

**Appendix 2 (as supplied by the authors): Coding definitions
for demographic and comorbid conditions**

| Characteristics/Condition | Database | Codes |
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| Age | RPDB | |
| Sex | RPDB | |
| Socioeconomic Status | Statistics Canada | |
| Rural Location | Statistics Canada | |
| Long Term Care Utilization | ODB | |
| Charlson Comorbidity Index | CIHI-DAD | |
| Health Care Visits | OHIP IPDB | |
| Prescribing Physician | IPDB | |
| Pancreatectomy/Pancreas Transplant | CIHI-DAD OHIP | CCI: "10A85VCXXK", "10J85", "10J87", "10J89", "10K58", "10K85", "10K87", "10K91", "10J83" ICD10: "T8681" OHIP FEE: "S297", "S298", "S299", "S300", "S301", "S303", "S308", "S309" |
| Gallstones/Biliary stones | CIHI-DAD OHIP | ICD10: "K563", "K800", "K801", "K802", "K803", "K804", "K805" OHIP DX: "574" |
| Calcium disorder | CIHI-DAD | ICD10: "E835" |
| Alcoholism | CIHI-DAD | ICD10: "E512", "F10", "G312", "G621", "G721", "I426", "K292", "K70", "K860", "T510", "X45", "X65", "Y15", "Y573", "Z502", "Z714", "Z721" |
| Tobacco Use | CIHI-DAD OHIP | ICD10: "F17", "T652", "Z587", "Z716", "Z720", "Z8642" OHIP DX: "305" OHIP Fee: "E079", "K039", "Q041", "Q042", "Q622" |
| Pancreatic Neoplasm | CIHI-DAD OHIP | ICD10: "C250", "C251", "C252", "C253", "C254", "C257", "C258", "C259" OHIP DX: "157" |

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| ERCP | CIHI-DAD OHIP | CCI: "10E50BA", "10E50BAAG", "10E52BATS", "10E54BATS", "10J52BA", "10J52BATS", "3OG10WZ" OHIP FEE: "E662", "E668", "Z760" |
| Chronic Kidney Disease | CIHI-DAD OHIP | ICD10: "E102", "E112", "E132", "E142", "I12", "I13", "N08", "N18", "N19" OHIP DX: "403", "585" |
| Bile Duct Neoplasm | CIHI-DAD OHIP | ICD10: "C221", "C240", "C248", "C249", "C787", "D015", "D135", "D376", "81600", "81610", "81613" OHIP DX: "156" |
| HIV | CIHI-DAD OHIP | ICD10: "B20", "B21", "B22", "B23", "B24", "Z21", "C46" OHIP DX: "042", "043", "044" |
| Systemic Lupus Erythematosis | CIHI-DAD OHIP | ICD10: "L93", "M32" OHIP DX: "695" |
| Polyarteritis Nodosa | CIHI-DAD OHIP | ICD10: "M300" OHIP DX: "446" |
| Celiac Disease | CIHI-DAD OHIP | ICD10: "K900" OHIP DX: "579" |
| Obesity | CIHI-DAD OHIP | ICD10: "E660", "E661", "E662", "E668", "E669" OHIP DX: "278" |
| Charlson Comorbidity Index | CIHI-DAD | |
| Diabetic Retinopathy | CIHI-DAD | ICD10: "E1030", "E1031", "E1032", "E1033", "E1130", "E1131", "E1132", "E1133", "E1330", "E1331", "E1332", "E1333", "E1430", "E1431", "E1432", "E1433", "H360" |

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| Diabetic Neuropathy | CIHI-DAD | ICD10: "E1040", "E1041", "E1042", "E1048", "E1049", "E1440", "E1441", "E1442", "E1448", "E1140", "E1141", "E1142", "E1148", "E1340", "E1341", "E1342", "E1348", "E1349", "G590", "G632", "G990" |
| Peripheral Vascular Disease | CIHI-DAD OHIP | ICD 10: "I700", "I702", "I708", "I709", "I731", "I738", "I739", "K551" CCI: "1KA76", "1KA50", "1KE76", "1KG26", "1KG50", "1KG57", "1KG76MI", "1KG87" OHIP FEE: "R787", "R780", "R797", "R804", "R809", "R875", "R815", "R936", "R783", "R784", "R785", "E626", "R814", "R786", "R937", "R860", "R861", "R855", "R856", "R933", "R934", "R791", "E672", "R794", "R813", "R867", "E649" |
| Heart Failure | CIHI-DAD OHIP | ICD10: "I500", "I501", "I509", "I255", "J81" CCI: "1HP53", "1HP55", "1HZ53GRFR", "1HZ53LAFR", "1HZ53SYFR" OHIP FEE: "R701", "R702", "Z429" OHIP DX: "428" |
| Coronary Artery Bypass Graft | CIHI-DAD OHIP | CCI: 1IJ50, 1IJ76 CCP: 4802, 4803, 4809, 4811, 4812, 4813, 4814, 4815, 4816, 4817, 4819 OHIP FEE: Z434, R742, R743 |
| Hypertension | ODB | |
| Coronary Artery Disease, Excluding Angina | CIHI-DAD | ICD10: "I21", "I22", "Z955", "T822" CCI: "1IJ50", "1IJ76" OHIP FEE: "R741", "R742", "R743", "G298", "E646", "E651", "E652", "E654", "E655", "Z434", "Z448" OHIP DX: "410", "412" |
| Myocardial Infarction | CIHI-DAD | ICD9: "410" ICD10: "I21", "I22" |
| Stroke/Transient Ischemic Attack | CIHI-DAD | ICD10: "I630", "I631", "I632", "I633", "I634", "I635", "I638", "I639", "I64", "H341", "I600", "I601", "I602", "I603", "I604", "I605", "I606", "I607", "I609", "I61", "G450", "G451", "G452", "G453", |

