

Clinical and budget impact of temporal changes in oral anticoagulation for stroke prevention in atrial fibrillation: nationwide multisource health records study

Andrzej Orłowski, Chris P Gale, Rachel Ashton, Bruno Petrunaro, Ruth Slater, Ramesh Nadarajah, J Campbell Cowan, Jackie Buck, Wayne Smith, Jianhua Wu

Table S1: Metrics for data extract from the Business Services Authorities electronic Prescribing and Costing Tool

Metrics	Explanation
extractperiod	The year and month the prescriptions were dispensed
cgg_code	The code of the CCG related to the practice
practice_code	The code of the practice
LSOA_code	The code of the LSOA related to the practice
MSOA_code	The code of the MSOA related to the practice
pack_code	A unique code for each different pack of items
pack_name	The name of the pack of items
total_items	The number of items for this presentation that were dispensed in the specified month. A prescription item refers to a single supply of a medicine, dressing or appliance prescribed on a prescription form.
total_quantity	The quantity of a drug dispensed, measured in units depending on the formulation of the product, which is given in the drug name.
total_actual_cost	Actual cost
total_nic_cost	The basic cost of a drug as used in primary care.

Abbreviations: CCG, clinical commissioning group; LSOA, lower layer super output area; MSOA, middle layer super output area.

Table S2: List of branded and unbranded oral anticoagulant items searched

pack_code	pack_name
0208020Z0AAAAAA	Apixaban Tab 2.5mg
0208020Z0AAABAB	Apixaban Tab 5mg
0208020V0BDAAAC	Coumadin Tab 4mg
0208020X0AAABAB	Dabigatran Etexilate Cap 110mg
0208020X0AAACAC	Dabigatran Etexilate Cap 150mg
0208020AAAAABAB	Edoxaban Tab 30mg
0208020AAAAACAC	Edoxaban Tab 60mg
0208020Z0BBAAAA	Eliquis Tab 2.5mg
0208020Z0BBABAB	Eliquis Tab 5mg
0208020A0BBABAB	Lixiana Tab 30mg
0208020A0BBACAC	Lixiana Tab 60mg
0208020V0BBAAAA	Marevan Tab 1mg
0208020V0BBABAB	Marevan Tab 3mg
0208020V0BBAFAS	Marevan Tab 500mcg
0208020V0BBACAD	Marevan Tab 5mg
0208020X0BBABAB	Pradaxa Cap 110mg
0208020X0BBACAC	Pradaxa Cap 150mg
0208020Y0AAAEAE	Rivaroxaban Init Tt/Pack (Tab 15mg/20mg)
0208020Y0AAAAAA	Rivaroxaban Tab 10mg
0208020Y0AAABAB	Rivaroxaban Tab 15mg
0208020Y0AAACAC	Rivaroxaban Tab 20mg
0208020V0AABABA	Warfarin Sod Cap 1mg
0208020V0AABCBC	Warfarin Sod Cap 3mg
0208020V0AABDBD	Warfarin Sod Cap 5mg
0208020V0AAARAR	Warfarin Sod Liq Spec 1.5mg/5ml
0208020V0AAAVAV	Warfarin Sod Liq Spec 10mg/5ml
0208020V0AAANAN	Warfarin Sod Liq Spec 1mg/5ml
0208020V0AAAKAK	Warfarin Sod Liq Spec 25mg/5ml
0208020V0AAAMAM	Warfarin Sod Liq Spec 3mg/5ml
0208020V0AAAXAX	Warfarin Sod Liq Spec 500mcg/5ml
0208020V0AAAIAI	Warfarin Sod Liq Spec 5mg/5ml
0208020V0AABBBB	Warfarin Sod Oral Susp 1mg/1ml S/F
0208020V0AAAZAZ	Warfarin Sod Oral Susp 5mg/5ml S/F
0208020V0AAAAAA	Warfarin Sod Tab 1mg
0208020V0AAABAB	Warfarin Sod Tab 3mg
0208020V0AAASAS	Warfarin Sod Tab 500mcg
0208020V0AADAD	Warfarin Sod Tab 5mg
0208020Y0BBAEAE	Xarelto Initiation Tt/Pack (Tab 15mg/20mg)
0208020Y0BBABAB	Xarelto Tab 15mg
0208020Y0BBACAC	Xarelto Tab 20mg

