# Inventory and Analysis of Existing Vermont Health Data

## Final Report

Prepared for: Vermont Health Care Innovation Project 12/31/2015



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## 1.

# Introduction

#### 1.1.

#### Background

The Vermont Health Care Innovation Project's (VHCIP) 31-member Health Data Infrastructure (HDI) Work Group is responsible for providing funding and policy recommendations regarding the health information system and infrastructure necessary to support a high performing health care system. HDI's activities support the development of clinical, claims, and survey data systems to support alternative payment models. VHCIP is making strategic investments in clinical data systems to allow for passive quality measurement – reducing provider burden while ensuring accountability for health care quality – and to support real-time decision-making for clinicians. VHCIP is also working to strengthen Vermont's data infrastructure to support interoperability of claims and clinical data and predictive analytics.

One area that HDI Work Group wanted to better understand is the diversity of health data that is available in Vermont. Vermont does not currently have a health data or information repository or portal. Knowing where to find and access data for understanding the Vermont health landscape has been difficult. This project was initiated to provide a comprehensive health information data inventory that includes information from Vermont's disparate health information sources including formats, content, usage, and data collection methods. The purpose of the project is to provide the work group and others with a comprehensive and easily accessible health data inventory and to provide recommendations for health dataset and data systems improvement based on findings resulting from the project effort.

#### 1.2.

## Project Scope

While the goal of a Vermont Health Data Inventory is a unified data source for health care data, this project is just the first step in moving toward that goal. A unified data source would provide a gateway or portal to the diverse health data in Vermont. This includes many kinds of health related data: the all-payer claims dataset; health expenditures; clinical datasets; survey data; vital records; and epidemiologic data. It is the intent that this initial inventory project will inform this goal.

There were two specific tasks included in this scope of work:

- 1. Task 1: Data Source Discovery

  This task included identifying as many health data sets and data systems in Vermont as possible and creating a searchable web accessible inventory. This included working with other existing data inventory efforts and incorporating others work into this inventory.
- 2. Task 2: Detailed Inventory of High Priority Datasets



This task entailed prioritizing the datasets identified and conducting a detailed inventory of these datasets. The detailed inventory gathered additional information on organizational structure of the data, organizational costs, and documentation and metadata.

The deliverables of this scope of work included a final web searchable repository, findings, and recommendations for moving Vermont toward a comprehensive health data inventory. These recommendations are included in this report.

#### 1.3.

#### Formation of Steering Committee

A project steering committee was established at the start of the project and was assigned the following roles:

- 1. Provide input regarding priority data sources and datasets.
- 2. Provide input regarding critical data elements to capture in the data inventory.
- 3. Provide input on critical functionality for the Health Data Inventory Web Portal.
- 4. Provide feedback on potential web portal formats for the Health Data Inventory Web Portal.

The steering committee consisted of the following individuals:

- 1. Larry Sandage HIE Program Manager
- 2. Sarah Kinsler VHCIP Health Policy Analyst
- 3. Peggy Brozicevic VDH Research and Statistics Chief
- 4. Heather Skeels BiState Primary Care Associate Project Manager
- 5. Craig Benson AHS Director of Data Services
- 6. Bard Hill DAIL Information and Data Director
- 7. Jeff Ross DVHA Data Management and Analysis Director
- 8. Ena Backus GMCB Deputy Executive Director
- 9. Steve Maier HCR/HIT Integration Manager
- 10. Simone Rueschemeyer Vermont Care Network Executive Director
- 11. Mike DelTrecco VAHHS Vice President of Finance
- 12. Zach Sullivan GMCB Health Policy Analyst

In addition to gathering input from the steering committee throughout the project and through individual interviews, the committee met twice in January and in April 2015.

# 2.

# Data Source Discovery

The project team began the data source discovery process by brainstorming a list of primary health data organizations and their key data sources (Appendix A); defining what types of data and data attributes needed to be collected; creating a repository for conducting the inventory; web searching all the relevant possible sources on the web; and interviewing or emailing data source contacts to collect additional information.

#### 2.1.

#### Scope of Data Source Discovery

The team worked to identify key attributes to include in the initial inventory. In order to keep this phase manageable, the attributes were split into required attributes and then desired but optional attributes. The required attributes included:

- Dataset or Application Name
- Description
- Website for Information about the Data or a Link to the Data
- Organization or Agency that Owns the Data
- Data Steward Contact Name/Email/Phone
- Years Available
- Documentation Status: full current documentation, documented but not current, no documentation, not applicable
- Dataset Availability to Public: no access, aggregate report format only, aggregate digital format, public access with data use agreement, research data use agreement, record level data available
- Is Dataset Important to Payment and Delivery System Reform?

The desired/optional attributes included:

- Source Dataset: Is there another source of data that this data is generated from?
- Format that the Data is Stored or Managed: SQL Server, MS Access, MS Excel, Other DB Format, Unknown
- In What Format is the Data Available? No access/publication, Web Application Restricted Access, Web Application Public Access, MS Access, MS Excel, CSV, Report



- Data User / Audience: Legislators, Advocates, Policy makers, Practitioners, Public
- Type of Data: Claim, Clinical, Coverage, Employee Benefits, Employment and Wages, Financial, Income, Inspection, Licensing, Occupancy/Days, Population, Provider Information, Reference, Services Provided, Surveillance, Survey, Utilization, Workforce
- Use Restriction Details
- Special Request Possible, Contact and Cost Information

Once the scope of the data collection was established, a web accessible database was required to add the information.

#### 2.2.

#### Establish Web Accessible Data Repository

In order to capture all of the information captured in the initial data source discovery, Stone developed a web accessible database using an on-line database application builder called Knack (https://www.knackhq.com/). Using the Knack application builder, a Health Data Inventory Database was designed to store health data organization and agency information, datasets of interest and appropriate contact information, and example health data portals. The dataset attributes defined in section 2.1 above were included in the database design. Logins were created to allow data owners to add new data or edit existing data. Stone provided all steering committee members with a login and steering committee members were asked to review the information in the database.

#### 2.3.

## Web Research of Health Organization Web Sites

Stone conducted extensive web research and identified health datasets and data sources and entered them into the Knack Health Data Inventory Database.

The Vermont Department of Health website table of contents was downloaded from the VDH website and imported into the Knack database. Each of these web links were reviewed for possible datasets and appropriate records were entered into the Knack database. Other AHS Department and Division websites were reviewed including Department of Children and Families, Department of Disabilities, Aging and Independent Living (DAIL), Department of Corrections, and Department of Mental Health. For a complete list of organizations and agencies included please see Appendix B.

This provided a starting point for contacting data owners and conducting interviews.

#### 2.4.

## Interviews and Direct Correspondence

In addition to the web searches and email correspondences conducted, the project team interviewed many data stewards to gather information on organization datasets and data systems. Interviews started with the steering committee and additional interviews and correspondence were made based on steering committee



feedback. The table below lists interviews held with key data stewards (not all correspondence is captured in the table below).

Table 1. Interviews conducted during data source discovery.

Name	Organization	Date
Heidi Klein	VDH	1/29/2015 & 3/20/15
Dick Laverty	DAIL	2/24/2015
Zack Sullivan	GMCB	3/4/2015
Simone Rueschemeyer	VCN	3/10/2015
Ken Gingras	VCN	3/10/15
Rich McCoy	VDH	3/12/2015
Mike DelTrecco	VAHHS	3/18/2015
Heidi Klein	VDH	1/29/15 & 3/20/2015
Peggy Brozicevic	VDH	3/24/2015
Steve Maier	DVHA	3/30/2015
Jeff Ross	DVHA	4/2/2015
Craig Benson	AHS	4/3/2015
Rob Lowe	AHS	4/6/2015
Tim Tremblay	Vermont Blueprint for Health	4/7/2015
Lynn Raymond-Empey	VCCU	4/8/2015
Catherine Fulton	VPQHC	4/8/2015
Dian Kahn	GMCB	4/13/2015
Heather Skeels	BiState	4/15/2015
Alicia Cooper and Richard Slusky	DVHA	4/23/2015
Mike Gagnon	VITL	5/18/2015

#### 2.5.

#### Coordination with Other Inventory Projects

At the start of the project, it was identified that there were several other ongoing projects with similar objectives sponsored by the State of Vermont. In order to minimize requests of State of Vermont staff, Stone coordinated efforts with other projects.

#### 2.5.1. AHS Application Portfolio Project

The Vermont Agency of Human Services (AHS) has a full-time Application Portfolio Management Director. Stone worked with Rob Lowe at AHS to integrate their database inventory of AHS applications into the Health Data Inventory. The AHS application portfolio project is an ongoing project and at the time Stone received their database, they were still awaiting information from the Department of Health.



AHS provided Stone with an export from their Access database containing the following attributes:

- Application name
- Application status
- Number of licenses
- Business owner
- Vendor implementation
- Business programs supported
- In-house development/M&O
- DBMS
- Integrated data feeds
- Developer documentation
- Data model

- Application full name
- Divisions served
- Additional general notes
- Business lead
- Business description
- Business goal
- Technical description
- Integrated systems
- Architectural diagrams
- User manual

The contents of the AHS portfolio were reviewed and relevant and complete records were imported to the VHCIP Data inventory. Many of the portfolio dataset records included incomplete and were not imported to the Knack Health Data Inventory.

#### 2.5.2. MMIS Project – Specialized Project Program (SSP)

Stone worked with the MMIS Project contractor, Pacific Health Policy Group, to coordinate data inventory efforts. Stone received their inventory of SSP Data Reporting Systems and cross-referenced the inventory with the VHCIP Data Inventory. This SSP inventory included the following information for data systems:

- Data system or Reporting System Name
- Description of Data System
- Agency and Division or Program
- Agency contact
- Functions

This list was cross referenced and data systems were added to the VHCIP Health Data Inventory.

#### 2.6.

#### **Initial Data Inventory Summary**

In total we inventoried 256 databases, data reports, and systems. They came from 30 different organizations and 37 departments. Over 139 unique individual contacts are in the data inventory.

A summary listing of all inventory items is contained in Appendix C.



Table 2 contains information about whether the data is available to the public. Table 3 contains the inventory summary by Type of Data Collected. Table 4 contains the inventory summary by Data Output Formats.

Table 2. Is the dataset available to the po	ublic?	
	Count	%
Aggregate data only	52	20%
With Public Use Agreemnt	5	2%
No	140	55%
Research data use agreement possible	2	1%
Unknown/Uncertain	47	18%
Yes	10	4%
Total	256	100%

Table 4. Data Output Format *		
	Count	%
No Access / No Publication	6	2%
SQL Server	1	0%
Web Application - Public	17	6%
Web Application - Restricted Access	17	6%
MS Excel	9	3%
Report (PDF, Word)	39	15%
Other db format	1	0%
CSV - Comma Separated Text File	9	3%
Unknown	168	63%
Total	267	100%

<sup>\*</sup> More than 1 Data Output Format Possible

	Count	%
Claim	12	6%
Clinical	50	25%
Coverage	8	4%
Employee Benefits	1	0%
Employment and Wages	11	5%
Financial	45	22%
Income	4	2%
Inspection	6	3%
Licensing	10	5%
Occupancy/Days	2	1%
Population	54	27%
Provider Information	19	9%
Reference	4	2%
Services Provided	38	19%
Surveillance	8	4%
Survey	37	18%
Utilization	10	5%
Workforce	12	6%
Youth	26	13%
Unknown	49	24%
Total	203	100%

# 3.

# **Detailed Inventory**

The detailed inventory phase of the project included development of prioritization criteria, prioritization of the initial datasets, identification of the highest priority datasets, and a collecting detailed dataset information. The steering committee decided what constituted a priority.

#### 3.1.

#### **Dataset Prioritization**

The project scope of work stated that the general prioritization of datasets should start with claims, then clinical, and lastly survey data and be potentially useful for payment and delivery system reform.

The following additional factors were considered when prioritizing datasets:

- 1. Availability: Datasets available by download or request are more desirable than data fully restricted by law.
- 2. Data Content: Datasets available at the "raw" record level are more desirable than aggregate data.
- 3. Focus: The list of priority datasets should contain at least 1 dataset where the focus is:
  - i. Clinical data
  - ii. Payment data
  - iii. Populations / denominator
    - 1. Counts
    - 2. Characteristics
    - 3. Determinants
  - b. Lower priority
    - i. Disease-specific
    - ii. Other single-purpose
- 4. Comprehensive: Higher priority datasets will represent all Vermont residents or all Vermont providers, as opposed to a subset. Vermont residents or providers could be represented by a sample.
- 5. Time: Data that is collected on an ongoing basis or over multiple years is preferable to those datasets that represent a snap shot in time.
- 6. Metadata: Fully documented datasets will be prioritized higher than those datasets lacking documentation.

The project team reviewed the data inventory and identified 30 datasets of potential interest for including in the detailed inventory. The steering committee was invited to review the 30 datasets and evaluate them based



on the above criteria. A Google spreadsheet was created and a the criteria for each of the datasets were scored on a 1 to 3 scale where 1 was a low ranking and 3 was a high ranking. The individual criteria rankings were summed in order to identify those datasets with the highest overall ranking.

#### 3.2.

## **High Priority Datasets**

The result of the prioritization is shown in the Table 2 below. Late in the project, it was determined that DocSite should also be included in the detailed inventory as the application is being taken over by Vermont Blueprint for Health.

