Medication Incident Reporting and Analysis in Professional Practice Lab



Continuous Quality Assurance Starts in Pharmacy School

UNIVERSITY OF WATERLOO WATERLOO PHARMACY

Certina Ho, RPh, BScPhm, MISt, MEd Lisa McLean, RPhT

13.31%

26.21%

65

33

FIGURE 1.

60.48%

Near Misses

No Potential Harm

Anticipated Harm

Objectives

Continuous quality assurance (CQA) is necessary for advancing safe medication practices in community pharmacies.

Students should embrace and start practicing CQA when they are in pharmacy school.

We introduced an activity in Professional Practice Lab (PPL) where pharmacy students reported their near misses and medication incidents to an online reporting program with the intention to determine underlying system-based contributing factors and prevent similar incidents from occurring in PPL.

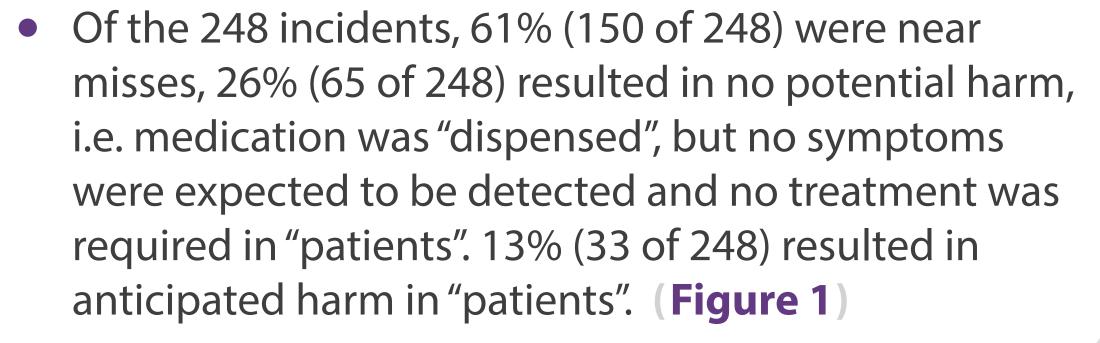
Methods

Two classes (Rx 2013 and Rx 2015) of pharmacy students participated in this CQA PPL exercise in 2010 and 2012.

248 near misses or incidents were voluntarily reported by pharmacy students to the Institute for Safe Medication Practices Canada (ISMP Canada) (www.ismp-canada.org) Community Pharmacy Incident Reporting (CPhIR) Program Training Site (www.cphir.ca/training).

The incidents were analyzed, with a focus on the potential severity of "patient" outcome of the near misses and incidents, and medication-use areas associated with these reports.