Table S3: Net ingredient costs by year

Pack code	Pack name	Year	Total actual cost	Total NIC cost	Average NIC cost per quantity
0208020V0BDAAAC	Coumadin_Tab 4mg	2011	£41.83	£45.36	£0.81
0208020X0AAABAB	Dabigatran Etexilate_Cap 110mg	2011	£96,790.63	£104,965.56	£1.52
0208020X0AAACAC	Dabigatran Etexilate_Cap 150mg	2011	£29,007.53	£31,443.30	£1.26
0208020Z0BBAAAA	Eliquis_Tab 2.5mg	2011	£94.86	£102.90	£1.72
0208020V0BBAAAA	Marevan_Tab 1mg	2011	£14,730.84	£15,315.61	£0.01
0208020V0BBABAB	Marevan_Tab 3mg	2011	£11,622.51	£12,005.00	£0.01
0208020V0BBAFAS	Marevan_Tab 500mcg	2011	£5,327.00	£5,566.41	£0.02
0208020V0BBACAD	Marevan_Tab 5mg	2011	£4,334.28	£4,512.59	£0.02
0208020X0BBABAB	Pradaxa_Cap 110mg	2011	£10,945.17	£11,872.14	£1.57
0208020X0BBACAC	Pradaxa_Cap 150mg	2011	£2,684.66	£2,910.60	£1.26
0208020Y0AAAAAA	Rivaroxaban_Tab 10mg	2011	£107,401.16	£116,519.24	£4.41
0208020V0AAAVAV	Warfarin Sod_Liq Spec 10mg/5ml	2011	£10,544.10	£11,446.23	£3.05
0208020V0AAANAN	Warfarin Sod_Liq Spec 1mg/5ml	2011	£32,418.55	£35,179.54	£0.85
0208020V0AAAMAM	Warfarin Sod_Liq Spec 3mg/5ml	2011	£6,503.51	£7,056.87	£0.99
0208020V0AAAXAX	Warfarin Sod_Liq Spec 500mcg/5ml	2011	£300.64	£326.26	£46.61
0208020V0AAAIAI	Warfarin Sod_Liq Spec 5mg/5ml	2011	£105,635.60	£114,629.81	£0.88
0208020V0AABBBB	Warfarin Sod_Oral Susp 1mg/1ml S/F	2011	£36,231.28	£39,299.93	£0.61
0208020V0AAAAAA	Warfarin Sod_Tab 1mg	2011	£7,316,797.81	£7,812,853.71	£0.03
0208020V0AAABAB	Warfarin Sod_Tab 3mg	2011	£4,735,668.66	£5,034,812.11	£0.03
0208020V0AAASAS	Warfarin Sod_Tab 500mcg	2011	£1,400,697.09	£1,498,575.66	£0.06
0208020V0AADAD	Warfarin Sod_Tab 5mg	2011	£1,803,552.37	£1,917,182.43	£0.03
0208020Z0AAAAAA	Apixaban_Tab 2.5mg	2012	£1,702.71	£1,845.34	£1.72
0208020Z0AAABAB	Apixaban_Tab 5mg	2012	£10.24	£10.98	£1.10
0208020X0AAABAB	Dabigatran Etexilate_Cap 110mg	2012	£1,365,766.79	£1,479,726.58	£1.11
0208020X0AAACAC	Dabigatran Etexilate_Cap 150mg	2012	£1,050,777.10	£1,138,940.50	£1.11
0208020Z0BBAAAA	Eliquis_Tab 2.5mg	2012	£173.94	£188.65	£1.72
0208020V0BBAAAA	Marevan_Tab 1mg	2012	£7,264.59	£7,400.95	£0.01
0208020V0BBABAB	Marevan_Tab 3mg	2012	£5,077.32	£4,921.21	£0.01
0208020V0BBAFAS	Marevan_Tab 500mcg	2012	£2,682.80	£2,797.38	£0.02
0208020V0BBACAD	Marevan_Tab 5mg	2012	£2,395.42	£2,396.19	£0.02
0208020X0BBABAB	Pradaxa_Cap 110mg	2012	£44,288.98	£48,004.74	£1.12
0208020X0BBACAC	Pradaxa_Cap 150mg	2012	£43,545.77	£47,207.18	£1.12
0208020Y0AAAAAA	Rivaroxaban_Tab 10mg	2012	£129,432.17	£140,193.90	£2.10
0208020Y0AAABAB	Rivaroxaban_Tab 15mg	2012	£133,649.73	£144,740.40	£2.10
0208020Y0AAACAC	Rivaroxaban_Tab 20mg	2012	£433,698.22	£470,015.70	£2.10
0208020V0AAARAR	Warfarin Sod_Liq Spec 1.5mg/5ml	2012	£265.53	£287.83	£0.64
0208020V0AAAVAV	Warfarin Sod_Liq Spec 10mg/5ml	2012	£2,143.69	£2,323.60	£1.52
0208020V0AAANAN	Warfarin Sod_Liq Spec 1mg/5ml	2012	£24,641.96	£26,714.29	£0.70
0208020V0AAAKAK	Warfarin Sod_Liq Spec 25mg/5ml	2012	£166.21	£180.00	£0.90
0208020V0AAAMAM	Warfarin Sod_Liq Spec 3mg/5ml	2012	£5,699.09	£6,177.51	£1.11
0208020V0AAAIAI	Warfarin Sod_Liq Spec 5mg/5ml	2012	£67,370.22	£73,018.60	£0.64

