

**Metadata for the Cancer Dataset
on the Vermont Tracking Public Portal**
EPHTN Metadata Record ID: VT1

FIELD	Vermont Metadata
CATEGORY	Health
PUBLICATION DATE	4/1/2024
TITLE	Vermont_Cancer_Incidence_2003-2019
URL	http://healthvermont.gov/Tracking
NATIVE DATASET ENVIRONMENT	SQL
ABSTRACT	This dataset contains case counts, age-adjusted incidence rates, 95% confidence intervals for the rates, and statistical difference from state rate for the following cancers: Breast, Lung and Bronchus, Melanoma of the Skin, Bladder, Non-Hodgkin Lymphoma, Kidney and Renal Pelvis, Thyroid, Leukemia, Brain and Other Nervous System, Liver and Intrahepatic Bile Duct, Chronic and Acute Lymphocytic Leukemia, Acute Myeloid Leukemia and Mesothelioma among Vermont residents for the years 2003-2017. These data are stratified by incident year, geographic level, and, in certain instances, by age-group (childhood cancers (<15 & <20 years), breast cancer (<50 & >=50 Years)) and sex (lung and bronchus, melanoma of the skin, thyroid and bladder cancer, data for female breast cancer only).
PURPOSE	To provide data for the Vermont Tracking web portal consistent with the National Environmental Public Health Tracking Network guidance for creating Cancer Nationally Consistent Data and Measures (NCDMs).
PROGRESS	Complete
UPDATE FREQ.	Annually
DATE TYPE	Range of dates
RANGE OF DATES	January 1, 2003 – December 31, 2019
CURRENTNESS	Publication Date
WEST COORDINATE	-73.43774399999995

EAST COORDINATE	-71.464556999999999
NORTH COORDINATE	45.016655999999998
SOUTH COORDINATE	42.726849000000001
THEME	International Classification of Diseases for Oncology, Third Edition (ICD-O-3)
THEME KEYWORD	Cancer, Incidence, SEER, Epidemiology, Health, Disease, Registry, Childhood Cancer, Pediatric Cancer, Bladder, Brain/Central Nervous Systems (<20 years), Breast, Leukemia, Lymphoid leukemia (<20 years), Acute Myeloid leukemia, Chronic Lymphocytic Leukemia, Lung and Bronchus, Non-Hodgkin's Lymphoma, Thyroid, Brain/Other Nervous Systems, Leukemia (<20 years), Acute Lymphocytic leukemia, Acute Myeloid leukemia (<20 years), Melanoma of the Skin, Kidney and Renal Pelvis, Liver and Intrahepatic Bile Duct, Mesothelioma.
PLACES	State, County
PLACES KEYWORD	Vermont, VT, FIPS 50, Addison (50001), Bennington (50003), Caledonia (50005), Chittenden (50007), Essex (50009), Franklin (50011), Grand Isle (50013), Lamoille (50015), Orange (50017), Orleans (50019), Rutland (50021), Washington (50023), Windham (50025), Windsor (50027)
SECURITY CLASSIFICATION SYSTEM	None
CLASSIFICATION	Unclassified
SECURITY HANDLING DESCRIPTION	None
ACCESS CONSTRAINTS	None
USE CONSTRAINTS	Efforts have been made to assure the accuracy of the data. However, no responsibility is assumed by the Vermont Department of Health, related to materials or how it is represented by those who access this information. All users must read and fully comprehend metadata prior to data use. Users must not use these data to attempt to identify any individual.
PROCESS DATE	February 15, 2023

