

Wednesday, December 14, 2022

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The handout for today's presentation can be found at:

www.nabp.pharmacy/webinar



Financial Disclosures

Our speaker Nakia Eldridge declares that she does not have a current affiliation or financial arrangement with any ineligible companies that may have a direct interest in the subject matter of this continuing pharmacy education (CPE) activity within the past 24 months.

Additionally, NABP staff involved in the planning of this activity do not have a current affiliation or financial arrangement with any ineligible companies that may have a direct interest in the subject matter of NABP's CPE Program within the past 24 months.

All relevant financial relationships have been mitigated.

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NCC MERP: Pharmacist Tools to Support Patient Safety

Nakia Eldridge, MBA, PharmD Director, Healthcare Patient Safety Information United States Pharmacopeia Secretariat, NCC MERP



Pharmacist Tools to Support Patient Safety

Nakia Eldridge, PharmD, MBA
Director, Healthcare Patient Safety Information
US Pharmacopeia
Secretariat, NCC MERP

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Self-Assessment Question #1

Medication errors can occur at which stage of the medication cycle?

- a. Ordering/prescribing
- b. Dispensing
- c. Administering
- d. Monitoring
- e. All of the above



Self-Assessment Question #2

Which of the following is FALSE about medication error reporting?

- a. Anyone can report a medication error
- b. Medication error reporting is required
- c. There is a nationally standardized reporting system
- d. All of the above are true
- e. All of the above are false

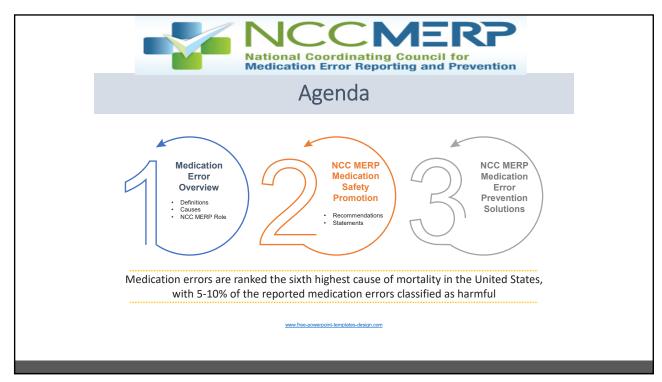
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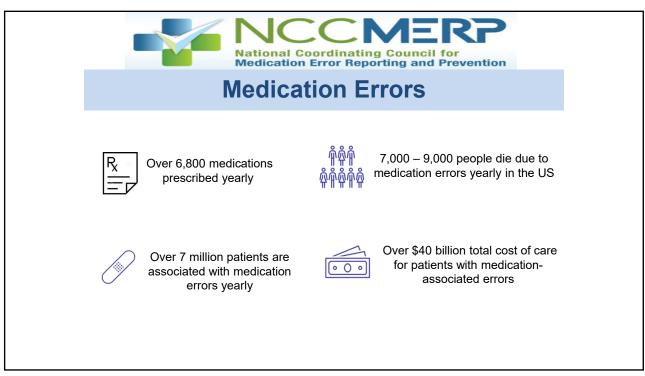
Self-Assessment Question #3

Which of the following are medication safety organizations?

- a. ISMP
- b. JC
- c. MSOS
- d. NCC MERP
- e. All of the above



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NCC MERP – Role in Medication Safety



Vision

No patient will be harmed by a medication error.



Medication Error Focus

- · Definitions
- Index
- · Dangerous Abbreviation
- Taxonomy
- · Medication Error Reporting
- Adverse Drug Event Algorithms

Recommendations Statements



Mission

To maximize the safe use of medications and to increase awareness of medication errors through open communication, increased reporting, and promotion of medication error prevention strategies

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Medication Errors Defined

There is no uniform definition of a medication error.

The National Coordinating Council for Medication Error Reporting and Prevention defines a medication error as:

"A medication error is any preventable event that may cause or lead to inappropriate medication use or patient harm while the medication is in the control of the healthcare professional, patient, or consumer. Such events may be related to professional practice, health care products, procedures, and systems, including prescribing; order communication; product labeling, packaging, and nomenclature; compounding; dispensing; distribution; administration; education; monitoring; and use."

The Council has urged all stakeholders to adopt this definition of a medication error to promote uniformity in the discussion of medication errors across the healthcare continuum. Among those adopting the NCC MERP definition are FDA, Centers for Medicare and Medicaid Services (CMS), and others.



