



This bulletin shares several leading practices that facilitate the safe administration of a COVID-19 vaccine. These practices, which incorporate learning from past vaccine errors, will evolve over time as additional knowledge is gained, and new guidance is developed. The risks and learning are categorized by four

medication-use stages (i.e., storage, preparation, administration, and documentation), which are

## summarized in the below table.

Strategies for Safe Vaccine Practiced Risk for COVID-19 Vaccine Vaccine Error Use Stage Storage Interruption of the cold chain, resulting
 Follow the manufacturer's storage instructions and in product spoilage public health guidelines for temperature monitoring Poor organization of storage areas, and develop a preparedness plan for temperature

product identification. Consider bundling any required diluent together with the vaccine (e.g., upon removal of the vaccine from

- Improper or no dilution of vaccines that
  - require dilution (e.g., Pfizer-BioNTech Use of product past its beyond-use date and time

Providing a vaccine when

Poor administration technique

absence of documentation

scheduling of vaccine doses

Poor communication related to

Poor documentation of vaccination, or

contraindicated

Develop and follow a standard process, supported

remove any expired product.

beyond-use date and time.

by a real-time, quick-reference sheet for dose preparation of each vaccine product. Label all prefilled syringes with the product name, dose (volume), lot number, and beyond-use date and Label all vaccine vials with both the puncture and

Regularly review refrigerated/frozen vaccines and

- Wherever possible, use bar-coding technology for product identification. Use a checklist to identify vaccine contraindications or precautions. Use appropriate landmarking to avoid injection
- complications. Suggest that patients wear short-sleeved or sleeveless clothing to their vaccine appointments. Provide patients with documentation of vaccination,

including product name, lot number, and date of

vaccination. MyMedRec and CanImmunize apps are

options to store this information (including pictures). During the first vaccine appointment, book the patient's second appointment (at an appropriate interval), if possible. Send appointment reminders by

phone, text, or email. As the vaccines are rolled out, vaccine-related adverse drug reactions should be reported through the customary reporting channels. In addition, consider documenting vaccine errors (regardless of outcome) through the pharmacy's usual reporting process e.g., CPhIR. These reports will support future learning and

For additional details on potential errors with COVID-19 vaccinations, as well as strategies to optimize safe

Read more **Medication Incident Cheat Sheet** Incident Reporting Cheat Sheet In your description, have you included:

Article provided by Ambika Sharma, Medication Safety Specialist, ISMP Canada

The Medication Incident Cheat Sheet was created to assist

incidents are reported. Please see a copy of the cheat sheet

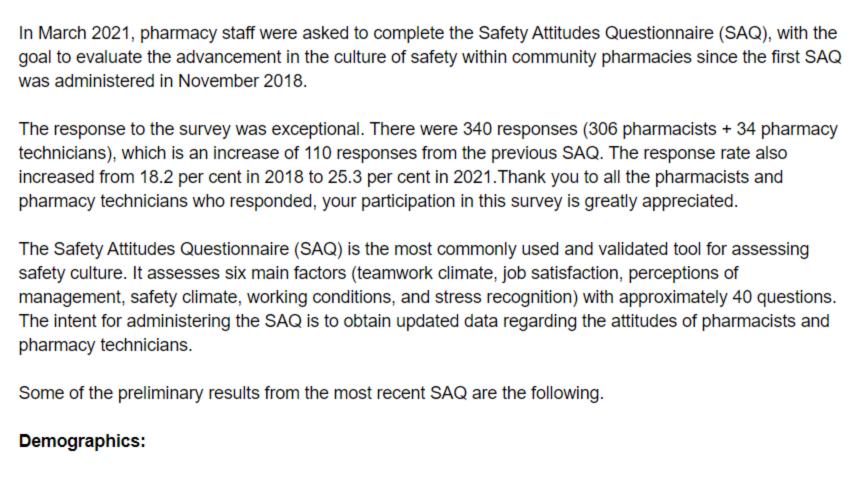
pharmacy staff in ensuring incident reports are complete.

SCPP has had positive feedback from some pharmacy

Is the incident description clear and concise? managers on its usefulness, but there has also been a lack of awareness from others. Pharmacies are encouraged to print Have contributing factors been identified and are they included in the incident description? off the cheat sheet and have it handy when medication

below. To access a copy for printing, <u>click here</u>.

