Canadian Medication Incident Reporting and Prevention System Système canadien de déclaration et de prévention des incidents médicamenteux

### Canadian Medication Incident Reporting and Prevention System Working Together to Prevent Harmful Medication Incidents

Margaret Zimmerman Bonnie Salsman On Behalf of the CMIRPS Coordinating Group Canada's Virtual Forum Nov 2 2011



### CMIRPS ## SCDPIM

Canadian Medication Incident Reporting and Prevention System Système canadien de déclaration et de prévention des incidents médicamenteux



Système canadien de déclaration et de prévention des incidents médicamenteux

### **Objectives**

- Introduce the Canadian Medication Incident Reporting and Prevention System (CMIRPS)
- Illustrate how the CMIRPS partners work together to enhance the safety of Canada's medication use system
- Discuss the importance of sharing information for the prevention of harmful medication incidents in Canada

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### **CMIRPS Collaborating Organizations**

- Health Canada
- Canadian Institute for Health Information (CIHI)
- Institute for Safe Medication Practices Canada (ISMP Canada)
- Canadian Patient Safety
  Institute(CPSI)

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Canadian Medication Incident Reporting and Prevention System Roles of the CMIRPS Collaborating Organizations CBC News - Latest Canada, World, Entertainment and Busi www.cbc.ca/news/

What is CMIRPS and How Does it work? Benefits of CMIRPS

#### The Canadian Medication Incident Reporting and Prevention System

The Canadian Medication Incident Reporting and Prevention System (CMIRPS) is a collaborative pan-Canadian program of Health Canada, the Canadian Institute for Health information (CIHI), the Institute for Safe Medication Practices Canada (ISMP Canada) and the Canadian Patient Safety Institute (CPSI). The goal of CMIRPS is to reduce and prevent iarmful medication incidents in Canada.

- Roles of the CMIRPS Collaborating Organizations
- What is CMIRPS and How Does it Work?
- Benefits of CMIRPS



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### This presentation will use fictional drug names and a fictional scenario to illustrate how CMIRPS works. Any resemblance to real drugs or persons is purely coincidental

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### Soltefam

- Anxiolytic
- Used for agitation in elderly

### Faltasan

- For ADHD
- Contraindicated in hypertension, CAD
- New indication-smoking cessation

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# Types of Incident Reports



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# Hazardous Situation Report Health professionals or consumers recognize potential for mix-ups with sound-alike names

 Also known as "Reportable Circumstance" in NSIR



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### Near Miss Incident Report

 Order for Faltasan is interpreted as Soltefam but error identified before medication is dispensed or administered



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# No-harm incident Report Faltasan dispensed for Soltefam in community pharmacy; error identified by consumer after only one dose taken



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### Harmful incident Report

 An elderly man is admitted to hospital. A family member states that the patient is taking Soltefam, but the admitting physician mistakenly interprets this as Faltasan. The patient receives Faltasan for three days and suffers a stroke.



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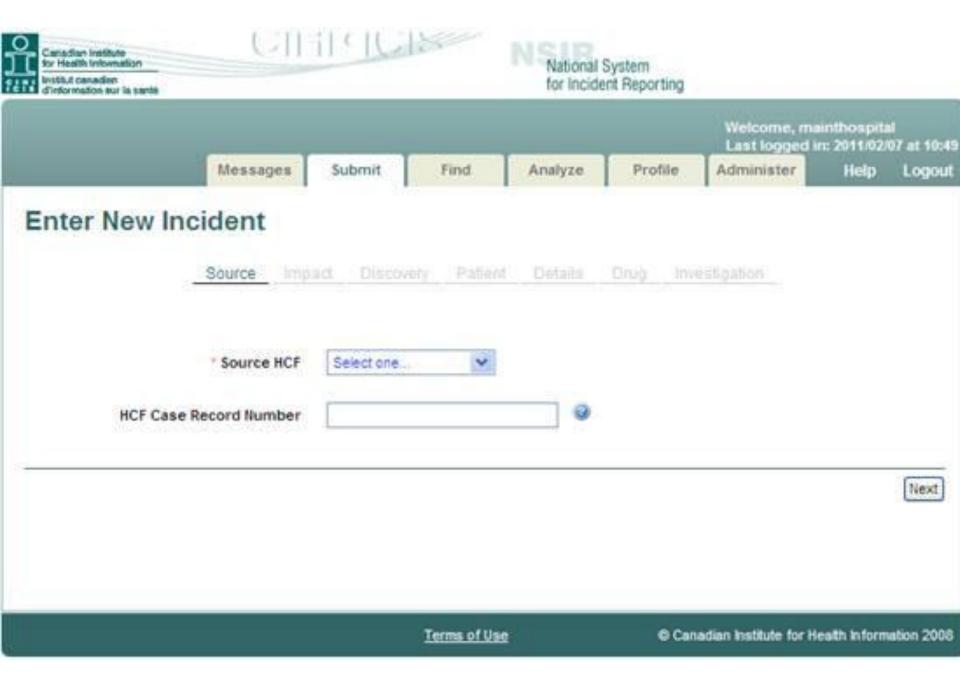
# **CMIRPS Reporting Tools**

