

# HEALTHCARE PERSPECTIVE

SUPPLEMENT 2

2015 ISSUE 3



We can show you more.®



## Medication Safety: A Self-assessment Tool

MEDICATION SAFETY PRACTICE	COMPLIANT? (YES/NO)	ACTION REQUIRED
<b>PATIENT AND DRUG DATA MANAGEMENT</b>		
1. A complete drug history – including current prescription medications; over-the-counter medications and supplements; alternative therapies; and alcohol, tobacco and illicit drug use – is electronically accessible, as are drug therapy records from recent episodes of care.		
2. Medication profiles are readily available at the point of care in electronic or paper form, and reflect up-to-date medication orders.		
3. Medication profiles include an allergy notation, along with a tiered severity rating to alert staff of drug intolerances.		
4. Allergy alerts are visible on all screens or pages of the patient medication administration record (MAR).		
5. Patient weight and height measurements are always recorded in metric units to avoid possible confusion.		
6. Laboratory values and diagnostic reports are easily accessible to prescribing practitioners, either through an electronic health record tracking program or conspicuous placement in paper records.		
7. Machine-readable coding is used to check patient identity and drug data prior to administration of drugs or, if this is not possible, two patient identifiers (such as patient ID number and birthdate) from the original prescription are used for verification.		
8. Documentation occurs simultaneously with medication administration to prevent critical gaps or oversights.		
<b>ORDERING AND DISPENSING SYSTEMS</b>		
1. The computer order entry (COE) system is linked to patient profiles, in order to alert ordering practitioners of comorbid or chronic conditions.		
2. The COE system interfaces with a pharmacy dispensing system, if feasible, to facilitate information sharing.		
3. Patient allergies are noted and coded in the COE system before medication orders are accepted.		
4. The COE system screens against patient profiles for allergies, as well as contraindicated medications, potential interactions and inappropriate doses.		
5. The COE system requires practitioners to explain why they are overriding an alert message regarding allergy status, maximum dose or potential drug interactions.		
6. The COE system incorporates precautions for look-alike and sound-alike drugs, such as placing them on different screens, showing names in boldface and/or uppercase letters, and triggering alerts for similar suffixes, such as XL, SR, ED and CD.		

MEDICATION SAFETY PRACTICE	COMPLIANT? (YES/NO)	ACTION REQUIRED
<b>ORDERING AND DISPENSING SYSTEMS (CONTINUED)</b>		
7. COE software expressly prohibits use of problematic notations and abbreviations (such as q.i.d., Sub q and D/C), as well as improper use of trailing/leading zeros.		
8. Automatic drug dispensing cabinets (ADCs) are available in treatment areas and are customized, when possible, for specific patient populations (e.g., endoscopy, interventional radiology, surgical post-op).		
9. A portable electronic or paper MAR is available next to each ADC, with instructions on how to prepare medications that require manipulation.		
10. ADCs exclude potentially hazardous compounds, such as vials of neuromuscular blocking agents and undiluted electrolytes.		
11. ADCs are double-checked by staff to ensure that no high-alert medications are present, and these checks are documented.		
12. ADC security databases are updated annually to remove expired access codes and create new passwords.		
13. ADC override reports and blind counts are monitored and reviewed via quality assurance processes.		
<b>HANDOFF COMMUNICATION</b>		
1. All medication containers prepared in advance – including IV and oral syringes, vials, bowls and basins –are appropriately labeled with the name of the patient and the drug’s name, strength and dosage.		
2. Unit-doses of medications remain packaged up to the point of handoff/ administration, in order to facilitate a final check of the MAR.		
3. All handoffs of prepackaged medications are preceded by a spoken exchange of information, which includes patient and drug name, as well as the dose, route and frequency of administration.		
4. Verbal drug orders from practitioners are acceptable only during emergencies or sterile procedures, and require the receiving party to transcribe the order, read it back to the prescriber and document the read-back for verification.		
5. Potential drug side effects are clearly communicated at points of transition and are documented on accompanying patient care plans and/or handoff reports.		
6. Written protocol addresses the safe use and disposal of anesthesia-related medications, requiring that syringes be prominently labeled with drug name, strength/concentration and expiration date.		
7. Patients receiving high-alert drugs via IV or epidural infusion are accompanied by a qualified nurse or licensed practitioner when transported between treatment areas, and the exchange from the accompanying practitioner to the receiving staff member involves a formal handoff.		
8. Staff members responsible for the ordering, transcribing, dispensing and/or administering of medications participate in documented simulations of higher-risk situations, in order to reinforce effective communication techniques and other safe practices.		
9. Patients are included in the handoff dialogue, when possible, in order to prevent errors, reinforce their awareness of the medication regimen and bolster post-discharge compliance.		