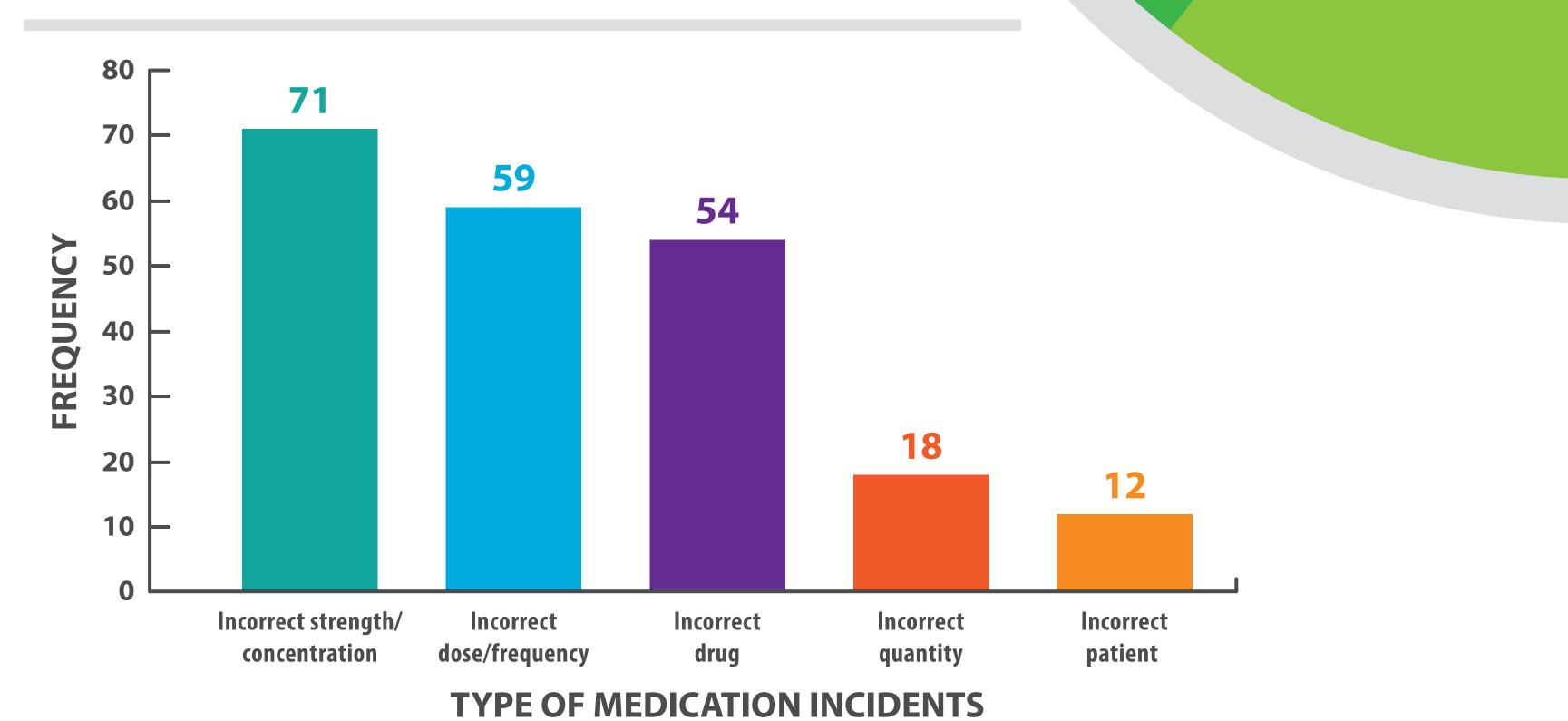
Results





- The most common types of incidents reported were incorrect strength/ concentration (29%), incorrect dose/frequency (24%), and incorrect drug (22%). (Figure 2)
- Possible contributing factors to these near misses and medication incidents include look/sound-alike drug names, look-alike packaging, and miscommunication of drug order. (Figure 3)

FIGURE 2. TYPE OF MEDICATION INCIDENTS



Discussion MEDICATION INCIDENTS CLASSIFIED BY OUTCOME (n = 248)

60.48% **150**

26.21% **65**

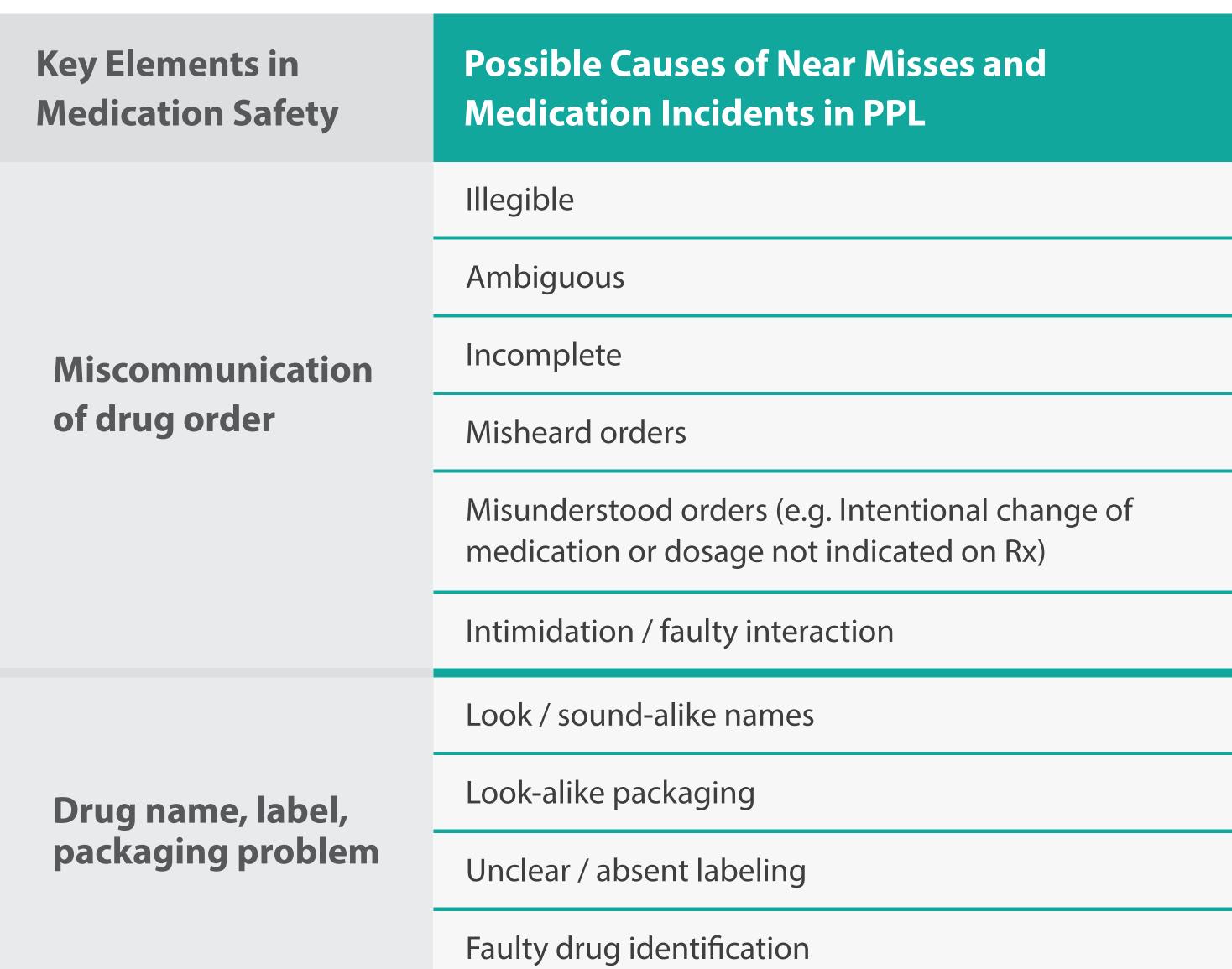
13.31% **33**

A CQA medication incident reporting and analysis PPL exercise served as an initial attempt to study factors that may contribute to near misses and medication incidents in simulated community pharmacy practice settings.

Through the analysis of medication incidents and sharing of findings in class, pharmacy students can learn from reported incidents and implement safeguards in PPL.

Pharmacy students will be prepared for CQA initiatives and activities in community pharmacies when they are ready to practice.

FIGURE 3. POSSIBLE CONTRIBUTING FACTORS TO NEAR MISSES AND MEDICATION INCIDENTS



IN PPL