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| | | "G458", "G459" |
| Dialysis | CIHI-DAD OHIP | ICD10: "T824", "Y602", "Y612", "Y622", "Y841", "Z49", "Z992", "N180", "E1022", "E1023", "E1122", "E1123", "E1322", "E1323", "E1422", "E1423" CCI: "1OT53DATS", "1OT53HATS", "1OT53LATS", "1SY55LAFT", "7SC59QD", "1KY76", "1PZ21" OHIP FEE: "R850", "G324", "G336", "G327", "G862", "G865", "G099", "R825", "R826", "R827", "R833", "R840", "R841", "R843", "R848", "R851", "Z450", "Z451", "Z452", "G864", "R852", "R853", "R854", "R885", "G333", "H540", "H740", "R849", "G323", "G325", "G326", "G860", "G863", "G866", "G330", "G331", "G332", "G861", "G082", "G083", "G085", "G090", "G091", "G092", "G093", "G094", "G095", "G096", "G294", "G295" |
| Renal Transplant | CIHI-DAD OHIP | ICD10: "T861", "N165", "Z940" CCI: "1PC85" OHIP FEE: "E762", "S435", "E769", "S434", "E771", "Z631", "G347", "G348", "G412", "G408", " |
| Hypoglycemic Episode | CIHI-DAD | ICD10: "E15", "E160", "E161", "E162", "E1063", "E1163", "E1363", "E1463" |
| Acute or Chronic Pancreatitis | CIHI-DAD | ICD 10: "K85", "B252", "B263", "K860", "K861" |
| Hyperglycemic Emergency | CIHI-DAD | ICD10: "E1410", "E1412", "E1010", "E1012", "E1110", "E1112", "E1300", "E140" |
| Glycated Hemoglobin Value | Gamma Dynacare | |
| Number of Physician Visits | OHIP | |
| Glycated Hemoglobin Tests | OHIP | OHIP FEE: "L093" |
| Glucose Tests | OHIP | OHIP FEE: "L111", "L112", "G002" |
| Cholesterol Tests | OHIP | OHIP FEE: "G001", "G013", "L117", "Q183" |
| Thyroid Stimulating Hormone Tests | OHIP | OHIP FEE: "G016", "G399", "L341" |
| Carotid Ultrasound | CIHI-DAD OHIP | CCI: "3JE30" OHIP FEE: "J201", "J501", "J189", "J489", "J190", "J191", "J490", "J491", "J492" |

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| Cardiac Catheterization | CIHI-DAD OHIP | CCI: "3IJ30GP", "3HZ30GP", "2HZ24GPKJ", "2HZ24GPKL", "2HZ24GPKM", "2HZ24GPXJ", "2HZ28GPPL", "2HZ71GP" OHIP FEE: "G296", "G297", "G299", "G300", "G301", "G304", "G305", "G306" |
| Coronary Revascularization | CIHI-DAD OHIP | CCI: "1IJ50", "1IJ26", "1IJ27", "1IJ57", "1IJ76" OHIP FEE: "R741", "R742", "R743", "E651", "E652", "E654", "E646", "G298", "Z434", "G262" |
| Echocardiography | CIHI-DAD OHIP | CCI: "3IP30" OHIP FEE: "G560", "G561", "G562", "G566", "G567", "G568", "G570", "G571", "G572", "G574", "G575", "G576", "G577", "G578", "G579", "G580", "G581" |
| Holter Monitor | CIHI-DAD OHIP | CCI: "2HZ24JAKH" OHIP FEE: "G650", "G651", "G652", "G653", "G654", "G655", "G656", "G657", "G658", "GG59", "G660", "G661", "G682", "G683", "G684", "G685", "G686", "G687", "G688", "G689", "G690", "G692", "G693" |
| Cardiac Stress Test | CIHI-DAD OHIP | CCI: "2HZ08", "3IP70" OHIP FEE: "G315", "G174", "G111", "G112", "G319", "J604", "J606", "J607", "J608", "J611", "J612", "J613", "J667", "J807", "J808", "J809", "J804", "J811", "J812", "J813", "J867", "J609", "J666", "J866" |
| Influenza Vaccine | OHIP | OHIP FEE: "G590", "G591" |
| Colorectal Cancer Screening | OHIP | OHIP FEE: "G004", "L179", "L181", "Q043", "Q152", "X112", "X113", "Z535", "Z536", "Z555", "Z580" |
| Prostate Specific Antigen Testing | OHIP | OHIP FEE: "L354", "L358" |
| Mammography | OHIP | OHIP FEE: "X172", "X178", "X184", "X185", "X201" |
| Diabetes Management Code | OHIP | OHIP FEE: "K030" |
| Diabetes Incentive Code | OHIP | OHIP FEE: "Q040" |
| Bone Mineral Density | OHIP | OHIP FEE: "J654", "J688", "J854", |

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| | | "J888", "X149", "X152", "X153", "X155", "Y654", "Y688", "Y854", "Y888" |
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CCI, Canadian Classification of Health Interventions; CIHI-DAD, Canadian Institute for Health Information Discharge Abstract Database; ICD-10, International Statistical Classification of Diseases and Related Health Problems, Tenth Revision; IPDB, Institute for Clinical Evaluative Sciences Physician Database; ODB, Ontario Drug Benefits; OHIP, Ontario Health Insurance Plan; RPDB, Registered Persons Database of Ontario.