Accessing DISER

Diabetes Infrastructure for Surveillance, Evaluation, and Research

Alberta Health Services

Diabetes, Obesity & Nutrition Strategic Clinical Network™

December 22, 2021

Outline

What is DISER?

Applications

Research Access

Quality Improvement Access

What is DISER?

DISER

Diabetes Infrastructure for Surveillance Evaluation & Research

Alberta Health Services

Diabetes, Obesity & Nutrition Strategic Clinical Network™

December 22, 2021

What is DISER?

Diabetes Infrastructure for Surveillance, Evaluation, & Research

Practitioner Claims • Inpatient Discharges • Ambulatory Care • Prescription Drug Dispensation • Laboratory Results • Provincial Registry

DISER combines records from several clinical and administrative healthcare databases. For each patient, DISER includes demographics, vital statistics, migration, prescription drugs, lab results, medical visits, emergency department use, and hospitalizations.

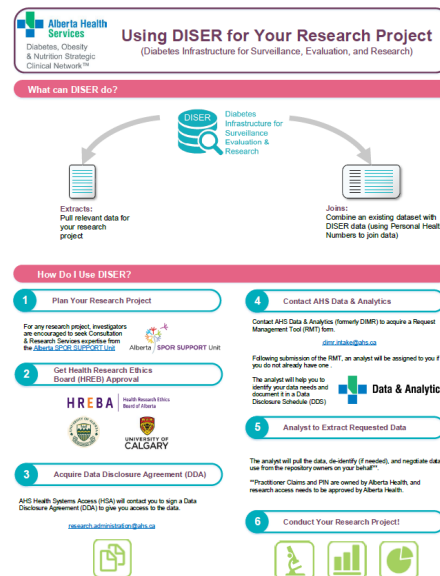**DISER** Diabetes Infrastructure for Surveillance Evaluation & Research

What is DISER?

www.ahs.ca/diser

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Project Description

Guiding Documents

Public Reports

DISER Applications

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Applications

Answering Research Questions

Combining Datasets

Cohort Generation

Cohort Analysis

Report Generation

💡 Applications: 📋 Report Generation

Who are the Albertans Living with Diabetes?
An Interactive Data Visualization

Diabetes is a disease affecting thousands of Albertans. It is defined as a condition where your body either cannot produce insulin; or you cannot properly use the insulin that your body does produce.

Explore how the demographic distribution of diabetes has changed over time by hovering your cursor over the total count for any year on the top figure "**The Past Decade**".
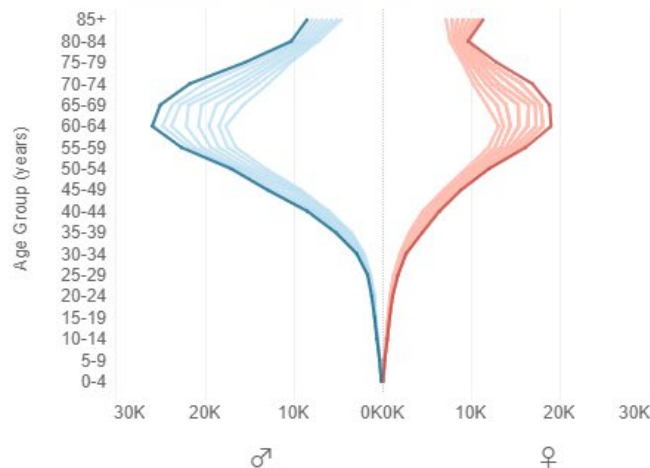
Both **total number of persons** living with diabetes; and the **prevalence** (the percentage of the total population) has been increasing in Alberta over time.
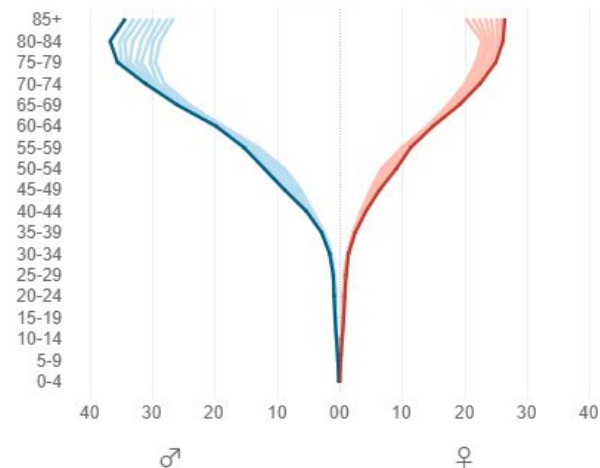
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Inspiring solutions. Together.

ALBERTA INNOVATES

Andrew Frank-Wilson, PhD
Epidemiologist, DON SCN Scientific Office

ⓘ **The Past Decade:** Population Counts (Thousands; K) with Age & Sex Standardized* Prevalence Rates (%)

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
223K	236K	250K	264K	279K	295K	309K	324K	342K	360K

5.7% ... 6.8%

Albertans (Thousands; K) Trend to 2019

Prevalence (% of Population) Trend to 2019

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Applications

Two primary types of DISER users:

Researchers

Quality Improvement Specialists

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Research Access

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Using DISER for Your Research Project
(Diabetes Infrastructure for Surveillance, Evaluation, and Research)

What can DISER do?