- Canadian Institute for Health Information
  - National System for Incident Reporting (NSIR)
- ISMP Canada
  - Individual Practitioner Reporting system (IPR)
  - -SafeMedicationUse.ca



### **Key Features of NSIR**

- Web-based application for healthcare organizations
- Facilities can access own data and deidentified data from other facilities
- Integrated Tools
- Complements risk management systems



# CMIRPS

#### Canadian Medication Incident Reporting and Prevention System (CMIRPS) Program



Practitioners: Healthcare Professional - (e.g., nurse, pharmacist, physician)



ISMP Canada Institute for Safe Medication Practices Canada



General Public Preventing harm from medication incidents is a responsibility of health professionals. Consumers like you can also play a vital role.

#### ISMP Canada Activities for the CMIRPS:

- Reporting Systems for Medication Incidents
- A consumer medication safety reporting and learning program: SafeMedicationUse.ca
- Safety bulletins and alerts by ISMP Canada about medication incidents and prevention strategies
- Medication Safety Self-Assessment programs
- Root Cause Analysis workshops and frameworks
- Failure Mode and Effects Analysis workshops and





### **ISMP Canada**

- Individual Practitioner Reporting
  - collects reports directly from practitioners in settings where NSIR is not available
  - -On-line or telephone
- SafeMedicationUse.ca
  - Consumer-friendly reporting mechanism
  - -On-line or telephone

#### SafeMedicationUse.ca

SUPPORTED BY HEALTH CANADA

#### **Help Prevent Harmful Medication Incidents**

Contact Us | Français

A component of the Canadian Medication Incident Reporting and Prevention System (CMIRPS).

#### Home Report an Incident Alerts Newsletter Safety Tools and Resources About Us

Preventing harm from medication incidents is a responsibility of health professionals. **Consumers like you** can also play a vital role.

### Reporting Medication Incidents benefits all Canadians.

#### REPORT NOW

- About SafeMedicationUse.ca
- About Medication Incidents
- Why Report?
- Resolving Concerns About the Safety of Your Care
- Frequently Asked Questions (FAQs)
- Your privacy

Tell Us How We're Doing:

TAKE THE SURVEY



#### 🚮 Latest News and Resources

- Similar Patient Names Leads to Pregnant Woman Getting Wrong Prescription
- Safe Practices for Medication Use (Take Charge of Your Medicines!)
- "Take as Directed: Your Prescription for Safe Health Care in Canada" is now available in Canadian bookstores!

"The authors provide helpful information that can guide Canadians on how to manage their health care, including safe medication use" says Sylvia Hyland, Vice President and Chief Operating Officer of ISMP Canada.