MEDICATION SAFETY PRACTICE	COMPLIANT? (YES/NO)	ACTION REQUIRED
<b>HIGH-ALERT, NON-STANDARDIZED AND LOOK-ALIKE/SOUND-ALIKE DRUGS</b>		
1. Special procedures are in place to prevent wrong dosages or concentrations of identified high-alert drugs (e.g., anti-coagulants, muscle relaxants, insulin, potassium chloride, opioids, adrenergic agents, dextrose solutions, chemotherapeutic agents).		
2. High-alert medications are always accompanied by standardized orders and/or computerized safe-dosing guidelines, and are verified by two persons before administration.		
3. Pediatric medications are accompanied by standardized orders and/or computerized dosing guidelines, and are stored away from adult dosages of the same medications.		
4. Infusions of high-alert drugs – such as IV opioids, epidural narcotic infusions and vasopressors – are standardized to a single concentration for use in the majority of cases.		
5. Dosages, formulations and concentrations of drugs on carts and in cabinets reflect emergency drug guidelines for both adult and pediatric patients.		
6. Antidotes and reversal agents for medications are available at the point of care, as are dosing guidelines.		
7. Patients who require contrast media are screened prior to the procedure for allergies, as well as for renal dysfunction and contra-indicated medications.		
8. Appropriate measures are taken to avoid the risk of contrast-induced nephrotoxicity or allergic response, including use of nonionic contrast, adequate hydration and postponement of treatment, if necessary.		
9. Non-standardized drugs approved for therapeutic use have accompanying safety enhancements, including (but not limited to) parameters for use, prescription guidelines, administration checks, monitoring protocols and separate storage areas away from other medications.		
10. Medications requiring multiple dilutions or extensive calculations are made available only when necessary, and are maintained in limited quantities for safety reasons.		
11. Clinical staff are educated about minimizing the risks associated with look-alike and sound-alike products, and their training is documented.		
12. Drugs with look-alike and sound-alike names are kept separate from each other, are not stored alphabetically with other stock medications, and have enhanced labels or other auxiliary warnings.		
13. Clinical staff are notified when medication stock is relocated or storage areas are reorganized, in order to reduce the likelihood of confusion or error.		
14. Pharmacists are available on-site or by telephone to consult with providers regarding prescribed medications.		

MEDICATION SAFETY PRACTICE	COMPLIANT? (YES/NO)	ACTION REQUIRED
<b>MEDICATION DEVICE SAFETY</b>		
1. Staff and temporary workers are educated about operating medication devices – including standard infusion pumps, “smart pumps” and ancillary equipment – and undergo documented competency testing on their safe use.		
2. Smart pumps and related devices are programmed to deliver maximum-dose alerts when administering potentially hazardous medications.		
3. Only one type or model of epidural pump is utilized, and it differs noticeably in appearance from standard IV infusion pumps.		
4. The type and number of syringe pumps used to deliver medications are limited, and all pumps are clearly marked to prevent mistakes.		
5. IV and epidural infusions are prominently labeled with the intended route of administration, and dosing concentration is consistent with infusion-pump programming (e.g., mg/kg/min).		
6. Tubing for epidural infusions differs noticeably from peripheral or central venous IV access tubing and does not contain Y-connector access ports.		
7. The distal ends of all tubing are clearly labeled for patients receiving multiple solutions via different routes, such as peripheral, central venous, arterial, epidural, enteral, bladder or other access sites.		
8. Syringes containing medications intended for oral/enteral administration are incompatible with the luer-locking mechanisms of IV infusion tubing, to prevent potentially catastrophic accidents.		
9. Solutions intended for infusion are verified jointly by two persons, unless the facility employs smart pump technology that checks doses and verifies bar codes at the point of care.		
10. The infusion verification procedure includes patient name and ID number, as well as: <ul style="list-style-type: none"> <li>▪ Drug and base solution.</li> <li>▪ Drug concentration and rate of infusion.</li> <li>▪ Channel of administration (for pumps that offer multiple channels).</li> <li>▪ Line attachment.</li> </ul>		
11. Written policy prohibits the administration of IV boluses via an infusion pump, unless smart pump technology allows programming for bolus doses.		
12. Trained technicians are available to provide prompt assistance in the event of a medication device malfunction.		



1-888-600-4776 [www.cna.com/healthcare](http://www.cna.com/healthcare)



1-888-288-3534 [www.nso.com](http://www.nso.com) [www.hpso.com](http://www.hpso.com)

*Healthcare Perspective* is a limited-edition publication for healthcare business owners. This series explores a range of relevant risk management concepts and offers strategies to detect and mitigate risks.

Published by CNA. For additional information, please contact CNA at 1-888-600-4776. The information, examples and suggestions presented in this material have been developed from sources believed to be reliable, but they should not be construed as legal or other professional advice. CNA accepts no responsibility for the accuracy or completeness of this material and recommends the consultation with competent legal counsel and/or other professional advisors before applying this material in any particular factual situation. Please note that Internet hyperlinks cited herein are active as of the date of publication, but may be subject to change or discontinuation. This material is for illustrative purposes and is not intended to constitute a contract. Please remember that only the relevant insurance policy can provide the actual terms, coverages, amounts, conditions and exclusions for an insured. All products and services may not be available in all states and may be subject to change without notice. CNA is a registered trademark of CNA Financial Corporation. Copyright © 2015 CNA. All rights reserved.

Healthcare Providers Service Organization and Nurses Service Organization are registered trade names of Affinity Insurance Services, Inc. (AR 244489); in CA & MN, AIS Affinity Insurance Agency, Inc. (CA 0795465); in OK, AIS Affinity Insurance Services Inc.; in CA, Aon Affinity Insurance Services, Inc. (0G94493), Aon Direct Insurance Administrators and Berkely Insurance Agency; and in NY, AIS Affinity Insurance Agency.

Published 3/15. *Healthcare Perspective* 2015-3 Supplement 2.