



NB-IRDT

New Brunswick Institute for
Research, Data and Training

Canadian Chronic Disease Surveillance System Epilepsy Data DH01c13

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- email us at nb-irdt@unb.ca
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About this Codebook

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Due to the operational nature of administrative data sets, there is potential for discrepancies between the names of variables and their corresponding definitions. In the case of such a discrepancy, the variable definition should be considered the most accurate representation.

Overview

The Canadian Chronic Disease Surveillance System (CCDSS) was developed by the Public Health Agency of Canada (PHAC) in partnership with provincial health ministries – including the New Brunswick Department of Health – as well as non-government organizations, clinicians, and researchers. The CCDSS uses administrative databases to provide a passive surveillance of chronic diseases. The data is processed at the provincial level and submitted to PHAC as aggregate data for national comparisons and further study. The CCDSS Epilepsy DH01c13 database contains individual-level surveillance data for epilepsy in New Brunswick.

Sample Universe

The data capture individuals living in New Brunswick who are eligible for provincial Medicare and who satisfy the screening criteria epilepsy. Records are generated per person and fiscal year and are derived from other administrative databases.

Date Range

1995-01-04 to 2019-03-31

Data Source

New Brunswick Department of Health

How to Cite this Codebook

New Brunswick Institute for Research, Data and Training. (2022). Canadian Chronic Disease Surveillance System DH01c13 Codebook. Fredericton, NB: New Brunswick Institute for Research, Data and Training.

Acknowledgements

The DH01c13 Dataset is used with the permission of New Brunswick Department of Health.

About this Product

Purpose of the Product

This Reference guide is intended for users of the CCDSS Epilepsy DH01c13 data set, provided by the New Brunswick Department of Health. This guide provides an overview of the data, the general methodology used in its creation and important technical information, such as table and field descriptions. The development of this document is an ongoing process and will receive updates when changes occur in the CCDSS Epilepsy database.

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Definitions and Concepts

Due to the operational nature of administrative data sets, there is potential for discrepancies between the names of variables and their corresponding definitions. In the case of such a discrepancy, the variable definition should be considered the most accurate representation.

Case – A case is defined (flagged) when an individual satisfies the criteria for the specified condition (see General Methodology).

Diagnosis – A diagnosis is an event, such as a hospitalization or a billing record, with a code indicating that an individual assessed by a healthcare provider has a specific health condition.

ICD – The International Statistical Classification of Diseases and Related Health Problems (ICD) is a typology for diagnoses of illnesses and diseases. The international standard is published by the World Health Organization (WHO), and a Canadian superset – built on top of the WHO standard – is produced by the Canadian Institute for Health Information (CIHI). The most recent Canadian ICD standard is the tenth revision (ICD-10-CA); however, many data sets available at NB-IRDT use the ninth revision (ICD-9-CA).

CCI – The Canadian Classification of Health Interventions (CCI) is a typology of health-related interventions developed by the Canadian Institute for Health Information (CIHI). The current version, the tenth revision (ICD-10-CA/CCI), has been developed for use with the tenth revision of the Canadian adaptation of the ICD (ICD-10-CA).

Fiscal Year – A fiscal or financial year is a twelve-month period typically used for reporting or accounting purposes. In Canada, fiscal years usually run from April 1st to March 31st of the following calendar year. They are commonly referred to by the calendar years they span (ex: 2020-2021 or 2020-21) or simply by the calendar year in which they start (ex: 2020).

Content

The CCDSS Epilepsy database contains Individual-level data from the Canadian Chronic Disease Surveillance System and estimates the incidence and prevalence of epilepsy in New Brunswick patients.

General Methodology

Data for the CCDSS Diabetes data set are collected passively from administrative data sets, notably the Citizen Database, the Discharge Abstract Data, and the NB Physician Billing database, also held at NB-IRDT. Standardized SAS-based scripts, prepared by the Canadian Institute for Health Information (CIHI), are run periodically on the administrative data to identify cases using condition-specific algorithms.

For diabetes, a case is defined if an individual of any age has at least one hospitalization or two physician billing records within two years with at least one of the following ICD codes related to diabetes. Gestational diabetes have been excluded by removing data for women 120 days before and 180 days after any pregnancy-related or obstetrical codes.

Limitations

Due to a progressive rollout of and adoption of reporting requirements, the exhaustiveness of the earlier years of CCDSS data may be questionable. Conditions with algorithms that rely on New Brunswick Physician Billing data may also incur additional variability since these records are stored as free text instead of standardized ICD codes.

Comparison to other Products/Versions

Records in the CCDSS Epilepsy data set are derived from those in the Citizen Database, the Discharge Abstract Data, and the New Brunswick Physician Billing database. They also share similar methodology with other CCDSS data related to chronic conditions, including COPD, Heart Failure, Hypertension, Ischemic Heart Disease, Myocardial Infarction, Mood and Anxiety Disorders, Multiple Sclerosis, Neurological Conditions, Parkinson's, and Stroke.

Using with Other Products

If applicable

Record Layouts and Data Descriptions

Overview

#	Name	Unit of Observation	Variables
1	Epilepsy Data		14

Epilepsy Data Variables

#	Name	Label	Type
1	Year	Year	Numeric
2	Act_CaseRule	Epil_Act_CaseRule	String
3	Act_DiagnosisYear	Epil_Act_DxYear	Numeric
4	CaseRule	Epil_CaseRule	String
5	DiagnosisYear	Epil_DxYear	Numeric
6	Status	Epil_Status	String
7	Active_Status	Epil_Act_Status	String
8	Sex	Sex	String
9	InsuranceEndDate	Insurance End Date	Date
10	Dead_Date	Dead_Date	Date
11	Dead_Status	Dead_Status	String
12	Age	Age	Numeric
13	Dead_Year	Dead_Year	Numeric
14	scram_id		String

Year

Act_CaseRule

Code	Description - English	Description - French
H		
M		

ACT_DiagnosisYear

CaseRule

Code	Description - English	Description - French
H		
M		

DiagnosisYear

Status

Code	Description - English	Description - French
1		

Active_Status

Code	Description - English	Description - French
1		

Sex

Code	Description - English	Description - French
F	Female	
M	Male	

InsuranceEndDate

Dead_Date

Dead_Status

Code	Description - English	Description - French
0		
1		

Age

Dead_Year

scram_id

Document History

Version	Author	Nature of Change	Date
1.0	Meg Pike	Creation of document	05-07-2022
Approved by		Approval Date	Review Date
NB-IRDT Staff			January 25 2023