Table 5. Prioritization of Datasets

	PRIORITIZATION C 1 = Low Ranking, 2 = Mid Ra			g, ? = Unkno	wn							
Organization/Agency	Dataset name	Does the dataset serve multiple purposes ?	In MMIS Inventory? / Priority?	Category: Financial, Clinical, Workforce, Determinant, Population	Related to Payment Reform	Availability by Download or Request	Data Content - Record Level vs Aggregate	Broad focus - not single purpose	Comprehens ive - All population rather than subset	Fully documented	Ongoing collection or multiple years	RANKING SUM
	Vermont Uniform Hospital											
B (11111-(1110)	Discharge Data Set (VUHDDS)			_	_	_		_	_	_		
1 Department of Health (AHS)	Public Use Files	Υ	N	С	2	3	3	3	2		3	1
2 Division of Health Surveillance	Immunization Registry - IMR			С	3	2	3	3	3			1
3 VITL - VT HIE Network	VHIE/Medicity	Υ	N	С	3		3	_	_			
4 Division of Health Surveillance	Vital Records	Υ	Y/2	С	2	1	3	2	3	3	3	1
	Behavioral Risk Factor Surveillance System (BRFSS)											
5 Department of Health (AHS)	and Youth Risk Behavior Survey	Υ	N	CD	2	2	2	3	2	3	3	1
Green Mountain Care Board 6 (GMCB)	VHCURES	Υ	N	CFp	3	2	3	3	2	2	3	1
AHS/DVHA - Blueprint for 7 Health Program	Blueprint for Health Analytics Dataset	Υ	N	CFW	3	1	3	3	3	2	2	1
Department of Financial 8 Regulation	Household Health Insurance Survey (VHHIS)	Y	N	D,p	2	3	3	3	3	3	3	2
Green Mountain Care Board 9 (GMCB)	Expenditure Analysis	Y	N	F	3	3	2	1	3	3	3	1
Green Mountain Care Board 10 (GMCB)	Hospital Budget Data	Y	N	F	3	3	2	2	2	2	3	1
Secretary of State - Office of 11 Professional Regulation	Vermont Professional License Database / Online Lookup	v	N	w	3	3	3	2	2	3		1
AHS/DVHA - Blueprint for	Blueprint for Health Practice and	T	IN	VV	3	3	3	2	2	3	3	1
12 Health Program	Provider Database (Portal)	Y	N	w	3	2	3	2	2	3	3	1
13 Division of Health Surveillance		Υ	N	w	2	_	1	2	_	_	_	
These fell out based on lower i					_			_				
AHS/DVHA - Blueprint for	lanking											
14 Health Program	DocSite Clinical Data Repository	Υ	Y/2	С	3	1	2	3	2	3	2	1
AHS/DVHA - Blueprint for 15 Health Program	Medical Assistance Provider Incentive Repository - MAPIR	maybe	N	w	3	1	3	2	2	. 3	2	1
18 Department of Labor	Vermont Employment and Wage Data	у	N	WD	2	3	1	2	3	2	3	1
Bi-State Primary Care 19 Association	SAFTINet	Y potential	N	С	2	1	3	3	2	! 1	2	1
AHS/DVHA - Blueprint for 20 Health Program	CAHPS Patient Experience Survey	N		Р	2	2	1	1	2	. 3	1	1
22 Department of Education	Drop out and high school completion rates	Υ	N	D	2	3	1	2	2	. 3	3	1
23 Department of Education	Lunch Free and Reduced Eligibility Reports	Υ	N	D	2	3	1	2	2	. 3	3	1
24 Department of Education	Post Secondary Enrollment	Υ	N	D	2	3	1	2	2	3	3	
26 Department of Health (AHS)	Youth Risk Behavior Survey	Υ		CD	2	3	1	3	3	3		
27 Department of Health (AHS)	Healthy Vermonters 2020	Y		155	2	3	1	3	3			
Department of Vermont Health Access (AHS DVHA)	MMIS	Y		c	3	2	3	3	1	3		

#### 3.3.

### High Priority Dataset Detailed Inventory

An additional set of questions was developed that built on the initial dataset inventory. A detailed inventory form was created in the Knack database and all high priority dataset owners were contacted and/or interviewed and asked to complete the detailed inventory for their datasets. The complete detailed inventory is provided in Appendix D.

Seven of the 16 datasets included in the detailed inventory are Vermont Department of Health (VDH) datasets (counting vital records as 1 although each of the vital records systems are recorded separately); three are from the Blueprint for Health; three from the Green Mountain Care Board (GMCB); two are VITL datasets; and one dataset from the Vermont Secretary of State.

The following sections highlight some of the findings from the detailed inventory. The datasets are listed in the order of priority as determined in section 3.2. Note that the vital records data is listed 3 times; once for each of the separate systems.

#### 3.4.

#### Availability and Documentation

Table 6 summarizes when data has been collected, if it is available, how it is available, what types of restrictions there are, and the status of the documentation or metadata. One of the most important finding of the project is how little documentation is available on most datasets, even the highest priority datasets.

Only half of the 16 datasets have complete or nearly complete documentation. Vital records is the only dataset with no documentation at all. Documentation that is available, is available in a variety of formats but in general is made available with the data.

The data output formats of these datasets vary widely and include report PDF format, MS Excel or CSV (text) format, or via web application. The most accessible format for most of the available datasets is in PDF report format (9 of 16 datasets). Six of the 16 datasets are available via either a website digital download or a web application but primarily at an aggregate level. The Vermont Uniform Hospital Discharge Dataset (VUHDDS) data, the Household Health Insurance Survey (VHHIS) data, and the Licensure data are available for download at the record level (deidentified). Another four datasets are available digitally by request.



Table 6. Summary of Availability and Documentation for High Priority Datasets

			available to the		Type of Use		
Dataset name	Organization	Years collected	public?	Data output format	Restriction	Metadata	Metadata Format
Vermont Uniform Hospital Discharge Data Set (VUHDDS)	VDH	2002-2012 (ongoing)	Record level data available (deidentified)	CSV Text via website download	HIPAA		Packaged with data
Immunization Registry - IMR	VDH	2004 - present (ongoing)	Individuals may request personal record; Aggregate data otherwise	PDF Data briefs; Summary data upon request; Restricted web application	HIPAA, State Statute	Complete	Data Dictionary; User Manual; IMR Limitations Document
VHIE/Medicity - Clinical Dataseth - Outlook	VITL	2010 - present (ongoing)	Data available to public with data use agreement	Restricted web application	HIPAA	Incomplete	Packaged with data
Vital Records - Birth (EBRS)	VDH	1980 - present (ongoing)	Certificates; De- identified record level medical info	certificates; aggregate through VDH Instant	HIPAA, VT laws	Health Statistics	NA
Vital Records - Death (EDRS)	VDH	1985 - present (ongoing)	Cerificates; Record level except SSN	Atlas App; Annual report	HIPAA, VT laws	Available from CDC National Center for Health Statistics	NA
Vital Records - (Marriage, Divorce, Civil Unions, Dissolutions, ITOPs, and Fetal Deaths)	VDH	Marriages and Divorces:1989 - present (ongoing); Civil Unions 2000 - 2009; Dissolutions 2001-present (ongoing); ITOPs and Fetal Deaths 1989 - present	Certificates and record level except confidentials; ITOPs and Fetal Deaths: aggregate data only	Certificates;Annual reports and summary data on request	VT laws	None	NA
Behavioral Risk Factor Surveillance System (BRFSS)	VDH	1990-2013 (ongoing)	Aggregate data only, report format	Web Application – Public at CDC	Record Level Data is "de- identified"	Yes: Code Book; Data User Notes	Electronic
VHCURES	GMCB	2007 - present (ongoing)	Data Use Agreement	NR	Agency DUA, HIPAA	Incomplete	NA
Blueprint for Health Analytics Dataset	Blueprint / DVHA	2007 - present (ongoing)	No access to data	Report (PDF, Word)	Agency DUA, Agency	Incomplete	NA
Household Health Insurance Survey (VHHIS)	VDH	2005, 2008, 2009, 2012, 2014, ongoing	Aggregate data only, report format	CSV Text by website download, Report (PDF, Word)	Agency restriction, HIPAA	Incomplete	Available by Download, Packaged with data
Expenditure Analysis	GMCB	1992-present (ongoing)	Aggregate data only, digital format	MS Excel, Report (PDF, Word)	None	Needs review	Hard copy available
Hospital Budget Data	GMCB	1988 - present (ongoing)	Aggregate data only, digital format	MS Excel, Report (PDF, Word)	None	Complete	On disk, file available
Vermont Professional License Database	Office of Prof. Reg, Secretary of State	2009 -present (ongoing)	Record level for public	Web Inquiry	None Complete		On Web
Blueprint for Health Practice and Provider Database (Portal)	Blueprint / DVHA	2014 - present (ongoing)	No access to data	Web Application - Restricted Access	' ( omplete		Hard copy available
Health Care Provider Surveys	VDH	select years between 1979 and 2012	Aggregate data only, report format	SAS or MS Excel by request, Report (PDF, Word)	Agency restriction	Incomplete	Available by Download, Packaged with data
VHIE Analytical Dataset	VITL	2010- present (ongoing)	No public access to data; Data Use Agreement	DB	HIPAA	Incomplete	NA
DocSite Clinical Data Repository	Blueprint / DVHA	2010 - present (ongoing)	No public access to data (Providers only)	Reports (Providers only)	HIPAA	Incomplete	NA
Youth Risk Behavior Survey	VDH	every 2 years since 1993 (ongoing)	Yes, record level data available`to public	Web Application - Public, Report (PDF, Word)	Agency restriction, HIPAA	Complete	On disk, file available

NR=No Response, NA=Not applicable, DUA=Data use agreement

#### 3.5.

### Operational Cost Comparison

Data owners were asked to provide operational cost and funding information on the high priority datasets. Some respondents included the FTE costs in their operational costs, while others did not. This detailed information is provided where it is available. Table 7 provides the operational costs of the high priority datasets.

Acquisition costs were difficult to capture since the systems for collecting data are often used by the contractor collecting the data (i.e. Household Health Insurance Survey (VHHIS) and Youth Risk Behavior Survey (YRBS)). Yearly operational and management costs were somewhat easier to capture. Of the 16 priority datasets, 11 of them cost over \$100,000 in annual operation and maintenance costs and 5 of these 11 have costs over \$1,000,000. Only the GMCB Expenditure Analysis dataset, Hospital Budget dataset, and Blueprint's Practice and Provider Database application have annual costs under \$50,000.

The Immunization Registry, VDH Healthcare Provider Surveys, and the Youth Risk Behavior Survey all receive 90% or greater of their funding from Federal funds. While the Household Health Insurance Survey receives 100% of its funding from the state of Vermont, followed by the vital records system at 66%.

VITL's VHIE, the Immunization Registry, the Vital Records systems, and the Blueprint's Practice and Provider database application all require 5 or more FTEs to maintain the system and/or data.



Table 7. Operational Cost comparison of high priority datasets

Dataset Name	Organization	Acquisition Cost	Operations and Management Cost*	FTE	Funding -% Federal	Funding: % State	Funding: % Private	Funding: % Other
Vermont Uniform Hospital Discharge Data Set (VUHDDS) Public Use Files	VDH	NR (Need to request from GMCB)	VDH portion \$125,000 (includes 1 FTE) / GMCB costs not included	1	67%	33%	0%	0%
Immunization Registry - IMR	VDH	\$3,500,000 over 5 years	\$1,200,000 (\$232,000 subcontract; \$968,000 7.4 FTE)	7.4	95%	5%	0%	0%
VHIE/Medicity - Clinical Dataset	VITL	\$ 25,000,000	\$5,000,000	>5	50%	40%	10%	0%
Vital Records - Birth (EBRS)	VDH	\$ 2,500,000	\$75,000 (excluding FTE)		35%	65%	0%	0%
Vital Records - Death (EDRS)	VDH	\$ 4,000,000	\$150,000 (excluding FTE)	8.5 for Vital	35%	65%	0%	0%
Vital Records - (Marriage, Divorce, Civil Unions, Dissolutions, ITOPs, and Fetal Deaths)	VDH	\$ 100,000	\$25,000 (excluding FTE)	Records Program	35%	65%	0%	0%
Behavioral Risk Factor Surveillance System (BRFSS)	VDH	\$10,000- \$50,000	\$497,000 (\$287,000 subcontract; \$210,000 1.5 FTE)	2	65%	35%	0%	0%
VHCURES	GMCB	NR	NR	NR	67%	13%	20%	0%
Blueprint for Health Analytics Dataset	Blueprint / DVHA	NA	\$1,000,000 (subcontract)	NA	66% (HIT Fund)	44% (HIT Fund)	0%	0%
Household Health Insurance Survey (VHHIS)	VDH	~\$5,000	\$441,000 (\$300,000 subcontract; \$141,000 FTE)	1	0%	100%	0%	0%
Expenditure Analysis	GMCB	\$107,000	\$31,000	2	60%	13%	20%	7% Global Commitment (Matched Medicaid Funds)
Hospital Budget Data	GMCB	\$107,000	\$31,000	3	60%	40%	0%	0%
Vermont Professional License Database	Office of Prof. Reg, Secretary of State	\$600,000	\$120,000	NR	0%	0%	0%	0%
Blueprint for Health Practice and Provider Database (Portal)	Blueprint / DVHA	\$112,000	\$20,000 (hosting and security testing)	>5	66% (HIT Fund)	44% (HIT Fund)	0%	0%
Health Care Provider Surveys (Census)	VDH	\$24,500	\$278,000 (\$267,500 for 2.25 FTE)	2.25	90%	10%	0%	0%
VHIE Analytical Dataset	VITL	\$2,000,000	\$1,000,000	3	50%	40%	10%	0%
DocSite Clinical Data Repository	Blueprint / DVHA	\$1,000,000	\$1,500,000	NA	66% (HIT Fund)	44% (HIT Fund)	0%	0%
Youth Risk Behavior Survey	VDH	System is maintained by contractor for data management	\$128,000 (\$68,000 subcontract; \$60,000 FTE)	1	95%	5%	0%	0%

NR = No response, NA = Not available \*Some responses include FTE costs and others do not, detailed info provided when available



# 4. Data Portal Options

In addition to providing this initial Health Data Inventory effort in a web accessible, searchable format, the project team was tasked with researching existing options and providing recommendations for the future of a Vermont Health Data Inventory Portal.

#### 4.1.

#### Review of Existing Health Data Portals

Stone reviewed existing State Health data portals and general data portals in order to evaluate which type of systems are used and to determine what may be appropriate for the State of Vermont. This information was captured in an interactive map displaying which states maintain health data portals and general data portals and imported to the Knack Health Data Inventory Application. This link <a href="https://stone.knackhq.com/health-inventory#examplehealthdataportals/">https://stone.knackhq.com/health-inventory#examplehealthdataportals/</a> provides access directly to each state's portal.

Health Data Portals in the United States

Click on a State to Access its Data Portal

No Data Portals
One Data Portal; Health or General Health and General Data Portals

Figure 1. Interactive map displaying health data portals in the United States.

Stone researched and compared the different state health data portal solutions.



Approximately 30 states have a web-based data portal with general state data and/or health data. In reviewing the different options used in other states it became clear that there are few options. Many states are using a commercial product call Socrata. Socrata is a privately held software company that provides a cloud-based solution to creating an open data portal for an annual license fee. Other states and the Federal government are using an open source version of this call CKAN. While CKAN may take somewhat more upfront development time, benefits include easier configuration.