- Health Canada is reminding Canadians about using acetaminophen safely.
  - Read Health Canada's Information Update on Acetaminophen
  - Read the SafeMedicationUse article "Spotlight on Acetaminophen"
- Angeliq Drug Samples Mistakenly Provided as Birth Control Newsletter -PDF
- Working with Consumers and Patients to Prevent Medication Incidents: Early Learning from ISMP Canada's Consumer Reporting and Learning Program, www.SafeMedicationUse.ca - Webinar - February 23, 2011
- Epinephrine Auto-Injectors Know How to Use EpiPen and Twinject Properly - Newsletter - PDF
- Consumer Identifies Warfarin Error as the Cause of Unexpected Test Results -



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# **Privacy and Confidentiality**

- Appropriate Measures for Protection of:
  - -Privacy
  - -Data security
- Data Sharing Agreements allow sharing of information



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# Analysis

- The purpose of analysis is to identify hazards, issues, contributing factors and underlying causes of medication incidents.
- Priority for analysis is given to reports where the incident led to or could potentially lead to serious outcomes.
- The analysis of individual reports is done by ISMP Canada and Health Canada.



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## Analysis

- The types of analyses conducted can include individual report review and aggregate review.
- The focus is on identifying underlying issues.
- Health Canada becomes involved in analysis of reports involving productrelated issues.



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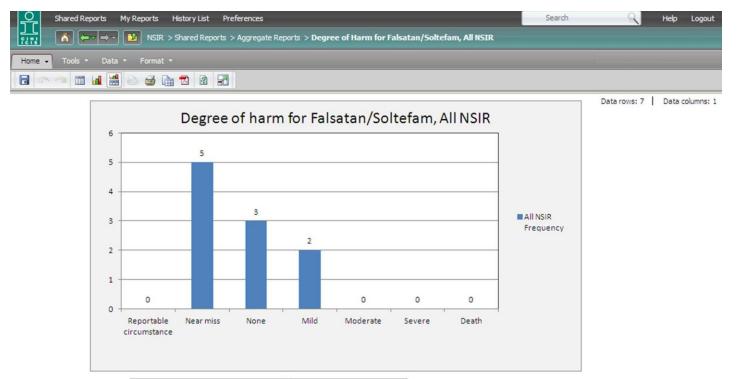
# Analysis

- Searching of databases is an essential step in the analysis process.
- Incidents that occur in one jurisdiction have a high likelihood of recurrence elsewhere.
- A proactive approach is used to identify trends and emerging issues.



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### Sample NSIR Report



Degree of Harm	All NSIR	AIINSIR	
	Metrics	Frequency	
Reportable circumstance		0	
Near miss		5	
None		5 3 2	
Mild		2	
Moderate		0	
Severe		0	
Death		0	
Total		10	



#### Health Canada www.hc-sc.gc.ca Français Home Contact Us Help Search canada.gc.ca Home > Drugs & Health Products > MedEffect Canada **Current Subject** Drugs and Health Products **Drugs & Health** 🖪 Print | 🖪 Text Size: S M L XL Help | 🗟 Share Products MedEffect<sup>™</sup> Canada **Quick Links** MedEffect Canada Together we can improve health MedEffect Canada Adverse Reaction Database product safety Home Page Adverse Reaction Report an Adverse Information www.healthcanada.gc.ca/medeffect Reaction Adverse Reaction Canada Vigilance Program Learn About Adverse Reporting Reactions Advisories, Warnings & Recalls MedEffect Canada The Canada Vigilance Program is Health Canada's post-market Canadian Adverse RSS Feeds and surveillance program that collects and assesses reports of Reaction Newsletter suspected adverse reactions to health products marketed in MedEffect e-Notice (CARN)

Canadian Adverse Reaction Newsletter

Reports and Publications

The Canada Vigilance Program has collected reports of suspected adverse reactions since 1965. Adverse reaction reports are

submitted by health professionals and consumers on a voluntary basis either directly to Health Canada or via Market Authorization Holders. The following health products marketed in Canada are collected by the program: prescription and non-prescription medications, biologics (including fractionated blood products, as well as therapeutic and diagnostic vaccines), natural health products and radiopharmaceuticals. The information collected by the program can be accessed through the Canada Vigilance Online Database.

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Committee on the

Vigilance of Health

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Products

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outweigh the risks.