0208020V0AABBBB	Warfarin Sod_Oral Susp 1mg/1ml S/F	2012	£158,377.54	£171,633.20	£0.63
0208020V0AAAAAA	Warfarin Sod_Tab 1mg	2012	£7,493,887.04	£7,965,249.11	£0.03
0208020V0AAABAB	Warfarin Sod_Tab 3mg	2012	£4,922,239.44	£5,218,729.39	£0.03
0208020V0AAASAS	Warfarin Sod_Tab 500mcg	2012	£1,615,134.86	£1,728,722.39	£0.06
0208020V0AAADAD	Warfarin Sod_Tab 5mg	2012	£1,818,094.89	£1,928,528.93	£0.03
0208020Y0BBAAAA	Xarelto_Tab 10mg	2012	£2,986.82	£3,238.20	£2.10
0208020Y0BBABAB	Xarelto_Tab 15mg	2012	£2,076.60	£2,251.20	£2.10
0208020Y0BBACAC	Xarelto_Tab 20mg	2012	£4,203.45	£4,557.00	£2.10
0208020Z0AAAAAA	Apixaban_Tab 2.5mg	2013	£305,289.99	£330,151.44	£1.10
0208020Z0AAABAB	Apixaban_Tab 5mg	2013	£429,664.98	£465,215.18	£1.10
0208020X0AAABAB	Dabigatran Etexilate_Cap 110mg	2013	£5,081,270.26	£5,497,450.92	£1.10
0208020X0AAACAC	Dabigatran Etexilate_Cap 150mg	2013	£4,173,322.29	£4,517,603.53	£1.10
0208020Z0BBAAAA	Eliquis_Tab 2.5mg	2013	£3,796.50	£4,109.59	£1.11
0208020Z0BBABAB	Eliquis_Tab 5mg	2013	£5,325.27	£5,766.91	£1.10
0208020V0BBAAAA	Marevan_Tab 1mg	2013	£5,509.77	£5,038.06	£0.01
0208020V0BBABAB	Marevan_Tab 3mg	2013	£3,429.42	£3,151.00	£0.01
0208020V0BBAFAS	Marevan_Tab 500mcg	2013	£1,727.91	£1,825.08	£0.02
0208020V0BBACAD	Marevan_Tab 5mg	2013	£1,880.21	£1,914.15	£0.02
0208020X0BBABAB	Pradaxa_Cap 110mg	2013	£126,489.04	£136,889.75	£1.10
0208020X0BBACAC	Pradaxa_Cap 150mg	2013	£106,785.51	£115,619.78	£1.10
0208020Y0AAAAAA	Rivaroxaban_Tab 10mg	2013	£515,178.20	£557,350.50	£2.10
0208020Y0AAABAB	Rivaroxaban_Tab 15mg	2013	£1,929,356.88	£2,086,570.42	£2.10
0208020Y0AAACAC	Rivaroxaban_Tab 20mg	2013	£6,418,074.45	£6,946,188.08	£2.10
0208020V0AAAVAV	Warfarin Sod_Liq Spec 10mg/5ml	2013	£955.01	£1,035.12	£1.15
0208020V0AAANAN	Warfarin Sod_Liq Spec 1mg/5ml	2013	£18,061.24	£19,532.08	£0.83
0208020V0AAAMAM	Warfarin Sod_Liq Spec 3mg/5ml	2013	£9,163.58	£9,924.17	£1.68
0208020V0AAAI AI	Warfarin Sod_Liq Spec 5mg/5ml	2013	£23,584.39	£25,542.16	£0.66
0208020V0AABBBB	Warfarin Sod_Oral Susp 1mg/1ml S/F	2013	£265,692.45	£287,653.30	£0.67
0208020V0AAAAAA	Warfarin Sod_Tab 1mg	2013	£8,331,757.74	£8,868,974.88	£0.03
0208020V0AAABAB	Warfarin Sod_Tab 3mg	2013	£5,473,786.61	£5,827,333.26	£0.03
0208020V0AAASAS	Warfarin Sod_Tab 500mcg	2013	£1,623,479.23	£1,741,053.44	£0.05
0208020V0AAADAD	Warfarin Sod_Tab 5mg	2013	£2,039,989.63	£2,174,656.75	£0.03
0208020Y0BBABAB	Xarelto_Tab 15mg	2013	£17,051.10	£18,459.00	£2.10
0208020Y0BBACAC	Xarelto_Tab 20mg	2013	£54,248.57	£58,739.10	£2.10
0208020Z0AAAAAA	Apixaban_Tab 2.5mg	2014	£2,946,373.25	£3,183,737.51	£1.10
0208020Z0AAABAB	Apixaban_Tab 5mg	2014	£4,862,297.07	£5,260,055.26	£1.10
0208020X0AAABAB	Dabigatran Etexilate_Cap 110mg	2014	£8,225,151.56	£8,891,893.95	£1.10
0208020X0AAACAC	Dabigatran Etexilate_Cap 150mg	2014	£7,378,700.74	£7,981,123.95	£1.10
0208020Z0BBAAAA	Eliquis_Tab 2.5mg	2014	£31,324.08	£33,876.74	£1.10
0208020Z0BBABAB	Eliquis_Tab 5mg	2014	£51,212.64	£55,420.01	£1.10
0208020V0BBAAAA	Marevan_Tab 1mg	2014	£2,723.36	£2,837.87	£0.01

