

# Chronic Disease Innovation Centre (CDIC)

Reid Whitlock M.Sc.  
Data Decision Support Analyst

**Opening a Door to the World: Health Innovation  
Powered by Data**

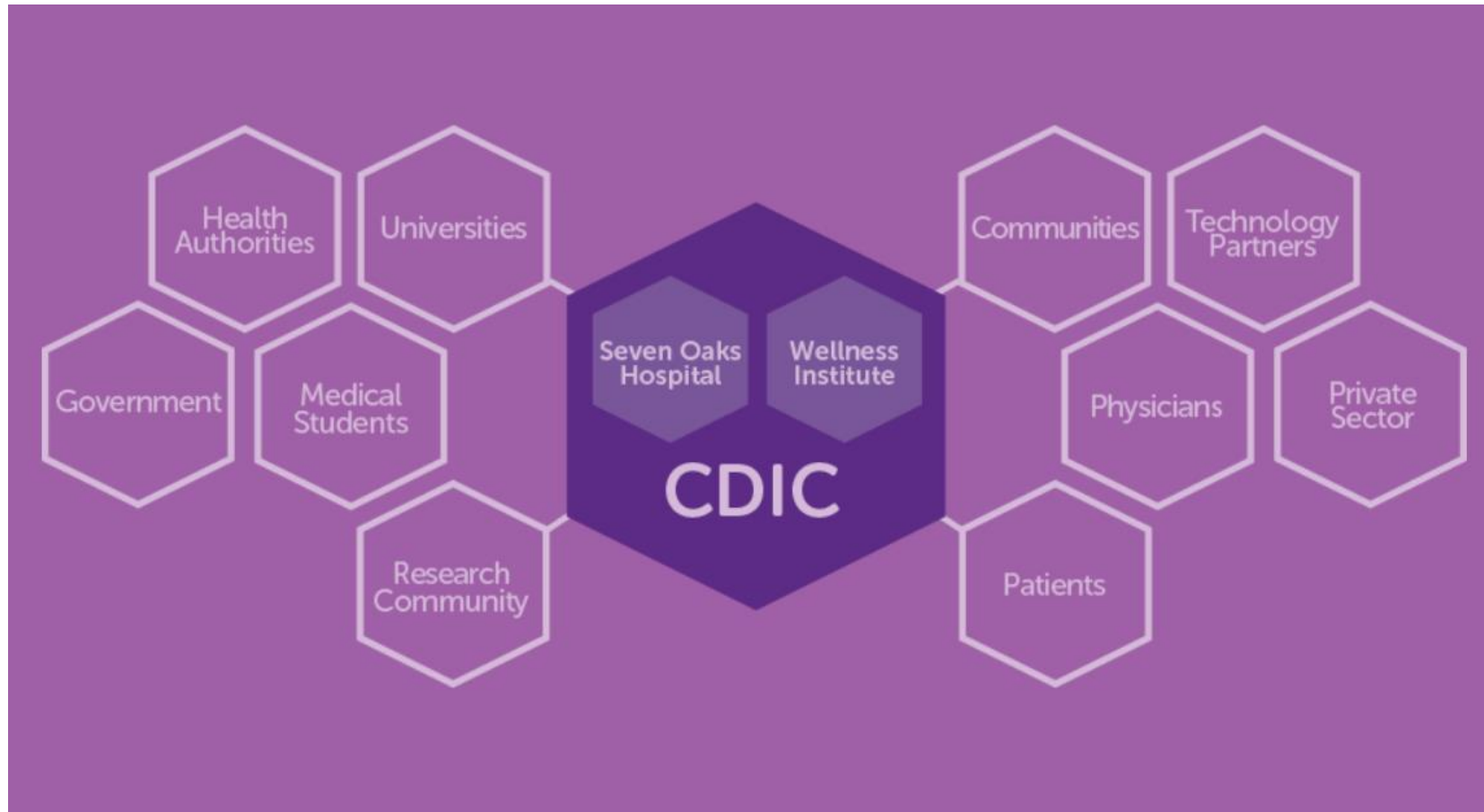


Chronic Disease  
Innovation Centre

# About CDIC

- We endeavor to:
  - Improve health, healthcare and well being of our patients
  - Spur innovation that reduces healthcare costs
  - Bring new healthcare product and technologies to market
  - Provide local, national and international reach
  - Unite experts from healthcare, research, academic, medical device and business sectors