#### 4.2.

#### Vermont Health Data Portal Options

In 2014, Vermont's Department of Information and Innovation (DII) purchased a 5 year license for Socrata and launched a small pilot project to develop an Open Data Portal. The portal is now available to agencies to host public data. The current portal contains the default settings and has not been configured based on Vermont's needs.

DII added a "Health" category at the request of this project in November 2015, but additional configuration to capture dataset attributes currently in the Knack Health Data Inventory is not currently possible. The Health Data Inventory created for this project will be imported as a single dataset to Vermont's Open Data Portal. In addition, individual datasets will be selected for inclusion in the Open Data Portal in a downloadable format once approval is obtained from data owners.

The success of Vermont's Open Data Portal will require an organized initiative to move the state toward an open data infrastructure and mindset. This initiative will need to include resources and staffing for maintaining a health data inventory and publicly available health datasets. Vermont should continue to evaluate the best solution to an Open Data Portal while it focuses on how to move Vermont's health data organizations to a more open data framework.



# 5.

# Recommendations and Summary Findings

During the course of the data collection, interviews, and meetings with Work Group members, there was universal interest in improving the collection, management and access to health data. The idea of a shared health information system, network, or repository was not a common interest on the part of the individuals interviewed. We found that there was focused interest primarily on an individual's data stewardship responsibilities. The project team has developed the following recommendations and finding based on our assessment of what we found in compiling the inventory and in talking to the many participants in the Vermont health data community. Our recommendations are broken out into three areas: organizational; system; and data quality, documentation, and analytics.

#### 5.1.

#### Organizational Recommendations

- 1. Vermont needs enabling legislation and policies to support health data collaboration, accessibility, and adoption of data standards.
  - There are many overlapping systems and data collection efforts without overall standards for coding systems or field names.
- 2. Vermont needs a single health data organization responsible for overseeing/coordinating health data systems; development of data standards; and information technology.
  - There is no overarching organizational responsibility for the coordinating/overseeing health data collection, harmonization, transparency, and access to Vermont's health data and information.
  - There are many related but un-coordinated data collection efforts. Examples include BRFSS and VHHIS; VHDDS and VHCURES;
  - There are numerous single purpose databases that have been developed using the software that the dataset's data manager is most comfortable with.
  - Some data systems focus on care provided in Vermont, regardless of patient residence while others focus on care received by Vermonters, regardless of location of providers. The first type includes primarily clinical data, while the second type includes primarily financial. These sources should be integrated.
- 3. Management of new, large, overarching data systems should be managed or coordinated with adequate staffing and expertise.



- One reason VHCURES 2.0 Project was put on hold because an independent consultant review determined that there was insufficient staff to oversee and manage the new contract.
- The Vermont Auditor's April 2015 Report Vermont Health Connect Future Improvement Contingent on Successful System Development Project found that "The State's IT governance and project management approach to the original VHC project has been identified as a contributing factor to the system's subsequent shortcomings. Specifically, an August 2014 IT assessment concluded that (1) the State lacked project ownership and CGI lacked accountability due at least in part to weaknesses in the project's governance structure and processes and (2) project management processes did not align with industry best practices and were insufficient or ineffective." P.15
- 4. There is reluctance to shift to new and unknown systems because adequate staffing and expertise is not always available. Vermont Health Data Professionals and Health Program Managers should attend national health information conferences on an annual basis.
  - The National Health Datapalooza and the Esri Health and Human Services GIS Conference are excellent conferences that provide a wealth of information and networking opportunities. Attendance at these conferences would be beneficial for State data managers and IT professionals.

#### 5.2.

#### System Recommendations

- 5. Vermont should consider teaming with other states in the development of new large/complex data systems.
  - The State's experiences with VHCURES 2.0 and Vermont Health Connect point to a need investigating collaboration/teaming with other states/partners to not only take advantage of potential cost savings, but also address the need for additional specialized staff resources which are difficult to find and retain.
- 6. The focus of health data systems should be to support end user needs—the public, the providers, the payers, or state staff members.
  - A tremendous amount of effort is put in specifications for acquiring technology and software with insufficient focus on end users. Creating large information systems that do not include simple data extraction tools is very expensive. For example, getting data extracts from VHCURES requires the contractor to run special queries to get subset data tables. This was issue was going to be addressed in VHCURES V.2.
  - New health information systems are in development and legacy information systems are now being replaced without the full emphasis on end users—this includes government, health providers, and the public.
- 7. Health data and information systems need to be holistic, harmonized and comparable across and within organizations.



- Many siloed efforts at developing new health information systems (MMIS, Mental Health, etc.).
- The VHCURES and Hospital Discharge Dataset are not integrated. The ability to link these sources would be valuable in several ways, including data validation (ability to match records, comparison of key field values such as payer, diagnosis, and DRG) and supplementing VHCURES to gain a more complete picture of Vermont hospital activities (VHCURES does not include self-pay or care provided to non-residents).
- Many Vermont health data sets are currently stored in spreadsheets. Generally, these are snapshots, and risk increased data corruption and poor quality control.
- 8. If Vermont chooses to use Socrata software as the repository for the Health Data Portal, Vermont Department of Information and Innovation (DII) will need to modify and customize it to make detailed access to health data information available to the public. The other option would be to borrow and adopt the open source Federal HealthData.gov's CKAN version for a state portal.
  - DII has purchased a five—year license to Socrata, a commercial software for the State's solution for a statewide data portal for all state data and information (<a href="https://data.vermont.gov/">https://data.vermont.gov/</a>). Currently there is limited State use of Socrata and limited guidance for its use. It is in need of customization in order to include more information about available data and to be truly useful as a data portal
  - The Knack database (<a href="https://stone.knackhq.com/health-inventory">https://stone.knackhq.com/health-inventory</a>) used to inventory the health data for this project contains many more data fields than are currently available in the Vermont DII Socrata offering. Socrata needs to be modified if it is to a useful data portal.
- 9. Vermont should develop a requirement that State Health Organizations enter and keep up to date information of their data records and systems.
  - The initial guidance on Socrata does not require state organizations to post their databases or reports onto the site or maintain the information listed on the site.

#### 5.3.

### Data Quality, Documentation, and Analytics Recommendations

- 10. Building Quality Control into all data systems is essential function to ensure that the analyses that result from the use of the data is credible.
  - There is limited quality control on major health data sources. For example, while there are numerous edits on VHCURES data, substantial data issues remain. Some payers (Blue Cross, Medicaid) are sufficiently skeptical of VHCURES that they provided data directly to the state for calculation of ACO shared savings performance. Specific examples of issues include claims with paid dates prior to service dates, coding of secondary payments, missing provider names in Medicare data, and inability to unify individuals into provider groups. There is no mechanism to discuss data issues with providers.
- 11. There has to be a state mandate to maintain systems/reporting/documentation.



- There are few standards related to global practices related to data compilation, storage, and metadata.
- 12. Vermont should adopt common codes for critical elements of each health database, including Health Provider ID, Patient ID, Geography, Addresses, etc.
  - Each health data organization (government and private) has developed their own method for coding of standard information. A consistent coding system would make matching or linking of system data easier.
- 13. All health data sets, both source and derived, need complete metadata defined using a common set of metadata standards.
  - Very few datasets and datasets referenced in reports have complete metadata.
  - Few datasets have any metadata.
- 14. Consistent with privacy requirements, health data should be open, available, and downloadable in a single searchable data repository.
  - Examples:
    - We completed a survey of all 50 states and found a number of states with systems that have open, available, and downloadable data:
      - HealthData.gov <a href="http://www.healthdata.gov/">http://www.healthdata.gov/</a> This is the open data portal of the U.S Health and Human Services Agency, developed using CKAN an open source platform. The data available on this website is downloadable, machine readable, and accessible to application developers through an application programming interface (API).
      - CHHS Open Data <a href="https://chhs.data.ca.gov/">https://chhs.data.ca.gov/</a> The open data portal for the California Health and Human Services agency was developed with Socrata. (New York uses the same platform <a href="https://health.data.ny.gov/">https://health.data.ny.gov/</a>)
      - RI Data Hub <a href="http://ridatahub.org/">http://ridatahub.org/</a>- Rhode Island is an example of a small state making their data publicly available. They have developed their portal with the open source platform "Weave" developed by the Open Indicators Consortium.
      - CO Medical Price Compare-<a href="https://www.comedprice.org">https://www.comedprice.org</a> Colorado has developed an interface to query the CO All Payer Claims Database. The goal of the website is to provide "transparent price, quality, cost of care, and utilization information across Colorado." (https://www.comedprice.org).
      - Census Bureau <u>www.Census.gov</u> The Census Bureau has an extensive web site that employs various applications for accessing data.
  - Data that is available in Vermont is most often available only in reports in PDF format.
  - Data that should be publicly available is often not available in any format.
  - Existing tools are siloed individual applications with data that cannot be easily combined with data from other tools (for example, Health Vermonters 2020 tool).



- 15. Simple Universal Database Tools are needed to extract, analyze and combine critical clinical and claims datasets
  - Extraction from these datasets is generally done on an ad-hoc basis and matching is done over and over again
  - Data request are now costly both in time and human resource demands.
  - Data formats provided are not always usable without further manipulation.
- 16. Vermont should embrace GIS technology as an enabling and analytical tool for better spatial understanding of clinical, population, and financial health data.
  - There is very limited use of GIS Technology to improve spatial understanding and analyses of the existing data resources.
- 17. Products that are the result of using extracts from the state's large databases, such as VHCURES, are not generally accessible. There is no clearinghouse to make this information available.
  - GMCB manages the list of Data Use Agreements for the use of VHCURES data. The list of users indicates the purpose that they are using the data. There is no repository or requirement that the state have the results of these efforts.

# Appendix A: Initial Brainstorming of Organizations and Data Sources



# **Brainstorm of Possible Organizations with Health Data**

				Department of													
	DVHA -	Department of Vermont		Disabilities, Aging and		Department for Children	Green Mountain	Department				Depart-		Agency of			
Department of Health	Blueprint Program	Health Access	Department of Mental Health	Living	Corrections	(DCF)	Care Board (GMCB)	of Financial Regulation	VITL	Department of Labor	Agency of Education	ment of Taxes	Secretary of State	tion	University of Vermont	Payers	Independent
Asthma Call Back Survey (ACBS)	Blueprint Provider		Montai Hoaith	Living		Integrated Eligibility	_ ` /	Household Health		Employee Benefits		Tuxoo			AHEC	BCBS	Vermont Child Health
	Database						Analysis	Insurance Survey (VHHIS)		Survey			Registration				
Adult Tobacco Survey		MAPIR				ACCESS		Insurance Rate Filings	Medicity	Workman's Comp and Tax Data			Medical Practice Board		Consumer Assessment of	MVP	VGIS
Asthma Surveillance		MMIS					VHCURES								Healthcare Providers and	CIGNA	Saftinet
Behavioral Risk Factor Surveillance System (BRFSS)															Systems (CAHPS)		MGMA
Breastfeeding Friendly Employers																	VPQHC
Critical Congenital Heart Disease Newborn Screening																	VAHHS
Food and Lodging Inspection Report																	VCCU
Health Care Provider Surveys																	
Health Vermont 2020																	
HIV Name-Based Reporting																	
HIV Surveillance																	
Immunization Registry - IMR																	
Lead Poisoning Reports																	
Newborn Hearing Screening																	
Pediatric Nutrition Surveillance																	
PRAMS via CPONDER CDC query tool																	
Pregnancy Risk Assessment Monitoring System (PRAMS)																	
Vermont Advance Directives Registry																	
(VADR)																	
Vermont Cancer Registry																	
Vermont Electronic Death Registration System (EDRS) Vermont Hospital Utilization Reports																	
(VHUR) Vermont Prescription Monitoring System																	
(VPMS) Vermont Tracking - Environmental and																	
Public Health Data Query Tool Vermont Uniform Hospital Discharge Data																	
Set (VUHDDS) Public Use Files Vermont Young Adult Survey																	
Vital Records VT Licensed Health Care Professionals																	
Data Repository Youth Health Survey																	
Youth Risk Behavior Survey																	
National Survey on Drug Use and Health																	
Vermont Data New Directions Evaluation Documents																	
Student Assistance Program Data and																	
Reports Substanc Abuse Assessment & Epidemiological Profile																	
Hospital Report Card Web Tool																	
Vermont Treatment Data																	

# Appendix B: Organizations Included in Vermont Health Data Inventory

Agency or Organization (Agency Department or Division Name when appropriate)	Dataset Count
Agency of Human Services	4
AHS Division of Rate setting / Division of Rate setting	1
America's Health Rankings, United Health Group	1
Bi-State Primary Care Association	1
Blue Cross Blue Shield of Vermont	1
Center for Disease Control (CDC) (Federal)	6
Centers for Medicare and Medicaid Services (CMS)	7
Community Health Accountable Care	1
Department for Children and Families (DCF)	22
Department for Children and Families (DCF) / Economic Services	2
Department of Corrections (AHS)	1
Department of Disabilities, Aging and Independent Living (DAIL)	15
Department of Disabilities, Aging and Independent Living (DAIL) / Business Office	2
Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Aging Services	13
Department of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Protection	5
Department of Education	3
Department of Financial Regulation	1
Department of Health (AHS)	24
Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	16
Department of Health (AHS) / Division of Environmental Health	4
Department of Health (AHS) / Division of Health Promotion and Disease Prevention	4
Department of Health (AHS) / Division of Health Surveillance	29
Department of Health (AHS) / Division of Maternal and Child Health	6
Department of Health (AHS) / Medical Practice Board	1

Agency or Organization (Agency Department or Division Name when appropriate)	Dataset Count
Department of Labor	2
Department of Mental Health	17
Department of Taxes	1
Department of Vermont Health Access (AHS DVHA)	22
Department of Vermont Health Access (DVHA) / Blueprint for Health Program	14
Green Mountain Care Board (GMCB)	8
Health Resources and Services Administration (HRSA)	1
MVP	1
Robert Wood Johnson Foundation	1
Secretary of State - Office of Professional Regulation	2
US Department of Health and Human Services Health Resources and Services Administration	1
US Health Resources and Services Administration	1
UVM - AHEC	2
UVM's Vermont Child Health Improvement Program (VCHIP)	1
Vermont Coalition for Clinics for the Uninsured (VCCU)	4
Vermont Recovery Network	1
VITL - VT HIE Network	4
VNAs of Vermont Member Agencies	1
VPQHC	1
Washington County Mental Health Services (WCMHS)	1

