

#### Appendix 4 (as supplied by the authors): Predictors of unplanned index hospitalization for top most expensive 5 conditions among senior HCUs

Covariates		AIM	Fracture	Cerebral infarction	CHF	COPD
		OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)
<b>Age:</b>						
	75-84y vs. 66-74y	1.05 (0.99-1.12)	2.3 (2.11-2.49)	1.56 (1.44-1.7)	1.78 (1.62-1.94)	1.14 (1.06-1.24)
	>=85y vs. 66-74y	1.12 (1.03-1.22)	4.06 (3.72-4.44)	1.92 (1.75-2.12)	3.05 (2.76-3.37)	1.05 (0.95-1.17)
<b>Sex (M)</b>		1.53 (1.45-1.63)	0.46 (0.43-0.5)	1.13 (1.05-1.21)	1.06 (0.99-1.14)	1.11 (1.03-1.19)
<b>Low income status</b>		1.07 (0.99-1.15)	0.94 (0.87-1.02)	1.09 (1-1.2)	1.13 (1.04-1.23)	0.98 (0.9-1.07)
<b>Rurality Index for Ontario, score</b>		1 (1-1.01)	1 (1-1)	0.99 (0.99-0.99)	1 (1-1)	1 (1-1)
<b>Immigrant status</b>		1.05 (0.88-1.25)	0.96 (0.77-1.19)	1.09 (0.89-1.33)	0.92 (0.73-1.17)	0.97 (0.74-1.28)
<b>Malignancy</b>		0.68 (0.63-0.72)	0.83 (0.77-0.89)	0.68 (0.62-0.73)	0.74 (0.68-0.8)	0.76 (0.7-0.82)
<b>Hypertension</b>		1.15 (1.08-1.22)	1.03 (0.96-1.1)	1.34 (1.24-1.44)	1.19 (1.1-1.28)	0.87 (0.81-0.94)
<b>Congestive heart failure (CHF)</b>		1.16 (1.06-1.26)	1.02 (0.93-1.12)	1.29 (1.16-1.42)	5.16 (4.78-5.56)	1.48 (1.36-1.62)
<b>History of myocardial infarction</b>		2.33 (2.13-2.55)	1.18 (1.04-1.35)	1.39 (1.23-1.58)	1.45 (1.31-1.61)	1.04 (0.92-1.18)
<b>Chronic Obstructive Pulmonary Disease (COPD)</b>		1.03 (0.96-1.1)	1.16 (1.08-1.24)	1 (0.92-1.09)	1.07 (0.99-1.16)	14.03 (12.8-15.37)
<b>Diabetes</b>		1 (0.94-1.07)	0.79 (0.74-0.85)	0.99 (0.91-1.07)	1.26 (1.17-1.35)	0.6 (0.55-0.65)
<b>Rheumatoid arthritis</b>		1.04 (0.87-1.24)	1.56 (1.33-1.83)	1.01 (0.82-1.26)	1.04 (0.85-1.28)	1.04 (0.86-1.26)
<b>Mental health condition</b>		0.86 (0.81-0.92)	1.03 (0.96-1.1)	0.92 (0.85-0.99)	0.84 (0.78-0.9)	0.95 (0.88-1.02)
<b>LTC residence</b>		0.15 (0.06-0.38)	0.4 (0.28-0.59)	0.27 (0.13-0.56)	0.29 (0.16-0.53)	0.23 (0.11-0.48)
<b>Primary care enrollment</b>						
	FFS vs. no provider	0.94 (0.79-1.13)	0.88 (0.72-1.06)	0.67 (0.55-0.81)	0.68 (0.54-0.86)	0.71 (0.55-0.92)
	Capitation vs. no provider	0.86 (0.73-1.01)	0.74 (0.62-0.88)	0.56 (0.47-0.67)	0.55 (0.45-0.68)	0.77 (0.61-0.97)
	Enhanced FFS vs. no provider	0.87 (0.74-1.03)	0.72 (0.6-0.86)	0.56 (0.47-0.67)	0.55 (0.45-0.69)	0.75 (0.59-0.95)
	FHT vs. no provider	0.84 (0.71-0.99)	0.77 (0.64-0.91)	0.56 (0.47-0.67)	0.62 (0.5-0.76)	0.77 (0.61-0.97)
	Other forms of primary care vs. no provider	1.01 (0.75-1.36)	0.82 (0.58-1.14)	0.67 (0.46-0.97)	0.53 (0.34-0.8)	1.07 (0.74-1.56)
<b>Prescription drugs</b>		0.97 (0.96-0.97)	0.95 (0.94-0.96)	0.94 (0.93-0.95)	1.01 (1-1.01)	1.05 (1.05-1.06)
<b>Emergency department visits</b>		1.05 (1.02-1.08)	1.02 (0.99-1.05)	1.01 (0.97-1.05)	0.99 (0.95-1.02)	1.07 (1.04-1.1)
<b>Visits to general practitioner</b>		0.99 (0.98-0.99)	1 (0.99-1.01)	1 (0.99-1)	1 (0.99-1)	0.98 (0.97-0.98)
<b>Visits to specialist</b>		0.92 (0.91-0.93)	0.93 (0.92-0.93)	0.93 (0.93-0.94)	0.95 (0.95-0.96)	0.94 (0.93-0.95)
<b>Visit to a geriatrician</b>		0.60 (0.48-0.75)	0.89 (0.76-1.05)	0.75 (0.6-0.93)	0.61 (0.49-0.75)	0.63 (0.49-0.81)
<b>Homecare visits</b>						
	nursing	0.99 (0.98-1)	0.99 (0.98-1)	0.99 (0.98-1)	0.99 (0.99-1)	0.99 (0.99-1)
	personal support	0.99 (0.99-1)	0.99 (0.99-1)	1 (0.99-1)	0.99 (0.99-1)	1 (0.99-1)
	allied health	0.96 (0.92-1)	0.99 (0.96-1.02)	0.97 (0.93-1.02)	1 (0.97-1.04)	1 (0.96-1.04)
	social	0.82 (0.79-0.84)	0.92 (0.91-0.94)	0.85 (0.83-0.88)	0.92 (0.9-0.94)	0.91 (0.89-0.93)
<b>C-statistics</b>		0.73	0.75	0.71	0.78	0.85
<b>C-statistics (cross-validated)</b>		0.73	0.75	0.71	0.78	0.85