How to handle a medication error

by Certina Ho, RPh, BScPhm, MSt, MEd and Atsushi Kawano, BSc, MSc, BScPhm

Learning objectives

Upon successful completion of this lesson, you will be able to do the following:

1. Understand the professional responsibilities of managing medication incidents under provincial regulations and within the expanded scope of practice.
2. Recognize human factors and environmental factors in medication incident occurrence.
3. Apply a system-based approach for handling medication incidents.
4. Identify error prevention principles.

Introduction

Pharmacy technicians comprise a new, allied healthcare profession, and with that comes new responsibilities—and liabilities. This lesson reviews appropriate strategies for handling medication errors. It also presents a system-based approach to prevent similar incidents or near misses from happening again in the future.

CASE STUDY

Stacey, a community pharmacy manager, saw an opportunity to expand cognitive services at her pharmacy by working with newly regulated pharmacy technicians. Stacey’s pharmacy team included two pharmacists and a pharmacy assistant, Derek, who had recently completed the bridging program to become a registered pharmacy technician. Stacey was excited to start delegating new responsibilities (as outlined under the expanded roles of regulated pharmacy technicians) to Derek. Stacey wanted to slowly integrate Derek into his new role by getting him to check prescriptions during the night shift (thought to be the slowest period for incoming prescriptions). During the night shift, Derek was also responsible for dispensing, cashing out customers, and signing off on prescriptions.

Stacey was responsible for entering prescriptions, completing the therapeutic check for all prescriptions, OTC roaming (ie, looking after patients’ concerns regarding over-the-counter medications), and completing medication reviews for patients.

One night, the pharmacy received more than the usual amount of patient requests at the pharmacy counter and via phone calls, the online third-party billing system was down, and incoming prescription counts were at least 1.5 times higher than a typical weekday evening shift. On this unexpectedly busy night, Mr. Smith came to the counter with a prescription for his wife. The prescription for Mrs. Smith was for NovoRapid® Penfill (insulin aspart). Stacey entered the prescriptions correctly on the computer. Since the fridge for storing insulin was just next to the pharmacy in-counter, Stacey quickly grabbed a Penfill package from the fridge, left it on the dispensing counter, and attended to another patient who had been waiting for her to conduct a medication review. The phone had been ringing constantly. Derek was rushed during the dispensing process and accidentally checked the wrong medication. Derek signed off on a Novolin®ge 30/70 Penfill (insulin injection 30%;
insulin isophane 70%) instead of NovoRapid® Penfill (insulin aspart). Stacey knew Mr. Smith very well, as she managed all his medications for the past three years. Mr. Smith was a diabetic on stable insulin management with NovoRapid®/ge 30/70 Penfill (insulin injection 30%; insulin isophane 70%). Mr. Smith appeared to be in a rush. Derek handed Stacey the prescription for Mrs. Smith. Even though Stacey entered the prescription for Mrs. Smith, she assumed the medication was for Mr. Smith because of the NovoRapid®/ge 30/70 Penfill (insulin injection 30% and insulin isophane 70%). After Stacey counselled Mr. Smith about his insulin management, Mr. Smith left the pharmacy.

A few days later, Mr. Smith phoned the pharmacy and said his wife had to visit the emergency department because of symptoms associated with hyperglycemia. Mrs. Smith’s symptoms were resolved at the emergency department and she was sent home the same day. However, Mr. Smith was threatening to take legal action against Stacey and her pharmacy team. Stacey checked Mrs. Smith’s profile on the computer and realized that the wrong medication was given to Mr. Smith for his wife. Stacey was visibly shaken about what happened and asked Derek to talk to Mr. Smith.

Background
The opening scenario describes a medication incident that no pharmacy technician wants to face in his or her career. Unfortunately, with increased responsibilities, pharmacy technicians will likely be confronted with situations of near misses or even medication incidents. This lesson illustrates the responsibilities of pharmacy technicians and outlines a systematic strategy to deal with medication incidents, including proactive preventive strategies at the pharmacy (or work setting), as well as an appropriate approach by the pharmacy staff to disclose and discuss the medication incident with the patient and family members.