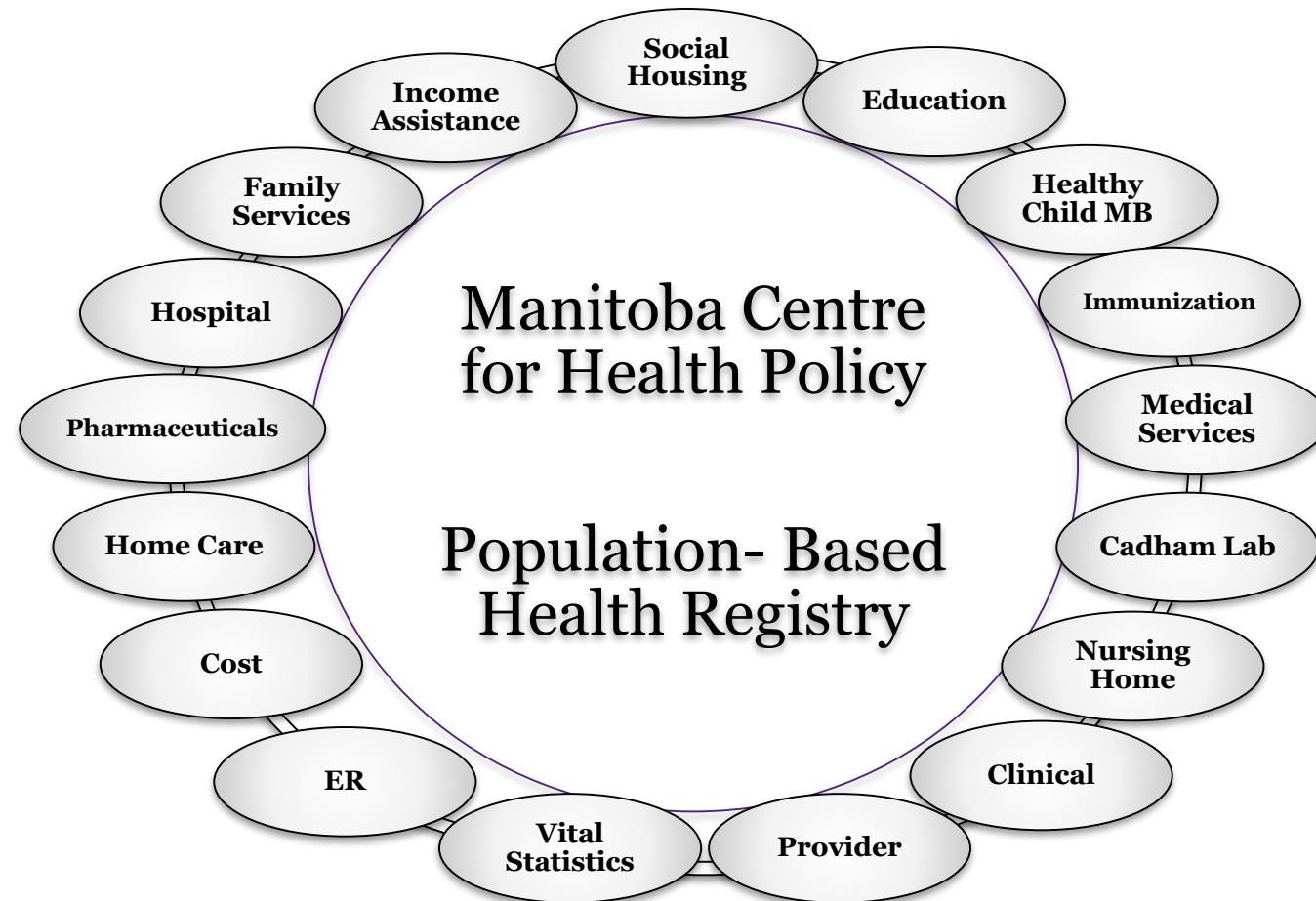
# CDIC Structure



# CDIC Skillset and Team

- Epidemiology & Biostatistics
- Health Economics
- Clinical Trials
- Technology
- Patient Partnerships

# Data Acquisition



# Success and Challenges

- **Successes**

- Development of valuable core competencies
- Publications in peer-reviewed journals
- Collaboration and training opportunities

- **Challenges**

- Length of time
- Lack of centralized data acquisition process
- Greater computing power required for ever larger datasets

# Public Sector vs. Private Sector Data Projects

- Public Sector
  - \$ held at academic institution
    - Restrictions
  - Contract process goes through academic institution
  - Extra fees for overhead
  - Payments are pre-defined lump sums
- Private Sector
  - \$ held at CDIC
    - More freedom
  - Contract process goes through CDIC
  - Extra fees for contract review
  - Payments are milestone based

Data acquisition process is largely the same and both types of clients have reporting requirements.

# Case Study: Public Sector Project

- Validation of Kidney Failure Risk Equation in Manitoba



## A Predictive Model for Progression of Chronic Kidney Disease to Kidney Failure

JAMA, April 20, 2011—Vol 305, No. 15

## Validation of the Kidney Failure Risk Equation in Manitoba





# Case Study: Private Sector Project

- Global Project with SGLT-2 Inhibitors



**Cardiovascular Events Associated  
With SGLT-2 Inhibitors Versus Other  
Glucose-Lowering Drugs**

The CVD-REAL 2 Study

JACC VOL. 71, NO. 23, 2018

JUNE 12, 2018:2628-39

# Future Directions

- Data Warehouse with real-time health data
- Committee to streamline data acquisition process
- Continue to develop local, national and international collaborations
- Working with other types of data

# Final Thoughts

- In-house multidisciplinary team
- Continue to nurture an ecosystem of diverse stakeholders
- Harness unique position of having a plethora of population-based health data

# Thank you!

<https://changinghealthcaredelivery.ca/>



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