0208020V0BBABAB	Marevan_Tab 3mg	2014	£1,546.19	£1,608.52	£0.01
0208020V0BBAFAS	Marevan_Tab 500mcg	2014	£1,112.57	£1,172.59	£0.02
0208020V0BBACAD	Marevan_Tab 5mg	2014	£1,267.71	£1,343.37	£0.02
0208020X0BBABAB	Pradaxa_Cap 110mg	2014	£172,037.03	£186,069.24	£1.10
0208020X0BBACAC	Pradaxa_Cap 150mg	2014	£157,272.02	£170,156.87	£1.10
0208020Y0AAAAAA	Rivaroxaban_Tab 10mg	2014	£1,148,266.65	£1,240,912.00	£2.10
0208020Y0AAABAB	Rivaroxaban_Tab 15mg	2014	£6,304,555.23	£6,813,703.80	£2.10
0208020Y0AAACAC	Rivaroxaban_Tab 20mg	2014	£24,085,542.40	£26,049,070.89	£2.10
0208020V0AAAVAV	Warfarin_Sod_Liq_Spec 10mg/5ml	2014	£134.25	£145.25	£1.45
0208020V0AAANAN	Warfarin_Sod_Liq_Spec 1mg/5ml	2014	£14,330.22	£15,509.84	£0.90
0208020V0AAAMAM	Warfarin_Sod_Liq_Spec 3mg/5ml	2014	£3,249.01	£3,516.67	£1.71
0208020V0AAAI	Warfarin_Sod_Liq_Spec 5mg/5ml	2014	£19,455.42	£21,056.64	£0.67
0208020V0AABBBB	Warfarin_Sod_Oral_Susp 1mg/1ml S/F	2014	£320,390.77	£346,722.18	£0.68
0208020V0AAAAAA	Warfarin_Sod_Tab 1mg	2014	£9,156,369.29	£9,756,687.22	£0.03
0208020V0AAABAB	Warfarin_Sod_Tab 3mg	2014	£6,046,624.33	£6,444,947.58	£0.03
0208020V0AAASAS	Warfarin_Sod_Tab 500mcg	2014	£1,614,710.91	£1,729,830.40	£0.05
0208020V0AADAD	Warfarin_Sod_Tab 5mg	2014	£2,168,892.17	£2,313,984.36	£0.03
0208020Y0BBABAB	Xarelto_Tab 15mg	2014	£35,530.13	£38,381.18	£2.10
0208020Y0BBACAC	Xarelto_Tab 20mg	2014	£159,560.49	£172,634.70	£2.10
0208020Z0AAAAAA	Apixaban_Tab 2.5mg	2015	£12,559,168.05	£13,558,978.08	£1.10
0208020Z0AAABAB	Apixaban_Tab 5mg	2015	£21,441,713.57	£23,172,232.63	£1.10
0208020X0AAABAB	Dabigatran_Etexilate_Cap 110mg	2015	£10,436,987.39	£11,273,101.25	£1.10
0208020X0AAACAC	Dabigatran_Etexilate_Cap 150mg	2015	£9,977,159.26	£10,783,047.08	£1.10
0208020AAAAABAB	Edoxaban_Tab 30mg	2015	£2,433.23	£2,631.30	£2.10
0208020AAAAACAC	Edoxaban_Tab 60mg	2015	£6,478.33	£7,005.60	£2.10
0208020Z0BBAAAA	Eliquis_Tab 2.5mg	2015	£76,458.45	£82,631.57	£1.10
0208020Z0BBABAB	Eliquis_Tab 5mg	2015	£136,101.97	£147,166.79	£1.10
0208020AABBABAB	Lixiana_Tab 30mg	2015	£217.44	£235.20	£2.10
0208020AABBACAC	Lixiana_Tab 60mg	2015	£231.16	£249.90	£2.10
0208020V0BBAAAA	Marevan_Tab 1mg	2015	£1,607.05	£1,669.23	£0.01
0208020V0BBABAB	Marevan_Tab 3mg	2015	£792.22	£822.76	£0.01
0208020V0BBAFAS	Marevan_Tab 500mcg	2015	£296.27	£306.73	£0.02
0208020V0BBACAD	Marevan_Tab 5mg	2015	£713.13	£755.89	£0.02
0208020X0BBABAB	Pradaxa_Cap 110mg	2015	£200,514.39	£216,614.82	£1.10
0208020X0BBACAC	Pradaxa_Cap 150mg	2015	£197,012.18	£212,926.15	£1.10
0208020Y0AAAAAA	Rivaroxaban_Tab 10mg	2015	£1,788,452.17	£1,931,242.28	£2.10
0208020Y0AAABAB	Rivaroxaban_Tab 15mg	2015	£14,747,385.83	£15,923,772.83	£2.10
0208020Y0AAACAC	Rivaroxaban_Tab 20mg	2015	£60,254,466.48	£65,110,866.64	£2.10