# Appendix C: Summary of Initial Data Inventory

# Organization/Agency	Dataset name	Contact Name	Contact email	Is the dataset available to the public?	Type of Data
1 Agency of Human Services /	Results Scorecard	Roessle, Dru	dru.roessle@vermont.gov	No access to data	Employment and WagesPopulationFinancial
2 Agency of Human Services /	Outcomes of Well-Being for Vermonters (Act 186 - Agency of Human S	er Drusilla Roessle	dru.roessle@state.vt.us	Aggregate data only	PopulationClinical
3 Agency of Human Services /	Agency of Human Services Indicators 2012-2015	Drusilla Roessle	dru.roessle@state.vt.us	Aggregate data only	Population
4 AHS Division of Ratesetting / Division of Ratesetting	Nursing Home Rate Setting Data	Kathleen Denett	e kathleen.denette@state.vt.us	No access to data	Financial
5 America's Health Rankings, United Health Group /	America's Health Rankings, United Health Foundation			Aggregate data only	Population
6 Bi-State Primary Care Association /	SAFTINet	Heather Skeels	hskeels@bistatepca.org	No access to data	Clinical
7 Blue Cross Blue Shield of Vermont /	In-Network Provider Directory			No access to data	Provider Information
8 Center for Disease Control (CDC) (Federal) /	National Healthcare Safety Network	Catherine Fulton	catherinef@vpqhc.org	Aggregate data only, report format	Clinical
9 Center for Disease Control (CDC) (Federal) /	National Immunization Survey			Aggregate data only	Survey
10 Center for Disease Control (CDC) (Federal) /	Community Health Status Indicators (CHSI 2015)			Aggregate data only	Population
11 Center for Disease Control (CDC) (Federal) /	Health Indicators Warehouse			Aggregate data only	Population
12 Center for Disease Control (CDC) (Federal) /	CDC Diabetes County Atlas			Aggregate data only	Population
13 Center for Disease Control (CDC) (Federal) /	CDC Wonder			Aggregate data only	Population
14 Centers for Medicare and Medicaid Services (CMS) /	NPI (National Provider Identifier)			No No	Provider Information
15 Centers for Medicare and Medicaid Services (CMS) /	Provider of Service			No	Provider Information
16 Centers for Medicare and Medicaid Services (CMS) /	Medicare Enrollment Data			Aggregate data only, report format	Coverage
17 Centers for Medicare and Medicaid Services (CMS) /	Medicare Fee Schedules			Yes	Financial
· · · · · ·					Financial
18 Centers for Medicare and Medicaid Services (CMS) /	Medicare Cost Reports  State Health Care Expanditure Data by Provider Location			Aggregate data only, report format	Financial
19 Centers for Medicare and Medicaid Services (CMS) /	State Health Care Expenditure Data by Provider Location State Health Care Expenditure Data by Residence			No No	Financial
20 Centers for Medicare and Medicaid Services (CMS) /	State Health Care Expenditure Data by Residence CHAC ACO Data	Hoathar Charle	hskaals@histatanss ara	No access to data	ClinicalClaim
21 Community Health Accountable Care /		Heather Skeels	hskeels@bistatepca.org		
22 Department for Children and Families (DCF) /	Youth Assessment Screening Instrument	Lindy Boudreau	lindy.boudreau@vermont.gov	No access to data	Youth
23 Department for Children and Families (DCF) /	DCF Tracker [Excel]	Sean Brown	sean.brown@vermont.gov	No access to data	Utilization
24 Department for Children and Families (DCF) /	Social Services Management Information System	Margo Bryce	margo.bryce@vermont.gov	No access to data	Youth
25 Department for Children and Families (DCF) /	SNAP QCS	Carpenter, Sally		No access to data	Utilization
26 Department for Children and Families (DCF) /	SA/MH Data Collection [Access]	White, Karolyn	karolyn.white@vermont.gov	No access to data	Services ProvidedOccupancy/DaysClinical
27 Department for Children and Families (DCF) /	Reach Up Excel Set [Excel]	Oalican, Erin	erin.oalican@vermont.gov	No access to data	WorkforceFinancial
28 Department for Children and Families (DCF) /	Reach Up Case Notes [Word]	Oalican, Erin	erin.oalican@state.vt.us	No access to data	YouthServices ProvidedClinical
29 Department for Children and Families (DCF) /	Manual Notice Tool	Pare, Janet	jaent.pare@state.vt.us	No access to data	Services Provided
30 Department for Children and Families (DCF) /	ININ [DCF-FSD]	Dianne Jabar	dianne.jabar@state.vt.us	No access to data	Youth
31 Department for Children and Families (DCF) /	Info On My Case	Jennifer Lyford	jennifer.lyford@state.vt.us	No access to data	Services Provided
32 Department for Children and Families (DCF) /	FSDNET	Cindy Walcott	cindy.walcott@state.vt.us	No access to data	InspectionYouthServices Provided
33 Department for Children and Families (DCF) /	FSD Report Server	Margo Bryce	margo.bryce@state.vt.us	No access to data	YouthUtilizationServices ProvidedClinical
34 Department for Children and Families (DCF) /	EZPay4Kids	Christine Cassel	christine.cassel@state.vt.us	No access to data	YouthFinancial
35 Department for Children and Families (DCF) /	ESD Notices	Pam Dalley	pam.dalley@state.vt.us	No access to data	Unknown
36 Department for Children and Families (DCF) /	ESD Fraud DB [Access]	Donna Hosking	donna.hosking@state.vt.us	No access to data	InspectionFinancial
37 Department for Children and Families (DCF) /	EBTEdge [DCF]	DiMatteo, Richa	d richard.dimatteo@state.vt.us	No access to data	Unknown
38 Department for Children and Families (DCF) /	Iron Data	McCormack, Jacl	c jack.mccormack@state.vt.us	No access to data	Financial
39 Department for Children and Families (DCF) /	CIS [Access]	Garbarino, Karer	karen.garbarino@state.vt.us	No access to data	Youth
40 Department for Children and Families (DCF) /	Bright Futures Information System	Garbarino, Karer	karen.garbarino@state.vt.us	No access to data	WorkforceEmployment and WagesLicensing
41 Department for Children and Families (DCF) /	Automated Forms Generation	Cassel, Christine	christine.cassel@state.vt.us	No access to data	Unknown
42 Department for Children and Families (DCF) /	ACCESS			No access to data	WorkforceIncomeFinancial
43 Department for Children and Families (DCF) / Economic Services	Health Care: Number of eligible recipients in VT by county, Disenrollment	ent Report by Mon	tł	Aggregate data only	Coverage
44 Department for Children and Families (DCF) / Economic Services	Reach Up Monthly Report by District Office: Number of families, recipion	ents, and total ben	efit amoun	Aggregate data only	Services Provided
45 Department of Corrections (AHS) /	Prisoner Electronic Health Records (ERMA)	Dr. Dolores Burr	οι dee.burroughs-biron@state.vt.u	s No access to data	Services ProvidedClinicalClaim
46 Department of Disabilities, Aging and Independent Living (DAIL) /	Workers Comp	James Smith	james.smith@vermont.gov	No access to data	WorkforceEmployment and Wages
47 Department of Disabilities, Aging and Independent Living (DAIL) /	Ticket to Work Reimbursement Tracker	James Smith	james.smith@vermont.gov	No access to data	Financial
48 Department of Disabilities, Aging and Independent Living (DAIL) /	Supported Employment	Jennie Masterso	n jennie.masterson@vermont.gov	No access to data	WorkforceEmployment and Wages
49 Department of Disabilities, Aging and Independent Living (DAIL) /	Social Security Database	Wells, Susan	susan.wells@vermont.gov	No access to data	Services Provided
50 Department of Disabilities, Aging and Independent Living (DAIL) /	Representative Payee Management	Dupuis, Chris	chris.dupuis@vermont.gov	No access to data	IncomeFinancial
51 Department of Disabilities, Aging and Independent Living (DAIL) /	NATADS	Fulcher, Amber	amber.fulcher@state.vt.us	No access to data	Services Provided
52 Department of Disabilities, Aging and Independent Living (DAIL) /	Monthly Service Report (DDSD view)	June Bascom	june.bascom@state.vt.us	No access to data	Population
53 Department of Disabilities, Aging and Independent Living (DAIL) /	JOBS	Bart Keinath	bart.keinath@state.vt.us	No access to data	YouthWorkforce
54 Department of Disabilities, Aging and Independent Living (DAIL) /	Individual Plan for Employment	Mike Goldberg	mike.goldberg@state.vt.us	No access to data	Workforce
55 Department of Disabilities, Aging and Independent Living (DAIL) /	Housing [Excel]			No access to data	Inspection
	Client Tracking Tool (CWS)	Porter, Alice	alice.porter@state.vt.us	No access to data	WorkforceEmployment and Wages
56 Department of Disabilities, Aging and Independent Living (DAIL) /					
56 Department of Disabilities, Aging and Independent Living (DAIL) /  57 Department of Disabilities, Aging and Independent Living (DAIL) /		Burt, Peter	peter.burt@state.vt.us	No access to data	Workforcemcomeemblovment and wases
57 Department of Disabilities, Aging and Independent Living (DAIL) /	BOND Operations Data System	Burt, Peter Smith, James	peter.burt@state.vt.us	No access to data	WorkforceIncomeEmployment and Wages Services ProvidedEmployment and Wages
57 Department of Disabilities, Aging and Independent Living (DAIL) / 58 Department of Disabilities, Aging and Independent Living (DAIL) /	BOND Operations Data System  Vermont Work Incentives Initiative (VWII)	Smith, James	james.smith@state.vt.us	No access to data	Services ProvidedEmployment and Wages
57 Department of Disabilities, Aging and Independent Living (DAIL) / 58 Department of Disabilities, Aging and Independent Living (DAIL) / 59 Department of Disabilities, Aging and Independent Living (DAIL) /	BOND Operations Data System  Vermont Work Incentives Initiative (VWII)  Assistive Technology for All	Smith, James Fulcher, Amber	james.smith@state.vt.us amber.fulcher@state.vt.us	No access to data No access to data	Services ProvidedEmployment and Wages ReferenceServices Provided
57 Department of Disabilities, Aging and Independent Living (DAIL) / 58 Department of Disabilities, Aging and Independent Living (DAIL) / 59 Department of Disabilities, Aging and Independent Living (DAIL) / 60 Department of Disabilities, Aging and Independent Living (DAIL) /	BOND Operations Data System  Vermont Work Incentives Initiative (VWII)  Assistive Technology for All  Aspen Suite [ACO/ACTS/ASEQ/QIS]	Smith, James Fulcher, Amber Wehmeyer, Tam	james.smith@state.vt.us	No access to data  No access to data  No access to data	Services ProvidedEmployment and Wages ReferenceServices Provided InspectionSurvey
57 Department of Disabilities, Aging and Independent Living (DAIL) / 58 Department of Disabilities, Aging and Independent Living (DAIL) / 59 Department of Disabilities, Aging and Independent Living (DAIL) /	BOND Operations Data System  Vermont Work Incentives Initiative (VWII)  Assistive Technology for All	Smith, James Fulcher, Amber Wehmeyer, Tam	james.smith@state.vt.us amber.fulcher@state.vt.us	No access to data No access to data	Services ProvidedEmployment and Wages ReferenceServices Provided

