

Supplemental 2. Drugs included and respective categories

Drugs	
Antiplatelet	Aspirin, Ticlopidine, Clopidogrel, Prasugrel, Reopro, Plavix, Ticlid, Effient, Tirosint, Aspirin dipyridamole, Dipyridamole, Pletal, Cilostazol
Vitamin K antagonists	Warfarin, Coumadin, Jantoven
Factor X inhibitors	Eliquis, Savaysa, Xarelto, Pradaxa, Arixtra, Fondaparinux

Supplemental 3. Patient demographics of unmatched patients undergoing elective lumbar and cervical spine interventions who were on anticoagulation therapy versus not prior to surgery

Characteristic	Total (N=660,866)	Not AC (N=631,638)	AC (N=29,228)	p-value
Age (yr)				<0.001
18–24	7,066 (1.07)	7,049 (1.12)	17 (0.06)	
25–29	10,161 (1.54)	10,125 (1.6)	36 (0.12)	
30–34	21,641 (3.27)	21,542 (3.41)	99 (0.34)	
35–39	35,440 (5.36)	35,202 (5.57)	238 (0.81)	
40–44	50,788 (7.69)	50,194 (7.95)	594 (2.03)	
45–49	67,789 (10.26)	66,589 (10.54)	1,200 (4.11)	
50–54	84,753 (12.82)	82,328 (13.03)	2,425 (8.3)	
55–59	94,733 (14.33)	90,805 (14.38)	3,928 (13.44)	
60–64	95,306 (14.42)	89,940 (14.24)	5,366 (18.36)	
65–69	90,969 (13.77)	84,477 (13.37)	6,492 (22.21)	
70–74	102,220 (15.47)	93,387 (14.78)	8,833 (30.22)	
Comorbidities				<0.001
Atrial fibrillation	16,736 (2.53)	12,100 (1.92)	4,636 (15.86)	
Cancer	50,040 (7.57)	46,398 (7.35)	3,642 (12.46)	
Chronic kidney disease	38,742 (5.86)	34,091 (5.4)	4,651 (15.91)	
Coagulopathy	25,338 (3.83)	21,732 (3.44)	3,606 (12.34)	
Diabetes mellitus	191,429 (28.97)	176,808 (27.99)	14,621 (50.02)	
Hyperlipidemia	189,040 (28.6)	175,723 (27.82)	13,317 (45.56)	
Hypertension	366,182 (55.41)	341,741 (54.1)	24,441 (83.62)	
Liver disease	62,596 (9.47)	58,847 (9.32)	3,749 (12.83)	
Obesity	145,718 (22.05)	136,471 (21.61)	9,247 (31.64)	
Peripheral vascular disease	69,547 (10.52)	60,175 (9.53)	9,372 (32.07)	
Smoking	155,699 (23.56)	146,217 (23.15)	9,482 (32.44)	
Outcomes				<0.001
Ischemic events	19,393 (2.93)	13,547 (2.14)	5,846 (20)	
Deep vein thrombosis	3,240 (0.49)	2,517 (0.4)	723 (2.47)	
Myocardial infarction	9,444 (1.43)	5,790 (0.92)	3,654 (12.5)	
Pulmonary embolism	3,552 (0.54)	2,788 (0.44)	764 (2.61)	
Stroke	4,560 (0.69)	3,416 (0.54)	1,144 (3.91)	
Bleeding	1,1874 (1.8)	10,448 (1.65)	1,426 (4.88)	
Hematoma	7,088 (1.07)	6,497 (1.03)	591 (2.02)	
Transfusion	5,191 (0.79)	4,285 (0.68)	906 (3.1)	
Drugs				<0.001
Antiplatelet		0		
Factor X inhibitors		0		
Vitamin K antagonists		0		

Values are presented as number (%).
AC, anticoagulation.