

# GROUP NO...3

## HIGH RISK MEDICATION MANAGEMENT

**Reviewed by**  
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CAHO

# TARGET AUDIENCE AND FREQUENCY OF TRAINING

- ▶ DOCTORS - QUATERLY
- ▶ NURSES - MONTHLY
- ▶ TECHNICIAN - MONTHLY
- ▶ PHARMACY PERSONNEL - QUATERLY

# SUGGESTION ON THE MODULE

▶ **Definition of High Risk Medication:**

**High risk medicines (HRMs) are medicines that have an increased risk of causing significant patient harm or death if they are misused or used in error.**

- ▶ **These drugs include generally have low therapeutic index**

# Preparation of HRM list as per ISMP List of High Risk Medication

Specific Medications	Classes/Categories of Medications (Abbreviation definitions: IV—intravenous, IM—intramuscular)
EPINEPHrine, IM, subcutaneous	adrenergic agonists, IV (e.g., EPINEPHrine, phenylephrine, norepinephrine)
epoprostenol (e.g., Flolan), IV	adrenergic antagonists, IV (e.g., propranolol, metoprolol, labetalol)
insulin U-500 (special emphasis*) (*All forms of insulin, subcutaneous and IV, are considered a class of high-alert medications. Insulin U-500 has been singled out for special emphasis to bring attention to the need for distinct strategies to prevent the types of errors that occur with this concentrated form of insulin.)	anesthetic agents, general, inhaled and IV (e.g., propofol, ketamine)
magnesium sulfate injection	antiarrhythmics, IV (e.g., lidocaine, amiodarone)
methotrexate, oral, nononcologic use	antithrombotic agents, including:
nitroprusside sodium for injection	- anticoagulants (e.g., warfarin, low molecular weight heparin, unfractionated heparin)
opium tincture	- direct oral anticoagulants and factor Xa inhibitors (e.g., dabigatran, rivaroxaban, apixaban, edoxaban, betrixaban, fondaparinux)
oxytocin, IV	- direct thrombin inhibitors (e.g., argatroban, bivalirudin, dabigatran)
potassium chloride for injection concentrate	- glycoprotein IIb/IIIa inhibitors (e.g.,eptifibatide)
potassium phosphates injection	- thrombolytics (e.g.,alteplase, reteplase, tenecteplase)
promethazine injection	cardioplegic solutions
vasopressin, IV and intraosseous	chemotherapeutic agents, parenteral and oral
	dextrose, hypertonic, 20% or greater
	dialysis solutions, peritoneal and hemodialysis
	epidural and intrathecal medications
	inotropic medications, IV (e.g., digoxin, milrinone)
	insulin, subcutaneous and IV
	liposomal forms of drugs (e.g., liposomal amphotericin B) and conventional counterparts (e.g., amphotericin B desoxycholate)
	moderate sedation agents, IV (e.g., dexmedetomidine, midazolam, LORazepam)
	moderate and minimal sedation agents, oral, for children (e.g., chloral hydrate, midazolam, ketamine [using the parenteral form])
	opioids, including:
	- IV
	- oral (including liquid concentrates, immediate- and sustained-released formulations)
	- transdermal
	neuromuscular blocking agents (e.g., succinylcholine, rocuronium, vecuronium)
	parenteral nutrition preparations
	sodium chloride for injection, hypertonic, greater than 0.9% concentration
	sterile water for injection, inhalation and irrigation (excluding pour bottles) in containers of 100 mL or

Training of list to target audience.

