

Table S3. Baseline characteristics and prior healthcare service use of potential treatment and control cohorts (unmatched), stratified by sex.

| | Female | | | Male | | |
|------------------------------------------|--------------------------------------|------------------------------------|------|--------------------------------------|------------------------------------|------|
| | Potential treatment cohort (n=7,144) | Potential control cohort (n=9,495) | SMD | Potential treatment cohort (n=5,821) | Potential control cohort (n=9,765) | SMD |
| Sociodemographic characteristics | | | | | | |
| Age, mean \pm SD | 48.79 \pm 13.50 | 46.54 \pm 17.20 | 0.15 | 49.95 \pm 13.61 | 44.19 \pm 16.13 | 0.39 |
| Education quintile | | | | | | |
| Missing | 371 (5.2) | 586 (6.2) | 0.04 | 327 (5.6) | 671 (6.9) | 0.05 |
| Q1 (lowest) | 408 (5.7) | 812 (8.6) | 0.11 | 388 (6.7) | 883 (9.0) | 0.09 |
| Q2 | 1,057 (14.8) | 1,419 (14.9) | 0.00 | 873 (15.0) | 1,532 (15.7) | 0.02 |
| Q3 | 1,366 (19.1) | 1,948 (20.5) | 0.04 | 1,162 (20.0) | 2,014 (20.6) | 0.02 |
| Q4 | 1,812 (25.4) | 2,340 (24.6) | 0.02 | 1,473 (25.3) | 2,400 (24.6) | 0.02 |
| Q5 (highest) | 2,130 (29.8) | 2,390 (25.2) | 0.1 | 1,598 (27.5) | 2,265 (23.2) | 0.10 |
| Employment quintile | | | | | | |
| Missing | 371 (5.2) | 586 (6.2) | 0.04 | 327 (5.6) | 671 (6.9) | 0.05 |
| Q1 (lowest) | 1,616 (22.6) | 2,031 (21.4) | 0.03 | 1,319 (22.7) | 2,027 (20.8) | 0.05 |
| Q2 | 1,461 (20.5) | 1,761 (18.5) | 0.05 | 1,156 (19.9) | 1,822 (18.7) | 0.03 |
| Q3 | 1,234 (17.3) | 1,797 (18.9) | 0.04 | 1,068 (18.3) | 1,877 (19.2) | 0.02 |
| Q4 | 1,253 (17.5) | 1,725 (18.2) | 0.02 | 998 (17.1) | 1,719 (17.6) | 0.01 |
| Q5 (highest) | 1,209 (16.9) | 1,595 (16.8) | 0.00 | 953 (16.4) | 1,649 (16.9) | 0.01 |
| Rurality + neighbourhood income quintile | | | | | | |
| Missing | 18 (0.3) | 24 (0.3) | 0.00 | 10 (0.2) | 27 (0.3) | 0.02 |
| Rural | 2,073 (29.0) | 1,616 (17.0) | 0.29 | 1,711 (29.4) | 1,653 (16.9) | 0.30 |