Expanded scope of practice
As the pharmacy profession evolves, pharmacy technicians will be increasingly relied upon to complete all technical aspects of new and refill prescriptions. The expected competencies for pharmacy technicians are established by the National Association of Pharmacy Regulatory Authorities.(1) At the provincial level, each regulatory college is responsible for instituting the required legislation in order to allow for regulation of pharmacy technicians and subsequently authorize pharmacy technicians to assume expanded roles.

Pharmacy technicians are expected to make meaningful impact on patient care in community, hospital, and long-term care settings. They will assume more responsibilities with full implementation of their expanded scope of practice; this will include accepting verbal prescriptions, transferring prescriptions, and completing the final technical check for prescriptions (Table 1).

The evolution of the pharmacy profession is creating exciting opportunities for both pharmacists and pharmacy technicians to improve patient care. Pharmacy technicians are in a unique position to help pharmacists maximize patient encounters and achieve desired therapeutic outcomes. However, the steps required to integrate the expanded roles of pharmacy technicians into daily workflow need to be coordinated with all pharmacy staff members. If they are not, near misses or medication incidents due to miscommunication, lack of trust, and inconsistency are more likely to occur.

Understanding medication safety and medication incidents
*People working in health care are among the most educated and dedicated workforce in any industry. The problem is not bad people; the problem is that the system needs to be made safer.*(2)

Integrating the technical checks performed by pharmacy technicians with the therapeutic verifications done by pharmacists is meant to ensure that patients will receive appropriate and effective medication therapy. On the other hand, establishing a culture of patient safety in the work setting is also essential to improve medication safety and overall patient care. Healthcare practitioners who embrace a culture of patient safety recognize that pharmacists and pharmacy technicians are human, and therefore mistakes are possible.(3) It is impossible to expect that humans will deliver a perfect performance all the time. In fact, accidents or mistakes are typically related to flaws in the system (eg, the environment or the work setting) and human errors should be expected as part of any work environment. To prevent mistakes from happening in a pharmacy setting, we need to develop a system that is resilient to expected human errors. First, we need to apply a system-based approach to handling medication incidents and move away from the traditional mentality of “blame and shame.” If a medication incident is discovered, we should do the following:

- Acknowledge in a positive way the staff member(s) who reported the incident

<table>
<thead>
<tr>
<th>Technical task</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accepting verbal prescriptions*</td>
<td>Dr. Jones calls the pharmacy because Ms. Jane requires a new prescription for Ventolin® HFA. Pharmacy technicians can accept the verbal prescription from Dr. Jones over the phone independent of the pharmacist.</td>
</tr>
<tr>
<td>Transferring prescriptions*</td>
<td>Pharmacy A calls Pharmacy B to request a prescription transfer for Ms. Jane. Pharmacy technicians can complete the transfer independent of the pharmacist.</td>
</tr>
<tr>
<td>Completing final technical checks for prescriptions</td>
<td>A patient presents to the pharmacy for a new prescription or to claim a refill. After the therapeutic check of the prescription performed by the pharmacist, during the dispensing process, pharmacy technicians can independently verify that the prescription vial contains the correct amount of the correct drug and that it is labelled correctly for the patient. The pharmacist can then give the prescription to the patient with full confidence that the prescription vial contains the accurate medication, quantity, and label.</td>
</tr>
</tbody>
</table>

*Pharmacy technicians are required to follow Provincial Acts and Regulations that govern verbal prescriptions and transferring prescriptions.

†Amendments to the Food and Drug Act Regulations have been proposed to enable regulated pharmacy technicians to receive and provide prescription transfers; government approval of these amendments is still pending.
(instead of penalizing them), so that everyone in the pharmacy team is aware of the event and can learn from it.

