

CIC 2014 CCI

December 2-4
2 - 4 décembre
OTTAWA

Canadian Immunization Conference
Conférence canadienne sur l'immunisation

#Success! - Immunization Registries @ Work

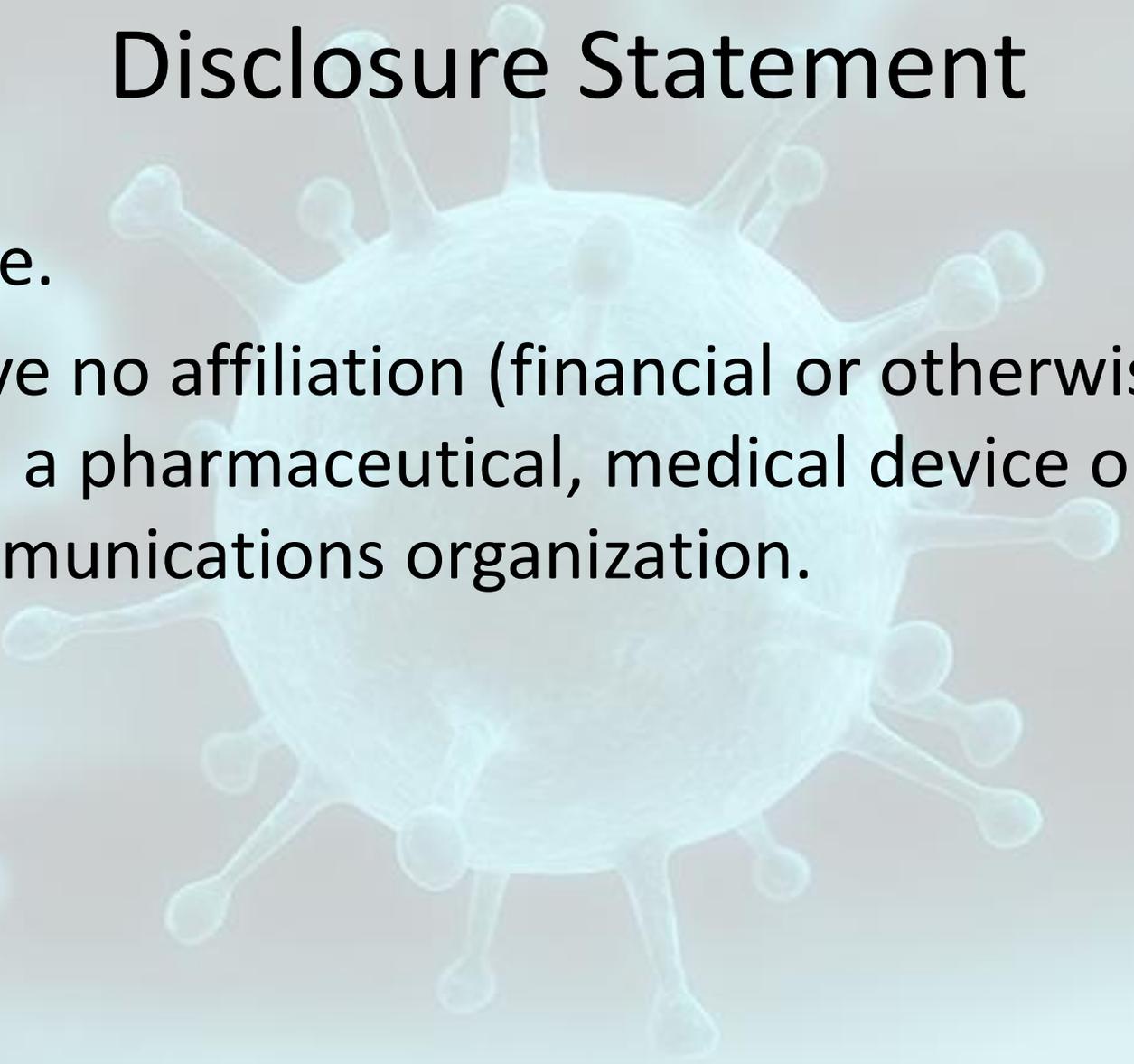
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Disclosure Statement



- None.
- I have no affiliation (financial or otherwise) with a pharmaceutical, medical device or communications organization.

Media Headlines

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Absence of vaccine registry hampers ability to track vaccine-preventable outbreaks

by Ann Silversides & Terrence Sullivan
SEPTEMBER 6, 2012

TAGS: [disease prevention](#), [public health](#), [Vaccines](#)

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Are Canadian kids undervaccinated? Or is it that we just don't know?