| | | | | | | |
|-----------------------------------------|-------------------|-------------------|------|-------------------|-------------------|------|
| Urban Q1 (lowest) | 1,563 (21.9) | 2,042 (21.5) | 0.01 | 1,246 (21.4) | 2,043 (20.9) | 0.01 |
| Urban Q2 | 1,100 (15.4) | 1,742 (18.3) | 0.08 | 816 (14.0) | 1,705 (17.5) | 0.09 |
| Urban Q3 | 940 (13.2) | 1,518 (16.0) | 0.08 | 762 (13.1) | 1,545 (15.8) | 0.08 |
| Urban Q4 | 843 (11.8) | 1,419 (14.9) | 0.09 | 709 (12.2) | 1,531 (15.7) | 0.10 |
| Urban Q5 (highest) | 607 (8.5) | 1,134 (11.9) | 0.11 | 567 (9.7) | 1,261 (12.9) | 0.10 |
| Migrant status | | | | | | |
| Immigrant ^a | 126 (1.8) | 283 (3.0) | 0.08 | 173 (3.0) | 514 (5.3) | 0.12 |
| Non-immigrant | 7,018 (98.2) | 9,212 (97.0) | 0.08 | 5,648 (97.0) | 9,251 (94.7) | 0.12 |
| Smoking characteristics | | | | | | |
| Frequency of smoking | | | | | | |
| Daily | 7,029 (98.4) | 7,604 (80.1) | 0.62 | 5,712 (98.1) | 7,780 (79.7) | 0.61 |
| Occasional | 115 (1.6) | 1,891 (19.9) | 0.62 | 109 (1.9) | 1,985 (20.3) | 0.61 |
| Cigarettes per day, mean \pm SD | 19.20 \pm 10.70 | 11.94 \pm 8.48 | 0.75 | 21.95 \pm 12.31 | 14.36 \pm 10.06 | 0.67 |
| Age first tried smoking, mean \pm SD | 16.02 \pm 5.33 | 16.16 \pm 4.69 | 0.03 | 15.69 \pm 5.25 | 15.52 \pm 4.14 | 0.04 |
| Duration smoking (years), mean \pm SD | 32.78 \pm 13.52 | 30.32 \pm 16.40 | 0.16 | 34.25 \pm 14.47 | 28.64 \pm 16.50 | 0.36 |
| Health comorbidities | | | | | | |
| Prevalent comorbidities | | | | | | |
| COPD | 2,407 (33.7) | 1,655 (17.4) | 0.38 | 1,799 (30.9) | 1,303 (13.3) | 0.43 |
| Hypertension | 2,011 (28.1) | 2,290 (24.1) | 0.09 | 1,891 (32.5) | 1,996 (20.4) | 0.28 |
| Diabetes | 1,107 (15.5) | 834 (8.8) | 0.21 | 1,111 (19.1) | 840 (8.6) | 0.31 |
| Asthma | 1,845 (25.8) | 1,634 (17.2) | 0.21 | 798 (13.7) | 1,074 (11.0) | 0.08 |
| Cancer | 316 (4.4) | 370 (3.9) | 0.03 | 302 (5.2) | 297 (3.0) | 0.11 |
| Myocardial infarction | 152 (2.1) | 130 (1.4) | 0.06 | 318 (5.5) | 260 (2.7) | 0.14 |
| Congestive heart failure | 159 (2.2) | 172 (1.8) | 0.03 | 197 (3.4) | 152 (1.6) | 0.12 |

| | | | | | | |
|-------------------------------------------------------|-----------------|-----------------|------|-----------------|-----------------|------|
| No. ADG comorbidities, mean \pm SD | 6.83 \pm 3.57 | 5.58 \pm 3.44 | 0.36 | 5.71 \pm 3.50 | 3.84 \pm 3.11 | 0.57 |
| 0-5 | 2,729 (38.2) | 5,033 (53.0) | 0.30 | 3,092 (53.1) | 7,252 (74.3) | 0.45 |
| 6-9 | 2,827 (39.6) | 3,173 (33.4) | 0.13 | 1,886 (32.4) | 1,929 (19.8) | 0.29 |
| 10+ | 1,588 (22.2) | 1,289 (13.6) | 0.23 | 843 (14.5) | 584 (6.0) | 0.28 |
| Rate of healthcare service use ppy^b | | | | | | |
| Outpatient visits (mean \pm SD) | 7.82 \pm 9.10 | 6.27 \pm 7.14 | 0.19 | 6.49 \pm 8.89 | 4.07 \pm 6.11 | 0.32 |
| ED visits (mean \pm SD) | 1.24 \pm 2.14 | 0.71 \pm 1.35 | 0.30 | 1.09 \pm 2.21 | 0.58 \pm 1.43 | 0.27 |
| Hospitalizations (mean \pm SD) | 0.17 \pm 0.51 | 0.11 \pm 0.34 | 0.13 | 0.16 \pm 0.48 | 0.07 \pm 0.29 | 0.22 |

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

^a Includes immigrants and refugees.

^b During 2 years up to index date.