- Look into the potential causes or contributing factors in the work setting or the environment (that is, the medication distribution system) that may have allowed the incident to happen (instead of finding who’s to blame).
- Be aware that errors occur everywhere (as do near misses). Hence, we need to work together as a team to find out why the incident occurred, what the contributing factors may be, and what changes or improvements can be made in the workflow or the environment in order to prevent similar incidents from happening again. Some of the potential or typical contributing factors of medication incidents in a community pharmacy are look-alike or sound-alike drug names, labelling and packaging issues, dangerous abbreviations, illegible handwriting, miscommunication between staff, and lack of independent double checks.[5]

### Analysis of case study

The opening scenario illustrates a medication incident that can complicate the integration of pharmacy technicians into pharmacy practice. The high rate of medication incidents that occur in pharmacy settings is often due to many uncontrollable variables.[5] After a medication incident occurs, healthcare professionals need to resolve any immediate patient-related concerns and implement appropriate safeguards that address contributing factors. The following sections refer to the opening scenario. Let’s discuss key learning points involved in handling medication incidents.

**Learning Point 1: How should Derek prepare and deliver the disclosure for Mr. Smith?**

If a medication incident results in harm (regardless of the degree), healthcare providers are recommended to take "serious action in the workplace [to] involve a commitment to work together as a team to find out why the incident occurred, what the contributing factors may be, and what changes or improvements can be made in the workflow or the environment in order to prevent similar incidents from happening again."

### TABLE 2 - Disclosing a medication incident to the patient or family[^6]

<table>
<thead>
<tr>
<th>Stages</th>
<th>Recommendations</th>
<th>Examples relating to case study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1: Is disclosure of a medication incident appropriate or necessary?</td>
<td>• Decide if disclosure will have meaningful benefits for the patient and healthcare professionals. Mr. Smith’s wife was harmed (i.e., hyperglycemia resulting in a visit to the emergency department) due to the medication incident. Disclosure is appropriate because it helps Mr. Smith understand the events that led to his wife receiving the wrong medication.</td>
<td></td>
</tr>
<tr>
<td>Step 2: Preparing the disclosure</td>
<td>• The most responsible healthcare provider who is involved in direct patient care facilitates the disclosure process. As the most responsible healthcare provider, Stacey should be taking the lead to disclose the events to Mr. Smith. However, the medication incident has caused Stacey to lose focus of the situation. Fortunately, Derek is also prepared to discuss the medication incident with Mr. Smith. Mr. Smith returns to the pharmacy unexpectedly. This makes it difficult to plan an appropriate time and place for the disclosure. In this situation, Stacey and Derek need to direct Mr. Smith to a private area for the disclosure. If Mr. Smith’s unexpected arrival complicates the disclosure, Stacey and Derek need to make further arrangements to continue the disclosure at a time and place convenient for everybody.</td>
<td></td>
</tr>
<tr>
<td>Step 3: Disclosure</td>
<td>• Focus on the events that led to the medication incident. Possible script: “Hi Mr. Smith, I want to take a moment to discuss the events that led to your wife getting the wrong medication. After we received Mrs. Smith’s prescription, it was correctly entered into the computer system. However, there was a backlog of new prescriptions that caused me to rush and pick the incorrect medication that looked similar to the one that was supposed to be given to your wife. After Stacey finished with a medication consult with another patient, she saw you waiting and assumed the medication I selected was for you and not for your wife ....”</td>
<td></td>
</tr>
<tr>
<td>Step 4: Apology</td>
<td>• Offer an apology that communicates genuine sincerity about the medication incident. Possible script: “At this time I just want to say Stacey and I are both very sorry about this whole situation ....”</td>
<td></td>
</tr>
<tr>
<td>Step 5: Continued feedback</td>
<td>• Discuss future steps to avoid similar events from occurring in the future. Possible script: “Although we can’t change the past, we assure you that steps are being taken to prevent this from happening again. The medications that were mixed-up are no longer stored next to each other. Also, there are stickers that help us easily distinguish the two products. More importantly, we have a new independent double check system to make sure the right patient receives the right medication. We feel terrible about what has happened. Please know that everything is being done to make sure this does not happen again. If you need more information or want to talk to us, feel free to call the pharmacy or drop by in person.”</td>
<td></td>
</tr>
</tbody>
</table>
immediate action or make arrangements to discuss the situation with the patient. The action plan should be patient-oriented to begin with. Every disclosure will be different based on the medication incident and the patient involved. A five-step approach is outlined in Table 2.

