

The National Incident Data Repository for Community Pharmacies (NIDR)

Information and Frequently Asked Questions

Background

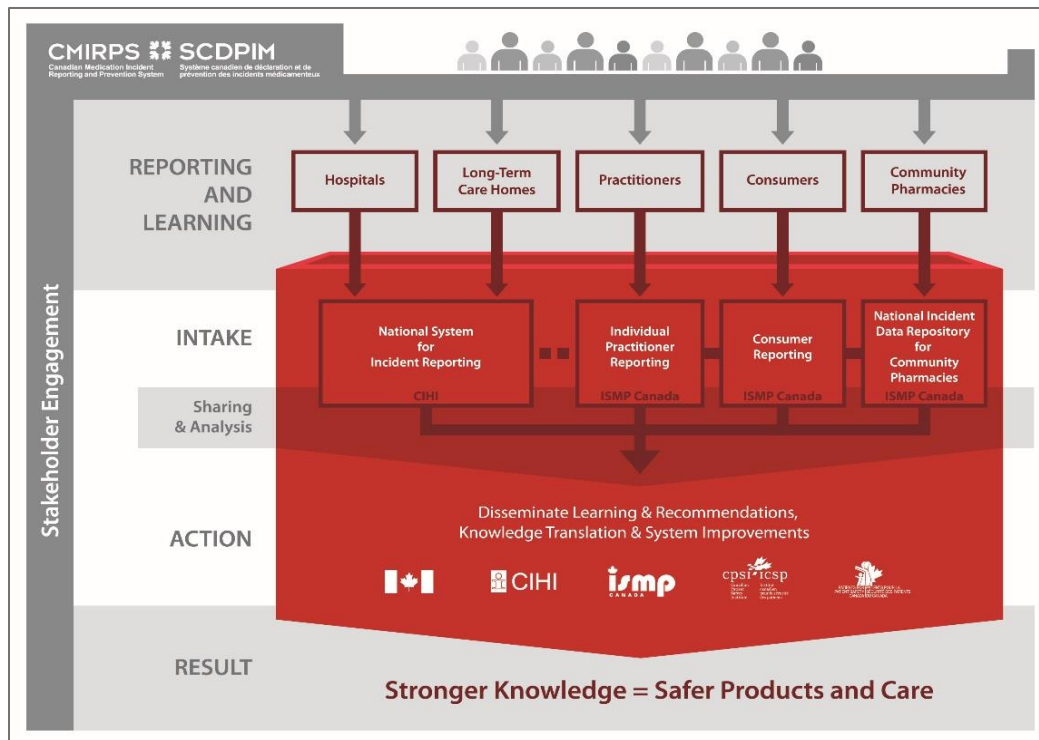
The Institute for Safe Medication Practices Canada (ISMP Canada) is an independent, national, not-for-profit organization that is committed to the advancement of medication safety in all healthcare settings. ISMP Canada’s mandate includes receiving and analyzing medication incident and near-miss reports, identifying contributing factors and causes and making recommendations for the prevention of harmful medication incidents.

ISMP Canada is a partner in the Canadian Medication Incident Reporting and Prevention System (CMIRPS), together with Health Canada, Canadian Institute for Health Information (CIHI), Patients for Patient Safety Canada and the Canadian Patient Safety Institute (CPSI).

The National Incident Data Repository for Community Pharmacies (NIDR) is housed at ISMP Canada.

ISMP Canada receives funding from Health Canada to support the delivery of CMIRPS deliverables. These activities and functions include the analysis of reports submitted to the National Incident Data Repository for Community Pharmacies, consumer medication incident reports and individual practitioner incident reports as well as the development/dissemination of timely, targeted recommendations designed to improve health care systems and medication safety.

See the infographic below for an overview of CMIRPS.



The National Incident Data Repository for Community Pharmacies (NIDR)

The National Incident Data Repository for Community Pharmacies (**NIDR**) is a collection of reported medication incidents submitted anonymously by community pharmacies for the purpose of improving medication safety in the community and elsewhere. The database was established in 2008 when a number of organizations came together to implement the Community Pharmacy Incident Reporting and quality improvement ([CPhIR](#)) software program. Over 800 community pharmacies are using the CPhIR program across Canada.

