43-0.87	1.01	0.77-1.34	0.65	0.50-0.86
Other	0.83	0.37-1.86	1.22	0.70-2.11	0.76	0.43-1.35
Unkown	0.46	0.30-0.68	0.71	0.53-0.97	0.65	0.48-0.87
Diagnoses						
Atrial flutter vs AF	1.33	0.81-2.15	1.40	1.05-1.87	0.93	0.64-1.33
Stroke vs TIA	0.92	0.73-1.15	0.99	0.87-1.15	1.07	0.93-1.24
Medication Use						
APT	0.73	0.58-0.92	4.07	3.61-4.59	5.3	4.54-6.19
OAC	0.31	0.25-0.39	0.08	0.06-0.10	0.87	0.74-1.03
OAC+APT	0.35	0.21-0.61	0.57	0.42-0.77	7.56	6.11-9.35
Comorbidities						
Congestive heart failure	1.56	1.25-1.94	1.72	1.01-1.36	1.15	0.98-1.33
Hypertension	1.02	0.83-1.25	0.99	0.88-1.30	1.09	0.95-1.25
Diabetes	1.12	0.93-1.36	1.22	1.08-1.37	1.40	1.24-1.59
Liver disease	2.39	1.35-4.23	1.64	1.01-2.55	1.67	1.08-2.56
Renal disease	1.52	1.20-1.91	1.70	1.47-1.98	0.99	0.84-1.16

Dementia	1.95	1.55-2.46	2.31	1.98-2.68	1.05	0.88-1.26
Depression	1.03	0.72-1.47	1.02	0.81-1.29	1.03	0.80-1.33
Cancer	3.93	2.97-5.19	1.92	1.52-2.43	1.21	0.93-1.57
Coronary heart disease	1.01	0.80-1.42	1.42	1.22-1.66	2.12	1.83-2.45
VTE	1.65	1.19-2.30	1.75	1.39-2.20	1.39	1.09-1.79
Alcohol	0.52	0.31-0.87	0.79	0.58-1.07	1.00	0.74-1.35
Intracranial haemorrhage	2.79	1.97-3.94	1.45	1.09-1.94	0.99	0.71-1.39
Gastrointestinal bleeding	3.56	2.26-5.61	1.86	1.24-2.78	0.84	0.49-1.45
Other bleeding	1.08	0.86-1.40	0.94	0.81-1.10	1.05	0.91-1.22
Length of stay	1.00	1.01-1.01	1.00	0.99-1.00	0.99	0.99-0.99