0208020V0AAAVAV	Warfarin Sod_Liq Spec 10mg/5ml	2015	£754.58	£815.55	£1.63
0208020V0AAANAN	Warfarin Sod_Liq Spec 1mg/5ml	2015	£16,233.00	£17,560.14	£0.96
0208020V0AAAMAM	Warfarin Sod_Liq Spec 3mg/5ml	2015	£4,179.75	£4,518.91	£2.60
0208020V0AAAI AI	Warfarin Sod_Liq Spec 5mg/5ml	2015	£16,915.22	£18,288.96	£0.67
0208020V0AABBBB	Warfarin Sod_Oral Susp 1mg/1ml S/F	2015	£370,726.01	£400,863.66	£0.71
0208020V0AAAAAA	Warfarin Sod_Tab 1mg	2015	£10,116,612.65	£10,794,441.55	£0.04
0208020V0AAABAB	Warfarin Sod_Tab 3mg	2015	£6,615,693.30	£7,059,274.51	£0.04
0208020V0AAASAS	Warfarin Sod_Tab 500mcg	2015	£2,054,698.83	£2,204,343.88	£0.06
0208020V0AADAD	Warfarin Sod_Tab 5mg	2015	£2,344,307.00	£2,503,466.16	£0.04
0208020Y0BBABAB	Xarelto_Tab 15mg	2015	£55,438.95	£59,923.50	£2.10
0208020Y0BBACAC	Xarelto_Tab 20mg	2015	£274,561.27	£296,818.20	£2.10
0208020Z0AAAAAA	Apixaban_Tab 2.5mg	2016	£28,348,440.87	£30,558,980.27	£0.98
0208020Z0AAABAB	Apixaban_Tab 5mg	2016	£49,140,358.73	£53,036,316.79	£0.98
0208020X0AAABAB	Dabigatran Etexilate_Cap 110mg	2016	£9,359,760.82	£10,095,766.47	£0.87
0208020X0AAACAC	Dabigatran Etexilate_Cap 150mg	2016	£9,278,074.49	£10,013,798.09	£0.87
0208020AAAAABAB	Edoxaban_Tab 30mg	2016	£196,157.27	£211,625.35	£1.87
0208020AAAAACAC	Edoxaban_Tab 60mg	2016	£390,656.07	£421,644.00	£1.87
0208020Z0BBAAAA	Eliquis_Tab 2.5mg	2016	£117,012.44	£126,289.27	£0.98
0208020Z0BBABAB	Eliquis_Tab 5mg	2016	£199,170.20	£215,089.37	£0.98
0208020AABBABAB	Lixiana_Tab 30mg	2016	£1,134.99	£1,220.50	£1.86
0208020AABBACAC	Lixiana_Tab 60mg	2016	£6,043.01	£6,520.85	£1.87
0208020V0BBAAAA	Marevan_Tab 1mg	2016	£1,072.92	£1,111.39	£0.01
