

S1 Figure. Main clinical groupings for person-centred episodes (PCE)

Reason for Health Care Use	Databases	Codes
1. Pregnancy	Canadian Institute for Health Information-Discharge Abstract Database (CIHI-DAD)	<p>Any most responsible diagnosis code of:</p> <p>Chapter XV: Pregnancy, childbirth and the puerperium (O00-O99) Z34, Z35</p> <p>The codes included in this chapter are to be used for conditions related to or aggravated by the pregnancy, childbirth or by the puerperium (maternal causes or obstetric causes).</p>
2. Low Birth Weight, Other Perinatal and Congenital Conditions	CIHI-DAD	<p>Any most responsible diagnosis code of:</p> <p>Chapter XVI: Certain conditions originating in the perinatal period (P00-P96) and congenital (Q00-Q99) Includes conditions that have their origin in the perinatal period even though death or morbidity occurs later.</p>
3. Post-admission events	CIHI-DAD	<p>All cases where with Type 2 in any diagnosis field</p> <p>OR any diagnosis code in following: Y40-Y84, Y88, Y95</p>
4. Trauma, Accidents, Injuries and Poisonings	National Ambulatory Reporting Systems (NACRS), CIHI-DAD	<p>Any diagnosis code of:</p> <p>S140, S1410, S1411, S1412, S1413, S1418, S1419, S240, S2410, S2411, S2412, S2413, S2418, S2419, S3400, S3410, S3411, S3412, S3413, S3418, S3419, S3430, S3438, T060, T061, V01-V99, W00-W99, X00-X99, Y00-Y36, Y85, Y86, Y89, Y90, Y91, Y96-Y98</p>
5. Mental illness and addictions	CIHI-DAD, Ontario Mental Health Reporting System (OMHRS)	<p>Within CIHI-DAD, any most responsible diagnosis code of:</p> <p>F00-F99 G30, K70, R45, R46, R54 X60-X84, Y87</p> <p>All OMHRS admissions</p>

<p>6. Ambulatory Care Sensitive Hospitalizations</p>	<p>CIHI-DAD</p>	<p>For persons aged 0-74 and any most responsible diagnosis code (based on the Manitoba Centre for Health Policy; http://mchp-appserv.cpe.umanitoba.ca):</p> <p>Acute</p> <ul style="list-style-type: none"> • Congenital Syphilis ICD-10-CA: A50 • Imunization-Related: ICD-10-CA codes A35, A37, A80, I00, I01 (hemophilus meningitis for children ages 1-5 only, code G00.0) • Severe ENT Infections & otitis media: ICD-10-CA codes H66*, J02, J03, J06, J312 (*ICD-10-CA code H66 exclude CCI code 1.DF.53.JA-TS) • Tuberculosis ICD-10-CA codes A15--A19 • Pneumonia: ICD-10-CA codes J13, J14, J15.3, J15.4, J15.7, J15.9, J16, J18 (patients with a secondary diagnosis of sickle-cell anemia, ICD-10-CA codes D57.0, D57.1, D57.2, D57.8, and patients less than two months of age are excluded) • Hypoglycemia: ICD-10-CA codes E16.0, E16.1, E16.2 • Gastroenteritis: ICD-10-CA codes K52.2, K52.8, K52.9 • Kidney/Urinary Infections: ICD-10-CA codes N10, N11, N12, N13.6, N15.1, N15.8, N15.9, N16.0-N16.5, N28.83-N28.85, N36.9, N39.0, N39.9 • Dehydration/Volume Depletion: ICD-10-CA code E86 • Iron Deficiency Anemia: ICD-10-CA codes D50.1, D50.8, D50.9 (patients age 0-5 only) • Nutritional Deficiencies: ICD-10-CA codes E40-E43, E55.0, E64.3 • Failure to Thrive: ICD-10-CA code R62 (patients less than one year of age only) • Pelvic Inflammatory Disease: ICD-10-CA codes N70, N73, N99.4 (female patients only, patients with a hysterectomy procedure coded are excluded, CCI codes 1.RM.87, 1.RM.89, 1.RM.91, 5.CA.89.CK, 5.CA.89.DA, 5.CA.89.GB, 5.CA.89.WJ, 5.CA.89.WK) • Dental Conditions: ICD-10-CA codes K02-K06, K08, K09.8, K09.9, K12, K13 • Cellulitis: ICD-10-CA codes L03, L04, L08, L44.4, L88, L92.2, L98.0, L98.3
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(patients with any surgical procedure coded are excluded, except for incisions of skin and subcutaneous tissue, CCI codes 1.AX.53.LA-QK, 1.IS.53.HN-LF, IIS.53.LA-LF, 1.JU.53.GP-LG, 1.KR.53.LA-LF, 1.OA.53.LA-QK, 1.SY.53.LA-QK, 1.YA.35.HA-W1, 1.YA.35.HA-X4, 1.YA.52.HA, 1.YA.52.LA, 1.YA.55.DA-TP, 1.YA.55.LA-TP, 1.YA.56.LA, 1.YB.52.HA, 1.YB.52.LA, 1.YB.55.DA-TP, 1.YB.55.LA-TP, 1.YB.56.LA, 1.YF.35.HA-W1, 1.YF.35.HA-X4, 1.YF.52.HA, 1.YF.55.DA-TP, 1.YF.55.LA-TP, 1.YF.56.LA, 1.YG.52.HA, 1.YG.52.LA, 1.YG.55.DA-TP, 1.YG.55.LA-TP, 1.YG.56.LA, 1.YR.52.HA, 1.YR.52.LA, 1.YR.56.LA, 1.YS.35.HA-W1, 1.YS.35.HA-X4, 1.YS.52.HA, 1.YS.52.LA, 1.YS.55.DA-TP, 1.YS.55.LA-TP, 1.YS.56.LA, 1.YT.35.HA-W1, 1.YT.35.HA-X4, 1.YT.52.HA, 1.YT.52.LA, 1.YT.55.DA-TP, 1.YT.55.LA-TP, 1.YT.56.LA, 1.YU.52.HA, 1.YU.52.LA, 1.YU.55.DA-TP, 1.YU.55.LA-TP, 1.YU.56.LA, 1.YV.35.HA-W1, 1.YV.35.HA-X4, 1.YV.52.HA, 1.YV.52.LA, 1.YV.55.DA-TP, 1.YV.55.LA-TP, 1.YV.56.LA, 1.YW.52.HA, 1.YW.52.LA, 1.YW.55.DA-TP, 1.YW.55.LA-TP, 1.YW.56.LA, 1.YX.52.HA, 1.YX.52.HA-AV, 1.YX.52.LA, 1.YX.56.LA, 1.YZ.35.HA-W1, 1.YZ.35.HA-X4, 1.YZ.52.HA, 1.YZ.52.LA, 1.YZ.55.DA-TP, 1.YZ.55.LA-TP, 1.YZ.56.LA)