Safety Attitudes Questionnaire (SAQ)



84.80 per cent of all respondents agree strongly they would feel safe being treated as a patient at

77.81 per cent of all respondents agree strongly that medication errors are handled appropriately in

60.18 per cent of all respondents disagree strongly that it is difficult to discuss errors at their

73.60 per cent of all respondents agree strongly that pharmacy management does not knowingly

85.58 per cent of all respondents either agree slightly or agree strongly that their respective

#### 6-10 years: 16.47% 11-20 years: 17.35% 20+ years: 12.94%

### 13.38 per cent of respondents either agree slightly or agree strongly that it is difficult to discuss errors at their respective pharmacy.

Job Satisfaction:

[directions].

Perception of Management:

Safety Culture:

- compromise patient safety. 67.08 per cent of all respondents either agree slightly or agree strongly that the staffing levels at their respective pharmacy are sufficient to handle the number of patients.
- The results of the SAQ are currently being reviewed and analyzed and the report from ISMP Canada will be available for review in the Fall 2021. Watch for the link to the report in a subsequent edition of

Upon review of the incident by the pharmacy staff, it was determined that the main contributing factors that led to the incident occurring were: 1. Look-alike/sound-alike drug names and 2. Faulty drug identification. As a result of the pharmacy staff discussion regarding the incident, it was determined that due to both

cefuroxime and so the cefuroxime was continued but the dose was increased to the appropriate amount.

Incidents that Occurred Due to Order Entry Errors Order entry is part of the medication-use process where prescriptions are transcribed onto the pharmacy practice management system (PPMS) or pharmacy dispensing software. Transcribing errors generally

result in patients receiving the wrong drug, incorrect dose, incorrect formulation, or incorrect instructions.

also clinical errors where dispensing should have been stopped due to an identifiable drug therapy

They commonly arise from technical errors where the information was transcribed incorrectly, but there are

This incident was reported here with the involvement and permission of the Saskatchewan community

Harm incidents result from inappropriate prescription transcribing, technical errors, or clinical errors. Sub-Themes Incident Examples **Technical Errors** Patient was taking Citalopram 10 mg, but it was transcribed and dispensed as Escitalopram 10 mg instead. The patient

to the medication.

Saskatchewan.

### Pharmacy Incident Reporting (CPhIR) database between December 1, 2017 and March 30, 2021. The statistics below relate to this time period. Outcomes 18,986 reported incidents had an outcome of NO ERROR/NEAR MISS, which means the incidents

- The topic of the latest edition of the SMART Medication Agenda is Vaccines. All previous editions of the SMART Medication Safety Agenda can be found under the COMPASS link on the SCPP website under COMPASS
- Incorrect dose/frequency 7,518 394 pharmacies have either started or completed their Medication Safety Self-Assessment (MSSA) online

  - COMPASS: Jeannette Sandiford, Assistant Registrar Field Operations and Quality Assurance - jeannette.sandiford@saskpharm.ca CPhIR: ISMP Canada: cphir@ismp-canada.org

# Strategies for Safe Immunization with COVID-19 Vaccines

leading to selection of the wrong excursions. product Never store different vaccines or drug products Administration of undiluted vaccine in one container and clearly separate and label Selection of outdated (expired) product products; consider a dedicated refrigerator/freezer. Wherever possible, use bar-coding technology for

Preparation

Documentation

Administration

error prevention.

practices, see the full ISMP Canada Safety Bulletin.

Is the action to be taken to prevent the incident from recurring included in the incident description?

· What?

When? · Where?

Why?

#### Position: Pharmacist (manager/owner): 39.12% Pharmacist (staff): 50.88% Pharmacy Technician: 10.00%

Pharmacy Type:

Years of experience:

Banner: 25.59%

Corporate: 43.24%

0-5 years: 53.24%

Independently owned: 31.18%

their respective pharmacy.

their respective pharmacy.

respective pharmacy.

24.85 per cent either disagree slightly or disagree strongly to this statement.

pharmacy is a good place to work.

- 73.01 per cent of all respondents either agree slightly or agree strongly that morale at their respective pharmacy is high.

