

Horizon IV Oncology Data

Codebook For Years 2006-2024

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How to obtain more information

For more information about this Codebook or other services and data available from the New Brunswick Institute for Research, Data and Training (NB-IRDT), contact us in any of the following ways:

- visit our website at: https://unb.ca/nbirdt/
- email us at nb-irdt@unb.ca
- call us at 506-447-3363 Monday to Friday, 8:30am to 4:30pm

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About this Codebook

This reference guide is intended for users of the Horizon IV Oncology database, and provides an overview of the database. The Horizon IV Oncology database contains a description of cancer and its status of cancer patients, and the quality care and treatment services that they have been provided by Horizon's Oncology Clinics in New Brunswick.

Horizon locations offering the cancer care (oncology) services in New Brunswick are located at Fredericton, Miramichi, Moncton, Saint John, and Upper River Valley. In Horizon IV Oncology database, every location is represented by a distinct table; however, the completeness of variable values may vary across these tables.

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Overview

The Horizon IV Oncology database is a digital document which contains a description of cancer and its status of cancer patients, and the quality care and treatment services that they have been provided by Horizon's Oncology Clinics in New Brunswick.

The dataset provides a comprehensive view of cancer patient data, with each patient uniquely identified for seamless linkage to the NB-IRDT administrative data. It includes a wide range of variables that offer detailed insights into each patient's condition and treatment.

Key variables include patient sex, a description of the cancer diagnosis, and the date of diagnosis. The dataset also contains information about the administration of progesterone receptors, estrogen receptors, and the stage of the cancer at the time of diagnosis.

Furthermore, the dataset provides data on the patient status, the name of the administrated drug, its dosage, and the date of administration. This breadth of information makes the dataset a valuable resource for in-depth analysis and research in the field of oncology.

Data Range

2006-02-21 to 2024-02-26

Data Source

Horizon Health Network

How to cite this Codebook

New Brunswick Institute for Research, Data and Training. (2024). Horizon IV Oncology Data HH10 Codebook for years 2006-2024, 2024. Fredericton, NB: New Brunswick Institute for Research, Data and Training.

How to cite this product

New Brunswick Institute for Research, Data and Training. (2024). Horizon IV Oncology Data HH10 Codebook for years 2006-2024, 2024. Fredericton, NB: New Brunswick Institute for Research, Data and Training.

Acknowledgements

The Horizon IV Oncology Database is used with permission of "Horizon Health Network"

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About this product

Purpose of the product

The purpose of the Horizon IV Oncology database Codebook is to provide information on the linkable New Brunswick Horizon IV Oncology data held at the New Brunswick Institute for Research Data and Training (NB-IRDT). This data is assessable to researchers for public health, and research in the field of oncology.

Definitions and concepts

HER-2: Human Epidermal growth factor Receptor 2.

ICD 9: International classification of diseases (ICD) code, the ninth version.

TNM: TNM classification; T describes the size of the original (primary) tumor and whether it has invaded nearby tissue. N describes nearby (regional) lymph nodes that are involved. M describes distant metastasis (spread of cancer from one part of the body to another)

Content

This version of the Horizon IV Oncology data comprises five (5) tables. Two of these tables pertain to the Fredericton clinic, with one showcasing drug administration data spanning the years 2012-2016, and the other covering the period from 2017-2024. The Miramichi clinic is represented by a single table detailing data from 2020-2024. Similarly, the Saint John clinic has one data group for the years 2010-2023. Lastly, the Moncton clinic's data, which covers the period from 2006-2023, completes this comprehensive dataset.

Limitations

In this version of the Horizon IV Oncology data, it is important to note that the Upper River Valley clinic does not have any table. This absence may limit the comprehensive of the data analysis and comparisons that can be made across different clinics.

Furthermore, not all variables listed in this codebook are consistently provided across all tables. This means that while you may find the values of a certain variable in one table corresponding to a specific clinic, those same values may not be reported for another clinic. As a result, there may be instances where the data fields for these variables are predominantly blank.