Learning Point 2: What steps should be taken to ensure Derek receives appropriate support from staff and management?
Caregivers or healthcare providers are often not recognized as “victims” after a medication incident. However, medication incidents can cause healthcare professionals to experience substantial emotional burden.\(^6\) For this reason, patient safety literature uses the term second victim to describe the psychological impact of medication incidents from the healthcare perspective.\(^6,7\) As the second victim, healthcare professionals involved with medication incidents can often feel shame, guilt, anger, and self-doubt.\(^6\)

Possible human error is unavoidable, and often inevitable, when processing prescriptions. As newly regulated healthcare professionals with expanded roles and responsibilities, pharmacy technicians are more likely to be involved in near misses or medication incidents. This may potentially compromise continuous professional development and self-esteem. Pharmacy managers are encouraged to develop appropriate strategies or policies in order to minimize the emotional burden of the second victim in any medication incidents. These proactive or continuous quality improvement measures will ensure pharmacy team members (including pharmacy technicians) receive the necessary emotional, psychological, and practical support.

Learning Point 3: How to identify immediate or underlying causes of the medication incident. What happened? Why did it happen?
As previously mentioned, mistakes are typically related to flaws in the medication distribution system. Referring to the opening scenario, the following contributing (both human and environmental) factors were likely involved in the “incorrect medication” incident of Mrs. Smith’s prescription.

- **Workload or interruptions.** The incident happened on an unexpectedly busy night. Typical workflow was interrupted by unanticipated downtime of the online third-party billing system. Distractions and unforeseen multitasking demands might create a challenge to the human limits and result in preventable errors in the dispensing process.

- **Look-alike or sound-alike drug names.** The drug names NovoRapid® Penfill (insulin aspart) and Novolin®Ge 30/70 Penfill (insulin injection 30%; insulin isophane 70%) do look alike, to some extent, especially when we are in a rush or multitasking. 

- **Look-alike labelling or packaging.** The labelling and packaging of NovoRapid® Penfill (insulin aspart) and Novolin®Ge 30/70 Penfill look quite similar. They can easily be mixed up, especially if they are stored side-by-side in the fridge.

- **Independent double check for high alert drugs.** Insulin is known to be one of the top 10 drugs most frequently reported as causing harm due to medication error.\(^9\) The dispensing of Novolin®Ge 30/70 Penfill (insulin injection 30%; insulin isophane 70%) did not really undergo an independent double check process. The prescription was entered by the pharmacist, who also selected the product from the fridge (as part of the dispensing process). With distractions (such as constant telephone calls) or in a rushed situation, it is possible that human factors, such as confirmation bias (explained below), might influence the checking process. In this case, the pharmacy technician assumed that the Penfill package that was placed on the dispensing counter by the pharmacist was the correct medication and signed off on it.

- **Information provided to patient delegate.** Typically, prescription counselling for the patient or the patient delegate at the pick-up counter or the private counselling area should be the final gate-keeping step to communicate and double check that the right medication has been provided to the right patient. However, on account of a rushed situation, this step was omitted.

- **Confirmation bias.** As human beings, confirmation bias (which leads us to see information that confirms our expectation rather than what’s actually there), can be inevitable, especially when we are under stress or confronted with many distractions in a busy environment. In the opening scenario, the pharmacist (Stacey) saw Mr. Smith in the pharmacy and expected that he was here for his usual medication (Novolin®Ge 30/70 Penfill). Her confirmation bias simply led her to ratify, rather than challenge, her expectation.