# Organization/Agency	Dataset name	Contact Name	Contact email	Is the dataset available to the public?	Type of Data
63 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi					Population
64 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi		Dick Laverty			Unknown
65 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Dail (DAIL) / Division of	-	Bard HIII		Aggregate data only report format	Survey Financial
66 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi		Kathy Rainville	Mard Dala Branks	Aggregate data only, report format	
67 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi		,	Vard, Dale Brooks		Provider Information
68 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi			Vard, Tara Grenier		Financial  Services Provided
69 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi	-		a iaha hawahillassa Qasasa at wa	No secondo dete	Services Provided
70 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi			ii joiiii.boutiiiilette@state.vt.us	No access to data	Services ProvidedPopulation
71 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi 72 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi	, , , , , , , , , , , , , , , , , , , ,	Andre Courcelle Chris O'Neill			UnknownPopulationClinical Unknown
	,		D camille.george@state.vt.us		Unknown
73 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi 74 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Agi		Camille George	D carrille.george@state.vt.us		UnknownFinancial
75 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Independent Living (DAIL) / Division of Disability and Aging and Dail Dail Dail Dail Dail Dail Dail Dail	, , , , ,	June Bascom			Unknown
					Licensing Provider Information
76 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Prote		Clayton Clark		Aggregate data only, report format	-
77 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Prote		Clayton Clark		Aggregate data only, report format	LicensingProvider Information  PopulationClinical
78 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Prote Popertment of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Proteins of Disabilities, Aging and Disabilities of Dail Dail Disabilities of Dail Dail Dail Dail Dail Dail Dail Dail		•	et Clautan Clark		Clinical
	• • • • • • • • • • • • • • • • • • • •		·		
80 Department of Disabilities, Aging and Independent Living (DAIL) / Division of Licensing & Prote 81 Department of Education /		CMS; SOV contac	a Ciayton Cial K	Aggregate data only	InspectionLicensing YouthPopulation
82 Department of Education /	Dropout & High School Completion  Enrollment Report			Yes, record level data available	YouthPopulation
83 Department of Education /	Free and Reduced Eligibility Reports			Aggregate data only	YouthPopulation
84 Department of Health (AHS) /	Core Survey on Alcohol and Drug Use	Amy Livingston	alivingston@pire.org	Data available to public with data use agreement	YouthSurvey
84 Department of Health (AHS) /	Basic Screening Survey (Dental)	Amy Livingston Robin Miller	robin.n.miller@vermont.gov	Data available to public with data use agreement  Data available to public with data use agreement	Survey
86 Department of Health (AHS) /	Food Processor		malai.holland@state.vt.us	·	Services Provided
87 Department of Health (AHS) /	WIC Appointments Pro scheduling software	Malai Holland Lisa Fitzgerald	lisa.fitzgerald@state.vt.us	No access to data  No access to data	Unknown
88 Department of Health (AHS) /	Parents as Teachers	John Burley	john.burley@state.vt.us	No access to data	Youth
89 Department of Health (AHS) /	Healthy Vermonters 2020 Performance Dashboard	Joint Burley	Joini.buriey@state.vt.us	Aggregate data only	Population
90 Department of Health (AHS) /	Healthy Vermonters 2020 Map and Trends Atlas			Aggregate data only	Population
91 Department of Health (AHS) /	Minority Health Data Pages			No	Population
92 Department of Health (AHS) /	Vermont Environment Public Health Tracking Program (EPHT)	David Grass		Aggregate data only	Population
93 Department of Health (AHS) /	VMAP Access Database and CAREWare	David Grass		Unknown/Uncertain	Population
94 Department of Health (AHS) /	Refugee Health data system	Susan Schoenfel	1	Unknown/Uncertain	Clinical
95 Department of Health (AHS) /	Vermont's Statewide Report on Kindergarten Readiness		a manuela.fonseca@state.vt.us	Official Carried Carri	SurveyPopulation
96 Department of Health (AHS) /	Tooth Tutor Program	Robin Miller	robin.n.miller@state.vt.us	Yes	Population
97 Department of Health (AHS) /	Vermont Electronic Death Registration System (EDRS)	Nobili Willer	TODIII.III.IIIIICI @ State.vt.us	163	Clinical
98 Department of Health (AHS) /	HIV Name-Based Reporting				PopulationClinical
99 Department of Health (AHS) /	Breastfeeding Friendly Employers			Yes, record level data available	Employment and Wages
100 Department of Health (AHS) /	VT Licensed Health Care Professionals Data Repository			res, record level data available	WorkforceSurveyLicensing
101 Department of Health (AHS) /	Vermont Young Adult Survey	Amy Livingston	alivingston@pire.org	Aggregate data only	YouthSurvey
102 Department of Health (AHS) /	PRAMS via CPONDER CDC query tool	John Davy	anvingstone piretorg	Research data use agreement possible	Survey
103 Department of Health (AHS) /	Healthy Vermonters 2020	Jo 2017		No	Population
104 Department of Health (AHS) /	Youth Health Survey				YouthSurveyPopulation
105 Department of Health (AHS) /	Pregnancy Risk Assessment Monitoring System (PRAMS)	John Davy		Aggregate data only	SurveyPopulation
106 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Counselor Licensure			Yes, record level data available	Licensing
107 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Substance Abuse Counselor Licensure	Jerri Brouillette	jerri.brouillette@state.vt.us	No access to data	Licensing
108 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Recovery Centers/Recovery Support Services	Evan Smith	evan.smith@state.vt.us	No access to data	Unknown
109 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Halfway and Transitional Housing	Jackie Corbally	jackie.corbally@state.vt.us	No access to data	Unknown
110 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Adolescent Treatment Enhancement Project	Amy Danielson	amy.danielson@state.vt.us	No access to data	Youth
111 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Public Inebriate Program	Jackie Corbally	jackie.corbally@state.vt.us	No access to data	Unknown
112 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Project CRASH	Jerri Brouillette		No access to data	Services Provided
113 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Public Inebriate Program	Jackie Corbally	,	No access to data	Unknown
114 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Screening, Brief Intervention, Referral to Treatment (SBIRT)	Erin O'Keefe		No access to data	Services ProvidedClinical
115 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Project Rocking Horse	Patty Baroudi		No access to data	Unknown
116 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	SATIS - Substance Abuse Treatment Information System	Anne Van Donse	l		PopulationClinical
117 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Vermont Prescription Monitoring System (VPMS)	Meika DiPietro		No access to data	UnknownServices Provided
118 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Student Assistance Program Data and Reports	Kelly LaMonda/	Amy Danielson	Aggregate data only	YouthServices Provided
119 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	National Survey on Drug Use and Health Vermont Data	,	· · · · · · · · · · · · · · · · · · ·	,	SurveyPopulation
120 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	New Directions Evaluation Documents				YouthSurvey
121 Department of Health (AHS) / Division of Alcohol and Drug Abuse Programs (ADAP)	Vermont Treatment Data				Population
122 Department of Health (AHS) / Division of Environmental Health	School Environmental Health (Envision)	David Grass	david.grass@state.vt.us	Aggregate data only	Survey
123 Department of Health (AHS) / Division of Environmental Health	Vermont Lead Database	Michael Sullivan	<u> </u>	No access to data	Population
124 Department of Health (AHS) / Division of Environmental Health	Lead Poisoning Reports				Services Provided
	<u> </u>				

# Organization/Agency	Dataset name	Contact Name	Contact email	Is the dataset available to the public?	Type of Data
125 Department of Health (AHS) / Division of Environmental Health	Food and Lodging Inspection Report		elisabeth.wirsing@state.vt.us		Inspection
126 Department of Health (AHS) / Division of Health Promotion and Disease Preventior	Ladies First MMIS	Nicole Lukas	nicole.lukas@vermont.gov		Provider InformationClaim
127 Department of Health (AHS) / Division of Health Promotion and Disease Preventior	Ladies First Clinical Tracking	Nicole Lukas	nicole.lukas@vermont.gov		Clinical
128 Department of Health (AHS) / Division of Health Promotion and Disease Preventior	Ladies First Billing	Nicole Lukas	nicole.lukas@vermont.gov		Claim
129 Department of Health (AHS) / Division of Health Promotion and Disease Preventior	Ladies First	Nicole Lukas	nicole.lukas@state.vt.us		Coverage
130 Department of Health (AHS) / Division of Health Surveillance	Vital Records - All Systems	Cindy Hooley	cindy.hooley@vermont.gov		Clinical
131 Department of Health (AHS) / Division of Health Surveillance	Vital Records - (Marriage, Divorce, Other)	Cindy Hooley	cindy.hooley@vermont.gov	Data (deidentified) available to public with data use	agreement
132 Department of Health (AHS) / Division of Health Surveillance	Vital Records - Death (EDRS)	Cindy Hooley	cindy.hooley@vermont.gov	Record level data available to public	Clinical
133 Department of Health (AHS) / Division of Health Surveillance	Vital Records - Birth (EBRS)	Cindy Hooley	cindy.hooley@vermont.gov	Data available to public with data use agreement	Clinical
134 Department of Health (AHS) / Division of Health Surveillance	Electronic Birth Registration System (EBRS)			No access to data	Population
135 Department of Health (AHS) / Division of Health Surveillance	Health Laboratory Services - Private Well Drinking Water Test Services	Mary Celotti	mary.celotti@state.vt.us	No access to data	Surveillance
136 Department of Health (AHS) / Division of Health Surveillance	Birth Defects Registry	Brennan Martin	brennan.martin@state.vt.us	Aggregate data only	PopulationClinical
137 Department of Health (AHS) / Division of Health Surveillance	VT Medication Assistance Program	Robyn Airoldi		No access to data	Financial
138 Department of Health (AHS) / Division of Health Surveillance	Vermont Tick Tracker				Surveillance
139 Department of Health (AHS) / Division of Health Surveillance	West Nile Virus Data (ArboNet)	Erica Berl			Unknown
140 Department of Health (AHS) / Division of Health Surveillance	Tuberculosis Data	Laura Ann Nicolai			Services ProvidedPopulationClinical
141 Department of Health (AHS) / Division of Health Surveillance	Rabies (human exposures to animal cases)	Robert H. Johnso	n		Clinical
142 Department of Health (AHS) / Division of Health Surveillance	Lyme Disease Data	Erica Berl		7	Surveillance
143 Department of Health (AHS) / Division of Health Surveillance	Healthcare Associated Infections (HAI)	Carol Wood-Kook			Clinical
144 Department of Health (AHS) / Division of Health Surveillance	BioSense STDMIS - STD surveillance dataset	Bradley Tompkins			Surveillance Clinical
145 Department of Health (AHS) / Division of Health Surveillance		Daniel Daltry			
146 Department of Health (AHS) / Division of Health Surveillance 147 Department of Health (AHS) / Division of Health Surveillance	Infectious Disease Outbreak Database	Laura Ann Nicolai Alex Goode		,	Clinical Population
148 Department of Health (AHS) / Division of Health Surveillance	Electronic HIV/AIDS Reporting System (eHARS)  EARS (Early Aberration Reporting System)	Bradley Tompkins	<u> </u>		Services ProvidedClinical
149 Department of Health (AHS) / Division of Health Surveillance	Vermont MONAHRQ database	Terri Hata	teri.hata@state.vt.us		SurveyServices ProvidedFinancial
150 Department of Health (AHS) / Division of Health Surveillance	Hospital Quality Ratings and Statistics	Terri Hata	termata@state.vt.us		Survey
151 Department of Health (AHS) / Division of Health Surveillance	Asthma Surveillance		maria.roemhildt@state.vt.us		Surveillance
152 Department of Health (AHS) / Division of Health Surveillance	HIV Surveillance	Daniel Daltry	· · · · · · · · · · · · · · · · · · ·		Population
153 Department of Health (AHS) / Division of Health Surveillance	Vermont Cancer Registry	Ali Johnson	ali.johnson@state.vt.us		Population
154 Department of Health (AHS) / Division of Health Surveillance	Vermont Uniform Hospital Discharge Data Set (VUHDDS) Public Use File		barbara.carroll@vermont.gov		SurveillanceUtilizationServices ProvidedClinical
155 Department of Health (AHS) / Division of Health Surveillance	Household Health Insurance Survey (VHHIS)	Jessie Hammond	jessie.hammond@vermont.gov	De-identified aggregate data are available to the pub	SurveyCoverage
156 Department of Health (AHS) / Division of Health Surveillance	Hospital Report Card Web Tool	Teri Hata	teri.hata@state.vt.us		SurveyServices ProvidedFinancial
157 Department of Health (AHS) / Division of Health Surveillance	Pediatric Nutrition Surveillance			Aggregate data only	YouthSurveyPopulation
158 Department of Health (AHS) / Division of Health Surveillance	Youth Risk Behavior Survey	Kristen Murray	kristen.murray@vermont.gov	Data (deidentified) available to public with data use	YouthSurveyPopulation
159 Department of Health (AHS) / Division of Health Surveillance	Vermont Advance Directives Registry (VADR)	Ashley Goodrich		No access to data	Unknown
160 Department of Health (AHS) / Division of Health Surveillance	Immunization Registry - IMR	Bridget Ahrens	briget.ahrens@vermont.gov	Yes, record level data available to public	Clinical
161 Department of Health (AHS) / Division of Health Surveillance	Asthma Call Back Survey (ACBS)	Jessie Hammond	jessie.hammond@state.vt.us		SurveyPopulation
162 Department of Health (AHS) / Division of Health Surveillance	Behavioral Risk Factor Surveillance System (BRFSS)	Jessie Hammond	jessie.hammond@vermont.gov	De-identified dataset is available to the public on the	SurveyPopulation
163 Department of Health (AHS) / Division of Health Surveillance	Adult Tobacco Survey	Rhonda Williams			SurveyPopulation
164 Department of Health (AHS) / Division of Health Surveillance	Health Care Provider Surveys (Census)	Moshe Braner	moshe.braner@state.vt.us	Data available to researchers with data use agreeme	
165 Department of Health (AHS) / Division of Maternal and Child Health	SIDS,SUID	Sally Kerschner	sally.kerschner@state.vt.us		Clinical
166 Department of Health (AHS) / Division of Maternal and Child Health	Early Hearing Detection and Intervention (EHDI)	Linda Hazard	linda.hazard@state.vt.us		Youth
167 Department of Health (AHS) / Division of Maternal and Child Health	Personal Care / Children With Special Health Needs (CSHN)		ia jennifer.garabedian@state.vt.us		Clinical  Services Provided Penyletian Financial
168 Department of Health (AHS) / Division of Maternal and Child Health	WIC MIS/EBT Ceres Application  Critical Congenital Heart Disease Newborn Screening	Donna Bister	donna.bister@state.vt.us		Services ProvidedPopulationFinancial
169 Department of Health (AHS) / Division of Maternal and Child Health 170 Department of Health (AHS) / Division of Maternal and Child Health	Critical Congenital Heart Disease Newborn Screening  Newborn Hearing Screening	Cindy Ingham			PopulationClinical Youth
171 Department of Health (AHS) / Medical Practice Board	Medical Practice Board Licensing System (CAVU)	Cindy Ingham Karen LaFond	karen.lafond@state.vt.us		WorkforceProvider Information
172 Department of Labor /	Vermont Employment and Wage Data	Raren Lai Onu	raremaiona@state.vt.us		Employment and Wages
173 Department of Labor /	Employer Benefits Survey	Mat Barewicz	matthew.barewicz@state.vt.us		SurveyEmployee Benefits
173 Department of Labor / 174 Department of Mental Health /	Special Services Requests and Payment Log [Excel]	Aimee Ziter	aimee.ziter@vermont.gov		Services ProvidedClinicalFinancial
175 Department of Mental Health /	RPM [DMH]		l michelle.hammerl@vermont.gov		Financial
176 Department of Mental Health /	Provider Electronic Solutions	•	cara.mcsherry@state.vt.us		Financial
177 Department of Mental Health /	Monthly Service Report Data Load	•	jessica.whitaker@state.vt.us		Financial
178 Department of Mental Health /	Mental Health Services		jessica.whitaker@state.vt.us		Services ProvidedFinancial
179 Department of Mental Health /	KidsWin	Laurel Omland	laurel.omland@state.vt.us		Services Provided
180 Department of Mental Health /	Family Specific Respite Request Data [Excel]	Tyler Blouin	tyler.blouin@state.vt.us		YouthServices ProvidedFinancial
181 Department of Mental Health /	Event Reporting [Excel]	Emma Harrigan	emma.harrigan@state.vt.us	No access to data	Clinical
182 Department of Mental Health /	EIP Data [Excel]	Emma Harrigan	emma.harrigan@state.vt.us	No access to data	Clinical
183 Department of Mental Health /	ECT Data [Excel]	Emma Harrigan	emma.harrigan@state.vt.us	No access to data	Clinical
184 Department of Mental Health /	Designated Agency Financial Load	Snyder, Bill	bill.snyder@state.vt.us	No access to data	Financial
185 Department of Mental Health /	CRC [Excel] (Case Review Committee Data for Youth Placed in Residentia	a MacKinnon, Jessi	e jessie.mackinnon@state.vt.us		YouthPopulation
186 Department of Mental Health /	Children's Commitments [Excel]	Snyder, Bill	bill.snyder@state.vt.us	No access to data	Youth