HELEN BRANSWELL

The Canadian Press

Published Monday, Apr. 22 2013, 5:54 PM EDT

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Measles outbreaks spotlight need for national registry

Low vaccination rates in Canada contribute to preventable disease outbreaks, doctor says

CBC News | Posted: May 26, 2014 2:59 PM ET | Last Updated: May 26, 2014 2:59 PM ET

Measles vaccination: a shot of common sense

Gordon Giddings MD

We also need a national vaccination registry, as well as an overseeing body that will work with the National Advisory Committee on Immunization to address vaccine hesitancy.

CMAJ February 22, 2011 vol. 183 no. 3 First published January 17, 2011,
doi: 10.1503/cmaj.109-3778



News

Experts call for national immunization registry, coordinated schedules

Laura Eggertson

The Canadian Public Health Association and leading pediatricians and immunologists are calling for a national immunization registry and harmonized vaccination schedules so no one risks missing a vaccine because of where they live.

CMAJ October 9, 2007 vol. 177 no. 8 doi: 10.1503/cmaj.071199

News

Vaccine–autism link discounted, but effect of “study” is unknown

Dan Lett

Without a national registry, it is impossible to determine with absolute certainty what kind of “uptake” there has been on all the major childhood **vaccines** (CMAJ 2007;176[13]:1811–3).

Some Potential Benefits/Use of Immunization Registries

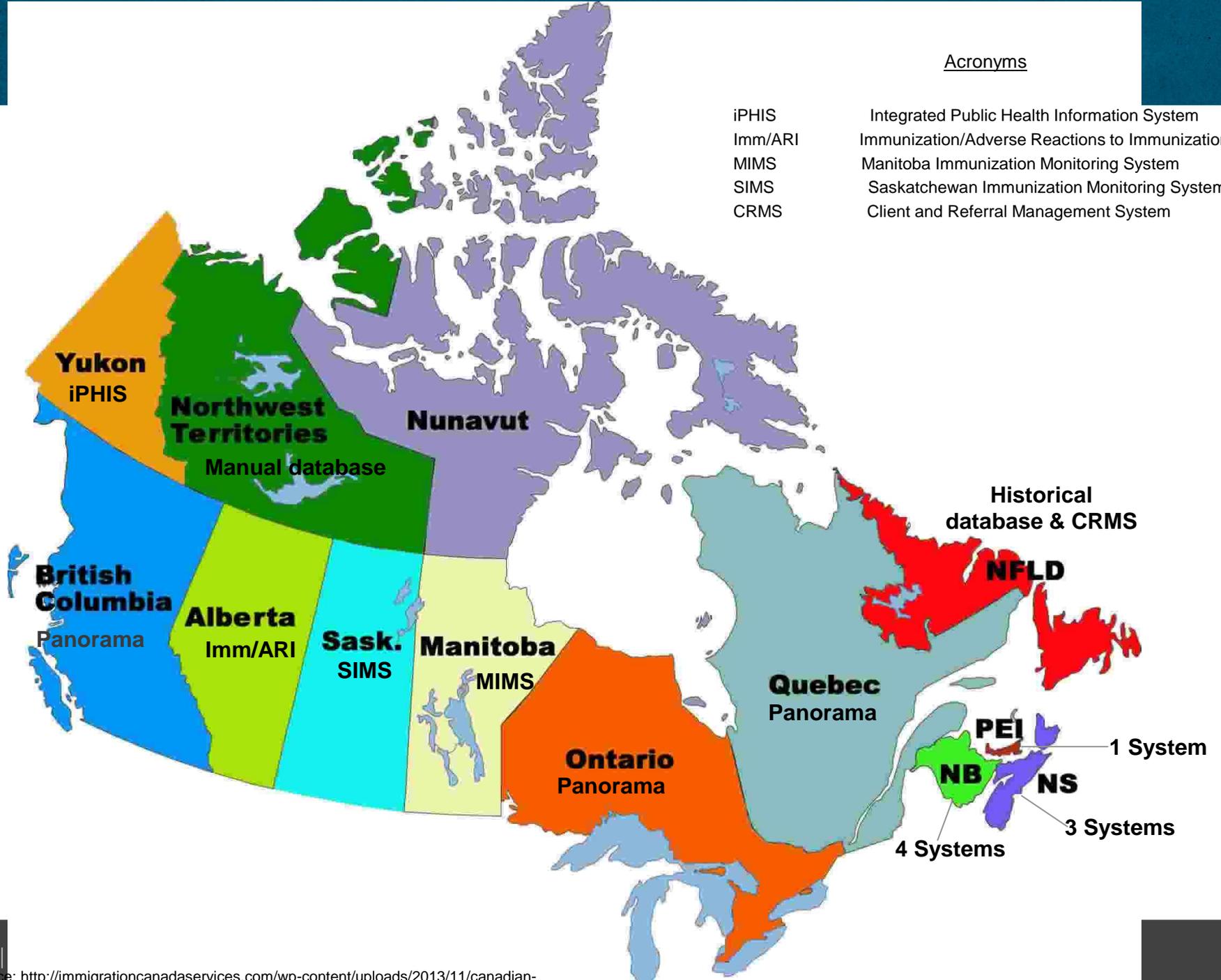
- Capture data on the administration of vaccine doses at the individual level within the population
- Represent an important tool in determining the level of protection in a population against vaccine-preventable diseases
- Record adverse events
- Evaluate immunization programs
- Provide timely and reliable records of vaccine uptake and of vaccine related events
- Facilitate the assessment of vaccine safety and effectiveness
- Play an important role in clinical assessment by providing information that supports efforts to ensure individuals receive the recommended vaccines
- Help to obtain high immunization coverage by identifying pockets of unvaccinated individuals or groups
- Tracking of immunization records as people move from either within or between jurisdictions
- Larger database can assist with lot recalls, in identifying obscure AEFIs and vaccine failures
- Decrease in duplication of immunization events
- Increases ability to offer preventative care to high risk individuals and better service to the Canadian population

