

Vermont Diabetes Data Inventory

June 2025

This data inventory is intended to (1) identify available data sources specific to diabetes, with at least state level data and (2) support the identification and selection of indicators for the Vermont Diabetes State Plan. Data sources include Department of Health owned data and resources available through the Department of Health, those owned by other State of Vermont Agencies or Departments that the Health Department can access or request data from, and externally owned data sources with public data access. For additional information on data sources owned or available through the Department of Health, please see the [Health Department Data Encyclopedia](#). Additional information on external data sources can be found in the [appendix](#).

Information is distributed across three tables. The **data sources** table contains all data sources, descriptions, and useability ratings. The other tables contain diabetes specific measures by data source for **Department of Health owned data** and **external data sources**.

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How usable and reliable is the data source for state-level diabetes-related analyses:

N/A: No diabetes specific data available, data is not available at the state level, or data source is inaccessible

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1 (low): Data available but at a slower frequency (> 2 years between updates) or requires special access, permissions or data requests to access

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2 (medium): Data routinely available and robust at state and sub-state levels though may be delayed, require funding, special accounts or come with some limitations (e.g., niche population, small numbers that limit state or substate analysis, not annual)

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3 (high): Robust data regularly available at no extra cost at the state level as well as substate geographies

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^ Indicates data source can provide substate data (e.g., county)



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Data Sources

The data sources in the following table have been found to have at least state level data on diabetes in Vermont or have the ability to be used in parallel with other data source to bring unique meaning to diabetes specific data.

Data Source	Rating	Description	Owner
Adult Tobacco Survey (ATS)^	○○○	A survey of non-institutionalized Vermont adults that provides key outcome measures on tobacco use, secondhand smoke, cessation services, and risk perception historically administered through random digit dial (RDD) survey methods but more recently through online and mail survey methods. Half of respondents use tobacco, the other do not. Data are weighted to be representative of the state population.	VT Department of Health
All of Us Research Program (All of Us)	●○○	A multisector data collection effort to understand the risk factors for certain diseases, identify which treatments work best for people of different backgrounds, connect people with the right clinical studies for their needs, and learn new technologies to help people be healthier. Though not a representative sample of the population, engagement from historically underrepresented groups in biomedical research is strongly encouraged.	National Institutes of Health (NIH)
Behavioral Risk Factor Surveillance System (BRFSS) – Core survey^	●●●	A telephonic random digit dial (RDD) survey of non-institutionalized adults tracking self-reported health risk behaviors, social determinants of health, chronic health conditions and use of preventive services. It is administered by the states with funding provided by the CDC. Data are weighted to be representative of the state population.	VT Department of Health
BRFSS – optional state added questions^	●●○	Added questions to the Vermont BRFSS using CDC designed and tested optional modules or questions developed by Health Department programs or partners and can related to any public health or population initiative.	VT Department of Health

Data Source	Rating	Description	Owner
Community Health Needs Assessment (CHNA) – Hospital Report Cards	●○○	Data resource required of all hospitals to complete under the Patient Protection and Affordable Care Act every 3-years. Information is solicited from those with broad interest from the community served by the hospital. From this, each hospital develops a facility implementation strategy to meet the needs of the CHNA.	VT Department of Health
Health Care Workforce Census^	○○○	Census of all active state licensed health care providers that supports state-level analysis, federal shortage designations, recruitment and retention activities.	VT Department of Health
Medicaid Management Information System (MMIS)	●●○	The computerized network that manages state Medicaid programs to ensure efficient and appropriate distribution of Medicaid funds. It supports claims processing and care management, helping to track eligibility, service delivery, provider enrollment, etc.	Department of Vermont Health Access (DHVA)
My Healthy Vermont (MHVT)^	●●●	Program administrative registry on state-funded suite of lifestyle change and self-management workshops, including the Diabetes Prevention and Diabetes Management Workshops.	VT Department of Health
National Survey of Children's Health (NSCH)^	●●●	Three surveys for 0-5, 6-11, and 12-17 year olds providing in-depth information on intersecting aspects of children's lives including physical activity, access to and quality of health care, family, neighborhood, school, and social context.	Health Resources and Services Administration (HRSA)
National Health and Nutrition Examination Survey (NHANES)	●○○	National survey administered to collect data on the health of U.S. adults and children about dietary behaviors, including food security, health outcomes and other health behaviors through a combination of interviews, health exams, and laboratory testing. Typically sampling around 5,000 Americans.	Centers for Disease Control and Prevention (CDC)
National Health Interview Survey (NHIS)^	●○○	The largest and oldest national health survey in the U.S. Typically sampling around 27,000 non-institutionalized adults a year in face-to-face interviews. It collects information on illness and chronic conditions, health-related behaviors, disability, healthcare access and utilization, health insurance coverage, and preventive services for children 0-17 years old and adults 18 and older.	Centers for Disease Control and Prevention (CDC)