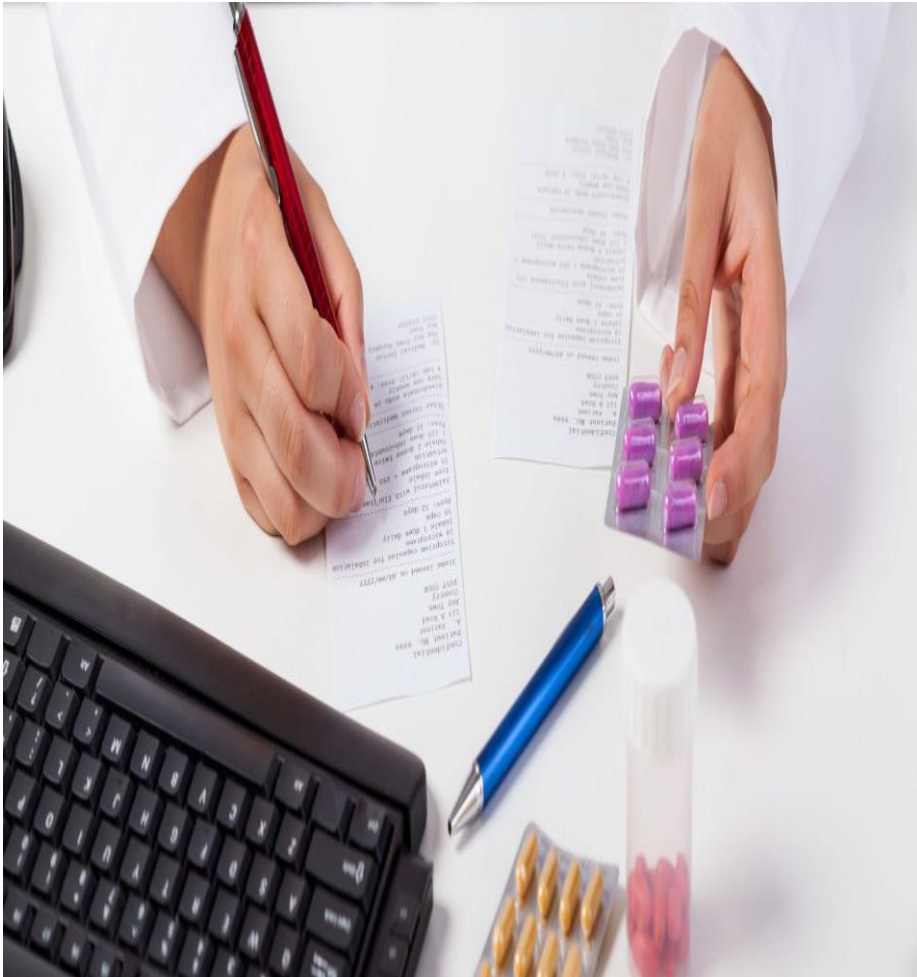
Display of high risk medication list in Pharmacy & Ward

**HIGH RISK**

# Storage of high risk medication- separate storage with color coding ( safety and security )

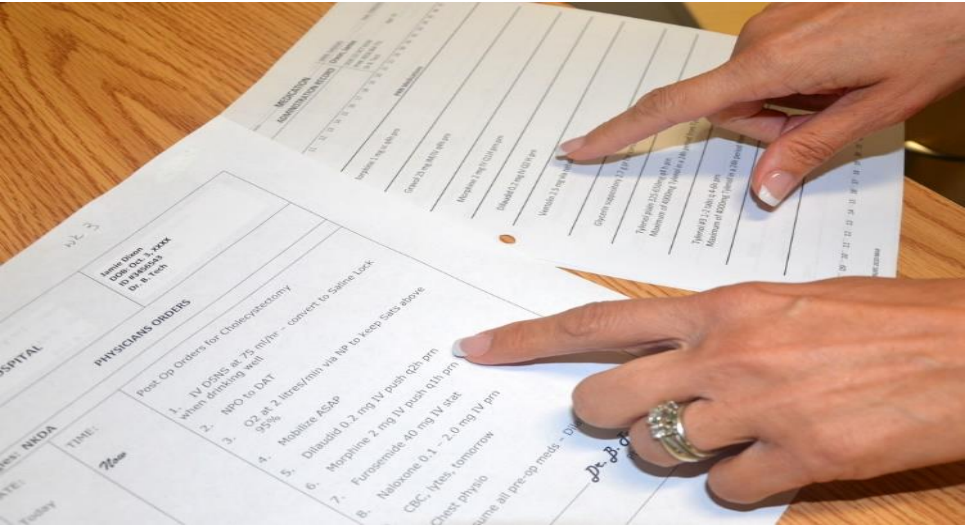


# Prescription and Dispensing





Verification of prescription and administration-In case of high risk medication(s), the verification shall be done by at least two staff (nurse-nurse or nurse-doctor) independently and documented. The nurses are knowledgeable regarding high risk medications and are empowered to highlight prescription errors noted while verifying the orders.



**Thank you**

The background features a series of overlapping, semi-transparent geometric shapes in various shades of purple and pink. These shapes are primarily located on the right side of the frame, creating a dynamic, layered effect. The colors range from light, airy pinks to deep, rich purples. The overall composition is clean and modern, with the text 'Thank you' centered in a bold, sans-serif font.