<p>PROCESS DESCRIPTION</p>	<p>Incident cancer data excluding basal cell and squamous cell skin cancers and in situ (malignant but non invasive) carcinomas except urinary bladder were reported by the Vermont Cancer Registry.</p> <p>The following cancers were classified using the International Classification of Disease for Oncology (ICD-O) coding system according to the National Cancer Institute’s Surveillance Epidemiology and End Results (SEER) “SEER Site Recode ICD-O-3/WHO 2008 Definition”: https://seer.cancer.gov/siterecode/icdo3_dwhohome/index.html</p> <p>Acute Myeloid Leukemia cases were defined as invasive neoplasms with ICD-O-3 histology codes 9840, 9861, 9865-9867, 9869, 9871-9874, 9895-9897, 9898, 9910-9911, 9920.</p> <p>Bladder cancer cases were defined as in situ and invasive neoplasms with ICD-O-3 site codes C67.0-C67.9 with the exception of histology 9050-9055, 9140, 9590-9992.</p> <p>Brain and other nervous system cancer cases were defined as invasive neoplasms with: ICD-O-3 site codes C71.0-C71.9 with the exception of histology 9050-9055, 9140, 9530-9539, 9590-9992; ICD-O-3 site codes C710-C719 with the exception of histology 9530-9539; or ICD-O-3 site codes C700-C709, C720-C729 with the exception of histology 9050-9055, 9140, 9590-9992.</p> <p>Breast cancer cases were defined as invasive neoplasms with ICD-O-3 site codes C50.0-C50.9 with the exception of histology 9050-9055, 9140, 9590-9992.</p> <p>Chronic Lymphocytic Leukemia cases were defined as invasive neoplasms with ICD-O-3 site codes C420, C421 and C424 and ICD-O-3 histology code 9823.</p> <p>Kidney and renal pelvis cancer cases were defined as invasive neoplasms with ICD-O-3 site codes C64.9 and</p>
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C65.9 with the exception of histology 9050-9055, 9140, 9590-9992.

Leukemia cases were defined as: invasive neoplasms with ICD-O-3 site codes C420, C421, C424 with ICD-O-3 histology codes 9811-9818, 9823, 9827, 9837; or invasive neoplasms with ICD-O-3 histology codes 9733, 9742, 9800, 9801, 9805-9809, 9820, 9826, 9831, 9832-9834, 9835-9836, 9840, 9860, 9861, 9863, 9865-9867, 9869, 9870, 9871-9874, 9875-9876, 9891, 9895-9897, 9898, 9910-9911, 9920, 9930, 9931, 9940, 9945-9946, 9948, or 9963-9964.

Liver and Intrahepatic Bile Duct cancer cases were defined as invasive neoplasms with ICD-O-3 site codes C22.0 and C22.1 with the exception of histology 9050-9055, 9140, 9590-9992.

Lung and bronchus cancer cases were defined as invasive neoplasms with ICD-O-3 site codes C34.0-C34.9 with the exception of histology 9050-9055, 9140, 9590-9992.

Melanoma of the skin cases were defined as invasive neoplasms with ICD-O-3 site codes C44.0-C44.9 with the histology 8720-8790.

Mesothelioma cases were defined as invasive neoplasms with ICD-O-3 histology codes 9050-9055.

Non-Hodgkin Lymphoma cases were defined as invasive neoplasms with ICD-O-3 histology codes 9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737-9738, 9811-9818, 9823, 9827, 9837.

Thyroid cancer cases were defined as invasive neoplasms with ICD-O-3 site codes C73.9 with the exception of histology 9050-9055, 9140, 9590-9992.

Data were aggregated at the Vermont state and Vermont county level and analyzed by Vermont's Cancer Epidemiologist using National Cancer Institute

	<p>SEER*Stat software (www.seer.cancer.gov/seerstat) version 8.3.5.</p> <p>Numerator is composed of counts of unique primary incident cases of selected cancers diagnosed during a specified calendar year or five year period within residents of Vermont at the time of diagnosis.</p> <p>Denominator is composed of counts of the population residing in Vermont during a specified calendar year or five year period using U.S. Census data as modified by the Vermont Department of Health http://www.healthvermont.gov/health-statistics-vital-records/vital-records-population-data/vermont-population-estimates</p> <p>All rates are age adjusted to the 2000 U.S. standard population http://seer.cancer.gov/stdpopulations/</p> <p>The Tracking dataset contains 27,039 observations.</p> <p>Further information on the Vermont Cancer Registry: http://www.healthvermont.gov/health-statistics-vital-records/registries/cancer</p> <p>Vermont Cancer Registry Statute: http://legislature.vermont.gov/statutes/chapter/18/004</p> <p>Information on SEER: http://seer.cancer.gov/</p> <p>Suggested Citation: Vermont Department of Health, Vermont Cancer Registry and Vermont Environmental Public Health Tracking Program, 2024.</p>
LOGISTICAL CONSISTENCY REPORT	None
COMPLETENESS REPORT	<p>The Vermont Cancer Registry is Gold Certified by the North American Association of Central Cancer Registries (NAACCR). Cancer registries that meet the Gold Standard for Registry Certification have achieved the highest NAACCR standard for complete, accurate, and timely data to calculate standard incidence statistics: https://www.naacr.org/certification-criteria/</p>

