

Table S9. Multivariable regression analysis: Emergency visits – Females

| | Crude model HR (95% CI) | Adjusted model HR (95% CI) | Adjusted model with interactions HR (95% CI) |
|---|------------------------------------|---------------------------------------|---|
| Treatment cohort | 1.17 (1.11, 1.23) | 1.05 (0.98, 1.12) | - |
| Index year | | | |
| 2012 | Ref. | Ref. | Ref. |
| 2011 | 0.96 (0.90, 1.03) | 0.98 (0.92, 1.04) | 0.98 (0.93, 1.04) |
| 2010 | 0.90 (0.81, 0.99) | 0.88 (0.80, 0.97) | 0.88 (0.80, 0.97) |
| 2009 | 0.95 (0.87, 1.05) | 0.95 (0.86, 1.04) | 0.95 (0.86, 1.04) |
| 2008 | 0.88 (0.78, 0.99) | 0.88 (0.79, 0.99) | 0.88 (0.79, 0.99) |
| 2007 | 0.96 (0.87, 1.05) | 0.97 (0.87, 1.07) | 0.97 (0.87, 1.07) |
| Rurality^a | 1.01 (1.01, 1.01) | 1.01 (1.01, 1.01) | 1.01 (1.01, 1.01) |
| Occasional smoking | 1.02 (0.90, 1.16) | 1.00 (0.89, 1.11) | 1.00 (0.89, 1.11) |
| No. ADG comorbidities | | | |
| 0-5 | Ref. | Ref. | Ref. |
| 6-9 | 1.62 (1.53, 1.71) | 1.33 (1.26, 1.41) | 1.33 (1.26, 1.41) |
| 10+ | 2.63 (2.45, 2.84) | 1.90 (1.76, 2.05) | 1.90 (1.76, 2.05) |
| Prior outpatient visit^b | 1.53 (1.31, 1.78) | 0.93 (0.80, 1.08) | 0.93 (0.79, 1.08) |
| Prior ED visit^b | 2.66 (2.52, 2.81) | 1.97 (1.87, 2.08) | 1.97 (1.87, 2.08) |
| Absence of prevalent comorbidities | | | |
| Diabetes | 0.62 (0.57, 0.67) | 0.75 (0.69, 0.81) | 0.75 (0.69, 0.81) |
| Hypertension | 0.72 (0.68, 0.77) | 0.92 (0.86, 0.97) | - |
| COPD | 0.59 (0.55, 0.63) | 0.80 (0.76, 0.85) | - |
| Cancer | 0.83 (0.73, 0.95) | 1.05 (0.93, 1.19) | 1.05 (0.92, 1.19) |
| Asthma | 0.63 (0.59, 0.67) | 0.80 (0.76, 0.85) | 0.80 (0.76, 0.85) |
| Congestive heart failure | 0.47 (0.40, 0.55) | 0.80 (0.69, 0.92) | 0.80 (0.69, 0.92) |
| Myocardial infarction | 0.64 (0.53, 0.78) | 0.88 (0.73, 1.05) | 0.88 (0.73, 1.05) |
| Interactions: treatment relative to control, within each comorbidity group | | | |
| Hypertension and COPD | | | 1.01 (0.89, 1.14) |
| Hypertension only | | | 1.06 (0.93, 1.19) |
| COPD only | | | 1.01 (0.88, 1.14) |
| Neither hypertension nor COPD | | | 1.07 (0.99, 1.15) |

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.