Canada, Post-market surveillance enables Health Canada to monitor the safety profile of health products once they are marketed to ensure that the benefits of the products continue to





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### **Solutions Development**

- Prevention strategies , as well as strategies to mitigate harm are developed.
- These strategies are dependent upon on the nature of the issue.
- Through CMIRPS, work is done at the local, regional, provincial/territorial, national and international level.



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### **Sharing CMIRPS Learning**

- ISMP Canada Safety Bulletins
- ISMP Canada SafeMedicationUse.ca Newsletters and Alerts
- Health Canada "Dear Healthcare Provider" letters
- CPSI Global Patient Safety Alerts
- ISMP Canada workshops, webinars, toolkits

The Institute for Safe Medication Practices Canada (ISMP Canada) is an independent national not-for-profit agency established for the collection and analysis of medication error reports and the development of recommendations for the enhancement of patient safety.



The Healthcare Insurance Reciprocal of Canada (HIROC) is a member owned expert provider of professional and general liability coverage and risk management support.

#### Volume 11, Number 4

May 27, 2011

#### Drug Name Alert: Potential for Confusion between Pradax and Plavix

**ISMP Canada Safety Bulletin** 

ISMP Canada has received 3 incident reports from healthcare practitioners related to the brand names Plavix (clopidogrel) and Pradax (dabigatran etexilate). Two of these reports identified concerns about the potential for confusion between the brand names. The third report, received just recently, described a mix-up that reached a patient:

An otherwise healthy patient was scheduled for an endovascular coiling procedure to treat a brain aneurysm. Several days before the procedure, the neurosurgeon wrote a prescription for Plavix 150 mg po daily with acetylsalicylic acid (ASA) 325 mg po daily. The patient was to take these medications to prevent platelet aggregation and clot formation during, and as a result of, insertion of a foreign substance (the coils) into the vascular system.

The day before the scheduled procedure, the patient was admitted to the hospital as planned. Fortunately, the patient had remembered to bring all current medications to the hospital. During medication reconciliation, the pharmacist noticed that the patient was taking Pradax Pradax (dabigatran etexilate) is an oral anticoagulant (direct thrombin inhibitor) that was initially approved in Canada in 2008 for the prevention of venous thromboembolic events in patients who have undergone elective total hip or knee replacement. An additional indication for the use of Pradax, the prevention of stroke and systemic embolism in patients with atrial fibrillation, was approved on October 26, 2010.<sup>2</sup>

As noted above, Plavix is indicated for patients for whom treatment with an anticoagulant is unsuitable. Because Pradax is an anticoagulant, it should not be given to such patients. A mix-up between Plavix and Pradax could have serious consequences. If a patient is supposed to receive Plavix, but Pradax is supplied (e.g., the prescription is written incorrectly or the wrong drug is dispensed) the patient will not experience the desired antiplatelet effect and could be at increased risk of bleeding. Similarly, if a patient is supposed to receive Pradax, but Plavix is supplied, the patient will not experience the desired anticoagulant effect.

Both Plavix and Pradax begin with the letter "P," so the 2 drugs may be stored in close proximity in medication

### SafeMedicationUse.ca

#### SUPPORTED BY HEALTH CANADA

#### Help Prevent Medication Incidents

A component of the Canadian Medication Incident Reporting and Prevention System (CMIRPS).

Volume 2, Issue 3	Alert	May 27, 2011
Volume 2, Issue 3	AICIT	

#### Alert: Beware of Potential Confusion between Pradax and Plavix!

ISMP Canada has received reports about confusion between the Canadian brand names of 2 drugs: Pradax (generic name dabigatran etexilate) and Plavix (generic name clopidogrel). The brand names Pradax and Plavix may look very similar when written by hand. The names can also sound similar when spoken aloud.

Both Pradax and Plavix are used to prevent unwanted blood clots, but they work in different ways and are used in different circumstances. Plavix keeps platelets (blood cells that are involved in the formation of clots) from sticking together. Pradax is an anticoagulant: it blocks one of the substances that cause blood to clot. Plavix is sometimes prescribed for patients who can't take anticoagulants, so a mix-up between these drugs could be serious.

