

Table S8. Multivariable regression analysis: Emergency visits – Overall sample

	Crude model HR (95% CI)	Adjusted model HR (95% CI)	Adjusted model with interactions HR (95% CI)
Treatment cohort	1.20 (1.16, 1.25)	1.079 (1.027, 1.133)	-
Index year			
2012	Ref.	Ref.	Ref.
2011	0.91 (0.87, 0.96)	0.95 (0.91, 1.00)	0.95 (0.91, 1.00)
2010	0.88 (0.81, 0.94)	0.94 (0.87, 1.01)	0.94 (0.87, 1.01)
2009	0.90 (0.84, 0.97)	0.96 (0.90, 1.04)	0.96 (0.90, 1.03)
2008	0.88 (0.80, 0.98)	0.90 (0.82, 0.99)	0.90 (0.82, 0.99)
2007	1.00 (0.92, 1.08)	1.01 (0.93, 1.10)	1.01 (0.93, 1.10)
Male	0.89 (0.85, 0.92)	1.00 (0.96, 1.04)	1.00 (0.96, 1.04)
Rurality^a	1.01 (1.01, 1.01)	1.01 (1.01, 1.01)	1.01 (1.01, 1.01)
Occasional smoking	1.03 (0.94, 1.13)	0.98 (0.91, 1.07)	0.99 (0.91, 1.07)
No. ADG comorbidities			
0-5	Ref.	Ref.	Ref.
6-9	1.64 (1.54, 1.68)	1.32 (1.26, 1.37)	1.32 (1.26, 1.37)
10+	2.60 (2.44, 2.77)	1.87 (1.75, 1.99)	1.87 (1.75, 1.99)
Prior outpatient visit^b	1.63 (1.50, 1.77)	1.02 (0.94, 1.11)	1.02 (0.94, 1.11)
Prior ED visit^b	2.50 (2.39, 2.61)	1.89 (1.81, 1.97)	1.89 (1.81, 1.98)
Absence of prevalent comorbidities			
Diabetes	0.66 (0.62, 0.70)	0.79 (0.75, 0.83)	0.79 (0.75, 0.83)
Hypertension	0.72 (0.68, 0.75)	0.91 (0.87, 0.95)	-
COPD	0.61 (0.58, 0.64)	0.80 (0.76, 0.84)	-
Cancer	0.75 (0.68, 0.83)	0.94 (0.86, 1.03)	0.94 (0.86, 1.03)
Asthma	0.66 (0.62, 0.69)	0.83 (0.80, 0.87)	0.83 (0.80, 0.87)
Congestive heart failure	0.49 (0.44, 0.55)	0.76 (0.69, 0.84)	0.76 (0.69, 0.84)
Myocardial infarction	0.66 (0.60, 0.73)	0.90 (0.82, 0.99)	0.90 (0.82, 0.99)
Interactions: treatment relative to control, within each comorbidity group			
Hypertension and COPD			1.05 (0.95, 1.15)
Hypertension only			1.06 (0.96, 1.16)
COPD only			1.03 (0.93, 1.13)
Neither hypertension nor COPD			1.11 (1.05, 1.18)

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.