0208020V0BBABAB	Marevan_Tab 3mg	2016	£482.74	£503.84	£0.01
0208020V0BBAFAS	Marevan_Tab 500mcg	2016	£189.95	£143.79	£0.02
0208020V0BBACAD	Marevan_Tab 5mg	2016	£462.27	£489.50	£0.02
0208020X0BBABAB	Pradaxa_Cap 110mg	2016	£190,892.06	£205,991.68	£0.87
0208020X0BBACAC	Pradaxa_Cap 150mg	2016	£188,497.84	£203,488.10	£0.87
0208020Y0AAAAAA	Rivaroxaban_Tab 10mg	2016	£1,812,363.62	£1,952,940.60	£1.80
0208020Y0AAABAB	Rivaroxaban_Tab 15mg	2016	£21,244,497.77	£22,906,752.06	£1.80
0208020Y0AAACAC	Rivaroxaban_Tab 20mg	2016	£88,201,254.67	£95,178,660.29	£1.80
0208020V0AABABA	Warfarin Sod_Cap 1mg	2016	£553.84	£597.70	£5.34
0208020V0AABCBC	Warfarin Sod_Cap 3mg	2016	£416.20	£449.15	£5.35
0208020V0AABDBD	Warfarin Sod_Cap 5mg	2016	£417.98	£451.07	£5.37
0208020V0AAAVAV	Warfarin Sod_Liq Spec 10mg/5ml	2016	£622.97	£673.53	£3.37
0208020V0AAANAN	Warfarin Sod_Liq Spec 1mg/5ml	2016	£17,877.27	£19,312.44	£1.60
0208020V0AAAMAM	Warfarin Sod_Liq Spec 3mg/5ml	2016	£2,167.76	£2,342.30	£2.10
0208020V0AAAI AI	Warfarin Sod_Liq Spec 5mg/5ml	2016	£20,017.25	£21,619.99	£0.86
0208020V0AABBBB	Warfarin Sod_Oral Susp 1mg/1ml S/F	2016	£394,940.56	£426,457.06	£0.71
0208020V0AAAAAA	Warfarin Sod_Tab 1mg	2016	£7,444,274.10	£7,909,769.95	£0.03
0208020V0AAABAB	Warfarin Sod_Tab 3mg	2016	£4,954,743.30	£5,266,009.02	£0.03
0208020V0AAASAS	Warfarin Sod_Tab 500mcg	2016	£1,826,565.45	£1,956,584.95	£0.06
0208020V0AADAD	Warfarin Sod_Tab 5mg	2016	£1,787,198.52	£1,901,950.12	£0.03
0208020Y0BBABAB	Xarelto_Tab 15mg	2016	£55,259.92	£59,385.60	£1.80
0208020Y0BBACAC	Xarelto_Tab 20mg	2016	£321,438.57	£347,070.60	£1.80
0208020Z0AAAAAA	Apixaban_Tab 2.5mg	2017	£47,728,042.34	£51,441,367.53	£0.95