# Organization/Agency	Dataset name	Contact Name	Contact email	Is the dataset available to the public?	Type of Data
187 Department of Mental Health /	Performance Indicator Project Reports	Tyler Blouin	tyler.blouin@state.vt.us	Aggregate data only	SurveyServices ProvidedOccupancy/DaysPopulation
188 Department of Mental Health /	Inpatient Mental Health and Addiction Services Provided To Vermont R	•	tyler.blouin@state.vt.us	Aggregate data only	Utilization
189 Department of Mental Health /	Evaluation of Child and Adolescent Mental Health Programs By Young F	e Emma Harrigan	emma.harrigan@state.vt.us	,	Services Provided
190 Department of Mental Health /	Consumer Evaluation of Community Rehabilitation and Treatment Prog	r Emma Harrigan	emma.harrigan@state.vt.us		Utilization
191 Department of Taxes /	Vermont Personal Income Tax Returns by Town and Income Class		<u> </u>	Aggregate data only	Income
192 Department of Vermont Health Access (AHS DVHA) /	EVHA [Business Objects]	HP Enterprise Ser	vices	No access to data	
193 Department of Vermont Health Access (AHS DVHA) /	Vermont Health Connect	Robert Skowrons	k robert.skowronski@vermont.go	No access to data	Coverage
194 Department of Vermont Health Access (AHS DVHA) /	Verisk Health	Walter Ochs	walter.ochs@vermont.gov	No access to data	PopulationClinical
195 Department of Vermont Health Access (AHS DVHA) /	TPL System	Debbie Austin	debbie.austin@vermont.gov	No access to data	Financial
196 Department of Vermont Health Access (AHS DVHA) /	RxClaim	Hogue, Nancy	nancy.hogue@vermont.gov	No access to data	Claim
197 Department of Vermont Health Access (AHS DVHA) /	Provider Suspension DB [Access]	Miles, Leanne	leanne.miles@state.vt.us	No access to data	LicensingProvider Information
198 Department of Vermont Health Access (AHS DVHA) /	PI/SURS DB [Access]	Miles, Leanne	leanne.miles@state.vt.us	No access to data	Financial
199 Department of Vermont Health Access (AHS DVHA) /	MITA SSA Database [Access]	Kutt, Bekah	bekah.kutt@state.vt.us	No access to data	Services Provided
200 Department of Vermont Health Access (AHS DVHA) /	McKesson InterQual	Daljit Clark	daljit.clark@state.vt.us	No access to data	ReferenceClinical
201 Department of Vermont Health Access (AHS DVHA) /	Fair Hearing DB (DVHA) [Access]	Dani DeLong	dani.delong@state.vt.us	No access to data	Unknown
202 Department of Vermont Health Access (AHS DVHA) /	EncoderPro	Leanne Miles	leanne.miles@state.vt.us	No access to data	Reference
203 Department of Vermont Health Access (AHS DVHA) /	DVHA Detox Inpatient/SA Residential Programs	Mitchell, Megan	megan.mitchell@state.vt.us	No access to data	UtilizationServices ProvidedClinicalFinancial
204 Department of Vermont Health Access (AHS DVHA) /	DVHA Children Inpatient [Excel]		megan.mitchell@state.vt.us	No access to data	UtilizationServices ProvidedClinicalFinancial
205 Department of Vermont Health Access (AHS DVHA) /	DVHA Children inpatient (Excer)	Walker, David	david.walker@state.vt.us	No access to data	Financial
206 Department of Vermont Health Access (AHS DVHA) /	DVHA Crieck Log  DVHA Adult Inpatient [Excel]	Mitchell, Megan	megan.mitchell@state.vt.us	No access to data	Services ProvidedClinicalFinancial
207 Department of Vermont Health Access (AHS DVHA) /	7104 Request DB [Access]	Frazer, Dylan	dylan.frazer@state.vt.us	No access to data	Unknown
208 Department of Vermont Health Access (AHS DVHA) /	APS C3	Girling, Eileen	eileen.girling@state.vt.us	No access to data	UtilizationServices Provided
209 Department of Vermont Health Access (AHS DVHA) /	Third Party Liability (TPL) Case and Transactions Management Web Site		debbie.austin@state.vt.us	No access to data	Unknown
210 Department of Vermont Health Access (AHS DVHA) /	Prescription Drug Plan (PDP) Case Management Web Site	Lisa Carpenter	lisa.carpenter@state.vt.us	No access to data	Unknown
211 Department of Vermont Health Access (AHS DVHA) /	Provider Electronic Solutions Software	Lisa Carpenter	iisa.carpenter@state.vt.us		Unknown
1				No access to data	
212 Department of Vermont Health Access (AHS DVHA) /	Vermont Active Medicaid Providers	Callina Laui	La di callina Catata et es	No access to data	Provider Information
213 Department of Vermont Health Access (AHS DVHA) /	MMIS	Collins, Lori	lori.collins@state.vt.us	No access to data	CoverageFinancialClaim
214 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	CY2013 VT Medicaid EHRIP Annual Report	Casey O'Hara	casey.ohara@vermont.gov	Aggregate data only	Financial
215 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Providers who have received a VT Medicaid EHR Incentive Payment	Casey O'Hara	casey.ohara@vermont.gov	Yes, record level data available	Provider InformationFinancial
216 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	PIEmatrix		richard.terricciano@state.vt.us	No access to data	Financial
217 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Mr Ed [Access]	Kendall, Heather;	•	Aggregate data only	Financial
218 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Community Health Networks Survey	Tim Tremblay	timothy.tremblay@state.vt.us	Aggregate data only	Survey
219 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	CAHPS Patient Experience Survey		n jenney.samuelson@state.vt.us	Aggregate data only	Survey
220 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	DocSite Clinical Data Repository	Tim Tremblay	timothy.tremblay@vermont.gov		Clinical
221 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Blueprint for Health Analytics Dataset	Tim Tremblay	, , , , ,	No access to data	ClinicalClaim
222 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Blueprint for Health Practice Profiles	Tim Tremblay	, ,-	No access to data	SurveyClinicalClaim
223 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Blueprint for Health Hospital Service Area Profiles	Tim Tremblay	timothy.tremblay@state.vt.us	Aggregate data only	SurveyClinicalClaim
224 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Blueprint for Health Reports And Analytics Webpage	Tim Tremblay	timothy.tremblay@state.vt.us	Aggregate data only	Services Provided
225 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Blueprint for Health Practice and Provider Database (Portal)	Tim Tremblay	, ,-	No access to data	Provider Information
226 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Blueprint for Health Website	Jen Le	jennifer.le@state.vt.us	Aggregate data only	Unknown
227 Department of Vermont Health Access (DVHA) / Blueprint for Health Program	Medical Assistance Provider Incentive Repository - MAPIF	Casey O'Hara	casey.ohara@state.vt.us	No access to data	Services ProvidedProvider InformationFinancial
228 Green Mountain Care Board (GMCB) /	VUHDDS Research Data Set	David Regan	david.regan@vermont.gov	Research data use agreement possible	
229 Green Mountain Care Board (GMCB) /	Annual Statement Supplement Report (ASSR)	Mike Davis	mike.davis@vermont.gov	No access to data	CoverageFinancial
230 Green Mountain Care Board (GMCB) /	VHCURES Analytical Extracts - Truven	David Regan	david.regan@vermont.gov	No access to data	Claim
231 Green Mountain Care Board (GMCB) /	Data Use Agreements to VHCURES	David Regan	david.regan@vermont.gov	No access to data	Reference
232 Green Mountain Care Board (GMCB) /	Dashboard 2.0	Susan Barrett	susan.barrett@state.vt.us	Aggregate data only	SurveillancePopulationFinancial
233 Green Mountain Care Board (GMCB) /	Hospital Budget Data	Mike Davis	mike.davis@state.vt.us	Aggregate data only, digital format	UtilizationFinancial
234 Green Mountain Care Board (GMCB) /	VHCURES	Susan Barrett		Data available to public with data use agreement	PopulationProvider InformationClaim
235 Green Mountain Care Board (GMCB) /	Expenditure Analysis	Mike Davis	mike.davis@vermont.gov	Aggregate data only, digital format	UtilizationPopulationProvider InformationFinancialCla
255 Green Mountain care board (GMeB) /					
236 Health Resources and Services Administration (HRSA) /	Area Health Resource File				PopulationProvider InformationFinancial
		Lou McLaren	Imclaren@mvphealthcare.com	Data available to public with data use agreement	PopulationProvider InformationFinancial
236 Health Resources and Services Administration (HRSA) /	Area Health Resource File	Lou McLaren	Imclaren@mvphealthcare.com	Data available to public with data use agreement No access to data	PopulationProvider InformationFinancial Population
236 Health Resources and Services Administration (HRSA) / 237 MVP /	Area Health Resource File MVP Provider Directory		Imclaren@mvphealthcare.com		
<ul> <li>236 Health Resources and Services Administration (HRSA) /</li> <li>237 MVP /</li> <li>238 Robert Wood Johnson Foundation /</li> </ul>	Area Health Resource File  MVP Provider Directory  County Health Rankings			No access to data	Population
<ul> <li>236 Health Resources and Services Administration (HRSA) /</li> <li>237 MVP /</li> <li>238 Robert Wood Johnson Foundation /</li> <li>239 Secretary of State - Office of Professional Regulation /</li> </ul>	Area Health Resource File  MVP Provider Directory  County Health Rankings  Vermont Professional License Database			No access to data Yes, record level data available to public	Population Licensing
236 Health Resources and Services Administration (HRSA) / 237 MVP / 238 Robert Wood Johnson Foundation / 239 Secretary of State - Office of Professional Regulation / 240 Secretary of State - Office of Professional Regulation /	Area Health Resource File  MVP Provider Directory  County Health Rankings  Vermont Professional License Database  Vermont Secretary of State Conduct Decisions			No access to data  Yes, record level data available to public  Yes, record level data available	Population Licensing Licensing Provider Information
<ul> <li>236 Health Resources and Services Administration (HRSA) /</li> <li>237 MVP /</li> <li>238 Robert Wood Johnson Foundation /</li> <li>239 Secretary of State - Office of Professional Regulation /</li> <li>240 Secretary of State - Office of Professional Regulation /</li> <li>241 US Department of Health and Human Services Health Resources and Services Administration /</li> </ul>	Area Health Resource File  MVP Provider Directory  County Health Rankings  Vermont Professional License Database  Vermont Secretary of State Conduct Decisions  HRSA Health Provider Shortage Areas			No access to data Yes, record level data available to public Yes, record level data available Aggregate data only	Population Licensing Licensing Provider Information
<ul> <li>236 Health Resources and Services Administration (HRSA) /</li> <li>237 MVP /</li> <li>238 Robert Wood Johnson Foundation /</li> <li>239 Secretary of State - Office of Professional Regulation /</li> <li>240 Secretary of State - Office of Professional Regulation /</li> <li>241 US Department of Health and Human Services Health Resources and Services Administration /</li> <li>242 US Health Resources and Services Administration /</li> </ul>	Area Health Resource File  MVP Provider Directory  County Health Rankings  Vermont Professional License Database  Vermont Secretary of State Conduct Decisions  HRSA Health Provider Shortage Areas  Uniform Data System - UDS			No access to data Yes, record level data available to public Yes, record level data available Aggregate data only Aggregate data only	Population Licensing Licensing Provider Information UtilizationServices ProvidedPopulationClinicalFinanci
236 Health Resources and Services Administration (HRSA) / 237 MVP / 238 Robert Wood Johnson Foundation / 239 Secretary of State - Office of Professional Regulation / 240 Secretary of State - Office of Professional Regulation / 241 US Department of Health and Human Services Health Resources and Services Administration / 242 US Health Resources and Services Administration / 243 UVM - AHEC /	Area Health Resource File  MVP Provider Directory  County Health Rankings  Vermont Professional License Database  Vermont Secretary of State Conduct Decisions  HRSA Health Provider Shortage Areas  Uniform Data System - UDS  Board of Nursing Relicensure Survey Reports			No access to data Yes, record level data available to public Yes, record level data available Aggregate data only Aggregate data only Aggregate data only	Population Licensing Licensing Provider Information UtilizationServices ProvidedPopulationClinicalFinanci SurveyEmployment and WagesProvider Information
236 Health Resources and Services Administration (HRSA) / 237 MVP / 238 Robert Wood Johnson Foundation / 239 Secretary of State - Office of Professional Regulation / 240 Secretary of State - Office of Professional Regulation / 241 US Department of Health and Human Services Health Resources and Services Administration / 242 US Health Resources and Services Administration / 243 UVM - AHEC / 244 UVM - AHEC /	Area Health Resource File  MVP Provider Directory  County Health Rankings  Vermont Professional License Database  Vermont Secretary of State Conduct Decisions  HRSA Health Provider Shortage Areas  Uniform Data System - UDS  Board of Nursing Relicensure Survey Reports  Vermont Primary Care Workforce Reports	Christopher WInt		No access to data Yes, record level data available to public Yes, record level data available Aggregate data only Aggregate data only Aggregate data only	Population Licensing Licensing Provider Information UtilizationServices ProvidedPopulationClinicalFinanci SurveyEmployment and WagesProvider Information SurveyEmployment and Wages
236 Health Resources and Services Administration (HRSA) / 237 MVP / 238 Robert Wood Johnson Foundation / 239 Secretary of State - Office of Professional Regulation / 240 Secretary of State - Office of Professional Regulation / 241 US Department of Health and Human Services Health Resources and Services Administration / 242 US Health Resources and Services Administration / 243 UVM - AHEC / 244 UVM - AHEC / 245 UVM's Vermont Child Health Improvement Program (VCHIP) /	Area Health Resource File  MVP Provider Directory  County Health Rankings  Vermont Professional License Database  Vermont Secretary of State Conduct Decisions  HRSA Health Provider Shortage Areas  Uniform Data System - UDS  Board of Nursing Relicensure Survey Reports  Vermont Primary Care Workforce Reports  Consumer Assessment of Healthcare Providers and Systems (CAHPS)	Christopher WInt	ε chris.winters@sec.state.vt.us	No access to data Yes, record level data available to public Yes, record level data available Aggregate data only Aggregate data only Aggregate data only Aggregate data only	Population Licensing Licensing Provider Information UtilizationServices ProvidedPopulationClinicalFinancia SurveyEmployment and WagesProvider Information SurveyEmployment and Wages Survey

# Organization/Agency	Dataset name	Contact Name	Contact email	Is the dataset available to the public?	Type of Data
249 Vermont Coalition for Clinics for the Uninsured (VCCU) /	VCCU Demographic Data	Lynn Raymond-Er	m vccu@comcast.net	Aggregate data only	Survey
250 Vermont Recovery Network /	Vermont Recovery Network Participant Surveys	Mark Ames	vtrecoverynetwork@gmail.com	Yes	Survey
251 VITL - VT HIE Network /	VHIE Analytical Dataset	Mike Gagnon	mgagnon@vitl.net	No access to data	Clinical
252 VITL - VT HIE Network /	VITLDirect			No access to data	Clinical
253 VITL - VT HIE Network /	VITLAccess			No access to data	Clinical
254 VITL - VT HIE Network /	VHIE/Medicity - Clinical Dataset	Mike Gagnon		Data available to public with data use agreement	Clinical
255 VNAs of Vermont Member Agencies /	McKesson Home Health Data	Arsi Namdar	namdar@vnacares.org	No access to data	
256 VPQHC /	Patient Safety Surveillance and Improvement System (PSSIS)	Deb Wilcox	deb.wilcox@state.vt.us	No access to data	SurveillanceClinical
257 Washington County Mental Health Services (WCMHS) /	Washington County Mental Health Crisis Services Scorecard			No	SurveyServices ProvidedPopulation

# Appendix D: Complete Detailed Inventory

# **High Priority Dataset Detailed Inventory**

## Vermont Uniform Hospital Discharge Data Set (VUHDDS) Public Use Files

## 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing VAHHS /

Contact Name Barbara Carroll

Contact Email barbara.carroll@vermont.gov

Contact phone (802) 865-7704

## 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

### 3. Content

Description The Public Use Files are derived from the Vermont Uniform Hospital Discharge

Data Set (VUHDDS). With the Public Use Files, data users can generate their own reports about the use of the Vermont hospitals by residents and non-

residents.

