

CANADIAN PHARMACISTS CONFERENCE

CONGRÈS DES PHARMACIENS DU CANADA





www.pharmacists.ca/conference

INTRODUCTION

- The prescribing stage represents the patient's first contact within the medication-use process and is an important milestone in helping to guide patients to positive outcomes and better health.
- Prescribing related incidents in a community pharmacy could have come from various types of practice settings (i.e. any practice setting in which a personnel has prescribing rights). Therefore, this makes the various potential safe guards or recommendations derived from this multi-incident analysis applicable to a wide variety of health care practices.

OBJECTIVE(S)

- To identify and prevent the occurrence of prescribing errors through interventions and safe guards that come prior to the pharmacy
- To reduce the number of interceptions required in post-prescribing stages for advancing safe medication use.

METHOD(S)

Searched ISMP Canada Community Pharmacy Incident Reporting (CPhIR)¹ Database for medication incidents involving prescribing from January 1, 2010 to April 30, 2015

Search Criteria: included all levels of harm outcomes except "no error" (i.e. near misses) and the stage of incident must involve the prescribing stage

Selected Incidents for final analysis

111 incidents were retrieved, but only 61 incidents met inclusion criteria and were included in this multi-incident analysis

Analyzed and categorized incidents into two mains themes and further divided into subthemes

Identified potential contributing factors

Provided recommendations to fill in patient-safety gaps

Medication Incidents that could have been Prevented at the Prescribing Stage: A Multi-Incident Analysis

K. PARK^{1,3} and <u>**C.** HO</u>^{1,2}

1. Institute for Safe Medication Practices Canada

2. Leslie Dan Faculty of Pharmacy, University of Toronto

3. School of Pharmacy, University of Waterloo





School of Pharmacv



UNIVERSITY OF TORONTO LESLIE DAN FACULTY OF PHARMACY



Medication Discrepancy

Example) A patient on both Eliquis[©] and ASA 81 mg was prescribed naproxen for 2 weeks. Patient had an incessant nose bleed that ended up requiring hospital treatment. The interaction wasn't relayed to doctor or staff of nursing home to monitor.

Drug-Drug Interaction

Example) A patient experienced adverse effects 3 days after starting a weak, uncoordinated, etc. I checked her profile and figured [out that] she is experiencing a drug-drug interaction between her Biaxin[©] and trazodone.

Distribute medication information sheets to patients addressing potential side effects

Illegible Writing

Example) Patient was supposed to receive azathioprine but got amitriptyline by mistake. The writing on the original prescription was almost illegible, and could have passed for either medication. The specialist is hard to get a hold of, thus he/she was not contacted to clarify the medication.

- Type out prescriptions or implement **Computerized Physician Order Entry or CPOE⁵** (<u>Note</u>: CPOE can reduce errors but may also introduce new errors⁷)
- Establish a process for another staff member of the patient's health care team to perform an independent double check to confirm writing legibility⁶

CONCLUSION(S)

- continuous quality improvement) are also important.¹⁹
- errors that may have risen are addressed promptly.

ACKNOWLEDGEMENTS

ISMP Canada would like to acknowledge support from the Ontario Ministry of Health and Long-Term Care for the development of the Community Pharmacy Incident Reporting (CPhIR) Program (<u>http://www.cphir.ca</u>). The CPhIR Program also contributes to the Canadian Medication Incident Reporting and Prevention System (CMIRPS) (http://www.ismpcanada.org/cmirps/). A goal of CMIRPS is to analyze medication incident reports and develop recommendations for enhancing medication safety in all healthcare settings. The incidents anonymously reported by community pharmacy practitioners to CPhIR were extremely helpful in the preparation of this multi-incident analysis.

REFERENCES

. ISMP Canada. Community Pharmacy Incident Reporting (CPhIR) Database. http://www.cphir.ca . ISMP Canada. Preventable Death Highlights the Need for Improved Management of Known Drug Interactions. ISMP Canada Safety Bulletin 2014:14(5):1-7 . ISMP Canada. Fentanyl Patch Linked to Another Death in Canada. ISMP Canada Safety Bulletin 2007;7(5):1-3. . ASHP Guidelines on Pharmacy Planning for Implementation of Computerized Provider-Order-Entry Systems in Hospitals and Health Systems. Am J Health-Syst pharm [Internet]. 2011 [cited 2015 Nov 29]; 68: e9-31. Available from ://www.ashp.org/docl . ISMP Canada. Concerned Reporting: Medication Reconciliation and Medication Review: Complementary Processes for Medication Safety in Long-Term Care. ISMP Canada Safety Bulletin 2007;7(9):1-3 . ISMP Canada. Concerned Reporting: Mix-ups Between Bisoprolol and Bisacodyl. ISMP Canada Safety Bulletin 2012;12(9):1-6. Reckmann MH, Westbrook JI, Koh Y, Lo C, Day RO. Does Computerized Provider Order Entry Reduce Prescribing Errors for Hospital Inpatients? A Systematic Review. J Am Med Inform Assoc [Internet]. 2009 Sep[cited 2015 Nov 29]; 16(5):613-23. Available from: ttp://www.ncbi.nlm.nih.gov/pmc/articles/PMC2744711/pdf/613.S1067502709001297.main.pd . Medication Safety Self Assessment for Community/Ambulatory Pharmacy [Internet]. ISMP: The American Pharmaceutical Association Foundation, The National Association of Chain Drug Stores; 2001 [cited 2015 Nov 29]. 36p. Available from http://www.ismp.org/selfassessments/Book.pdf

CONTACT INFORMATION

For more information contact us below:

Website: **Telephone:**

www.ismp-canada.org 416-733-3131 (Toronto) 1-866-54-ISMPC (1-866-544-7672) (Toll Free) 416-733-1146 4711 Yonge Street, Suite 501 info@ismp-canada.org

Fax: **Address:** Email:

• The prescribing stage represents a key step in the patient's initial encounter with the medication-use process. Both physicians and pharmacists can improve patient safety by developing system-based strategies to prevent medication incidents at this crucial stage of patient care.

The action of incorporating changes into the workplace is a crucial step in improving patient safety, however, proper monitoring and ongoing assessment to analyze the effectiveness of the intervention(s) (i.e.

• It is also essential to have a quality assurance team that can regularly monitor and assess the impact of the intervention(s) and ensure that new

9. ISMP Canada. Designing Effective Recommendations. Ontario Critical Incident Learning 2013;(4):1-2. Available from: http://www.ismp-canada.org/download/ocil/ISMPCONCIL2013-4_EffectiveRecommendations.pd