In 2010, Nova Scotia was the first jurisdiction to implement a requirement for community pharmacies to anonymously report medication incidents for quality improvement, and for submission of data to a national database. (**Source:** [Nova Scotia College of Pharmacists Standards of Practice: Continuous Quality Assurance Programs in Community Pharmacies](#)). A number of provinces have since implemented similar requirements.

Currently, data sharing processes allow community pharmacies to anonymously report near misses and medication incidents to the NIDR using any incident reporting platform.

Since inauguration, the NIDR has contributed to improvements in practice through shared learning, medication safety and quality improvements, as well as informing research and policy:

- [Exploring Medication Safety Culture in New Brunswick Pharmacies using the Medication Safety Culture Indicator Matrix](#) [poster presented at the *CSHP Professional Practice Conference* in February 2020]
- [Lessons Learned from a Multi-Incident Analysis on Medication Incidents Associated with Patient Harm in Saskatchewan](#) [poster presented at the *CSHP Professional Practice Conference* in February 2020]
- [Safety IQ: Lessons Learned from a Continuous Quality Improvement Program in Manitoba](#) [poster presented at the *CSHP Professional Practice Conference* in February 2020]
- [Quality-related events reported by community pharmacies in Nova Scotia over a 7-year period: a descriptive analysis](#) [manuscript published in *CMAJ Open* in December 2018]

Frequently Asked Questions

Who can submit data to the NIDR?

ISMP Canada is ready and pleased to work with any community pharmacy, chain or banner pharmacy, regulatory authority, incident reporting platform provider, and/or other organizations to submit anonymous near misses and medication incident data into the NIDR, in support of the CMIRPS mandate.



How does a community pharmacy submit data to the NIDR?

Contact ISMP Canada at: NIDR@ismpcanada.ca to start the process.

What is the process for an incident reporting platform provider to submit medication incident data to the NIDR?

Submission of data to the NIDR will proceed when:

- (i) a Data Sharing Agreement (DSA) with the Data Provider has been signed;
- (ii) the Data Submission Protocol Agreement (DSPA) has been signed by the incident reporting platform provider* specified in the DSA; and
- (iii) ISMP Canada has provided access to the live Application Programming Interface (API), following a successful test API/Database process.

*This could be the Data Provider where an in-house incident reporting platform has been developed.

How does ISMP Canada secure the data?

ISMP Canada upholds robust quality and privacy standards and submission protocols with all participating organizations. All connections to applications and servers are encrypted. API access is over HTTPS only. Physical access is in a commercial data centre within Canada, with 24/7 security and multiple-factor, biometric readers for server room access. API servers are configured to counter Denial of Service and other brute force attacks by rejecting traffic from hostile sources. Port scan attacks are detected and result in automatic blocking of the source. Security audits, including penetration tests, are conducted by third-party cybersecurity companies.

What data governance standards does ISMP Canada utilize to ensure secure data processes?

ISMP Canada has policies and standard operating procedures implemented for data access, analysis, IT (including security measures), privacy, human resources (e.g., confidentiality), and communication activities to manage its obligations and risks. Adherence to the policies and procedures supports the protection of data and ensures that security and privacy are high priorities.

ISMP Canada's [Privacy Policy](#) and supporting documents are available online. ISMP Canada has completed Privacy Impact Assessments and data security audits; continued assessments and audits are included in strategic and operations planning.



How is the NIDR funded?

NIDR activities are partially funded through CMIRPS by Health Canada; a data processing fee is charged on an annual, per-community-pharmacy basis.

The data processing fee includes proportional costs associated with data transfer, data review and validation, data maintenance, technology system support and communications, report generation, consultation and knowledge translation.

Options for payment of the data processing fee include:

- (i) working directly with ISMP Canada;
- (ii) authorizing an incident reporting platform provider to work with ISMP Canada.

The data processing fee is \$70 per pharmacy, paid annually.

Are the Data Sharing Agreement Forms available on-line?

The following data sharing agreement forms are available on-line:

Manitoba: Community Pharmacies authorizing data submission to the NIDR to support the SafetyIQ Program of the College of Pharmacists of Manitoba

<https://www.ismp-canada.org/CommunityPharmacy/NIDR/NIDR-MB-DSA.pdf>

Saskatchewan: Community Pharmacy Professionals Advancing Safety in Saskatchewan (COMPASS)

<https://scp.in1touch.org/site/dsa>