Years Collected 2002-2012 (ongoing)

Source Dataset VUHDDS Research Data Set

Data Collection Method Clinical Record

Type of Data Surveillance,

Utilization, Services Provided, Clinical

## 4. Operations: Cost

Acquisition Cost \$0

Operations and Management Cost \$125,000

FTE 1

Source of Funding: %Federal %State %Private %Other

67 33 0 0

## 4. Operations: Storage

Data StorageFormat Other DB Format

Data Storage Location In-House Server

Database Size 1 GB - 50 GB

#### 5. Access and Governance

Is the dataset available to the public? Record level data available (deidentified)

Type of Use Restriction HIPAA

Use Restriction Details VDH creates record-level, limited public use files and posts them to VUHDDS

and VDH web sites. These are de-identified datasets.

# Vermont Uniform Hospital Discharge Data Set (VUHDDS) Public Use Files

## 6. Metadata

Metadata Status: Complete

Metadata Format Packaged with data

7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

## **Immunization Registry - IMR**

### 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing Department of Health (AHS) / Division of Health Surveillance

Contact Name Bridget Ahrens

Contact Email briget.ahrens@vermont.gov

Contact phone (802) 951-4094

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

The Vermont Immunization Registry (IMR) is a confidential, computerized system for maintaining immunization records. It tracks the dates of immunizations given, prints reports for parents/schools, and provides guidance for timing of vaccine administration

#### 3. Content

Description Sec. 8. 18 V.S.A. § 1129 Vermont State Law Regarding Immunization

Registry>>§ 1129. IMMUNIZATION REGISTRY >(a)A health care provider shall report to the Department all data regarding immunizations of adults and

of children under 18 years of age within

Years Collected 2004 - present (ongoing)

Source Dataset NA

Data Collection Method Registry

Type of Data Clinical

### 4. Operations: Cost

Acquisition Cost \$3,500,000 over 5

years

Operations and Management Cost \$1,200,000

(\$232,000 subcontract; \$968,000 7.4

FTE)

FTE 7.4

Source of Funding: %Federal %State %Private %Other

95 5 0% 0%

### 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location In-House Cloud

Database Size 1 - 100 MB

## 5. Access and Governance

Is the dataset available to the public? Individuals may request personal record;

Aggregate data otherwise

Type of Use Restriction Agency restriction, HIPAA

# **Immunization Registry - IMR**

Use Restriction Details a. Agency data use agreement, other agency restriction, HIPAA, federal

restriction, other?. The Immunization Registry contains protected health information, and is limited by both HIPAA, and VT law. We also follow the

protocol for Data Release established

Data Output format PDF Data briefs; Summary data upon request; Restricted web application

## 6. Metadata

Metadata Status: Complete

Metadata Format Data Dictionary; User

Manual; IMR Limitations

Document

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

## VHIE/Medicity - Clinical Dataset

### 1. Responsible Organization:

Organization/Agency VITL - VT HIE Network /

Organization Collecting or Managing VITL - VT HIE Network /

Contact Name Mike Gagnon

Contact Email mgagnon@vitl.net

Contact phone

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

Yes.

### 3. Content

Description clinical data including demographic, lab, radiology, transcribed reports, care

summaries and some immunization

Years Collected 2010 - present (ongoing)

Source Dataset VHIE/Medicity - Clinical Dataset

Type of Data Clinical

4. Operations: Cost

Acquisition Cost \$25,000,000

Operations and Management Cost \$5,000,000

FTE >5

Source of Funding: %Federal %State %Private %Other

50 40 10 0%

4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Cloud

Database Size > 50 GB

5. Access and Governance

Is the dataset available to the public? Data available to public with data use agreement

Type of Use Restriction HIPAA

**Use Restriction Details** 

Data Output format Restricted web application

6. Metadata

Metadata Status: Incomplete

Metadata Format Packaged with data

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

## Vital Records - Birth (EBRS)

### 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing Department of Health (AHS) / Division of Health Surveillance

Contact Name Cindy Hooley

Contact Email cindy.hooley@vermont.gov

Contact phone (802) 651-1636

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

Statutory requirements for vital events to be reported to Department of Health and for the Department to track events and to prepare annual report.

#### 3. Content

Description When a birth occurs, the physician, midwife, or other birth attendant is required

to complete a birth certificate and file it with the town clerk in the town of birth within 5 days. For hospital births, it is usually the medical records staff who

complete

Years Collected 1980 - present (ongoing)

Source Dataset NA

Data Collection Method Provider, Registry

Type of Data Demographic, clinical

### 4. Operations: Cost

Acquisition Cost \$2,500,000

Operations and Management Cost \$75,000

(excluding FTE)

FTE 8.5 (shared

with among all

Vital Records)

Source of Funding: %Federal %State %Private %Other

35 65 0 0

## 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Cloud

Database Size NA

## 5. Access and Governance

Is the dataset available to the public? Certificates; De-identified record level medical

info

Type of Use Restriction HIPAA, Other

Use Restriction Details Vital Records data release is governed by HIPAA (such as the medical

information) and VT law (such as public records statutes and vital records statutes). Please refer to 18 VSA, the chapter on Vital Records. . . Births can

# **Vital Records - Birth (EBRS)**

only be released at record lev

Data Output format certificates; aggregate through VDH Instant Atlas App; Annual report

### 6. Metadata

Metadata Status: Available

from CDC National Center for Health Statistics

Metadata Format NA

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

### Vital Records - Death (EDRS)

## 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing Department of Health (AHS) / Division of Health Surveillance

Contact Name Cindy Hooley

Contact Email cindy.hooley@vermont.gov

Contact phone (802) 651-1636

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

Statutory requirements for vital events to be reported to Department of Health and for the Department to track events and to prepare annual report.

#### 3. Content

Description Although a physician, physician assistant, or advanced practice registered nurse

is responsible for filing the death certificate, the job may be, and often is, delegated to the funeral director. Most of the information needed to complete

the death certifi

Years Collected 1985 - present (ongoing)

Source Dataset NA

Data Collection Method Provider

Type of Data Demographic, cause of

death information

### 4. Operations: Cost

Acquisition Cost \$4,000,000

Operations and Management Cost \$150,000(exclu

ding FTE)

FTE 8.5 (shared

with among all Vital Records)

Source of Funding: %Federal %State %Private %Other

35 65 0 0

### 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Server

Database Size NA

### 5. Access and Governance

Is the dataset available to the public? Cerificates; Record level except SSN

Type of Use Restriction HIPAA, Other

Use Restriction Details Vital Records data release is governed by HIPAA (such as the medical

information) and VT law (such as public records statutes and vital records statutes). Please refer to 18 VSA, the chapter on Vital Records. There are

# **Vital Records - Death (EDRS)**

sections discussing release of cert

Data Output format certificates; aggregate through VDH Instant Atlas App; Annual report

### 6. Metadata

Metadata Status: Available

from CDC National Center for Health Statistics

Metadata Format NA

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

## Vital Records - (Marriage, Divorce, Civil Unions, Dissolutions, ITOPs, and Fetal Deaths)

### 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing Department of Health (AHS) / Division of Health Surveillance

Contact Name Cindy Hooley

Contact Email cindy.hooley@vermont.gov

Contact phone (802) 651-1636

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

Statutory requirements for vital events to be reported to Department of Health and for the Department to track events and to prepare annual report.

#### 3. Content

Description Statewide vital registration in Vermont began in 1857, when the General

Assembly passed legislation requiring towns to report all births, marriages, and

deaths to the Secretary of State. Prior to that time, some towns kept such

records in order to resolve

Years Collected Marriages and Divorces:1989 - present (ongoing); Civil Unions 2000 - 2009;

Dissolutions 2001-present (ongoing); ITOPs and Fetal Deaths 1989 - present

Source Dataset NA

Data Collection Method Registry

Type of Data Population,

Demographic, medical (ITOPs and Fetal Deaths only)

### 4. Operations: Cost

Acquisition Cost \$100,000

Operations and Management Cost \$25,000(excludi

ng FTE)

FTE 8.5 (shared

with among all Vital Records)

Source of Funding: %Federal %State %Private %Other

35 65 0 0

### 4. Operations: Storage

Data StorageFormat MS Access

Data Storage Location In-House PC

Database Size NA

## 5. Access and Governance

Is the dataset available to the public? Certificates and record level except

confidentials; ITOPs and Fetal Deaths:

aggregate data only

# Vital Records - (Marriage, Divorce, Civil Unions, Dissolutions, ITOPs, and Fetal Deaths)

Type of Use Restriction Other

Use Restriction Details Refer to 18 V.S.A. § 5222(d). Vital Records data release is governed by HIPAA

(such as the medical information) and VT law (such as public records statutes  $\,$ 

and vital records statutes). Please refer to 18 VSA, the chapter on Vital

Records. There are secti

### 6. Metadata

Metadata Status: None Metadata Format NA

## 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

## Behavioral Risk Factor Surveillance System (BRFSS)

## 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing Department of Health (AHS) / Division of Health Surveillance

Contact Name Jessie Hammond

Contact Email jessie.hammond@vermont.gov

Contact phone (802) 863-7663

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

#### 3. Content

Description Vermont tracks risk behaviors using a telephone survey of adults called the

Behavioral Risk Factor Surveillance Survey (BRFSS). The results are used to plan,

support, and evaluate health promotion and disease prevention programs. These are used to track D

These are asea to track

Years Collected 1990-2013 (ongoing)

Source Dataset NA

Data Collection Method Survey

Type of Data Survey, Population

### 4. Operations: Cost

Acquisition Cost \$10,000 - \$50,000

Operations and Management Cost \$497,000

(\$287,000 subcontract; \$210,000 1.5

FTE)

FTF 2

Source of Funding: %Federal %State %Private %Other

65 35 0 0

### 4. Operations: Storage

Data Storage Format

Data Storage Location In-House Server

Database Size 100 MB - 1 GB

### 5. Access and Governance

Is the dataset available to the public? Aggregate data only, report format

Type of Use Restriction Agency Data Use Agreement, Agency restriction, Other

Use Restriction Details The BRFSS data contains protected health information, and is limited by HIPAA.

We also follow the protocol for Data Release established by the Division of Health Surveillance in the VT Department of Health. . b. Details regarding

restriction. The BRF

# **Behavioral Risk Factor Surveillance System (BRFSS)**

Data Output format Web Application – Public at CDC

## 6. Metadata

Metadata Status: Yes: Code

Book; Data User Notes

Metadata Format Electronic

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

### **VHCURES**

# 1. Responsible Organization:

Organization/Agency Green Mountain Care Board (GMCB) /

Organization Collecting or Managing OnPoint Health /

Contact Name Susan Barrett

Contact Email susan.barrett@state.vt.us

Contact phone (802) 828-2177

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

Yes: http://legislature.vermont.gov/statutes/section/18/221/09410 requires the GMCB to create a "unified health care database"

#### 3. Content

Description Claims, membership, and provider data for commercial plans, self-insured,

Medicaid, and Medicare (limited to certain users)

Years Collected 2007 - present (ongoing)

Source Dataset NA

Data Collection Method Claim

Type of Data Population, Provider

Information, Claim

### 4. Operations: Cost

Acquisition Cost NR

Operations and Management Cost NR

FTE NR

Source of Funding: %Federal %State %Private %Other

67 13 20 0%

### 4. Operations: Storage

Data StorageFormat MS Access

Data Storage Location Contractor Server

Database Size > 50 GB

### 5. Access and Governance

Is the dataset available to the public? Data Use Agreement

Type of Use Restriction Agency Data Use Agreement, HIPAA

Use Restriction Details Potential users must be approved by the Data Governance Council and

complete a data use agreement.

Data Output format NR

### 6. Metadata

Metadata Status: Incomplete

Metadata Format NA

# **VHCURES**

7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

### **Blueprint for Health Analytics Dataset**

## 1. Responsible Organization:

Organization/Agency Department of Vermont Health Access (DVHA) / Blueprint for Health Program

Organization Collecting or Managing OnPoint Health /

Contact Name Tim Tremblay

Contact Email timothy.tremblay@state.vt.us

Contact phone (802) 654-8923

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

The Blueprint program itself has a legislative mandate and this data supports that program.

### 3. Content

Description Blueprint analytics dataset, managed by Onpoint Health Data, combining claims

(VHCURES), clinical (Docsite), and survey data. Contains a specialized Medicare claims dataset authorized under the Medicare Multi-payer Advanced Primary

Care Practice (MAPCP)

Years Collected 2007 - present (ongoing)

Source Dataset DocSite Clinical Data RepositoryVHCURES

Data Collection Method Clinical RecordClaim

Type of Data Clinical, Claim

### 4. Operations: Cost

Acquisition Cost NR

Operations and Management Cost \$1,000,000

(subcontract)

FTE NR

Source of Funding: %Federal %State %Private %Other

66% (HIT 44% 0% 0%

Fund) (HIT

Fund)

## 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Server

Database Size 1 GB - 50 GB

### 5. Access and Governance

Is the dataset available to the public? No access to data

Type of Use Restriction Agency restriction, HIPAA, Other, Other federal restriction

Use Restriction Details Same use restriction that applies to VHCURES and the clinical dataset

Data Output format Report (PDF, Word)

#### 6. Metadata

Metadata Status: Incomplete

# **Blueprint for Health Analytics Dataset**

Metadata Format NA

7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

## **Household Health Insurance Survey (VHHIS)**

### 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing Department of Health (AHS) / Division of Health Surveillance

Contact Name Jessie Hammond

Contact Email jessie.hammond@vermont.gov

Contact phone (802) 863-7663

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

18 V.S.A. § 9410 is a legislative mandate related to VHHIS. This was amended during the 2015 legislative session to say that at least every three years, the Commissioner of Health is required to submit to the general assembly a recommendation for conducti

### 3. Content

Description Periodic household surveys of Vermont residents to accurately measure the

uninsured rate and coverage sources for insured residents and also collects information on relevant demographic, income, and employment characteristics.

