

**Appendix 9 (as supplied by the authors): Model output for the Cox model for emergency hospital admission**

	37 conditions		20 conditions	
	HR (95% CI)	p-value	HR (95% CI)	p-value
Epilepsy	2.05 (1.88-2.24)	<0.001	2.17 (1.99-2.37)	<0.001
Alcohol problems	1.86 (1.72-2.02)	<0.001	2.14 (1.99-2.31)	<0.001
Cancer	1.86 (1.75-1.97)	<0.001	1.87 (1.77-1.98)	<0.001
COPD	1.78 (1.69-1.87)	<0.001	1.84 (1.74-1.94)	<0.001
Psychosis/ bipolar disorder	1.63 (1.49-1.79)	<0.001	1.73 (1.57-1.89)	<0.001
Painful condition	1.65 (1.60-1.71)	<0.001	1.69 (1.63-1.75)	<0.001
Dementia	1.54 (1.43-1.65)	<0.001	1.53 (1.43-1.64)	<0.001
Atrial fibrillation	1.52 (1.44-1.60)	<0.001	1.51 (1.44-1.59)	<0.001
Anxiety/Depression	1.45 (1.40-1.50)	<0.001	1.49 (1.43-1.54)	<0.001
Diabetes	1.43 (1.37-1.49)	<0.001	1.45 (1.39-1.51)	<0.001
Stroke & TIA	1.40 (1.34-1.48)	<0.001	1.42 (1.35-1.50)	<0.001
Coronary heart disease	1.38 (1.32-1.44)	<0.001	1.40 (1.34-1.46)	<0.001
Constipation	1.27 (1.21-1.33)	<0.001	1.31 (1.25-1.38)	<0.001
Chronic kidney disease	1.24 (1.19-1.30)	<0.001	1.25 (1.19-1.31)	<0.001
Asthma	1.23 (1.17-1.28)	<0.001	1.24 (1.19-1.30)	<0.001
Heart failure	1.22 (1.13-1.31)	<0.001	1.23 (1.14-1.32)	<0.001
Connective tissue disorders	1.19 (1.11-1.26)	<0.001	1.20 (1.12-1.27)	<0.001
Irritable bowel syndrome	1.09 (1.04-1.15)	<0.001	1.11 (1.05-1.16)	<0.001
Hypertension	1.09 (1.05-1.12)	<0.001	1.08 (1.04-1.12)	<0.001
Hearing loss	1.06 (1.02-1.10)	0.001	1.07 (1.04-1.11)	<0.001
Multiple sclerosis	2.07 (1.75-2.45)	<0.001		
Chronic Liver Disease	1.76 (1.55-1.99)	<0.001		
Learning disability	1.75 (1.49-2.04)	<0.001		
Substance misuse	1.69 (1.53-1.86)	<0.001		
Inflammatory bowel disease	1.58 (1.42-1.76)	<0.001		
Bronchiectasis	1.50 (1.33-1.69)	<0.001		
Parkinson's disease	1.50 (1.30-1.72)	<0.001		
Anorexia or bulimia	1.45 (1.25-1.69)	<0.001		
Peripheral vascular disease	1.24 (1.15-1.35)	<0.001		
Psoriasis or eczema	1.18 (1.08-1.30)	<0.001		
Blindness and low vision	1.12 (1.03-1.21)	0.007		
Peptic ulcer disease	1.11 (1.03-1.20)	0.005		
Migraine	1.07 (0.88-1.29)	0.514		
Chronic sinusitis	1.06 (0.98-1.13)	0.147		
Diverticular disease	1.05 (1.00-1.11)	0.064		
Prostate disorders	1.03 (0.97-1.10)	0.296		
Thyroid disorders	1.01 (0.96-1.06)	0.700		
Male	1.02 (0.98-1.05)	0.332	1.03 (1.00-1.06)	0.079
Age at index date (10 yrs)	1.27 (1.21-1.33)	<0.001	1.27 (1.21-1.33)	<0.001
Age 21/30	2.21 (1.90-2.56)	<0.001	2.17 (1.87-2.52)	<0.001
Age 31/40	1.51 (1.36-1.68)	<0.001	1.51 (1.35-1.68)	<0.001

Appendix to: Payne RA, Mendonca SC, Elliott MN, et al. Development and validation of the Cambridge Multimorbidity Score. *CMAJ* 2020. DOI:10.1503/cmaj.190757. Copyright © 2020 The Author(s) or their employer(s).

Age 41/50	1.12 (1.05-1.21)	0.001	1.12 (1.05-1.21)	0.001
Age 61/70	0.93 (0.86-0.99)	0.032	0.93 (0.87-1.00)	0.059
Age 71/80	1.08 (0.97-1.20)	0.158	1.10 (0.99-1.22)	0.078
Age 81/max	1.51 (1.30-1.74)	<0.001	1.53 (1.32-1.78)	<0.001

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