These limitations should be taken into consideration when interpreting data and conducting any subsequent analysis. The inconsistencies in data reporting across different clinics and the absence of data from Upper River Valley clinic may impact the overall findings and conclusions drawn from this dataset.

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Comparison to other products/versions

N/A

Using with other products

N/A

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Technical specifications

Overview

Horizon IV Oncology Data

#	Name	Label	Type*
1	Facility	Horizon location offering Oncology services	С
2	Scram_id	Individual unique identifier	С
3	Sex	Patient sex	С
4	Diagnosis	Description of cancer diagnosis	С
5	Diagnosis_Date	Date of cancer diagnosis	N
6	ICD_9_code	International classification of diseases, 9 th revision	С
7	icd_9_description	ICD-9 Description	С
8	ICD_10_code	International classification of diseases, 10 th revision	С
9	Pathology	Description of cancer pathology	С
10	Prgstrn_receptor	Progesterone receptor	С
11	Prgstrn_receptor_date	Progesterone receptor date	N
12	Estrgn_receptor	Estrogen receptor	С
13	Estrgn_receptor_date	Estrogen receptor date	N
14	HER2neu_recept	Human Epidermal growth factor Receptor 2	С
15	HER2neu_recept_date	HER2 receptor date	N
16	TNM	TNM Classification	С
17	Tumor_Grade	Tumor Grade	С
18	Stage	Cancer Stage	С
19	ECOG	Eastern Cooperative Oncology Group	С
20	ECOG_description	ECOG description	С
21	Intent_ss	Intent short summary	С
22	Intent	Intent	С

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23	Status	Description of patient status	С
24	Drug_Name	Name of drug administered	С
25	Dose_amount	Amount of drug administered	N
26	Dose_unit	Dose-Unit of drug administered	С
27	Drug_ID	Drug identification number	С
28	Date	Date of drug administration	N
29	Method_of_Admin	Method of Drug Administration	С

^{*}The type N refers to numeric values while the type C refers to both alphabetic and numeric characters.

Record layouts and data descriptions

Facility

Horizon location offering Oncology services; Fredericton, Moncton, Saint John, Miramichi, and Upper River Valley*.

Facility	Available Data Starting- date	Available Data End-date
Fredericton	Jan, 2012	Oct, 2023
Moncton	Feb, 2006	Mar, 2023
Saint John	Jan, 2010	Jan, 2023
Miramich	May, 2020	Feb, 2024
Upper River Valley	Not available	Not available

^{*}The Upper River Valley clinic's data is not available in this version.

Data gaps in clinic submissions

In the process of compiling this oncology dataset, we have encountered instances where certain variables were not provided by some clinics. This section is dedicated to detailing these instances. The section provides a comprehensive list of clinics ant the specific variables that were not included in their data submission. Please note that the absence of these variables does not undermine the value of provided data, but rather highlights areas for potential improvement in data collection consistency across all Horizon Health oncology clinics.





Horizon Health Oncology Clinic in Fredericton

The following variables are not delivered.

Pathology, Diagnosis, Diagnosis_Date, icd_9_code, icd_10_code, Progesterone_receptor, Estrogen_receptor, HER2neu_receptor, TNM, Tumor_Grade, Stage, ECOG_Status, Intent, Status, Method_of_Admin, Drug_ID

Horizon Health Oncology Clinic in Saint John

The following variables are not delivered.

Progesterone_receptor, icd_9_code, Estrogen_receptor, HER_2_neu_receptor, TNM, Tumor_Grade, Stage, ECOG_Status, Intent, Status, Drug_ID

Horizon Health Oncology Clinic in Miramichi

The following variables are not delivered.

Pathology, Diagnosis, Diagnosis_Date, icd_9_code, icd_10_code, Progesterone_receptor, Estrogen_receptor, HER2neu_receptor, TNM, Tumor_Grade, Stage, ECOG_Status, Intent, Status, Method_of_Admin, Drug_ID

Sex

Sex	Patient sex
M	Male
F	Female
U	Unknown

Diagnosis

Description of cancer diagnosis.