The surveys support informat

Years Collected 2005, 2008, 2009, 2012, 2014, ongoing

Source Dataset Household Health Insurance Survey (VHHIS)

Data Collection Method Survey

Type of Data Survey, Coverage

## 4. Operations: Cost

Acquisition Cost ~\$5,000

Operations and Management Cost \$441,000

(\$300,000 subcontract;\$14 1,000 FTE)

FTE 1

Source of Funding: %Federal %State %Private %Other

0% 100 0% 0%

### 4. Operations: Storage

Data StorageFormat Other DB Format

Data Storage Location In-House Server

Database Size <1 MB

#### 5. Access and Governance

Is the dataset available to the public? Aggregate data only, report format

Type of Use Restriction Agency restriction, HIPAA

Use Restriction Details VHHIS data contains protected health information, and is limited by HIPAA. We

also follow the protocol for Data Release established by the Division of Health

Surveillance in the VT Department of Health.

# **Household Health Insurance Survey (VHHIS)**

Data Output format CSV Text by website download, Report (PDF, Word)

### 6. Metadata

Metadata Status: Incomplete

Metadata Format Available by Download,

Packaged with data

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

NR

## **Expenditure Analysis**

## 1. Responsible Organization:

Organization/Agency Green Mountain Care Board (GMCB) /

Organization Collecting or Managing Green Mountain Care Board (GMCB) /

Contact Name Mike Davis

Contact Email mike.davis@vermont.gov

Contact phone (802) 828-2989

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

statute reference 18 V.S.A. § 9375a

### 3. Content

Description source of Vermont health care spending. The Vermont Health Care Expenditure

Analysis presents two separate>reports 1) health care spending for services delivered in Vermont; and>2) for services provided to Vermont residents

within Vermont and in>other

Years Collected 1992-present (ongoing)

Source Dataset VUHDDS Research Data SetAnnual Statement Supplement Report

(ASSR)VHCURES Analytical Extracts - TruvenWorkers CompNursing Home Rate Setting DataHospital Budget DataState Health Care Expenditure Data

by Provider LocationState Health Care Expenditure

Data Collection Method ProviderClaimSurvey

Type of Data Utilization, Population,

Provider Information, Financial, Claim

## 4. Operations: Cost

Acquisition Cost \$107,000

Operations and Management Cost \$31,000

FTE 2

Source of Funding: %Federal %State %Private %Other

60% 13% 20% 7% Global Commitment

(Matched Medicaid Funds)

### 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Cloud

Database Size 1 - 100 MB

## 5. Access and Governance

Is the dataset available to the public? Aggregate data only, digital format

Type of Use Restriction None
Use Restriction Details na

# **Expenditure Analysis**

Data Output format MS Excel, Report (PDF, Word)

### 6. Metadata

Metadata Status: Needs review

Metadata Format Hard copy available

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

Various - see Annual reports for graphs, charts, schedules, and narrative describing data.. Metadata - in process

## **Hospital Budget Data**

### 1. Responsible Organization:

Organization/Agency Green Mountain Care Board (GMCB) /

Organization Collecting or Managing Green Mountain Care Board (GMCB) /

Contact Name Mike Davis

Contact Email mike.davis@state.vt.us

Contact phone (802) 828-2989

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

Yes - see statute reference 18 V.S.A. § 9451-9457

### 3. Content

Description Detailed revenue, expenditure, utilization, capital and balance sheet data for

Vermont's 14 non-profit community hospitals. >>Hospitals login to

dashboard to enter information>Trying to make dashboard available to GMCB

and public>Public: Act 53 link

Years Collected 1988 - present (ongoing)

Source Dataset Hospital Budget DataVermont Uniform Hospital Discharge Data Set

(VUHDDS) Public Use Files

Data Collection Method Provider

Type of Data Utilization, Financial

### 4. Operations: Cost

Acquisition Cost \$107,000

Operations and Management Cost \$31,000

FTE 3

Source of Funding: %Federal %State %Private %Other

60% 40% 0% 0%

### 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Cloud

Database Size 100 MB - 1 GB

### 5. Access and Governance

Is the dataset available to the public? Aggregate data only, digital format

Type of Use Restriction None

Use Restriction Details na. Data set no easily available to public. Summary info and reports available.

Data Output format MS Excel, Report (PDF, Word)

### 6. Metadata

Metadata Status: Complete

Metadata Format On disk, file available

# **Hospital Budget Data**

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

There is an annual summary of the 14 hospitals data. Reports and special analyses available. Individual report of each . hospital available. Meta data available including operations process. .

### **Vermont Professional License Database**

## 1. Responsible Organization:

Organization/Agency Secretary of State - Office of Professional Regulation /

Organization Collecting or Managing Secretary of State - Office of Professional Regulation /

Contact Name Christopher WInters

Contact Email chris.winters@sec.state.vt.us

Contact phone (802) 828-2124

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

3 V.S.A. § 123, in particular, collecting data on professions and maintaining a register of licensees (sub (5) and (6)).. § 123. Duties of Office. (a) The Office shall provide administrative, secretarial, financial, investigatory, inspection, and legal se

#### 3. Content

Description This lookup serves as primary source verification of education, training and

examination history, which has been performed as part of the licensure process. With this search you can find licensing and disciplinary information

about any of our current or

Years Collected 2009 - present (ongoing)

Source Dataset Vermont Professional License Database

Data Collection Method Provider

Type of Data Licensing

## 4. Operations: Cost

Acquisition Cost \$600,000

Operations and Management Cost \$120,000

FTE NR

Source of Funding: %Federal %State %Private %Other

0 0

#### 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Cloud

Database Size > 50 GB

#### 5. Access and Governance

Is the dataset available to the public? Record level for public

Type of Use Restriction None

**Use Restriction Details** 

Data Output format Web Inquiry

#### 6. Metadata

Metadata Status: Complete Metadata Format On Web

# **Vermont Professional License Database**

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

information about licensees can, and in some cases is, being used to identify the location and extent of the health care workforce in Vermont and can be useful in allocating resources and/or incentivizing growth or movement to underserved areas. Discipli

## **Blueprint for Health Practice and Provider Database (Portal)**

## 1. Responsible Organization:

Organization/Agency Department of Vermont Health Access (DVHA) / Blueprint for Health Program

Organization Collecting or Managing Department of Vermont Health Access (DVHA) / Blueprint for Health Program

Contact Name Tim Tremblay

Contact Email timothy.tremblay@state.vt.us

Contact phone (802) 654-8923

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

The mandate is for the Blueprint program itself. Legislative made for the Blueprint.

### 3. Content

Description Web database application of Blueprint practice, provider, and Community

Health Team staffing information. Contains National Committee for Quality Assurance (NCQA) assessment scores for nationally-recognized Patient-

Centered Medical Home (PCMH) practices

Years Collected 2014 - present (ongoing)

Source Dataset NA

Data Collection Method Provider

Type of Data Provider Information

### 4. Operations: Cost

Acquisition Cost \$122,000

Operations and Management Cost \$20,000 (hosting

and security testing)

FTE >5

Source of Funding: %Federal %State %Private %Other

66% (HIT 44% 0% 0%

Fund) (HIT

Fund)

### 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Cloud

Database Size 100 MB - 1 GB

### 5. Access and Governance

Is the dataset available to the public? No access to data

Type of Use Restriction Agency restriction, Other federal restriction

Use Restriction Details

Data Output format Web Application - Restricted Access

#### 6. Metadata

# **Blueprint for Health Practice and Provider Database (Portal)**

Metadata Status: Complete

Metadata Format Hard copy available

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

critical component of what Blueprint is doing for Vermont's health care reform efforts in terms of quality measures and health outcomes

### **Health Care Provider Surveys (Census)**

## 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing Department of Health (AHS) / Division of Health Surveillance

Contact Name Moshe Braner

Contact Email moshe.braner@state.vt.us

Contact phone (802) 865-7703

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

#### 3. Content

Description The health of Vermonters depends, in part, on access to health care. The

Vermont Department of Health therefore needs to measure the supply of health care providers, including their distribution by geography and specialty.

These data are used as the bas

Years Collected select years between 1979 and 2012

Source Dataset Health Care Provider Surveys (Census)

Data Collection Method Survey

Type of Data Workforce, Survey,

**Provider Information** 

### 4. Operations: Cost

Acquisition Cost \$24,500

Operations and Management Cost \$278,000

(\$267,500 for 2.25 FTE)

FTE 2

Source of Funding: %Federal %State %Private %Other

90 10

### 4. Operations: Storage

Data StorageFormat Other DB Format

Data Storage Location In-House Server

Database Size 100 MB - 1 GB

### 5. Access and Governance

Is the dataset available to the public? Aggregate data only, report format

Type of Use Restriction Agency restriction

Use Restriction Details summaries available on VDH website

Data Output format SAS or MS Excel by request, Report (PDF, Word)

### 6. Metadata

# **Health Care Provider Surveys (Census)**

Metadata Status: Incomplete

Metadata Format Available by Download,

Packaged with data

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

Stone Recommendations: The data from these surveys should be made available in Socrata. The following are options: 1)Add each Statistical Summary PDF should be added as a record in Socrata 2)Aggregated data sets from the survey should be added to Socrata

## **VHIE Analytical Dataset**

## 1. Responsible Organization:

Organization/Agency VITL - VT HIE Network /

Organization Collecting or Managing VITL - VT HIE Network /

Contact Name Mike Gagnon

Contact Email mgagnon@vitl.net

Contact phone

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

Yes we are legislatively designated to run the exclusive statewide HIE.

### 3. Content

Description Clinical data for internal analytical use.

Years Collected 2010- present (ongoing)

Source Dataset VHIE Analytical Dataset

Type of Data Clinical

## 4. Operations: Cost

Acquisition Cost \$2,000,000

Operations and Management Cost \$1,000,000

FTE 3

Source of Funding: %Federal %State %Private %Other

50 40 10

### 4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location In-House Server

Database Size > 50 GB

### 5. Access and Governance

Is the dataset available to the public? No public access to data; Data Use Agreement

Type of Use Restriction HIPAA, Other

Use Restriction Details Data can only be shared by the agreement of the source organization or with

patient consent.

Data Output format DB

### 6. Metadata

Metadata Status: Incomplete

Metadata Format NA

## 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

Clinical data is one of the keys to healthcare reform.

## **DocSite Clinical Data Repository**

## 1. Responsible Organization:

Organization/Agency Department of Vermont Health Access (DVHA) / Blueprint for Health Program

Organization Collecting or Managing Department of Vermont Health Access (DVHA) / Blueprint for Health Program

Contact Name Tim Tremblay

Contact Email timothy.tremblay@vermont.gov

Contact phone (802) 654-8923

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

Part of the Blueprint's mandate.

### 3. Content

Description Clinical data repository, hosted in the Covisint Docsite software platform. Data

is populated from Electronic Health Record systems via messaging from the Vermont Health Information Exchange and flat file transfers, as well as from

direct data entry via w

Years Collected 2010 - present (ongoing)

Source Dataset VHIE/Medicity - Clinical Dataset

Data Collection Method ProviderClinical Record

Type of Data Clinical

4. Operations: Cost

Acquisition Cost \$1,000,000

Operations and Management Cost \$1,500,000

FTE NR

Source of Funding: %Federal %State %Private %Other

66 44 0 0

4. Operations: Storage

Data StorageFormat SQL Server

Data Storage Location Contractor Server

Database Size NA

5. Access and Governance

Is the dataset available to the public? No public access to data (Providers only)

Type of Use Restriction HIPAA

**Use Restriction Details** 

Data Output format Reports (Providers only)

6. Metadata

Metadata Status: Incomplete

Metadata Format NA

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

# **DocSite Clinical Data Repository**

Documentation not available to public

## **Youth Risk Behavior Survey**

## 1. Responsible Organization:

Organization/Agency Department of Health (AHS) / Division of Health Surveillance

Organization Collecting or Managing Department of Health (AHS) / Division of Health Surveillance

Contact Name Kristen Murray

Contact Email kristen.murray@vermont.gov

Contact phone (802) 863-7276

### 2. Purpose: Is there a Legislative or Administrative Mandate? Explain

#### 3. Content

Description Every two years since 1993, the Department of Health's Division of Alcohol and

Drug Abuse Programs, and the Department of Education's Coordinated School Health Programs have sponsored the Vermont Youth Risk Behavior Survey

(YRBS). The YRBS measures the pr

Years Collected every 2 years since 1993

Source Dataset NA

Data Collection Method Survey

Type of Data Youth, Survey,

Population

### 4. Operations: Cost

Acquisition Cost System is

maintained by contractor for data management

Operations and Management Cost \$128,000

(\$68,000 subcontract; \$60,000 FTE)

FTE 1

Source of Funding: %Federal %State %Private %Other

95 5 0 0

### 4. Operations: Storage

Data StorageFormat Other DB Format Data Storage Location In-House Server

Database Size 1 - 100 MB

### 5. Access and Governance

Is the dataset available to the public? Yes, record level data available to public

Type of Use Restriction Agency restriction

Use Restriction Details We also follow the protocol for Data Release established by the Division of

# **Youth Risk Behavior Survey**

Health Surveillance in the VT Department of Health. . YRBS record level data that are de-identified are available to the public via the CDC website. Those

wanting additional vari

Data Output format Web Application - Public, Report (PDF, Word)

### 6. Metadata

Metadata Status: Complete

Metadata Format On disk, file available

# 7. Suggestions on ways these data do or can support Vermont's health care reform efforts

There is extensive data available from the YRBS in the form of reports and through the healthy vermonters Atlas. Data are aggregated at the district, county, and HSA level. The online Atlas has an "Export" button but the link does not work. Despite the we