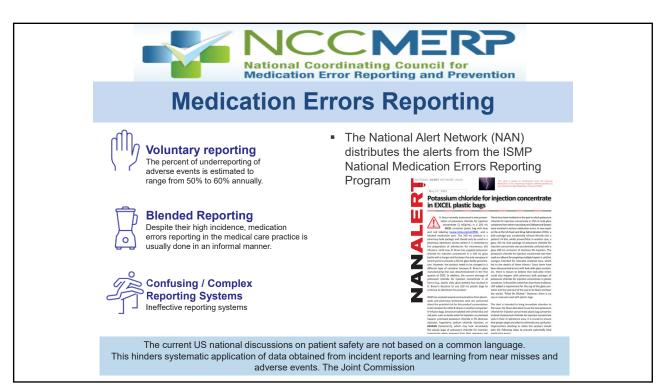
Medication Errors Roots

Medication errors can occur at many steps in patient care, from ordering to administration.

In general, medication errors usually occur at one of these points:

- · Ordering/prescribing
- Documenting
- Transcribing
- Dispensing
- Administering
- Monitoring

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NCC MERP – Taxonomy of Medication Errors

- The purpose of this taxonomy is to provide a standard language and structure of medication error-related data for use in developing databases analyzing medication error reports.
- The goal of the taxonomy is to provide a detailed structure and standardized language to report medication error-related data for use in developing databases to analyze medication error reports.

The taxonomy consists of 8 major categories:

- 1. Patient Information
- 2. Medication Error Event
- 3. Patient Outcome
- 4. Product Information
- 5. Personnel Involved
- 6. Type of Medication Error
- 7. Causes
- 8. Contributing Factors

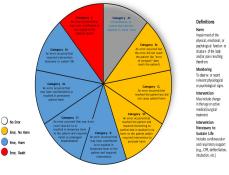
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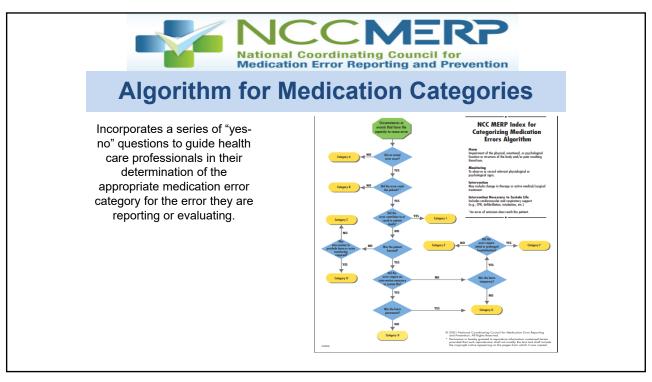
Categorizing Medication Errors

- An index to classify an error according to the severity of the outcome.
- Designed to help health care practitioners and institutions track medication errors in a consistent, systematic manner.
- Considers factors such as:
 - Whether the error reached the patient
 - If the patient was harmed and to what degree
- Circular configuration, which attributes an equal area to each of the nine medication error categories.

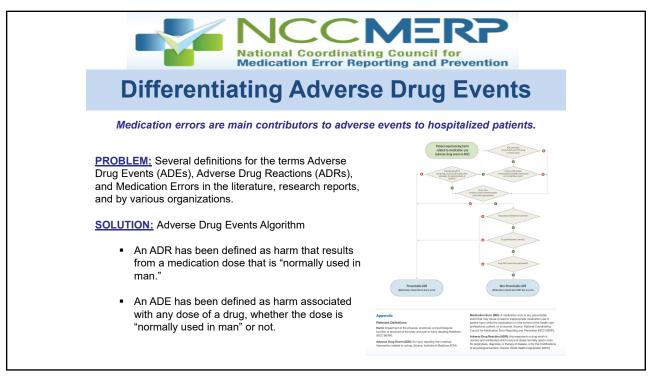
Index for Categorizing Medication Errors

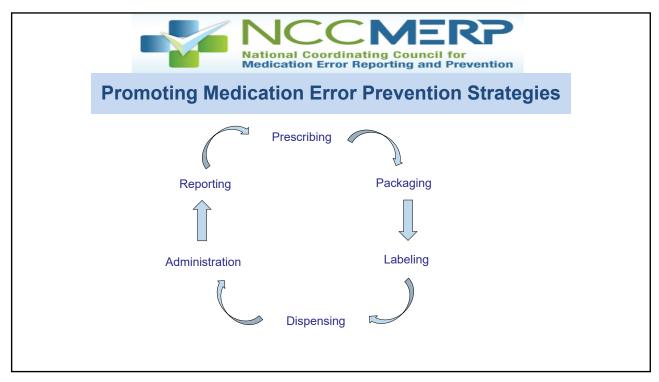


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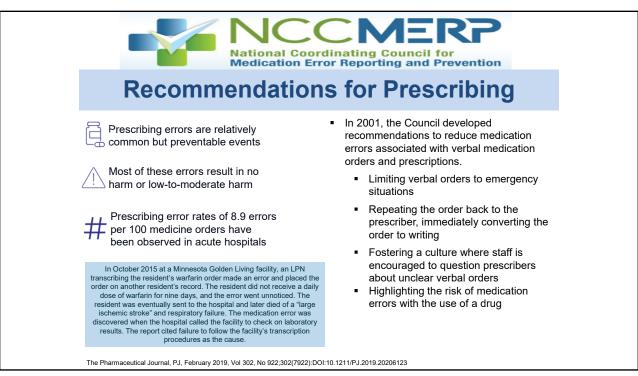


