Chronic Condition	Diagnostic Code
Dementia	OHIP DXCODE: 290, 331, 797; OR
[Previous 5 years in	
DAD, OHIP, and	CIHI ICD-9: 290.0, 290.1, 290.3, 290.4, 290.8, 290.9, 294.1, 294.8,
previous 1 year ODB]	294.9, 331.0, 331.1, 331.2, 797;
provious r jour obb]	OR
	CIHI ICD-10: F00.0, F00.1, F00.2, F00.9, F01.0, F01.1, F01.2, F01.3, F01.8, F01.9, F02.0, F02.1, F02.2, F02.3, F02.4, F02.8, F03, F05.1, F06.5, F06.6, F06.8, F06.9, F09, G30.0, G30.1, G30.8, G30.9, G31.0, G31.1, R54; OR
	ODB: A cholinesterase inhibitor (donepezil, galantamine, or
	rivastigmine) in the past 1 year
	DIN: 02232043, 02232044, 02269457, 02269465, 02244298,
	02244299, 02244300, 02244302, 02266717, 02266725
Anxiety and/or	One or more hospitalizations with a diagnosis for depressive disorder,
Depression	affective psychoses, neurotic depression or adjustment reaction: ICD-
[Previous 5 years in	10-CA codes F31, F32, F33, F341, F38.0, F38.1, F41.2, F43.1, F43.2,
DAD, OHIP, ODB	F43.8, F53.0, F93.0 or with a diagnosis for an anxiety state, phobic
and OMHRS]	disorders or obsessive-compulsive disorders: ICD-10-CA codes F40,
	F41.0, F41.1, F41.3, F41.8, F41.9, F42, F45.2
	OR
	One or more hospitalizations with a diagnosis for anxiety disorders:
	ICD-10-CA codes F32, F341, F40, F41, F42, F44, F45.0, F45.1,
	F45.2, F48, F68.0, or F99 AND one or more prescriptions for an antidepressant or mood stabilizer: ATC codes N05AN01, N05BA,
	N06A
	OR
	One or more physician visits with a diagnosis for depressive disorder
	or affective psychoses: ICD-9-CM codes 296, 311
	OR
	One or more physician visits with a diagnosis for anxiety disorders:
	ICD-9-CM code 300 AND one or more prescriptions for an
	antidepressant or mood stabilizer: ATC codes N05AN01, N05BA,
	N06A
	OR
	Three or more physician visits with a diagnosis for anxiety disorders
	or adjustment reaction: ICD-9-CM code 300, 309
	OMHRS: Section Q, item 1Mood/anxiety = yes if f or $g = 1, 2, or 3$
	on discharge assessment
	OR
	Substance abuse/ addictions:

Appendix 1: Diagnostic Definitions for Index Condition (Dementia) and Co-morbid Conditions

Chronic Condition	Diagnostic Code
	OMHRS Section Q, item 1 Mood/anxiety = yes if d= 1,2 or 3
Arthritis [Previous 5 years in DAD, NACRS,	OHIP: 274, 446, 710, 711, 714, 715, 716, 718, 720, 727, 728, 729, 739
OHIP]	ICD-10: M05-M06, M15-M19, M07, M10, M11-M14, M30-36, M00-M03, M20-M25, M65-M79
Inflammatory Bowel Disease [Previous 5 years in DAD, NACRS and	ICD10: K500, K501, K508-K515, K518, K519, M074, M075, M091, M092, K52 OHIP 555, 556, 564
OHIP] Cancer [Since 1964]	Inclusion in Ontario Cancer Registry (OCR)
Chronic obstructive pulmonary disease [Previous 5 years]	From CIHI-DAD or CIHI-SDS, one of the following:
	ICD-9: 491, 492, 496 ICD-10: J41, J42, J43, J44 OR
	From OHIP, one of the following: Diagnostic code: 491, 492, 496
Congestive heart failure [Previous 5 years]	From CIHI-DAD, one of the following: ICD-9: 428 ICD-10 I50 OR From OHIP, 2 of the following within a one-year period: Diagnostic code: 428
Diabetes [Previous 5 years]	Ontario Diabetes Database, based on the following: From CIHI-DAD or CIHI-SDS, one of the following: ICD-9: 250 ICD-10: E10, E11, E13, E14 OR From OHIP, 2 diagnostic codes within 2 years or 1 fee code: Diagnostic code: 250 Fee code: Q040, K029, K045, K046
Upper Gastrointestinal Bleed [Previous 5 years in DAD]	ICD-10: 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
Hypertension [Previous 5 years]	Ontario Hypertension Database: case-definition algorithm of 2 physician billing claims or 1 hospital discharge with a diagnosis of hypertension in a 2-year period that had the following diagnostic