DISER — Diabetes Infrastructure for Surveillance Evaluation & Research

Extracts:
Pull relevant data for your research project

Joins:
Combine an existing dataset with DISER data (using Personal Health Numbers to join data)

How Do I Use DISER?

1 Plan Your Research Project

For any research project, investigators are encouraged to seek Consultation & Research Services expertise from the Alberta SPOR SUPPORT Unit

Alberta SPOR SUPPORT Unit

2 Get Health Research Ethics Board (HREB) Approval

HREBA | Health Research Ethics Board of Alberta

UNIVERSITY OF ALBERTA   UNIVERSITY OF CALGARY

3 Acquire Data Disclosure Agreement (DDA)

AHS Health Systems Access (HSA) will contact you to sign a Data Disclosure Agreement (DDA) to give you access to the data.

research.administration@ahs.ca

4 Contact AHS Data & Analytics

Contact AHS Data & Analytics (formerly DIMR) to acquire a Request Management Tool (RMT) form.

dimr.intake@ahs.ca

Following submission of the RMT, an analyst will be assigned to you if you do not already have one.

The analyst will help you to identify your data needs and document it in a Data Disclosure Schedule (DDS)

Data & Analytics

5 Analyst to Extract Requested Data

The analyst will pull the data, de-identify (if needed), and negotiate data use from the repository owners on your behalf**.

**Practitioner Claims and PIN are owned by Alberta Health, and research access needs to be approved by Alberta Health.

6 Conduct Your Research Project!

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Research Access

There are 6 steps:

1 **Plan Your Research Project**

2 **Health Research Ethics Board Approval**

3 **Acquire AHS Data Disclosure Agreement**

4 **Contact AHS Data & Analytics (DnA)**

5 **AHS Analyst(s) Extract Requested Data**

6 **Conduct Your Research Project**

🔬 Research Access

1 **Plan Your Research Project**

Data & Research Services:

👩‍⚕️ Principal Investigators can contact

- Alberta SPOR SUPPORT Unit
  - Grant Funding Letters of Support
  - Feasibility
  - Design
  - Execution
  - Analysis
  - Knowledge Translation
  - Etc.

Alberta **SPOR SUPPORT** Unit

https://absporu.ca/research-services/

🔬 Research Access

2 **Get Health Research Ethics Board Approval:**

✓ Health Research Ethics Board

🔬 Research Access

3 **Acquire Data Disclosure Agreement:**

✓ AHS Administrative Approval

• AHS Research Administration

💻 research.administration@ahs.ca

🔬 Research Access

3 **Acquire Data Disclosure Agreement:**

Process initiated with a request for Data or System Access
- Request is submitted via online form coordinated with the research ethics approval

Health System Access Questionnaire:

https://extranet.ahsnet.ca/teams/AHSRA/PRA_Resources/PRA%20Pages/PRA%20Questionnaire.aspx

Research Access

How do I submit my request for Data or health System Access?

[Health System Acccess Questionnaire:](https://extranet.ahsnet.ca/teams/AHSRA/PRA_Resources/PRA%20Pages/PRA%20Questionnaire.aspx)

https://extranet.ahsnet.ca/teams/AHSRA/PRA_Resources/PRA%20Pages/PRA%20Questionnaire.aspx

🔬 Research Access

Submitting my request for data or health system access

Indicate the method of data access (choose all that applies):

☐ Paper Charts — *Paper Charts direct access is defined as research staff requiring hands-on access to paper records at the clinic site or from Health Information Management (HIM).*

DISER Data is by Extraction ➤ ☑ Extraction — *Data extraction is defined as a data product extracted as reports from an data source by an AHS analyst/ Information Manager.*

Indicate the name(s) of database(s) for extraction and the analyst name(s) supporting the extraction (if known):

Database

DIMR/Analytics AHSDRR ➤
- ☑ DIMR/ Analytics AHSDRR
- ☐ eCritical
- ☐ HIM Calgary Zone
- ☐ HIM Central Zone
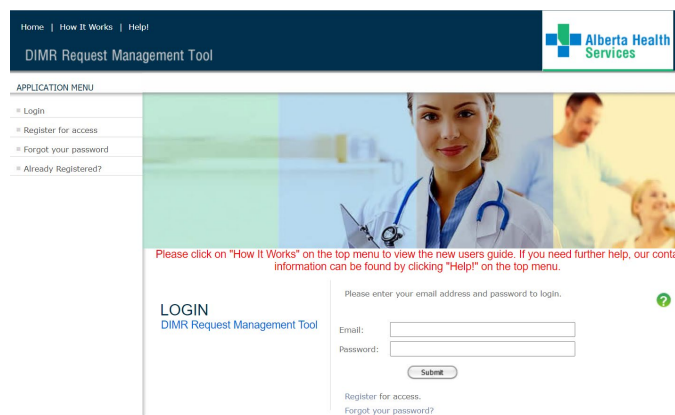- ☐ HIM Edmonton Zone