Diagnosis Date

Date (MM/DD/YYYY) on which cancer diagnosed.

ICD 9

International classification of diseases

Pathology

Description of cancer pathology

Prgstrn receptor

Progesterone receptor

Prgstrn-receptor	Progesterone receptor
------------------	-----------------------





Negative	Negative
Positive	Positive
Borderline	Borderline
Not performed	Not performed
Unknown	Unknown

Prgstrn_receptor_date

Date (MM/DD/YYYY) on which the progesterone receptor status test was performed on a patient's tumor sample.

Estrgn_receptor

Estrogen receptor

Estrgn_receptor	Estrogen receptor
Negative	Negative
Positive	Positive
Borderline	Borderline
Not performed	Not performed
Unknown	Unknown

Estrgn_receptor_date

Date (MM/DD/YYYY) on which the estrogen receptor status test was performed on a patient's tumor sample.

HER2neu_recept

Human Epidermal growth factor Receptor 2.

HER2neu_recept	Human Epidermal growth factor Receptor 2	
Negative	Negative	
Positive	Positive	
Borderline	Borderline	
Not performed	Not performed	
Unknown	Unknown	
Equivocal	Equivocal	
IHC	ImmunoHistoChemistry	
Pending	Pending	

HER2neu_recept_date

Date (MM/DD/YYYY) on which the Human Epidermal growth factor Receptor 2 status test was performed on a patient's tumor sample.





TNM

TNM Classification. *T* describes the size of the original (primary) tumor and whether it has invaded nearby tissue. *N* describes nearby (regional) lymph nodes that are involved. *M* describes distant metastasis (spread of cancer from one part of the body to another)

Tumor_Grade

Tumor Grade

Tumor_Grade	Tumor Grade	
G1	Well differentiated	
G2	Moderately differentiated	
G3	Poorly differentiated	
G4	Undifferentiated	
GX	Grade cannot be assessed	

Stage

Cancer Stage

ECOG

Eastern Cooperative Oncology Group

ECOG	Eastern Cooperative Oncology Group Description
0	Fully active, able to carry on all pre-disease performance without restriction
1	Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g., light house work, office work
2	Ambulatory and capable of all self-care but unable to carry out any work activities. Up and about more than 50% of waking hours
3	Capable of only limited self-care, confined to bed or chair more than 50% of waking hours
4	Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair
5	Death

Intent_ss

Intent short summary

Intent-ss*	Intent short summary
Palliative	The treatment is aimed at relieving the symptoms and
	improving quality of life.





Curative	The treatment is aimed at curing the patient of the disease.	
To extend life	The treatment is aimed at prolonging the patient's life.	

*In addition to the categories that are listed in the table, some other categories might be observed with very low frequencies. More details about each will be available in the 'Intent' variable description.

Intent

The intended outcome or goal of treatment.

Status

Description of patient status.

I I	
Status	
Follow Up	
No follow up	
Receiving chemotherapy	
Expired	
Duplicate chart	

Drug_Name

Name of drug administered.

Dose_amount

Amount of drug administered.

Dose_unit

Dose-Unit of drug administered. In majority of cases, the dose-unit is Milligram (MG), but there are few case with different units such as gram (G) and IU (International Unit).

Drug_ID

Drug identification number. The values, as long as available, are not consistent with the actual Canadian Drug Identification Number (DIN).

Date

Date (DD/MM/YYYY) of drug administration.

Method_of_Admin

Method of Drug Administration.





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Method_of_Admin	Method of Drug Administration	
СТ	Chemotherapy	
SUP	Supportive Care	

DOCUMENT HISTORY

Version	Author	Nature of Change		Date
1.0	Ali Beykzadeh	Creation of document	August 1st , 2023	
Approved by		Approval Date	Effective Date	Review Date