

Online Data Supplement

Myocardial Infarction and Ischaemic Stroke Following Exacerbations of Chronic Obstructive Pulmonary Disease

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Table S6 Incidence rate ratios of first myocardial infarction in risk periods after an acute exacerbation of COPD relative to stable periods sensitivity analysis censoring within 12 months of ischemic stroke

Table S1 Medical codes used to identify myocardial infarction in CPRD.

Medical code	Read term
241	acute myocardial infarction
1204	heart attack
1677	mi - acute myocardial infarction
1678	inferior myocardial infarction nos
5387	other specified anterior myocardial infarction
10562	acute non-st segment elevation myocardial infarction
12229	acute st segment elevation myocardial infarction
14658	acute myocardial infarction nos
14897	anterior myocardial infarction nos
14898	lateral myocardial infarction nos
23892	posterior myocardial infarction nos
29758	acute transmural myocardial infarction of unspecif site
32854	acute posterolateral myocardial infarction
34803	other acute myocardial infarction
46017	other acute myocardial infarction nos
63467	true posterior myocardial infarction
96838	[x]acute transmural myocardial infarction of unspecif site

Table S2 Medical codes used to identify ischaemic stroke in CPRD.

Medical code	Read term
94482	[x]cereb infarct due unsp occlus/stenos precerebr arteries
91627	[x]cerebrl infarctn due/unspcf occlusn or sten/cerebrl artr
92036	[x]occlusion and stenosis of other cerebral arteries
90572	[x]occlusion and stenosis of other precerebral arteries
53745	[x]other cerebral infarction
19280	anterior cerebral artery syndrome
32447	basilar artery occlusion
8443	brain stem stroke syndrome
25615	brainstem infarction
15252	brainstem infarction nos
4240	carotid artery occlusion
39344	cereb infarct due cerebral venous thrombosis, nonpyogenic
40758	cereb infarct due unsp occlus/stenos precerebr arteries
5602	cerebellar infarction
17322	cerebellar stroke syndrome
8837	cerebral arterial occlusion
15019	cerebral embolism
34758	cerebral embolus
23671	cerebral infarct due to thrombosis of precerebral arteries
27975	cerebral infarction due to embolism of cerebral arteries
24446	cerebral infarction due to embolism of precerebral arteries
36717	cerebral infarction due to thrombosis of cerebral arteries
3149	cerebral infarction nos
16517	cerebral thrombosis
33543	cerebrl infarctn due/unspcf occlusn or sten/cerebrl artr
5363	cva - cerebral artery occlusion
40053	generalised ischaemic cerebrovascular disease nos
12555	generalised ischaemic cerebrovascular disease nos
569	infarction - cerebral
57495	infarction - precerebral
26424	infarction of basal ganglia
9985	left sided cerebral infarction
18689	middle cerebral artery syndrome
98642	multiple and bilateral precerebral arterial occlusion
57527	occlusion and stenosis of anterior cerebral artery
55602	occlusion and stenosis of cerebellar arteries
51759	occlusion and stenosis of middle cerebral artery
65770	occlusion and stenosis of posterior cerebral artery
71274	occlusion+stenosis of multiple and bilat cerebral arteries
51326	other precerebral artery occlusion
19260	posterior cerebral artery syndrome
45781	precerebral arterial occlusion
71585	precerebral artery occlusion nos

33499	pure motor lacunar syndrome
51767	pure sensory lacunar syndrome
10504	right sided cerebral infarction
6155	stroke due to cerebral arterial occlusion
4152	thrombosis, carotid artery
40847	vertebral artery occlusion
73901	[x]cerebrovascular diseases
70536	acute cerebrovascular insufficiency nos
10062	cerebrovascular disease nos
47607	cva - cerebrovascular accident in the puerperium
6116	cva - cerebrovascular accident unspecified
1298	cva unspecified
7780	left sided cva
37493	other cerebrovascular disease nos
34117	other cerebrovascular disease os
51311	other specified cerebrovascular disease
12833	right sided cva
98188	small vessel cerebrovascular disease
1469	stroke and cerebrovascular accident unspecified
56279	stroke in the puerperium
6253	stroke unspecified

Table S3 Incidence rate ratios of first myocardial infarction in risk periods after an acute exacerbation of COPD relative to stable periods sensitivity analysis censoring within six months of myocardial infarction

Risk period	N outcome events (myocardial infarction)	IRR (95% CI)
Total risk period (91 days)	695	1.53 (1.38-1.68)
1-3 days	73	2.68 (2.11-3.41)
4-7 days	66	1.91 (1.48-2.45)
8-14 days	121	2.11 (1.74-2.56)
15-28 days	172	1.80 (1.52-2.12)
29-91 days	263	1.12 (0.97-1.29)

Table S4 Incidence rate ratios of first myocardial infarction in risk periods after an acute exacerbation of COPD relative to stable periods sensitivity analysis censoring within 12 months of myocardial infarction

Risk period	N outcome events (myocardial infarction)	IRR (95% CI)
Total risk period (91 days)	586	1.49 (1.34-1.67)
1-3 days	59	2.48 (1.90-3.25)
4-7 days	56	1.85 (1.41-2.44)
8-14 days	104	2.08 (1.69-2.56)
15-28 days	138	1.67 (1.39-2.01)
29-91 days	229	1.14 (0.98-1.32)

Table S5. Incidence rate ratios of first ischaemic stroke in risk periods after an acute exacerbation of COPD relative to stable periods sensitivity analysis censoring within 6 months of ischemic stroke

Risk period	N outcome events (myocardial infarction)	IRR (95% CI)
Total risk period (91 days)	804	1. (1.-1.)
1-3 days	47	1.54 (1.15-2.07)
4-7 days	70	1.79 (1.40-2.28)
8-14 days	119	1.80 (1.40-2.28)
15-28 days	185	1.65 (1.41-1.93)
29-91 days	383	1.35 (1.20-1.52)

Table S6. Incidence rate ratios of first ischaemic stroke in risk periods after an acute exacerbation of COPD relative to stable periods sensitivity analysis censoring within 12 months of ischemic stroke

Risk period	N outcome events (myocardial infarction)	IRR (95% CI)
Total risk period (91 days)	749	1.52 (1.38-1.68)
1-3 days	43	1.53 (1.13-2.08)
4-7 days	61	1.69 (1.31-2.20)
8-14 days	112	1.84 (1.51-2.24)
15-28 days	170	1.64 (1.39-1.94)
29-91 days	363	1.39 (1.24-1.57)