Data Source	Rating	Description	Owner
Pregnancy Risk Assessment Monitoring System (PRAMS)	●●●	A paper and telephone survey of randomly selected pregnant persons from Vermont issued birth certificates indicating Vermont residency. They collect self-reported information about pregnancies and babies to understand why some babies are born healthier than others. Data are weighted to be representative of the state population.	VT Department of Health
Refugee Domestic Health Assessment (DHA)	○○○	A registry populated from a required form completed on all arriving refugees that identifies health issues among new arrivals to the Vermont health care system and connects refugees with a medical home and specialty care, as needed.	VT Agency of Human Services-Refugee Health Program
School Health Profiles (SHP)	●●●	A set of electronic surveys sent every other year in even years to principals and lead health educators of all Vermont secondary schools to monitor health education related to a wide variety of topics and school policies regarding health programs and health coordination.	VT Department of Health
Statewide Incident Reporting Network (SIREN)^	●○○	Emergency Medical Service (EMS) incident reports describing prehospital and interfacility transfer interventions for all Vermont transporting EMS agencies. First-response only agencies may use this system but are not required; about a third of first response only agencies opt-in to SIREN.	VT Department of Health
State Unintentional Drug Overdose Reporting System (SUDORS)	●○○	Database on drug overdoses collected through abstraction from death certificates, medical examiner and law enforcement reports to investigate the circumstances around accidental or undetermined drug overdose deaths.	VT Department of Health
United State Renal Data System (USRDS)^	●●○	A national data system that collects, analyzes, and distributes information about chronic kidney disease (CKD) and end-stage renal disease (ESRD) in the United States.	National Institute of Diabetes Digestive and Kidney Disease (NIDDK)
Vermont Cancer Registry (VCR)	●○○	Statutorily required database on all reported cancers, except skin and non-invasive cervical cancers or benign tumors, diagnosed in Vermont to monitor efforts to reduce the burden of cancers among all Vermonters.	VT Department of Health

Data Source	Rating	Description	Owner
Vermont Department of Corrections (CorrecTek)	●●○	Integrated Electronic Health Record (EHR) for the Vermont Department of Corrections unified system providing records of health care encounters for incarcerated individuals provided by the DOC health contractor.	VT Department of Corrections
Vermont Health Care Uniform Reporting and Evaluation System (VHCURES)^	●●○	Vermont's All-Payer Claims Database (APCD) containing person-level medical and pharmacy claims for individuals with Vermont based insurance (all Medicaid, Medicare, and a majority of commercial claims).	Green Mountain Care Board (GMCB)
Vermont Health Information Exchange (VHIE)^	●○○	Medical data sharing system facilitating electronic health information sharing between providers and patients from hospitals, health centers, independent specialty/primary care practices, laboratories, pharmacies, and other health care settings to improve care quality and coordination by making a more complete picture of a patient's health history available.	Vermont Information Technology Leaders (VITL)
Vermont School Nurse Report (VT SNR)	○○○	Report created by the survey vendor from parent/guardian reported data for all public school-age children (K-12) to the school nurse on information related to health care visits (wellness and dental), insurance status, and school Electronic Health Record (EHR) capability.	VT Department of Health
Vermont Uniform Hospital Discharge Data Set (VUHDDS)^	●●○	Encounter level discharge records for all patients seen in inpatient, emergency department and outpatient settings at one of Vermont's 14 acute care hospitals.	VT Department of Health
Vital Statistics^	●●●	Statutorily required database of vital events (births, deaths, fetal deaths/abortions, marriages, and divorces/dissolutions) that occur in Vermont as well as for Vermont resident births and deaths that occur out of state that are shared with the Vital Records Office through a national data sharing agreement to improve the accuracy of resident statistics across the U.S.	VT Department of Health
Women Infants and Children (WIC) Database	○○○	A series of surveillance and administrative data systems for those who are pregnant and infants and children use of federally funded supplemental nutrition program benefits and nutrition and health assessment results.	VT Department of Health