Look-Alike/Sound-Alike Drugs

medication incident was discovered.

incorrect drug and

pharmacy.

problem.

identical.

Clinical Errors

medications or formulations.

Order Entry Errors

instructions

from them.

**Statistics** 

harm.

Incident Types – Top 3

Incorrect quantity - 5,489
Incorrect drug -5,362

Technical Errors

These interventions will be monitored for effectiveness.

Cefuroxime 2.4mls (250mg/5mls) QD x 10days.

Shared Learning Opportunity

A handwritten prescription from a hospital ER was presented at the pharmacy for a child for Cefixime 60mg QD for 10 days by the child's parent. However, when the prescription was filled, it was filled as

Two days after the prescription was filled, the physician called to inform the pharmacist that the patient was not improving and to inquire if they had written the prescription correctly. It was at that time that the

It was determined through the Culture and Sensitivity (C&S) test that there was susceptibility with

generic drug names starting with "CEF" the computer software auto-populated the incorrect generic drug name and the staff entering the order was not aware that the wrong generic drug name was autopopulated. The system-based solutions that were recommended were;

1. To ensure that the correct drug is chosen and corrected if the computer auto-populates the

2. Utilize resources such as Vigilance, if there is any doubt regarding the correct generic name.

More information can be found on the ISMP Canada website regarding look-alike-sound-alike medications.

Please see this short presentation under the CE and Resources section of the CPhIR website -

Preventable Medication Errors: Look-Alike/Sound-Alike Drug Names – August 2014.

As part of the dispensing process, all members of the pharmacy team can be expected to transcribe prescriptions. Look-alike/sound-alike drug names is a well-known contributing factor of transcribing errors resulting in potential patient harm. Similarly, transcribing errors have occurred when prescriptions are copied over from old prescriptions.

There are systems-based solutions that can minimize the risk of transcribing errors. Tall-man lettering can

considered in all pharmacy software. Although copying prescriptions is a convenient method to speed up the transcribing process for similar prescription orders, it also offers a new avenue for errors to occur. As such, it should be used judiciously, ideally only when the medication, strength, and instructions are all

minimize the risk of medication errors attributable to look-alike/sound-alike drug names and should be

Harm incidents have occurred when allergy or drug interaction alerts were bypassed. At times,

therapeutically inappropriate medications were dispensed when pharmacists were not aware of new

Professional judgement made by pharmacists (e.g., bypassing a drug-drug interaction alert) should be well

An evidence-based point-of-care clinical decision support system and drug information resources should

Pharmacists are expected to perform therapeutic checks on prescriptions.

documented such that the rationale for a clinical decision can be traceable.

be easily accessible to support pharmacists' expanded scope of practice.

directions were not. As a result, the patient felt unwell for several weeks and had to see the physician Clinical Errors Patient was prescribed Tylenol No. 3. There was an allergy notification for Codeine on the patient's profile, but the alert was bypassed by the pharmacy assistant when entering the Order entry errors due to improper clinical verifications prescription. The pharmacist did not review the patient's

Order entry errors resulting from choosing the wrong product or incorrectly transcribing the prescription directions or

- Newsletters.

Contact

mssa@ismp-canada.org Technical Support (COMPASS): 1-866-544-7672

will be kept anonymous. The College encourages open sharing of incidents/errors so everyone can learn

Statistical reports are provided to bring awareness of the importance of identifying, reporting and

discussing medication incidents. A total of 32,066 incidents have been reported to the Community

12,161 NO HARM incidents, which means the incidents reached the patient, but did not cause

 910 reported incidents did result in HARM, with most of these in the category of MILD or MODERATE HARM. There have been 3 incidents reported with an outcome of DEATH.

allergy-related adverse effects

returned to the physician due to nausea and lack of response

Patient was taking Bupropion XL 150 mg 2 tablets once daily. With a backorder, the physician issued a new prescription for Bupropion SR 150 mg 1 tablet twice daily. When entering the prescription, the Bupropion XL prescription was copied over; the medication was changed correctly but the prescription

allergies when checking nor inquire about patient allergies upon counselling. Several days later, the patient reported

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data entries. **838** Continuous Quality Improvement (CQI) meetings have been held. The SMART Medication Safety Agenda ivmp CTR

were intercepted BEFORE they reached the patient.

We want to hear from you!

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