

**Table S4.** Baseline characteristics and prior healthcare service use of matched treatment and control cohorts, stratified by sex.

	Female			Male		
	Treatment cohort (n=5,257)	Control cohort (n=5,257)	SMD	Treatment cohort (n=4,694)	Control cohort (n=4,694)	SMD
<b>Sociodemographic characteristics</b>						
Age, mean $\pm$ SD	48.74 $\pm$ 14.30	48.77 $\pm$ 14.32	0.00	49.20 $\pm$ 14.03	49.22 $\pm$ 14.00	0.00
Education quintile						
Missing	276 (5.3)	274 (5.2)	0.00	280 (6.0)	267 (5.7)	0.01
Q1 (lowest)	343 (6.5)	348 (6.6)	0.00	347 (7.4)	313 (6.7)	0.03
Q2	797 (15.2)	767 (14.6)	0.02	688 (14.7)	694 (14.8)	0.00
Q3	1,034 (19.7)	1,048 (19.9)	0.01	955 (20.3)	929 (19.8)	0.01
Q4	1,340 (25.5)	1,346 (25.6)	0.00	1,183 (25.2)	1,202 (25.6)	0.01
Q5 (highest)	1,467 (27.9)	1,474 (28.0)	0.00	1,241 (26.4)	1,289 (27.5)	0.02
Employment quintile						
Missing	276 (5.3)	274 (5.2)	0.00	280 (6.0)	267 (5.7)	0.01
Q1 (lowest)	1,167 (22.2)	1,180 (22.4)	0.01	1,029 (21.9)	1,054 (22.5)	0.01
Q2	1,072 (20.4)	986 (18.8)	0.04	941 (20.0)	890 (19.0)	0.03
Q3	901 (17.1)	1,015 (19.3)	0.06	886 (18.9)	900 (19.2)	0.01
Q4	948 (18.0)	947 (18.0)	0.00	797 (17.0)	799 (17.0)	0.00
Q5 (highest)	893 (17.0)	855 (16.3)	0.02	761 (16.2)	784 (16.7)	0.01
Rurality + neighbourhood income quintile						
Missing	11 (0.2)	13 (0.2)	0.01	8 (0.2)	6 (0.1)	0.01
Rural	1,219 (23.2)	1,238 (23.5)	0.01	1,162 (24.8)	1,145 (24.4)	0.01
Urban Q1 (lowest)	1,161 (22.1)	1,152 (21.9)	0.00	1,035 (22.0)	1,014 (21.6)	0.01
Urban Q2	889 (16.9)	881 (16.8)	0.00	690 (14.7)	716 (15.3)	0.02
Urban Q3	757 (14.4)	787 (15.0)	0.02	674 (14.4)	690 (14.7)	0.01
Urban Q4	707 (13.4)	678 (12.9)	0.02	629 (13.4)	643 (13.7)	0.01
Urban Q5 (highest)	513 (9.8)	508 (9.7)	0.00	496 (10.6)	480 (10.2)	0.01
Migrant status						
Immigrant <sup>a</sup>	106 (2.0)	106 (2.0)	0.00	156 (3.3)	161 (3.4)	0.01
Non-immigrant	5,151 (98.0)	5,151 (98.0)	0.00	4,538 (96.7)	4,533 (96.6)	0.01
<b>Smoking characteristics</b>						
Frequency of smoking						
Daily	5,152 (98.0)	4,794 (91.2)	0.30	4,593 (97.8)	4,339 (92.4)	0.25
Occasional	105 (2.0)	463 (8.8)	0.30	101 (2.2)	355 (7.6)	0.25
Cigarettes per day, mean $\pm$ SD	16.44 $\pm$ 8.99	15.78 $\pm$ 8.63	0.08	19.35 $\pm$ 10.36	19.55 $\pm$ 10.14	0.02
Age first tried smoking, mean $\pm$ SD	15.98 $\pm$ 4.84	16.00 $\pm$ 4.84	0.00	15.64 $\pm$ 4.76	15.35 $\pm$ 4.45	0.06

Duration smoking (years), mean $\pm$ SD	32.75 $\pm$ 14.09	32.77 $\pm$ 13.90	0.00	33.57 $\pm$ 14.76	33.87 $\pm$ 14.51	0.02
<b>Health comorbidities</b>						
Prevalent comorbidities						
COPD	1,654 (31.5)	1,118 (21.3)	0.23	1,331 (28.4)	900 (19.2)	0.22
Hypertension	1,437 (27.3)	1,439 (27.4)	0.00	1,426 (30.4)	1,255 (26.7)	0.08
Diabetes	715 (13.6)	579 (11.0)	0.08	800 (17.0)	567 (12.1)	0.14
Asthma	1,266 (24.1)	988 (18.8)	0.13	616 (13.1)	486 (10.4)	0.09
Cancer	230 (4.4)	210 (4.0)	0.02	218 (4.6)	190 (4.0)	0.03
Myocardial infarction	98 (1.9)	69 (1.3)	0.04	234 (5.0)	179 (3.8)	0.06
Congestive heart failure	108 (2.1)	96 (1.8)	0.02	127 (2.7)	97 (2.1)	0.04
No. ADG comorbidities, mean $\pm$ SD	6.33 $\pm$ 3.46	6.26 $\pm$ 3.61	0.02	5.30 $\pm$ 3.32	4.54 $\pm$ 3.43	0.23
0-5	2,371 (45.1)	2,203 (41.9)	0.06	2,778 (59.2)	2,974 (63.4)	0.09
6-9	1,937 (36.8)	2,076 (39.5)	0.05	1,377 (29.3)	1,279 (27.2)	0.05
10+	949 (18.1)	978 (18.6)	0.01	539 (11.5)	441 (9.4)	0.07
<b>Rate of healthcare service use ppy<sup>b</sup></b>						
Outpatient visits (mean $\pm$ SD)	7.16 $\pm$ 8.62	7.15 $\pm$ 7.87	0.00	6.01 $\pm$ 8.58	5.05 $\pm$ 7.23	0.12
ED visits (mean $\pm$ SD)	0.94 $\pm$ 1.46	0.91 $\pm$ 1.55	0.02	0.84 $\pm$ 1.32	0.75 $\pm$ 1.43	0.07
Hospitalizations (mean $\pm$ SD)	0.13 $\pm$ 0.37	0.14 $\pm$ 0.39	0.02	0.13 $\pm$ 0.38	0.11 $\pm$ 0.35	0.06

Note. Number (%) are reported unless otherwise noted. Abbreviations: ADG = Aggregated Diagnostic Groups; COPD = chronic obstructive pulmonary disease; SD = standard deviation; ppy = per person year; ED = emergency department; Q = quintile; IQR = interquartile range; SMD = standardized mean difference.

<sup>a</sup> Includes immigrants and refugees.

<sup>b</sup> During 2 year period up to index date.