Data Source	Rating	Description	Owner
You First Data Management System (Med-IT)	●●○	Registry for the You First program for the administrative collection, storage, and reporting of required data to CDC for the National Breast and Cervical Cancer Early Detection and Well-Integrated Screening and Evaluation for Women Across the Nation (WISEWOMAN) programs.	VT Department of Health
Youth Risk Behavior Survey (YRBS)^	○○○	An electronic survey administered every other year in odd years to students in all Vermont secondary schools to monitor priority health risk behaviors that contribute to a number of significant diabetes risk factors including physical activity, nutrition, substance (including tobacco) use, and social determinants of health (i.e., food insecurity).	VT Department of Health

Diabetes State Plan

The Diabetes State Plan is a multisector workgroup led by the Vermont Department of Health to facilitate the creation of a shared vision for improving diabetes care and outcomes in Vermont. The following tables identify diabetes specific measures available from the identified data sources organized according to the **State Plan goal areas**:

Awareness and promotion efforts rely on data about prediabetes, diabetes, and related risk factors to identify individuals who have or are at risk for these conditions. It helps raise public awareness of the risks associated with prediabetes and diabetes, while guiding targeted communication, outreach, and intervention strategies—especially for populations at greater risk.

Screening and referral data are vital tools for the prevention and management of prediabetes and diabetes. Screening data help identify individuals at risk who may not yet be diagnosed, allowing for earlier intervention. Referral data show how many people are being successfully connected to education, treatment, and support services, helping health care providers and community organizations assess gaps and improve care coordination—especially for underserved populations.

Data on **access and utilization** of prediabetes and diabetes prevention and management health care services are essential for identifying gaps in care, understanding barriers to health care access and use, and ensuring equitable access to high-quality, culturally responsive programs. These insights support efforts to sustainably expand reach and improve engagement among populations most affected by prediabetes and diabetes.



Diabetes Specific Measures – Health Department Owned Data Sources

The following table reflects Vermont Health Department owned or accessible data. It is organized based on the three sections of the Diabetes State Plan: Awareness & Promotion, Screening & Referral, and Access & Utilization. Diabetes specific measures relevant to each data source and category appear in the corresponding column for each data source.

Diabetes Specific Measures – Health Department Owned			
Data Source	Awareness and Promotion	Screening and Referral	Access and Utilization
ATS^	No diabetes specific measures available. However, tobacco use is a significant diabetes risk factor which this data source provides in-depth information on.		
BRFSS – Core survey^	<ul style="list-style-type: none">• Diabetes diagnosis (prevalence)• Gestational diabetes (prevalence)• Age first diagnosed with diabetes		
BRFSS – optional state added questions^	<ul style="list-style-type: none">• Type of diabetes (e.g., type 2)• Prediabetes diagnosis (prevalence)	<ul style="list-style-type: none">• Number of times provider checked A1c• How long ago took a diabetes self-management education (DSME) course• Tested for high blood sugar or diabetes• Ever attended lifestyle change program to prevent diabetes	<ul style="list-style-type: none">• Dilated eye exam• Retinal imaging• Insulin use• Foot sores take 4+ weeks to heal