🧭 DISER is a set of tables in Alberta Health Services' Data Repository for Reporting (AHSDRR)

🔬 Research Access

4 **Contact AHS Data & Analytics (DnA)**

Submit AHS Request Management Tool Ticket to
AHS Data & Analytics (*Formerly DIMR*)

dimr.intake@ahs.ca

🔬 Research Access

5 **AHS Analyst(s) Will:**

Extract your data

Negotiate data use from the necessary repository owners on your behalf

De-identify extracted records

Securely transmit data to you

Research Access

6 **Conduct Your Research Project**

Quality Improvement Access

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Using DISER for Your Quality Improvement Project
(Diabetes Infrastructure for Surveillance, Evaluation, and Research)

What can DISER do?

DISER — Diabetes Infrastructure for Surveillance Evaluation & Research

Extracts:
Pull relevant data for your QI project

Joins:
Combine your existing dataset with DISER data (using Personal Health Numbers to join data)

How Do I Use DISER?

1 Plan Your Quality Improvement Project

A Request Management Tool (RMT) ticket with AHS Data & Analytics (DnA) can be opened early for the purpose of determining project feasibility.

Data & Analytics

2 Confirm Project Purpose

arecci
A pRoject Ethics Community Consensus Initiative

The Alberta Innovates ARECCI Tool is recommended to assist in determining whether or not a project is primarily for quality improvement or for research

3 Contact AHS Data & Analytics (DnA; formerly DIMR)

Submit a Request Management Tool (RMT) ticket online:
http://dimr1.albertahealthservices.ca:8080/ahs/
Or, contact Data & Analytics to acquire a RMT form.
dimr.intake@ahs.ca

If you have a designated analyst, list their name on the RMT form, otherwise, an analyst will be assigned to you. The analyst will help you to identify your data needs and document it in a Data Disclosure Schedule (DDS). A privacy compliance review will also be performed by the Enterprise Data Warehouse team.

4 Analyst to Extract Requested Data

The analyst will pull the data, de-identify (if needed), and negotiate data use from the repository owners on your behalf (if required).

5 Conduct Your Quality Improvement Project!

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Quality Improvement Access

There are 5 Steps:

1	**Plan Your Quality Improvement Project**
2	**Verify Your Project Purpose**
3	**Contact Data & Analytics (DnA)**
4	**AHS Analyst(s) Extract Requested Data**
5	**Conduct Your Quality Improvement Project**

Quality Improvement Access

1 **Plan your Quality Improvement Project**

Feasibility assessments:

- Data & Analytics (DnA) Request

  Management Tool

Data & Analytics

Quality Improvement Access

2 **Confirm Project Purpose**

✓ A Project Ethics Community Consensus Initiative
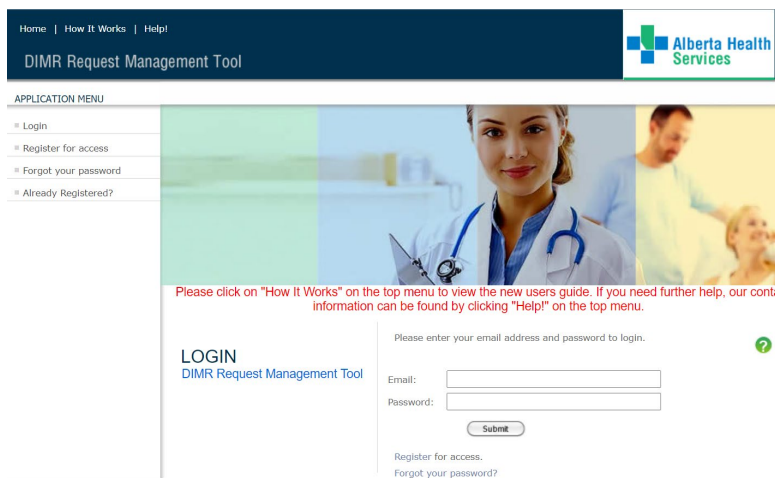
- Minimize and mitigate ethical risks

arecci

A p**R**oject **E**thics **C**ommunity **C**onsensus **I**nitiative

https://albertainnovates.ca/programs/arecci/

🎯 Quality Improvement Access

3 **Contact AHS Data & Analytics (DnA)**

Submit AHS Request Management Tool Ticket to
AHS Data & Analytics

http://dimr1.albertahealthservices.ca:8080/ahs/

Quality Improvement Access

4 **AHS Analyst(s) will:**

Extract your data

Negotiate data use from the necessary repository owners on your behalf

De-identify extracted records

Securely transmit data to you

Quality Improvement Access

| 5 | **Conduct Your Quality Improvement Project** |

Acknowledgements

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Questions?

www.ahs.ca/diser

don.scn@ahs.ca

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