	<p>For coding standards that were in effect during each diagnosis year, see NAACCR Version 18 Data Standards and Dictionary. Coding changes over time may be found in the Vermont Cancer Registry Hospital Procedure Manual, Appendix E.</p>
<p>OVERVIEW</p>	<p>This data set contains the following fields: Cancer Type, Year(s), Geography Type, Geography Name, Sex, Age, Rate, Rate Type, Rate Population, Count, Average Annual Count, Lower Confidence Level, Upper Confidence Level, 95% Confidence Interval, and Statistical Difference from State Rate.</p> <p>Each record in the dataset represents the incidence of the specified cancer for a geography and time period; where appropriate, incidence may also be displayed by gender and/or age group.</p>
<p>DETAILED CITATION</p>	<p style="text-align: center;">Data Dictionary</p> <p>Cancer Type: Selected cancers for tracking - Breast, Lung and Bronchus, Bladder, Brain and Other Nervous Systems, Thyroid, Non-Hodgkin Lymphoma, Leukemia, Chronic and Acute Lymphocytic Leukemia, Acute Myeloid Leukemia, Mesothelioma, Melanoma of the Skin, Liver and Intrahepatic Bile Duct, Kidney and Renal Pelvis.</p> <p>State: the state used for data aggregation - Vermont</p> <p>County: the Vermont county used for data aggregation - Addison, Bennington, Caledonia, Chittenden, Essex, Franklin, Grand Isle, Lamoille, Orange, Orleans, Rutland, Washington, Windham, Windsor</p> <p>Diagnosis Year(s): Indicates the diagnosis year or years selected for analysis. NCDMs are typically reported in single years or five-year period.</p> <p>Gender: Indicates the gender(s) selected (male, female, or male and female combined).</p> <p>Age Range: The age (in years) included in the rate or count.</p>

	<p>Count(s): The frequency of cases included in the associated rate. For a single-year rate, this is the number of cases in the year. For a five-year rate, this is the number of total cases in the five-year period.</p> <p>Age Adjusted Incidence Rate: The number of cases per 100,000 (or per 1,000,000 for childhood cancers) population, age adjusted to the US 2000 standard population.</p> <p>95% confidence Interval: confidence interval associated with the rate indicating 95% confidence that the true rate is contained within this interval.</p> <p>Statistical Difference from State Rate: The amount of evidence of a county rate difference from the state rate is represented by p-values. P-values, which indicate the probability that the difference did not occur due to chance, are interpreted and displayed as follows:</p> <p>P value < 0.01 strongly significant P value ≥ 0.01 and < 0.05 moderately significant P value ≥ 0.05 and < 0.10 weakly significant P value ≥ 0.10 not significant</p>
CUSTOM ORDER PROCESS	<p>Unsuppressed versions of data on the Vermont Tracking Public Portal are available to approved users: contact the Tracking program for more information regarding approval http://www.healthvermont.gov/tracking</p> <p>For questions about cancer data on the Tracking portal call 802-863-7220 or, from within Vermont, 800-439-8550, or email AHS.VDHVTEPHT@vermont.gov</p> <p>For additional information or more detailed cancer data inquiries call 802-863-7644 or, from within Vermont, 800-464-4343, extension 7644.</p>
DATE CREATED	March 29, 2024
STANDARD NAME	EPHTN Tracking Network Profile Version 1.2
ACCESS CONSTRAINTS	None

USE CONSTRAINTS	None
PERSON	Vermont Tracking Program
ORGANIZATION	Vermont Department of Health
TITLE	Vermont Environmental Public Health Tracking Program
HOURS	7:45 AM – 4:30 PM
PHONE NO. 1	1-800-439-8550 (in VT)
PHONE NO. 2	1-802-863-7220 (if calling from outside of VT)
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STATE	Vermont
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