In one incident, a patient needed a procedure to treat a brain aneurysm. The patient was supposed to take Plavix with Aspirin for several days before the procedure. There was a mix-up at the community pharmacy where the patient had the prescription filled, and the patient was given **Pradax** instead of Plavix. The patient took the Pradax capsules, along with the Aspirin, for several days before going to the hospital for the procedure. Fortunately, the patient remembered how important it is to bring all your medicines with you any time you go to a hospital for treatment. A pharmacist reviewed the medicines when the patient was admitted to the hospital, noticed the problem, and called the community pharmacy. The community pharmacist confirmed that the order for Plavix had been misinterpreted and that Pradax had been dispensed in error. The neurosurgeon was notified, and the procedure was postponed.

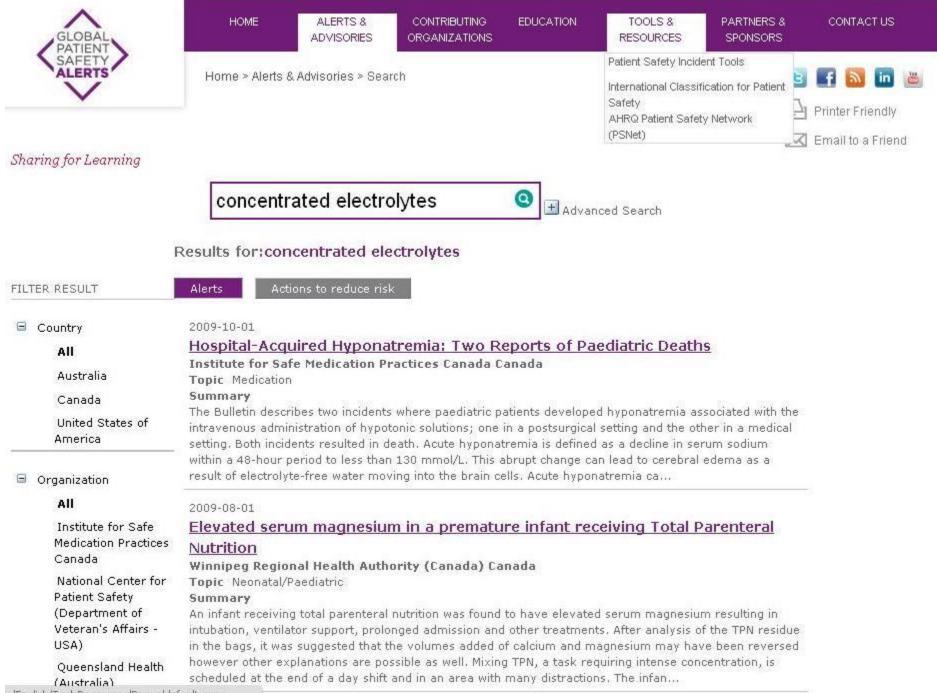
### **Health Canada Health Professional Communication**

Santé Health Canada Canada Canada Health Canada www.hc-sc.gc.ca Help Français Home Contact Us canada.gc.ca Search Home > Drugs & Health Products > MedEffect Canada > Advisories, Warnings & Recalls > For Health Professionals Current Subject Drugs and Health Products Print | A Text Size: S M L XL Help | Share **Drugs & Health** Products Maalox Multi Action (bismuth subsalicylate) - Confusion with Other MedEffect Canada Maalox Liquid Products - For Health Professionals Advisories, Warnings & Recalls Help on accessing alternative formats, such as Portable Document Format (PDF), For Health Microsoft Word and PowerPoint (PPT) files, can be obtained in the alternate format help Professionals section. For the Public (POF Version - 58 K) Explore.... Main Menu Contact: Marketed Health Products Directorate A-Z Index The Health Products and Food Branch (HPFB) posts on the Health Canada Web site safety alerts, public It's Your Health health advisories, press releases and other notices as a service to health professionals, consumers, and other interested parties. These advisories may be prepared with Directorates in the HPF8 which includes Just For You pre-market and post-market areas as well as market authorization holders and other stakeholders. Although the HPF8 grants market authorizations or licenses for therapeutic products, we do not endorse Site Map either the product or the company. Any questions regarding product information should be discussed with your health professional. This is duplicated text of a letter from Novartis Consumer Health Canada Inc. Proactive Disclosure Contact the company for a copy of any references, attachments or enclosures. Health Canada Endorsed Important Safety Information on Maalox Multi Action (bismuth subsalicylate)