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Recommendations for Labeling and Packaging

On Jan. 22, 2017, Air Force and Korean War veteran Ralph Keogh went to Dorn VA for treatment for nausea and vomiting. The veteran, who had previously been treated for acute myelogenous leukemia, was given "several doses" of pegfilgrastim in error when he was prescribed filgrastim. "Given Mr. Keogh's medical history, the medication error caused Mr. Keogh to develop pulmonary toxicity, which led to acute respiratory distress syndrome or severe acute lung injury."



- In 1997 the Council adopted two sets of recommendations, one for regulators and standards-setters and one for manufacturers of pharmaceuticals and devices.
 - Restricting the use of any printing on caps and ferrules of injectables except to convey warnings
 - Using innovative labeling, such as enhanced letters, to distinguish similar drug names
 - Implementing of bar coding
 - Using failure mode and effects analysis for the design of devices, and for the packaging and labeling of medications
 - Partnering among members of the entire medication use spectrum to minimize labeling and packaging errors

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Recommendations for Dispensing

For about 18 months, a young child had been receiving a 3-gram (20 mL) dose of tryptophan 150 mg/mL suspension by mouth at bedtime to treat a complex sleep disorder.

A refill of the tryptophan prescription was ordered and picked up from the compounding pharmacy that had prepared the suspension in the past. That night, the child was given the usual dose of medication; the next morning, the child was found deceased in bed.

A post-mortem toxicology test identified lethal levels of the antispasticity agent baclofen. Baclofen had not been prescribed for the child.

This finding was consistent with a selection error having been made at the pharmacy, whereby one ingredient was inadvertently substituted for another.

A 71-year-old female accidentally received thiothixene (Navane), an antipsychotic, instead of her anti-hypertensive medication amlodipine (Norvasc) for 3 months. She sustained physical and psychological harm, including ambulatory dysfunction, tremors, mood swings, and personality changes.

ISMP Canada Safety Bulletin - Volume 17 • Issue 5 • May 25, 2017

- Patient harm is more likely to occur when there are no mechanisms in place to prevent medication errors from reaching patients.
- For example, poor environmental conditions, distractions, and excessive workload all act to undermine safe medication use practices.
- The Council adopted recommendations aimed at preventing errors that occur during the dispensing phase of the medication use process.
- Emphasis was placed on checking and rechecking labels, arranging product inventory to visually differentiate medications, designing dispensing areas that are conducive to uninterrupted work, and encouraging pharmacists to take an active role in counseling patients.



Recommendations for Administration

In December 2017, a Tennessee nurse was charged with reckless homicide because of an alleged medication error. According to several news outlets, including the Associated Press, instead of a sedative named Versed, the paralytic anesthetic vecuronium was injected to an elderly patient. It was alleged that when Versed could not be found in an automatic dispensing cabinet, the nurse selected vecuronium because it was the first medication that came up on the list when 'VE' was typed into the system of the cabinet.

A patient's heart stopped following administration of Levophed, a blood pressure drug. While the medication type was correct, a nurse administered 3,000-8,000 times the prescribed dosage. Numerous factors contributed to this error, regulators determined, including the lack of safeguards for high-alert medications, the administering nurse's lack of experience with Levophed, and failure for a second nurse to sign off on dispensing the medication.

- The Council seeks to ensure that health care professionals who administer medications are knowledgeable about the drugs they administer and have easily accessible product information.
- The Council adopted recommendations to reduce errors related to the administration of drugs in all areas of health care delivery, once again focusing on the five patient rights.
 - Check labels three times
 - Use linked automated systems (eg, direct order entry, computerized medication administration records, and bar coding)
 - Use data from actual or potential administration errors to continuously collect for quality improvement

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The Future of Medication Safety



Continuously promote medication safety:

- Publications and presentations
- Ongoing generation of relevant and timely information
- Design and implement strategies to reduce and/or prevent medication errors
- Promote error reporting
- Increase communication with interested parties



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Please direct any questions to Nakia.Eldridge@usp.org



Q&A

You may use the Questions tool on your screen to submit questions to the presenter.

Our host will read the questions out loud in the order they are received.

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- 3. Select the workshop from the Live Meetings and Conferences list
- 4. Enter the session code provided on the next slide
- 5. Complete the course and speaker evaluations
- 6. Select the appropriate credit (pharmacist or pharmacy technician)
- 7. Enter your NABP e-Profile ID and date of birth and certify that the information is correct
- 8. Click the claim button

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Questions about submitting your claim? Please contact CPE@nabp.pharmacy.