0208020Z0AAABAB	Apixaban_Tab 5mg	2017	£90,801,825.12	£97,991,344.40	£0.95
0208020X0AAABAB	Dabigatran Etexilate_Cap 110mg	2017	£10,017,961.81	£10,800,484.15	£0.85
0208020X0AAACAC	Dabigatran Etexilate_Cap 150mg	2017	£10,497,719.89	£11,326,281.98	£0.85
0208020AAAAABAB	Edoxaban_Tab 30mg	2017	£1,538,819.99	£1,660,370.90	£1.80
0208020AAAAACAC	Edoxaban_Tab 60mg	2017	£2,668,698.85	£2,880,697.80	£1.80
0208020Z0BBAAAA	Eliquis_Tab 2.5mg	2017	£132,526.55	£142,998.03	£0.95
0208020Z0BBABAB	Eliquis_Tab 5mg	2017	£254,521.77	£274,818.85	£0.95
0208020AABBABAB	Lixiana_Tab 30mg	2017	£6,709.36	£7,243.45	£1.80
0208020AABBACAC	Lixiana_Tab 60mg	2017	£23,842.98	£25,739.35	£1.80
0208020V0BBAAAA	Marevan_Tab 1mg	2017	£684.95	£713.00	£0.01
0208020V0BBABAB	Marevan_Tab 3mg	2017	£315.57	£330.74	£0.01
0208020V0BBAFAS	Marevan_Tab 500mcg	2017	£26.89	£25.28	£0.04
0208020V0BBACAD	Marevan_Tab 5mg	2017	£229.19	£243.47	£0.02
0208020X0BBABAB	Pradaxa_Cap 110mg	2017	£200,474.18	£216,262.51	£0.85
0208020X0BBACAC	Pradaxa_Cap 150mg	2017	£189,964.65	£205,033.50	£0.85
0208020Y0AAAEAE	Rivaroxaban_Init Tt/Pack (Tab 15mg/20mg)	2017	£4,247.79	£4,586.40	£1.80
0208020Y0AAAAAA	Rivaroxaban_Tab 10mg	2017	£1,999,171.77	£2,154,878.80	£1.80
0208020Y0AAABAB	Rivaroxaban_Tab 15mg	2017	£29,204,926.81	£31,489,923.75	£1.80
0208020Y0AAADAD	Rivaroxaban_Tab 2.5mg	2017	£228,116.09	£246,069.00	£0.90
0208020Y0AAACAC	Rivaroxaban_Tab 20mg	2017	£117,232,779.43	£126,499,957.45	£1.80
0208020V0AAANAN	Warfarin Sod_Liq Spec 1mg/5ml	2017	£29,954.43	£32,347.61	£2.74
0208020V0AAAMAM	Warfarin Sod_Liq Spec 3mg/5ml	2017	£1,385.28	£1,495.36	£2.49
0208020V0AAAI AI	Warfarin Sod_Liq Spec 5mg/5ml	2017	£17,550.98	£18,951.83	£0.82
0208020V0AABBBB	Warfarin Sod_Oral Susp 1mg/1ml S/F	2017	£405,932.20	£438,301.44	£0.71
0208020V0AAAAAAA	Warfarin Sod_Tab 1mg	2017	£5,627,743.02	£5,963,979.35	£0.02
0208020V0AAABAB	Warfarin Sod_Tab 3mg	2017	£3,770,827.05	£3,997,575.12	£0.03
0208020V0AAASAS	Warfarin Sod_Tab 500mcg	2017	£1,468,743.31	£1,571,917.39	£0.05
0208020V0AAADAD	Warfarin Sod_Tab 5mg	2017	£1,387,279.70	£1,472,537.27	£0.03
0208020Y0BBAEAE	Xarelto_Initiation Tt/Pack (Tab 15mg/20mg)	2017	£3,266.95	£3,528.00	£1.80
0208020Y0BBABAB	Xarelto_Tab 15mg	2017	£59,613.76	£64,315.80	£1.80
0208020Y0BBACAC	Xarelto_Tab 20mg	2017	£356,362.50	£384,685.20	£1.80

