ACSC Hospitalizations (administrative health data algorithm)

Included Diagnoses (ICD-10; International	Excluded cases based on discharge setting, record
Classification of Diseases, 10 th Edition)	admission type, specific cardiac interventions (CCI:
	Canadian Classification of Health Interventions) and
	Case Mix Group intervention status.
Asthma: J45;	discharge records where death occurs:
Congestive heart failure and pulmonary edema: I50, J81; excluding cases with CCI	discharge_disposition= "07" or "71" or "72", "73", "74"
codes for cardiac surgical procedures (adjacent column)	exclude records where adtype ="N" or "R" or "S"
Diabetes: E10.0, E10.1, E10.63, E10.64, E10.9, E11.0, E11.1, E11.63, E11.9, E13.0, E13.1, E13.63, E13.9, E14.0, E14.1, E14.63, E14.9, E11.64, E13.64, E14.64 COPD: J41 to J44, J47 or J10.0, J11.0, J12-J16, J18, J20, J21, J22 when J44 is also present as a secondary (i.e., non-MRD) diagnosis Grand mal status and other epileptic convulsions: G40, G41 Hypertension: I10.0, I10.1, I11; excluding cases with CCI codes for cardiac surgical procedures (adjacent column)	Cardiac interventions (CCI) for exclusion: 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, 1YY54LANI, 1YY54LAFS, 1YY54LANIM, 1YY54LAFR, 1YY54LAFU
Angina: I20, I23.82, I24.0, I24.8, I24.9, excluding cases with CCI codes for cardiac surgical procedures (adjacent column)	Do not apply cardiac procedure code exclusions for records where CMGIntervStatus ="A"

Summary of Data Sources

Database	Variable	Use
IPR	1. Age	Exclusion criteria/ descriptive demographics/ multivariable analyses
	2. Sex	Descriptive demographics/ multivariable analyses
	3. Postal code	Linkage to census geography for PCCF+/CIMD

Physician Billings	1. Dxdate (date of billed service) 2. hospital unit (hospital unit of billed service) 3. Dxcode1-3 (International Classification of Diseases, 9 th edition, diagnostic codes)	Emergency department contact/ Charlson index derivation Identification of emergency department contact. Charlson Index derivation
CIHI DAD	1. Admit date (date of hospital admission) 2. Diagnosis code1-25 (International Classification of	Identification of ACSC hospitalization/ Charlson index derivation, indexed at date of admission Identification of ACSC hospitalization/ Charlson index derivation
	Diseases, 10 th edition, diagnostic codes) 3. Diagnosis code type1-25 (indicates category of diagnostic code1-25)	Identification of ACSC hospitalization/ Charlson index derivation
	4. Intervention code1-20 (CCI: Canadian Classification of Health Interventions)	
	5. adtype (type of hospital admission)6. discharge disposition (discharge setting)	
	7. CMGIntervStatus (Case mix group intervention status)	
PCCF+	CSize (categorical variable determining community population size)	Deriving rurality variable
	2.QAATIPPE (After tax household income quintile)	Deriving household income variable
CIMD	1. Residential instability quintile	Deriving CIMD summary score
	2. Economic dependency quintile	Deriving CIMD summary score
		Deriving CIMD summary score

	3. Ethno-cultural composition quintile 4. Situational vulnerability quintile	Deriving CIMD summary score
NaFPR Database	1. Registration date (date of start of "on-waitlist" status)	Determination of "on-"/"off-waitlist" status
	2. Current status (Coded variable indicating status at "current status date")	Determination of "on-"/"off-waitlist" status
	3. Current status date (date of most recent status ascertainment in database)	Determination of "on-"/"off-waitlist" status
	4. Cancellation reason (coded variable indicating reason for withdrawing from waitlist)	Determination of record eligibility

IPR: Health Data Nova Scotia Insured Patient Registry

CIHI DAD: Canadian Institute for Health Information Discharge Abstract Database

PCCF+: Statistics Canada/Canada Post Postal Code Conversion File Plus

CIMD : Canadian Index of Multiple Deprivation (geographically-weighted scores)