Diabetes Specific Measures – Health Department Owned			
Data Source	Awareness and Promotion	Screening and Referral	Access and Utilization
CHNA – Hospital Report Cards			<ul style="list-style-type: none"> Nutritional fitness/diabetes priority Facility implementation plan problem statement strategies for improving nutritional fitness/diabetes outcomes (if selected as a priority)
Health Care Workforce Census^	No diabetes specific measures. Can be used concurrently with other diabetes data to assess potential impacts of provider availability.		
MMIS		<ul style="list-style-type: none"> Diabetes clinical testing/screening Type of testing/screening performed Amount paid 	<ul style="list-style-type: none"> Diabetes as cause for health care visit Type of care/medical service received Amount paid
MHVT^		<ul style="list-style-type: none"> Attendance/completion status Referral source Workshop activity tracking 	
PRAMS	<ul style="list-style-type: none"> Pre-pregnancy diabetes status Gestational diabetes during pregnancy 	<ul style="list-style-type: none"> Diabetes screened at post-partum visit 	<ul style="list-style-type: none"> Controlling medical conditions like diabetes discussed with health care provider the year prior to pregnancy

Diabetes Specific Measures – Health Department Owned			
Data Source	Awareness and Promotion	Screening and Referral	Access and Utilization
SHP	<ul style="list-style-type: none"> Chronic disease prevention included in a required health education class Health educators received professional development on chronic disease prevention Health educators interested in professional development on chronic disease prevention Assignments or activities about diabetes used as a way to provide information to parents and families Students with diabetes identified and tracked 	<ul style="list-style-type: none"> School refers to health care providers or organizations for students suspected of having diabetes 	<ul style="list-style-type: none"> School provides daily medication administration for students with chronic conditions
SIREN^			<ul style="list-style-type: none"> Chief complaint Working diagnosis Blood glucose levels Medical interventions
SUDORS	<ul style="list-style-type: none"> Diabetes medical history 		
VCR	<ul style="list-style-type: none"> Diabetes mentioned in comorbidity field 		
VT SNR	No diabetes specific measures available. Diabetes is not a topic included in the survey. However, this report can provide valuable insight into youth health care access.		
VUHDDS^			<ul style="list-style-type: none"> Diabetes as cause of encounter (primary and contributing) Type of care/medical service received Amount charged

Diabetes Specific Measures – Health Department Owned			
Data Source	Awareness and Promotion	Screening and Referral	Access and Utilization
Vital Statistics^	<ul style="list-style-type: none"> • Cause of death (underlying and contributing) • Gestational diabetes (incidence) among live births 		
WIC Database	No diabetes specific measures available. Access to nutritious food is a significant risk factor for diabetes. This data source provides insight into the nutritional health of pregnant persons, infants and children.		
You First Data Management System (Med-IT)	<ul style="list-style-type: none"> • Diabetes diagnosis (prevalence) 	<ul style="list-style-type: none"> • Blood sugar screening 	
YRBS^	No diabetes specific measures available. However, the YRBS collects data on numerous diabetes risk factors that can provide useful context on overall chronic disease risk.		



Diabetes Specific Measures – External Data Sources

The following table reflects external data sources that are publicly available. It is organized based on the three sections of the Diabetes State Plan: Awareness & Promotion, Screening & Referral, and Access & Utilization. Diabetes specific measures relevant to each data source and category appear in the corresponding column.