Table S4: Numbers of patients with AF and AF-related strokes, by year

Calendar year	Total AF patients	Total AF-related stroke patients
2011	470,877	92,478
2012	496,862	93,860
2013	522,003	94,684
2014*	541,031	91,762
2015	583,873	96,359
2016	612,752	97,924
2017	644,283	99,453

*50% of the 2014 values were included in the study period 2011–2014, and 50% in the period 2014–2017.

Table S5: Proportions of warfarin prescribed for AF and other conditions, by year

Calendar year	Prevalence of AF (%)	Prevalence of VTE* (%)	Prevalence of other conditions [†] (%)	% of OAC prescription among AF	% of total OAC prescribed to AF
2011	1.5	0.3	0.37	50.0	51.9
2012	1.5	0.3	0.37	51.5	53.4
2013	1.5	0.3	0.37	54.4	55.4
2014	1.6	0.3	0.37	59.0	58.1
2015	1.7	0.3	0.37	64.9	61.5
2016	1.7	0.3	0.37	68.3	63.8
2017	1.8	0.3	0.37	71.4	65.6

*New VTE and VTE needing long-term anticoagulation. [†]Chronic rheumatic heart disease, antiphospholipid syndrome, cardiomyopathy, and prosthetic heart valve.

Table S6: Numbers of GP practices in England per year

	Total GP practices
Calendar year	
2011	8,791
2012	8,665
2013	8,645
2014	8,612
2015	8,598
2016	8,522
2017	8,375
QOF year	
2011	8,949
2012	8,844
2013	9,634
2014	9,502
2015	7,619
2016	7,392
2017	7,100

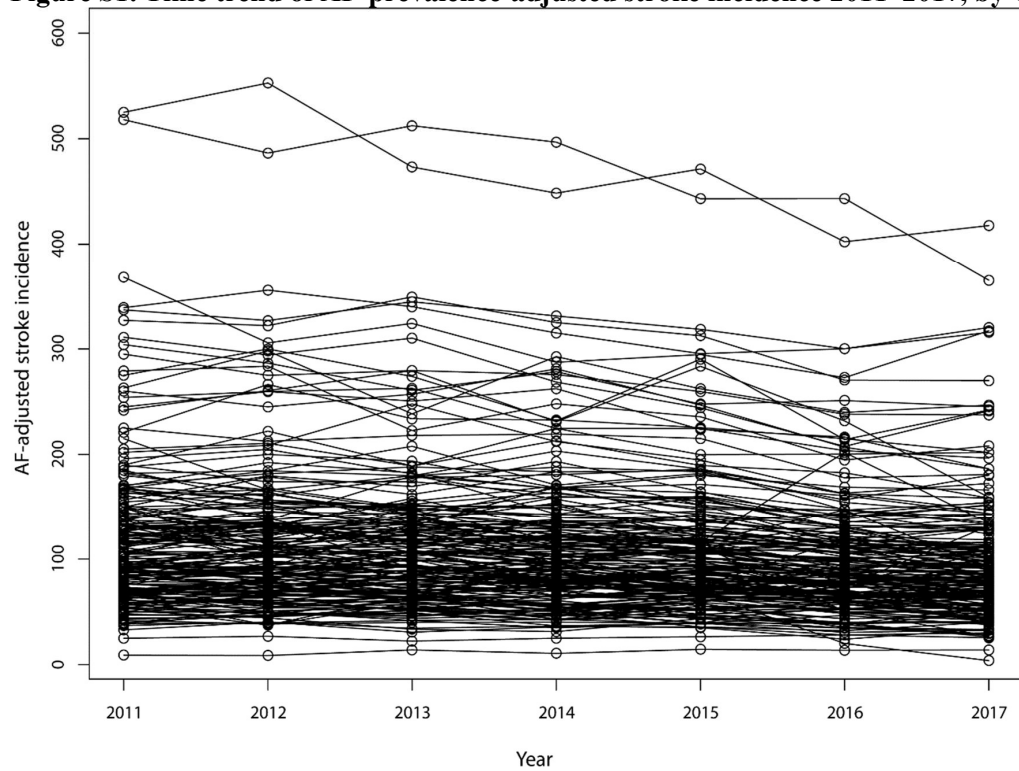
Figure S1. Time trend of AF-prevalence-adjusted stroke incidence 2011–2017, by CCG

Figure S2. Box and whisker plots of AF-prevalence-adjusted stroke incidence 2011–2017, by year