Learning Point 4: How to prevent similar incidents from happening again in the future.
From the patient’s (or the family’s) point of view, whenever harm occurs in a medication incident, it is important for them to know the following: the facts (refer to Learning Point 1 and Table 2); the possible causes, i.e., why the incident happened (refer to Learning Point 3); that the healthcare provider and the pharmacy are sorry for what happened (refer to Learning Point 1 and Table 2); and what steps will be taken to prevent similar incidents in the future (refer to Table 4).\(^5\)

Error prevention strategies should be system-based, with an ultimate goal of making the practice setting safer and more user-friendly, while taking into consideration that human factors and human errors are part of any work environment.\(^8\) According to the error prevention principles,\(^9\) the

---

**TABLE 3 - Providing support for “the second victim”\(^6\)**

<table>
<thead>
<tr>
<th>Support initiatives</th>
<th>Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open recognition of the second victim</td>
<td>Develop a systematic approach to support pharmacy team members after a medication incident</td>
</tr>
<tr>
<td>Appropriate reassurance from pharmacy staff</td>
<td>Prevent negative reaction from pharmacy staff by increasing staff awareness and recognition of the issue and offering empathy</td>
</tr>
<tr>
<td>Opportunity to debrief about the medication incident</td>
<td>Pharmacy staff involved in the incident should have the opportunity to discuss the incident with the pharmacy manager, other staff members, or peers, and information and support should be provided</td>
</tr>
<tr>
<td>Professional support</td>
<td>Involve trained counsellors to reduce long-term emotional and psychological burden</td>
</tr>
</tbody>
</table>

---

\(^5,6\) According to the error prevention principles, the strategies should be system-based, with an ultimate goal of making the practice setting safer and more user-friendly, while taking into consideration that human factors and human errors are part of any work environment.\(^8\)
### TABLE 4 - Error prevention principles*\(^{(10)}\)

<table>
<thead>
<tr>
<th>Contributing factors</th>
<th>Error prevention principles*</th>
<th>Application to opening scenario</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workload or interruptions</td>
<td>Rules and policies</td>
<td>Pharmacy management may set up a policy mandating that back-up support be available from front-store staff if the pharmacy is experiencing an unexpected high volume of prescriptions or unanticipated technical interruptions, etc.</td>
</tr>
<tr>
<td>Look-alike or sound-alike drug names</td>
<td>Reminders, checklists, and double checks</td>
<td>Display the Institute for Safe Medication Practices (ISMP) list of confused drug names (<a href="http://www.ismp.org/tools/confuseddrugnames.pdf">www.ismp.org/tools/confuseddrugnames.pdf</a>) at each dispensing workstation to educate and remind pharmacy staff about different pairs of look-alike and sound-alike drug names.</td>
</tr>
<tr>
<td>Look-alike labelling or packaging</td>
<td>Rules and policies</td>
<td>Pharmacy management may set up a policy to separate the storage of drug products with look-alike labelling or packaging (such as using dividers or baskets in the fridge to segregate the various types of insulin products or applying stickers to the product package in order to help pharmacy staff distinguish similar-looking drug products).</td>
</tr>
<tr>
<td>Independent double check for high alert drugs</td>
<td>Reminders, checklists, and double checks</td>
<td>Display the ISMP list of high-alert medications (<a href="http://www.ismp.org/tools/highalertmedications.pdf">www.ismp.org/tools/highalertmedications.pdf</a>) at each dispensing workstation to educate and remind pharmacy staff about drugs that are most frequently reported as causing harm due to medication incidents.</td>
</tr>
<tr>
<td>Information provided to patient delegate</td>
<td>Education and information</td>
<td>Pharmacy management may set up a policy requiring that an independent double check process be performed by another pharmacy technician (or the pharmacist on duty if another pharmacy technician is not available) during the dispensing process of high alert medications.</td>
</tr>
<tr>
<td>Confirmation bias</td>
<td>Reminders, checklists, and double checks</td>
<td>While counselling on the prescription at the pick-up counter or private counselling area, initiate a dialogue with the patient or the patient's delegate regarding the medication that is being picked up. Very often, this can serve as an independent double check or gate-keeping step in order to ensure that the right medication is provided to the right patient.</td>
</tr>
</tbody>
</table>

*According to the error prevention principles,\(^{(10)}\) in order of effectiveness, from high to low: automation and computerization; reminders, checklists, and double checks; rules and policies; education and information.

