

Safety IQ: Lessons Learned from a Continuous Quality Improvement Program in Manitoba

Objectives

- Twenty pharmacies in Manitoba participated in a standardized continuous quality improvement (CQI) program – Safety IQ – and retrospectively reported medication incidents to a national database anonymously.
- The objectives of this project were to apply a qualitative, multi-incident analysis approach to medication incidents that reached patients in Manitoba, to gain a better understanding of the contributing factors of these incidents, and to develop potential recommendations to prevent error recurrences.

Methodology

- A total of 70 medication incidents involving patients were extracted from the Institute for Safe Medication Practices Canada (ISMP Canada) Community Pharmacy Incident Reporting (CPhIR) Program from July 2018 to June 2019.
- We conducted a qualitative, thematic analysis on these incidents, and provided recommendations to address patient safety gaps identified.

Results

- We identified four main themes from this multi-incident analysis (Tables 1-4).
- We offered a summary of recommendations to pharmacy professionals (Table 5).

Summary of

Table 5.

Recommendations

Conclusion

- Findings from this analysis and potential recommendations presented would help promote safe medication practices.
- Reporting, analyzing, and learning from anonymously reported medication incidents are critical for the success and ongoing engagement of pharmacy professionals in a provincial CQI initiative.

References: Available upon request

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Corresponding Author: Allen Chiu (allenyl.chiu@mail.utoronto.ca)

Disclosures: Authors of this poster have the following to disclose concerning possible personal or financial relationships with commercial entities that may have a direct or indirect interest in the subject matter of this presentation: Vivian Law -Nothing to disclose; Allen Chiu – Nothing to disclose; Grant Fuller – Nothing to disclose; Certina Ho – Nothing to disclose

Table 1 SUB-THEMES

Patient Misidentification

Incident Example: Patient came into the pharmacy and asked for medication pickup for the patient and partner. Multiple family members had medications ready for pick-up. Patient was given medications for a different family member than requested since the same last name were next to each other in the bin.

Product Misidentification

Incident Example: Patient received delivery of levothyroxine 75 mcg instead of the actual strength of 175 mcg.

Patient Misidentification

Recommendations:

Product Misidentification

Recommendations







UNIVERSITY OF TORONTO LESLIE DAN FACULTY OF PHARMACY

Vivian Law RPh, BScPhm, PharmD, MSc; Allen Chiu BSc, PharmD Student; Grant Fuller PharmD Student; Certina Ho RPh, BScPhm, MISt, MEd, PhD

Theme 1: Misidentification

Theme 1: **External Discovery**

Table 2. SUB-THEMES

Patient / Family / Caregiver Discovery

Incident Example:

Patient contacted pharmacy after experiencing sleep disturbances and noticed one medication looked and smelled different. The pharmacist discovered that trazadone was changed to spironolactone during refilling.

Discovery by Another Healthcare Professional

Incident Example:

Pharmacist at a pharmacy dispensed to a nursing station the prescribed suboxone 20 mg as 2 tablets of 8mg/2mg since he thought 8 mg/2 mg = 10 mg. When another pharmacist dispensed the prescribed Suboxone 20 mg correctly as 2 tablets of 8 mg/2 mg with 2 tablets of 2 mg/0.5 mg, the nurse called the pharmacy, as two extra tablets were present.

SUB-THEMES / CONTRIBUTING FACTORS

• Look-alike/sound-alike patient names

 Confirm with at least 2 patient identifiers Apply "name alert" label to ready for pick-up prescription bag if similar patient names found in pick-up bin

• Look-alike/sound-alike product names

 Implement bar coding technology • Conduct independent double check of the medication(s) with the patient at the time of pick-up

SUB-THEMES / CONTRIBUTING FACTORS

Patient / Family / Caregiver Discovery

 Patient questioned about unfamiliar medications (<u>Note</u>: This is a positive contributing factor that allowed the incident to be discovered)

Recommendations:

• Educate patients/families/caregivers on the 5 Questions to Ask About Your Medications handout where they can learn about common questions that they should ask their healthcare providers regarding their medications at each encounter.

Discovery by Another Healthcare Professional

 Communication with other healthcare providers only occurs as required

Recommendations.

• Conduct periodic medication reviews with the patient and share the updated medication reviews with other healthcare providers in the circle of care









Theme 1:

Miscommunication

Table 3. SUB-THEMES

Between External Healthcare Professionals and Pharmacy Staff

Incident Example:

Patient's hospital discharge summary (on one section) state that citalopram should be discontinued (but on another sect it was stated that citalopram should be continued). Sertralin was newly prescribed but not citalopram. The discharge summary was interpreted as dispensing both sertraline and citalopram. Therapeutic duplication warning was seen durin order entry, but not during verification by the pharmacist.

Between Patient and Pharmacy Staf

Incident Example:

Patient was dispensed fludrocortisone in a medication vial instead of in the blister pack with the patient's other medications, because fludrocortisone required refrigeration When the patient requested refills of his medications, he for to order fludrocortisone and went unnoticed for 3 months ur the doctor added sodium chloride tablets (assuming that patient was using 0.3 mg fludrocortisone per day) and wher the medications were reviewed by the renal pharmacist

SUB-THEMES / CONTRIBUTING FACTORS

Between External Healthcare Professionals and Pharmacy Staff

- Absent or unclear written/verbal instructions
- Misinterpretation of instructions

Recommendations:

- Indicate reason for changes in therapy on prescription
- Implement standardized documentation templates that ca ease communication between prescribers and pharmacis

Between Patient and Pharmacy Staf

• Lack of a comprehensive list or medication review of patient's current medication therapy

Recommendations:

- Create clinically important alerts in the electronic patient profile
- Conduct periodic medication reviews with the patient and share the updated medication reviews and list of current medication therapy with the patient



	Theme 1: Technology Challenges
	Table 4. INCIDENT EXAMPLE
	Penicillin allergy note in the computer system was missed during order verification and the mother received amoxicillin/clavulanic acid 875/125 mg to give to her son. Her son developed a rash after taking the new antibiotic.
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en (CONTRIBUTING FACTORS
	 Bypassing existing safety features in the computer system Alert fatigue
	 <i>Recommendations:</i> Require users to enter a reason when bypassing clinically significant alerts Update the sensitivity of the alert system according to evidence and clinical significance on a regular basis
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