Current Situation

- Data is required to determine the level of protection in population against vaccine preventable diseases
- Immunization data collection is a jurisdictional responsibility
- Findings suggest a multitude of challenges with the concept of a national immunization registry
- There is a wide variety of databases across the country making data sharing as well as national data collection and tracking challenging

Acronyms

iPHIS	Integrated Public Health Information System
Imm/ARI	Immunization/Adverse Reactions to Immunization
MIMS	Manitoba Immunization Monitoring System
SIMS	Saskatchewan Immunization Monitoring System
CRMS	Client and Referral Management System



Some of the challenges related to the implementation of immunization registries

- Significant delays in the rolling out of registries
- In some cases, reduction in scope due to functionality or other issues
- High cost and resource requirements
- Competing health care priorities
- Lack of interoperability with other systems
- Legal and policy barriers to information sharing

Nevertheless, while there are challenges a lot of work has been done in this area.

Background

- **1996:** Recommendation was made that an immunization tracking system be developed in Canada
- **1998:** The Canadian Consensus Conference on National Immunization Records Systems recommended the development of a National Immunization Records Network to ensure every province and territory will have a comprehensive electronic immunization registry capable of participating in a national immunization records network, by 2003
- The name of this network was later changed to the Canadian Immunization Registry Network (CIRN)
- CIRN is a F/P/T working group reporting to the Canadian Immunization Committee
- CIRN addresses issues relating to the development of immunization registries, standards, coverage surveys and sharing of immunization data among F/P/T

Background - CIRN

- Advocates, promotes and validates standards, guidelines and best practices for the development of Electronic Immunization/Health Record, immunization coverage surveys, and facilitate the implementation of the recommendations from the Canadian Consensus Conference (1998).
- **2002:** Published Functional Standards, Minimum (Core) Data Set, and Data Definitions for a National Immunization Registry Network
- **2004-onward:** CIRN worked with the Panorama development team in sharing published Canadian Immunization Standards, the Canada Health Infoway Standards Collaborative Working Group for Public Health in 2010, and other supporting agencies in continuing the commitment to provide advice on Canadian immunization standards.

National Immunization Coverage Reporting Standards

- Revised by CIRN in 2012-2014
- Comparison of coverage among jurisdictions and aggregation of jurisdictional estimates for national reporting are challenged by
 - » i) a lack of regular and consistent data collection,
 - » ii) differences in coverage assessment methods,
 - » iii) a lack of standardized reporting definitions, and
 - » iv) heterogeneity among jurisdictional immunization schedules.
- Having national immunization coverage standards assists with:
 - » i. monitoring national immunization coverage trends over time, thus contributing to the evaluation of programs and progress towards the achievement of targets
 - » ii. facilitate sharing of immunization information among federal/provincial/territorial jurisdictions while enhancing the reporting capabilities of immunization registries or other information systems;
 - » iii. contribute to the development of a fully operational Immunization Registry Network

Why are pan-Canadian Standards important?

- Provides consistent use of terminology, vocabulary, and definitions to enable meaningful and reliable information sharing within and between systems across Canada
- Essential for interoperability to enable health information systems to communicate
- Crucial for the integration of public health information systems with other information systems across the health sector, regardless of vendors or locations
- Standards are also critical to enable sound interpretation of evidence drawn from multiple sources to inform decisions for policies and programs
- Facilitates decision making for reminders and alerts
- Allows for the aggregation of data

Moving forward

- As jurisdictions are moving forward with the implementation of immunization registries, work continues in the area of standards as well as in other areas to facilitate the capture of immunization data.
- While there is recognition of the challenges related to the implementation and use of immunization registries, it is important to recognize that there are also success stories.

Learning Objectives

- Identify successful registries.
- Assess their organization registry situation and seek out enhancements that meet their population's needs.
- Recognize components of successful registries: system usability, reminder-recall functionality, capture of physician provided immunization, interoperable terminology.
- Recognize how strategic partnerships form successful projects.