

Supplementary Online Content

Gomes T, Mamdani MM, Dhalla IA, Paterson JM, Juurlink DN. Opioid dose and drug-related mortality in patients with nonmalignant pain. *Arch Internmed*. 2011;171(7):686-691.

eTable. Components of Disease Risk Score Used to Match Cases to Controls on Past Comorbidities

This supplementary material has been provided by the authors to give readers additional information about their work.

Appendix 1: Components of Disease Risk Score used to Match Cases to Controls on past comorbidities

Variable	ICD9 Diagnosis Code	ICD10 Diagnosis Code	OHIP Diagnosis Code
<i>Demographic Characteristics (measured on index date)</i>			
Age			
Gender			
Estimated residential income quintile	Neighbourhood Income Quintile based on location of residence on index date		
Residence in a long-term care facility	Based on Long-Term Care flag on most recent Ontario Drug Database prescription in past 1 year		
Rurality of Principal Residence	Rural community defined as community with <=10,000 residents		
<i>Medical disorders (measured by presence in 3 years prior to index date)</i>			
Acute myocardial infarction	410	I21	410, 413
Alcohol abuse	V113, 291, 303.0, 303.9, 305.0, 357.5, 425.5, 535.3, 571.0, 571.1, 571.3, 790.3, 980.0	F10, G31.2, G62.1, G72.1, I42.6, I70.0, K29.2, K70.1, K70.4, K70.9, K86.0, R78.0, T51.0, X65, Y15, Y91, Z50.1, Z71.4, Z86.40	291, 303
Atherosclerotic disease	414.0, 440	I251, I70	440
Chronic lung disease	490.0, 491, 492.0, 494.0, 496.0	J40-J44, J47	491, 492, 494, 496
Dementia	290, 331.0, 331.1, 331.2, 797	F00, F01, F02.0, F02.1, F03, F05.1, G30, G31.0, G31.1, R54	290, 331, 797
Diabetes mellitus	Defined as diagnosis date in Ontario Diabetes Database that precedes the index date		
Dyslipidemia	272.0-272.6, 272.9	E78.0-E78.6, E78.9, E88.1, H02.6	272
Gastrointestinal hemorrhage	531.0, 531.2, 531.4, 531.6, 532.0, 532.2, 532.4, 532.6, 533.0, 533.2, 533.4, 533.6, 534.0, 534.2, 534.4, 534.6, 578.0, 578.1, 578.9	K25.0, K25.2, K25.4, K25.6, K26.0, K26.2, K26.4, K26.6, K27.0, K27.2, K27.4, K27.6, K28.0, K28.2, K28.4, K28.6, K92.0, K92.1, K92.2	
Glaucoma	365	H40, H42	365
Gout	274	M10	274
Heart failure	428	I50	428
Hypothyroidism	244.1, 244.3, 244.8, 244.9	E01.8, E02, E03.2, E03.3, E03.5, E03.8, E03.9, E89.0	244
Injury other than poisoning	8XX, 90-95	S* T00-T35	
Osteoarthritis	715	M15.0-M15.2, M15.4, M16-M19, M89.41-M89.43, M89.45-M89.46, M89.48	715
Other coronary heart disease	411.0, 412.0, 413.0, 414.0, 414.8, 414.9	I20, I24.0, I24.8, I24.9, I25.1, I25.2, I25.5, I25.6, I25.8, I25.9	412
Parkinson's disease	332.0-332.1	G20, G21.1, G21.2, G21.3,	332

		G21.8, G21.9, G22	
Pneumonia	480-486	J10-J18	486
Poisoning or drug toxicity	96-98	T36-T65	977
Rheumatoid arthritis	714.0-714.4, 714.8	M05, M06, M08.0, M08.2-M08.4, M08.8, M08.9, M09, M12.0	714
Seizure disorder	780.3, 345	R56.0, R56.8, G40, G41	345
Sepsis	038	A40, A41	
Stroke	430-438	I60, I61, I62, I63, I64, G45	432-436
Urinary incontinence	788.3	N39.3, N39.4, R32	
Psychiatric disorders (measured by presence in 3 years prior to index date)			
Affective disorder	296	F30, F31, F32.2, F32.3, F32.8, F33, F34.8, F34.9, F38, F39	296
Anxiety or sleep disorders	300	F32.0, F34.1, F40-F42, F44, F45.0-F45.2, F48, F68.0, F99	300
Psychoses, agitation, and related disorders	292, 293.0, 293.8, 294, 295, 297.1, 297.3, 297.8, 297.9, 299	F02.2-F02.4, F02.8, F04, F05.0, F05.8, F05.9, F06.0-F06.6, F06.8, F06.9, F09, F11.0, F11.3-F11.9, F12.0, F12.3-F12.9, F13.0, F13.3-F13.9, F14.0, F14.3-F14.9, F15.0, F15.3-F15.9, F16.0, F16.3-F16.9, F17.0, F17.3-F17.9, F18.0, F18.3-F18.9, F19.0, F19.3-F19.9, F20-F22, F23.2, F24, F25, F53.1, F84	295, 297
All other mental disorders	301, 302.2-302.9, 304.0-304.6, 304.9, 305.1-305.7, 305.9, 306.4, 306.5, 306.8, 306.9, 307, 308.3, 308.9, 309.0, 309.2, 309.8, 310.1, 310.2, 310.8, 310.9, 311.0, 312.0-312.3, 312.8, 312.9, 313.0, 313.2, 313.3, 313.8, 313.9, 314.0, 314.2, 314.8, 314.9, 315, 316.0	F06.7, F07, F11.1, F11.2, F12.1, F12.2, F13.1, F13.2, F14.1, F14.2, F15.1, F15.2, F16.1, F16.2, F17.1, F17.2, F18.1, F18.2, F19.1, F19.2, F32.9, F43, F45.3, F45.4, F45.8, F45.9, F50, F51, F52, F53.0, F54-F59, F60-F66, F68.1, F68.8, F69, F80-F83, F88-F95, F98, G44.2	301, 302, 304, 305, 306-316
Other Variables			
Suicide attempt in 3 years prior to index date	95.0-95.9	X60-X84	
Number of visits to a physician in the past 1 year prior to index date	Count only one Ontario Health Insurance Plan claim per person per physician per day.		
Care by a psychiatrist in 1 year prior to index date	Main Specialty in ICES Physician Database = "PSYCHIATRY"		
Days in hospital during 1 year prior to index date	Defined as sum of total length of stay of all hospitalizations discharged in prior year		