Following strategies are listed in the order of effectiveness, from high to low:
- Forcing functions and constraints
- Automation and computerization
- Simplification and standardization
- Reminders, checklists, and double checks
- Rules and policies
- Education and information
  Sometimes, solutions of a higher standard of effectiveness may not be applicable or logistically feasible, but pharmacy team members should strive for these high standards whenever possible.

**Beyond the pharmacy**

What if the patient or the patient’s family files a complaint against the pharmacy technician and the pharmacy team involved in the medication incident to the provincial regulatory body? Will this result in disciplinary and punitive measures? According to data provided by the Ontario College of Pharmacists,\(^{(11)}\) the majority of complaints about medication incidents do not result in referrals to the Discipline Committee. In fact, the Complaints Committee generally handles complaints about medication incidents from a remedial point of view rather than from a disciplinary or punitive approach, provided that the regulated member (eg, pharmacist or pharmacy technician) has acted and responded in the best interest of the patient or the patient’s family as well as professionally, responsibly, and ethically when confronted with the medication incident, when disclosing the events related to the incident, and when subsequently following up with the situation in a patient-oriented and system-based approach. Medication incidents should be viewed not only as learning opportunities for continuous quality improvement for pharmacy team members, but also as reminders of their professional obligations.\(^{(11)}\)

**Conclusion**

The medication distribution system, which involves multiple stages of prescribing, order entry, dispensing, administration, and monitoring, is known to be complex and vulnerable to errors. Human factors are inevitable in each of these stages, often leading to near misses and medication incidents. Therefore, system-based continuous quality improvement measures should be embraced in order to establish a
culture of safety and a work environment with safe medication practices that are resilient to human errors. As part of the pharmacy profession, pharmacy technicians can play a pivotal role in facilitating quality improvement processes in pharmacy practice.

REFERENCES

QUESTIONS
1. Each of the following technical checks can be performed by registered pharmacy technicians, EXCEPT:
   a) The appropriate amount of water is added to a bottle of amoxicillin 125 mg / 5 mL to reconstitute a 150 mL suspension.
   b) The prescription label on the bottle of amoxicillin 125 mg / 5 mL reflects the directions authorized by the prescriber.
   c) Amoxicillin is the drug of choice for the patient’s medical condition.
   d) The number of refills of a prescription authorized by the prescriber is entered into the dispensing system.
2. A system-based approach to handling medication incidents includes each of the following, EXCEPT:
   a) Finding out who made the mistake(s) that led to the incident.
   b) Acknowledging the staff member(s) who reported the incident.
   c) Looking into the potential causes or contributing factors in the work setting or the environment that may have allowed the incident to happen.
   d) Being aware that errors happen everywhere, and working together as a team to implement changes or improvements in the workflow or the environment in order to prevent similar incidents from happening again.
3. In regards to disclosing a medication incident to a patient, which of the following is CORRECT?
   a) Healthcare professionals always need to disclose medication incidents to patients, regardless of patient outcomes.
   b) Disclosures should be done at a time convenient for the healthcare professional.
   c) Disclosures only involve managerial healthcare professionals and patients.
   d) Disclosures require a sincere apology from the healthcare professional explaining the medication incident.
4. Which of the following statements is FALSE in relation to events that take place BEFORE the disclosure?
   a) Only the most responsible healthcare provider can facilitate the disclosure process.
   b) All healthcare providers involved in the medication incident must be prepared to discuss relevant events to the patient and family members.
   c) The location of the disclosure should be private and free of interruptions.
   d) Adequate time should be set aside to allow a complete discussion about the medication incident.
5. Which of the following statements is TRUE in relation to events that take place DURING the disclosure?
   a) The disclosure focuses on blaming the person that caused the medication incident.
   b) The disclosure involves the healthcare professional describing the most likely pharmacological mechanism involved in the medication incident.
   c) The disclosure only focuses on the events that led to the medication incident.
   d) Healthcare professionals should immediately compensate the patient for his or her troubles.
6. Which of the following statements is FALSE in relation to events that take place AFTER the disclosure?
   a) Healthcare professionals are required to defer all future patient questions to a neutral party to help the healing process.
   b) Healthcare professionals should provide ongoing support to the patient and family members.
   c) Healthcare professionals should discuss future steps to avoid similar events from occurring again.
   d) Healthcare professionals are encouraged to continue a positive relationship with the patient.
7. After a medication incident, the “second victim” refers to the
   a) Regulatory board member
   b) Family member
   c) Healthcare professional
   d) Drug manufacturer
8. Which of the following statements is TRUE in relation to supporting the “second victim” after a medication incident?
   a) Prevent open recognition
   b) Organize disciplinary hearings
   c) Encourage reassurance from staff
   d) Professional support is not required
9. A human factor that involves leading us to “see” information that confirms our expectation rather than to “see” information that contradicts our expectation is called:
   a) Internal bias
   b) Confirmation bias
   c) Selection bias
   d) Verification bias
10. The following contributing factors could be involved in a medication incident regarding the mix-up of Prednisone 5 mg and Prednisone 50 mg tablets.
    a) Look-alike labelling or packaging
    b) Confirmation bias
    c) Workload or interruptions

