

Table S11. Multivariable regression analysis: Hospitalizations – Overall sample

| | Crude model HR (95% CI) | Adjusted model HR (95% CI) | Adjusted model with interactions HR (95% CI) |
|---|------------------------------------|---------------------------------------|---|
| Treatment cohort | 1.21 (1.15, 1.28) | 1.09 (1.02, 1.18) | - |
| Index year | | | |
| 2012 | Ref. | Ref. | Ref. |
| 2011 | 0.93 (0.86, 0.99) | 0.97 (0.91, 1.04) | 0.97 (0.91, 1.04) |
| 2010 | 0.88 (0.79, 0.97) | 1.00 (0.89, 1.12) | 1.00 (0.90, 1.12) |
| 2009 | 0.89 (0.81, 0.98) | 0.98 (0.88, 1.09) | 0.98 (0.88, 1.09) |
| 2008 | 1.04 (0.93, 1.15) | 1.05 (0.93, 1.18) | 1.05 (0.93, 1.18) |
| 2007 | 0.77 (0.68, 0.87) | 0.88 (0.78, 1.00) | 0.89 (0.78, 1.01) |
| Male | 0.89 (0.85, 0.95) | 0.99 (0.94, 1.05) | 0.99 (0.94, 1.05) |
| Rurality^a | 1.00 (1.00, 1.00) | 1.00 (1.00, 1.00) | 1.00 (1.00, 1.00) |
| Occasional smoking | 1.12 (0.99, 1.26) | 1.08 (0.96, 1.21) | 1.08 (0.96, 1.21) |
| No. ADG comorbidities | | | |
| 0-5 | Ref. | Ref. | Ref. |
| 6-9 | 1.59 (1.50, 1.70) | 1.30 (1.22, 1.39) | 1.31 (1.22, 1.39) |
| 10+ | 2.61 (2.40, 2.84) | 1.82 (1.67, 1.98) | 1.82 (1.67, 1.98) |
| Prior outpatient visit^b | 2.06 (1.80, 2.36) | 1.23 (1.07, 1.42) | 1.23 (1.06, 1.42) |
| Prior ED visit^b | 1.86 (1.75, 1.97) | 1.40 (1.31, 1.49) | 1.40 (1.31, 1.49) |
| Absence of prevalent comorbidities | | | |
| Diabetes | 0.59 (0.55, 0.64) | 0.73 (0.68, 0.78) | 0.73 (0.68, 0.78) |
| Hypertension | 0.63 (0.58, 0.67) | 0.81 (0.75, 0.86) | - |
| COPD | 0.64 (0.60, 0.68) | 0.81 (0.77, 0.87) | - |
| Cancer | 0.68 (0.61, 0.76) | 0.82 (0.74, 0.91) | 0.82 (0.74, 0.91) |
| Asthma | 0.65 (0.60, 0.70) | 0.85 (0.80, 0.91) | 0.85 (0.80, 0.91) |
| Congestive heart failure | 0.44 (0.39, 0.50) | 0.70 (0.63, 0.78) | 0.71 (0.63, 0.79) |
| Myocardial infarction | 0.60 (0.54, 0.67) | 0.81 (0.72, 0.90) | 0.80 (0.72, 0.90) |
| Interactions: treatment relative to control, within each comorbidity group | | | |
| Hypertension and COPD | | | 0.98 (0.88, 1.10) |
| Hypertension only | | | 1.07 (0.95, 1.21) |
| COPD only | | | 1.26 (1.08, 1.47) |
| Neither hypertension nor COPD | | | 1.12 (1.02, 1.24) |

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.