### Table S6. Multivariable regression analysis: Outpatient visits – Females

|                          | Crude model HR (95% CI) | Adjusted model HR (95% CI) | Adjusted model with interactions HR (95% CI) |
|--------------------------|-------------------------|----------------------------|---------------------------------------------|
| **Treatment cohort**     |                         |                            |                                             |
|                          | 1.18 (1.14, 1.22)       | 1.08 (1.03, 1.12)          |                                             |
| **Index year**           |                         |                            |                                             |
| 2012 Ref.                |                         |                            |                                             |
| 2011 Ref.                | 0.97 (0.93, 1.01)       | 0.99 (0.95, 1.03)          | 0.99 (0.952, 1.03)                         |
| 2010 Ref.                | 0.88 (0.84, 0.93)       | 0.93 (0.88, 0.98)          | 0.93 (0.875, 0.98)                         |
| 2009 Ref.                | 0.89 (0.84, 0.95)       | 0.91 (0.86, 0.97)          | 0.91 (0.857, 0.97)                         |
| 2008 Ref.                | 0.88 (0.83, 0.94)       | 0.89 (0.84, 0.95)          | 0.89 (0.838, 0.95)                         |
| 2007 Ref.                | 0.78 (0.73, 0.82)       | 0.84 (0.79, 0.89)          | 0.84 (0.789, 0.89)                         |
| **Rurality**a            |                         |                            |                                             |
|                         | 0.99 (0.99, 1.00)       | 1.00 (1.00, 1.00)          | 1.00 (1.00, 1.00)                          |
| **Occasional smoking**   |                         |                            |                                             |
|                          | 1.01 (1.00, 1.08)       | 0.99 (0.94, 1.04)          | 0.99 (0.94, 1.05)                          |
| **No. ADG comorbidities**|                         |                            |                                             |
| 0-5 Ref.                 |                         |                            |                                             |
| 6-9 Ref.                 | 1.57 (1.50, 1.64)       | 1.44 (1.38, 1.50)          | 1.44 (1.38, 1.50)                          |
| 10+ Ref.                 | 2.14 (2.02, 2.27)       | 1.84 (1.75, 1.94)          | 1.85 (1.75, 1.94)                          |
| **Prior outpatient visitb** |                         |                            |                                             |
|                         | 2.90 (2.57, 3.28)       | 1.88 (1.66, 2.13)          | 1.87 (1.65, 2.11)                          |
| **Prior ED visitb**      |                         |                            |                                             |
|                         | 1.25 (1.21, 1.29)       | 1.02 (0.99, 1.05)          | 1.02 (0.99, 1.05)                          |
| **Absence of prevalent comorbidities** |                         |                            |                                             |
| Diabetes                 | 0.75 (0.72, 0.79)       | 0.87 (0.84, 0.90)          | 0.87 (0.84, 0.90)                          |
| Hypertension             | 0.77 (0.75, 0.80)       | 0.89 (0.86, 0.92)          | -                                           |
| COPD                     | 0.75 (0.73, 0.78)       | 0.91 (0.88, 0.94)          | -                                           |
| Cancer                   | 0.83 (0.78, 0.88)       | 0.96 (0.91, 1.02)          | 0.96 (0.91, 1.02)                          |
| Asthma                   | 0.77 (0.74, 0.80)       | 0.91 (0.89, 0.95)          | 0.91 (0.89, 0.94)                          |
| Congestive heart failure | 0.74 (0.69, 0.80)       | 0.99 (0.93, 1.05)          | 0.99 (0.92, 1.05)                          |
| Myocardial infarction    | 0.79 (0.73, 0.85)       | 0.93 (0.87, 1.01)          | 0.93 (0.86, 1.00)                          |
| **Interactions: treatment relative to control, within each comorbidity group** |                         |                            |                                             |
| Hypertension and COPD    |                         | 1.03 (0.97, 1.09)          |                                             |
| Hypertension only        |                         | 0.99 (0.93, 1.06)          |                                             |
| COPD only                |                         | 1.04 (0.97, 1.12)          |                                             |
| Neither hypertension nor COPD |                         | 1.13 (1.07, 1.19)          |                                             |

Note. Abbreviations: ADG = Aggregated Diagnostic Groups; COPD = chronic obstructive pulmonary disease; ED = emergency department; HR = hazard ratio.

a Rurality Index of Ontario score (Kralj, 2009)
b During 2 years up to index date.