### **Health Canada Public Communication**

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	Health Canada www.hc-sc.gc.ca		
Français	Home      Contact Us      Help      Search      canada.gc.ca        th Products > MedEffect Canada > Advisories, Warnings & Recalls > For the Public      For the Public      For the Public		
Current Subject	Drugs and Health Products		
Drugs & Health	Print   A Text Size: S M L XL Help   S Share		
Products	Maalox Multi Action (bismuth subsalicylate) - Confusion with Other Maalox Liquid Products - For the Public		
MedEffect Canad			
Advisories, Warnings & Reca For Health Professionals	Help on accessing alternative formats, such as Portable Document Format (PDF), Microsoft Word and PowerPoint (PPT) files, can be obtained in the <u>alternate format help</u> section.		
For the Public			
Explore	(PDF Version - 38 K)		
Main Menu	Contact: Marketed Health Products Directorate		
A-Z Index	The Health Products and Food Branch (HPFB) posts on the Health Canada Web site safety alerts, public health advisories, press releases and other notices as a service to health professionals, consumers, and other interested parties. These advisories may be prepared with Directorates in the HPFB which includes pre-market and post-market areas as well as market authorization holders and other stakeholders. Although the HPFB grants market authorizations or licenses for therapeutic products, we do not endorse either the product or the company. Any questions regarding product information should be discussed wit your health professional.		
It's Your Health			
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Site Map			
Proactive Disclosu	This is duplicated text of a letter from Novartis Consumer Health Canada Inc. Contact the company for a copy of any references, attachments or enclosures.		
	Public communication Health Canada Endorsed Important Safety Information on Maalox Multi Action		

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### **Other Actions**

- Consideration of a name change or label change
- Review of policies and procedures to prevent or mitigate risks
- Changes to Accreditation Canada standards or professional standards
- CPSI supports other related patient safety initiatives



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### **Example of Packaging Change**





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### Example of Changes to Standards http://www.ornac.ca/standards/

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The Healthcare Insurance Reciprocal of Canada (HIROC) is a member owned expert provider of professional and general liability coverage and risk management support.

#### Volume 11, Number 6

#### **ISMP Canada Safety Bulletin**

September 30, 2011

#### Updated Operating Room Standards Include Strategies to Prevent Inadvertent Injection of Epinephrine Intended for Topical Use

Information published by the Institute for Safe Medication Practices Canada (ISMP Canada), and others has highlighted substitution errors involving the inadvertent injection of concentrated epinephrine (1 mg/mL) intended for topical application during elective outpatient ear, nose, and throat procedures.<sup>1-7</sup> In a collaborative effort to enhance the safety of epinephrine use, the Operating Room Nurses Association of Canada (ORNAC) worked with ISMP Canada to incorporate incident learning into its A failure mode and effects analysis (FMEA) confirmed the importance of these additions to the standards (refer to the sidebar on page 2 of this bulletin for additional information).

ORNAC has taken a leading role on this issue and has set an example among national and international standard-setting organizations.

ISMP Canada continues to work with manufacturers and



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### Summary

- CMIRPS is a collaborative program that contributes information, tools and expertise to enhance the safety of the medication use system
- Reporting by healthcare professionals, consumers and patients contributes information that enables the identification of problems, analysis of information and sharing of solutions by CMIRPS
- Working together, we can prevent and reduce harmful medication incidents

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Canadian Medication Incident Reporting and Prevention System Roles of the CMIRPS Collaborating Organizations CBC News - Latest Canada, World, Entertainment and Busi www.cbc.ca/news/

What is CMIRPS and How Does it work?

Benefits of CMIRPS

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