Chronic

- **Grand mal status and other epileptic convulsions**
ICD-10-CA: G40, G41, R56
- **Chronic obstructive pulmonary diseases (COPD)**
Any most responsible diagnosis code of
ICD-10-CA: J41, J42, J43, J44, J47
Any most responsible diagnosis code of Acute lower respiratory infection, only when a secondary diagnosis-of J44 in ICD-10-CA
ICD-10-CA: J10.0, J11.0, J12-J16, J18, J20, J21, J22
- **Asthma**
ICD-10-CA: J45
- **Diabetes**
ICD-10-CA: E10.0, E10.1, E10.6, E10.7, E10.9
E11.0, E11.1, E11.6, E14.7, E11.9
E13.0, E13.1, E13.6, E14.7, E13.9
E14.0, E14.1, E14.6, E14.7, E14.
- **Heart failure and pulmonary edema***
ICD-10-CA: I50, J81 *Excluding cases with cardiac procedures
- **Hypertension***
ICD-10-CA: I10.0, I10.1, I11
*Excluding cases with cardiac procedures
- **Angina***
ICD-10-CA: I20, I23.82, I24.0, I24.8, I24.9

		<p>*Excluding cases with cardiac procedures</p> <p>*List of cardiac procedure codes for exclusion:</p> <p>CCI: 1HA58, 1HA80, 1HA87, 1HB53, 1HB54, 1HB55, 1HB87, 1HD53, 1HD54, 1HD55, 1HH59, 1HH71, 1HJ76, 1HJ82, 1HM57, 1HM78, 1HM80, 1HN71, 1HN80, 1HN87, 1HP76, 1HP78, 1HP80, 1HP82, 1HP83, 1HP87, 1HR71, 1HR80, 1HR84, 1HR87, 1HS80, 1HS90, 1HT80, 1HT89, 1HT90, 1HU80, 1HU90, 1HV80, 1HV90, 1HW78, 1HW79, 1HX71, 1HX78, 1HX79, 1HX80, 1HX83, 1HX86, 1HX87, 1HY85, 1HZ53 rubric (except 1HZ53LAKP), 1HZ55 rubric (except 1HZ55LAKP), 1HZ56, 1HZ57, 1HZ59, 1HZ80, 1HZ85, 1HZ87, 1IF83, 1IJ50, 1IJ55, 1IJ57, 1IJ76, 1IJ86, 1IJ80, 1IK57, 1IK80, 1IK87, 1IN84, 1LA84, 1LC84, 1LD84, 1YY54LANJ</p>
7. Cancer	CIHI-DAD	<p>Any most responsible diagnosis code for Cancer (Included all "C" codes, no "D" cancer codes were included)</p> <p>C00-C99</p>
8. Acute planned surgical	CIHI-DAD. Same Day Surgery (SDS)	<p>Acute planned admission for Surgery excluding cancer</p> <p>Admit type = elective Major Clinical Category (MCC) = surgery</p>
9. Acute planned medical	CIHI-DAD	<p>Acute planned admission for medical care excluding cancer</p> <p>Admit type = elective MCC = medical</p>
10. Acute unplanned surgical	CIHI-DAD SDS	<p>All other urgent surgical care admissions</p> <p>Admit type = urgent code</p> <p>MCC = surgical</p>
11. Other acute unplanned medical	CIHI-DAD	<p>All other urgent care medical</p> <p>Admit type = urgent code</p> <p>MCC = medical</p>
12. Other hospitalized	CIHI-DAD SDS	<p>All remaining CIHI DAD and SDS records fell into this category.</p>