Please select the best answer for each question or answer online at www.CanadianHealthcareNetwork.ca for instant results.
d) All of the above

11. Which of the following solutions would be the most effective in preventing drug name confusion due to look-alike/sound-alike drug names?
   a) Organize an information session to educate pharmacy staff members about various pairs of look-alike/sound-alike drugs
   b) Display the ISMP’s list of confused drug names at each dispensing workstation to remind pharmacy team members.
   c) Set up an internal policy that requires an independent double check be performed by another pharmacy technician for all dispensing activities.
   d) Install a bar-coding technology into the dispensing workstations, so that in addition checking the Drug Identification Number (DIN) during dispensing, scanning of the bar-code on the inventory drug product may also serve as an independent double check.

12. Which of the following solutions is the least feasible logistically in a short time frame (eg, 1–3 months) in preventing drug name confusion due to look-alike/sound-alike drug names?
   a) Organize an information session to educate pharmacy staff members about various pairs of look-alike/sound-alike drugs
   b) Display the ISMP’s list of confused drug names at each dispensing workstation to remind pharmacy team members.
   c) Set up an internal policy that requires an independent double check be performed by another pharmacy technician for all dispensing activities.
   d) Install a bar-coding technology into the dispensing workstations, so that in addition checking the Drug Identification Number (DIN) during dispensing, scanning of the bar-code on the inventory drug product may also serve as an independent double check.

13. It is important to initiate a dialogue with the patient or the patient’s delegate regarding the medication that is being picked up, because
   a) This is part of customer relationship management.
   b) This is the best moment to explain to the patient other professional services that are offered by the pharmacy.
   c) This may serve as an independent double check or a gate-keeping step to ensure that the right medication is dispensed to the right patient.
   d) This is part of the responsibilities of a regulated pharmacy technician.

14. Which of the following statements is false?
   a) In most cases, complaints about medication incidents result in remedial recommendations rather than punitive measures by the provincial regulatory body.
   b) The Complaints Committee of a provincial regulatory body will always refer complaints about medication incidents to the Discipline Committee.
   c) Medication incidents should be viewed as a reminder for pharmacy team members of their professional obligations.
   d) When handling a medication incident, it is important that the pharmacy team acts and responds in the best interest of the patient.

15. In order to create a work environment with safe medication practices that are resilient to human errors, we need to
   a) Establish a culture of safety.
   b) Encourage reporting and open discussion of near misses and medication incidents.
   c) Maintain system-based continuous quality improvement measures.
   d) All of the above.

---

TECHtalkCE

How to handle a medication error
1 CEU • MAY 2013
CCCEP # 1065-2013-688-I-T Tech.
Not valid for CE credits after May 12, 2014.

---

For information about CE marking, please contact Mayra Ramos at 416-764-3879 or fax 416-764-3937 or email mayra.ramos@rci.rogers.com. All other inquiries about Tech Talk CE should be directed to Tasleen Adatia at 416-764-3926 or tasleen.adatia@rci.rogers.com.