Diabetes Specific Measures – External			
Data Source	Awareness and Promotion	Screening and Referral	Access and Utilization
All of Us	<ul style="list-style-type: none"> Personal/family medical history of diabetes 		<ul style="list-style-type: none"> Diabetes and associated conditions diagnosis Diabetes labs and associated measurements Procedures related to diabetes
DHA	No diabetes specific measures available. Medical history is typically assessed in the primary care setting as part of the approval for relocation process. These may be detectable through Medicaid claims (MMIS or VHCURES) at their first domestic health assessment.		
NHANES	<ul style="list-style-type: none"> Diabetes diagnosis (prevalence) Age first diagnosed with diabetes Prediabetes diagnosis (prevalence) 	<ul style="list-style-type: none"> Screened for high blood sugar in the past three years 	<ul style="list-style-type: none"> Insulin use How long using insulin Oral medication use

Diabetes Specific Measures – External			
Data Source	Awareness and Promotion	Screening and Referral	Access and Utilization
NHIS^	Adult <ul style="list-style-type: none"> • Prediabetes diagnosis (prevalence) • Gestational diabetes (prevalence) • Diabetes diagnosis (prevalence) • Age first diagnosed with diabetes • Years since first diagnosed • Type of diabetes (e.g., type 2) Child <ul style="list-style-type: none"> • Prediabetes diagnosis (prevalence) • Diabetes diagnosis (prevalence) 	Adult <ul style="list-style-type: none"> • Last time tested for high blood sugar 	Adult <ul style="list-style-type: none"> • Last time A1c tested (if have diabetes) • Number of A1c tests in last year (if have diabetes) • Diagnosed diabetic retinopathy • Insulin use • Time from diagnosis to insulin use • Gaps in insulin use • Oral medication use • Injectable medication use
NSCH^	<ul style="list-style-type: none"> • Autoimmune disease diagnosis (i.e., type 1 diabetes, celiac or Juvenile Idiopathic Arthritis) • Diabetes (type 2) diagnosis 		
USRDS^	Overall and diabetes as primary cause: <ul style="list-style-type: none"> • ESRD incidence • ESRD prevalence • ESRD mortality 		Overall and diabetes as primary cause: <ul style="list-style-type: none"> • ESRD hospitalization rate
Vermont Department of Corrections (CorrecTek)	<ul style="list-style-type: none"> • Diabetes problem code 		<ul style="list-style-type: none"> • Diabetes problem code

Diabetes Specific Measures – External			
Data Source	Awareness and Promotion	Screening and Referral	Access and Utilization
VHCURES^		<ul style="list-style-type: none"> • Diabetes as cause of encounter (primary and contributing) • Type of care/medical service received • Amount paid • Diabetes-related prescription/durable medical equipment fills 	<ul style="list-style-type: none"> • Diabetes as cause of encounter • Type of care/medical service received • Amount paid • Diabetes-related prescription/durable medical equipment fills
VHIE^		<ul style="list-style-type: none"> • Clinical lab results (e.g., A1c) 	<ul style="list-style-type: none"> • Diabetes as cause for health care visit (primary or contributing) • Type of health care encounter

Appendix

Below all data sources mentioned in this inventory external to the Department of Health are listed along with their owner. For additional information on these data sources including survey tools, data access and documentation, click the data source link.

[All of Us Research Project \(All of Us\)](#) – National Institutes of Health (NIH)

[National Survey of Children's Health \(NSCH\)](#) – Centers for Disease Control and Prevention (CDC)

[National Health and Nutrition Examination Survey \(NHANES\)](#) – Centers for Disease Control and Prevention (CDC)

[National Health Interview Survey \(NHIS\)](#) – Centers for Disease Control and Prevention (CDC)

[Refugee Domestic Health Assessment \(DHA\)](#) – Vermont Agency of Human Services (AHS), Office of Refugee Resettlement

[Vermont Department of Corrections \(DOC\)](#) – Vermont Agency of Human Services (AHS), Department of Corrections

[Vermont Health Information Exchange \(VHIE\)](#) – [Vermont Information Technology Leaders \(VITL\)](#)

[Vermont Health Care Uniform Reporting and Evaluation System \(VHCURES\)](#) – Green Mountain Care Board (GMCB)

[United States Renal Data System \(USRDS\)](#) – National Institute of Diabetes and Digestive and Kidney Disease (NIDDK)