Chronic Condition	Diagnostic Code
	codes: I10.x, I11.x, I12.x, I13.x, or I15.x
Ischemic Heart	ICD-10: I20-I25
Disease	CCP: 4802, 4803, 4809, 481
[Previous 5 years in DAD and OHIP]	CCI: 1IJ50, 1IJ57GQxx, , 1IJ76
	Or having two physician billings within a one-year period with one of the billings by a specialist or a family physician in a hospital or emergency room setting) or a hospital discharge abstract.
	OHIP: 410, 412, 413, R742, R743, Z434, G298
Liver disease [Previous 5 years in	Mild: ICD-10 codes (starting with) B18, K700-K703, K709, K713- K715, K717, K73, K74, K760, K762-K764, K768, K769, Z944
DAD and SDS]	Moderate/Severe: ICD-10 codes (starting with) I850, I859, I864, I982, K704, K711, K721, K729, K765, K766, K767
Osteoporosis/ Osteopenia [Previous 5 years in	One of hip, wrist, spine, shoulder, or pelvis fracture OR osteoporosis treatment
DAD, SDS, NACRS,	Hip Fx: S72.0, S72.1, S72.2, S72.3
and ODB]	With external code:
	W00W10, W18 or W19
	Wrist Fx: S52.x
	W00W10, W18 or W19
	Spine Fx: S22.0, S22.1, S22.2, S22.3, S22.4, S32.0, S32.2, T08.xx
	W00W10, W18 or W19
	Shoulder Fx: S42.2
	W00W10, W18 or W19
	Pelvis:
	\$32.1, \$32.3, \$32.4, \$32.5, \$32.7, \$32.8
	W00W10, W18 or W19
	Must contain both an external cause of injury
	code indicating fracture was due to a minor fall
	AND a diagnosis code of fracture.
	For inpatient and same day surgery records, the hip/wrist/spine/shoulder/pelvis fracture diagnosis must be the most responsible diagnosis. For ED records, the hip/wrist/spine/shoulder/pelvis fracture diagnosis must be one of the first 3 diagnoses (dx10code1 – dxcode3)
	Exclude the fracture if the record contains any diagnosis code starting

Chronic Condition	Diagnostic Code				
	with 'V' (motor vehicle accident). Exclude anyone who had a hospital diagnosis (any dxtype) of ICD-10 code: G40, G41 or cancer during the fiscal year of the fracture or during either of the two preceding				
	fiscal years				
Renal Disease [Previous 5 years in DAD and OHIP]	Any 2 codes within 90 days of one another:				
	With Chronic Dialysis: OHIP: R849, R850, G323, G325, G326, G330, G331, G860, G333, G083, G091, G085, G295, G082, G090, G092, G093, G094, G861, G862, G863, G864, G865, G866, G294, G095, G096				
	CCP: 51.95, 66.98				
	CCI: 1PZ21HQBR, 1PZ21HPD4				
	Any of following ICD10 codes or OHIP codes:				
	Without Chronic Dialysis: dx10code= E102, E112, E132,E142,I12, I13, N08, N18, N19), or OHIP DXCODE in (403, 585)				
Stroke	At least one hospitalization (DAD) for stroke – in any diagnosis field				
[Previous 5 years in	At least one hospitalization (DAD) for stroke – in any diagnosis neid				
DAD]	G45 (excl. G45.4), H34.0, H34.1, I60 (excl. I60.8), I61, I63 (excl. I63.6), I64				
Cerebrovascular	G45, G46, H340, I60-I69				
disease (not stroke)	045, 040, 11540, 100-107				
[Previous 5 years in					
DAD and SDS]					
CIHI: Canadian Institu	te for Health Information				
DAD: Discharge Abstract Database					
DXCODE: Diagnostic					
ICD-9: International Classification of Disease, version 9					
ICD-10: International Classification of Disease, version 10 ODB: Ontario Drug Benefit Plan OHIP: Ontario Health Insurance Plan OMHRS: Ontario Mental Health Reporting System					
			NACR: National Ambulatory Care Reporting System		
				ery (derived from NACRS)	