Appendix A – High Alert Medication Safeguards

Medication/Medication Class	Prescribers	Pharmacists	Nurses
Anticoagulants (includes heparin, low molecular weight heparin, thrombolytics, argatroban, eptifibatide, warfarin, factor Xa inhibitors)	 Utilize P&TC approved standard concentrations and order sets Order and monitor laboratory levels according to guidelines Avoid using 'banned abbreviations' – write units instead of "u" Note: multiple anticoagulants and/or antiplatelet agents increase the risk of bleeding, use cautiously 	 Procure commercially available premixed IV solutions when available Utilize P&TC approved standard concentrations Monitor laboratory levels according to guidelines Dispense with 'High Alert' auxiliary sticker Store in clearly labeled 'High Alert' bins 	 Continuous infusions require IDC upon initiation and any rate change Continuous infusions should be administered via a dedicated IV line Administer IV infusions via IV Smart Pump Obtain and communicate laboratory levels according to guidelines
Concentrated Potassium (≥ 2mEq/mL)	Shall never be ordered IV Push	 Shall never be stored in patient care areas Store in pharmacy only in clearly labeled High Alert bins 	Shall never be administered IV push
Sodium Chloride Solution >0.9%	 Utilize P&TC approved standard concentrations Order and monitor laboratory levels according to guidelines 	 Procure commercially available premixed IV solutions when available Shall never be stored in patient care areas Dispense with 'High Alert' auxiliary sticker Dispense 3% Hypertonic Saline with 'Caution: Hypertonic Sodium Chloride 3% - 500mLs' auxiliary sticker 	 Continuous infusions require IDC upon initiation and any rate change Administer via IV Smart Pump Monitor patient and laboratory levels according to guidelines If not used, medication must be returned to pharmacy
Insulins	 Utilize P&TC approved standard concentrations and order sets Avoid using 'banned abbreviations' – write "units" instead of "u" Order and monitor laboratory levels according to guidelines Ensure reversal agent ordered 	 Store in clearly labeled 'High Alert Insulin' bins with lids or in individual Pyxis pockets Dispense with 'High Alert' auxiliary sticker 	 IDC required at Pyxis upon removal of subcutaneous or IV push doses Continuous infusions require IDC upon initiation and any rate change Administer continuous infusions via IV Smart Pump Obtain and communicate laboratory levels according to guidelines
Narcotic/Opioid Analgesics: Patient Controlled Analgesia, continuous infusions, fentanyl transdermal patches, methadone	 Utilize P&TC approved standard concentrations and order sets Fentanyl patches must be ordered on fentanyl patch order form in addition to Orchid order set; Prescriber must be on facility's authorized prescriber list Ensure reversal agent ordered 	 Standardize and limit drug concentrations/formulations Ensure completion of fentanyl patch order form & prescriber is on facility authorized prescriber list Dispense with 'High Alert' auxiliary sticker Store in clearly labeled 'High Alert' bins 	 PCA/Morphine & Hydromorphone continuous infusions: IDC required upon initiation and any rate change Fentanyl Continuous infusion: IDC required upon initiation only Fentanyl Patch: IDC required upon administration and removal of patch Methadone: IDC required Administer PCA and continuous infusions via IV Smart Pump Monitor patient according to protocol
Benzodiazepine Continuous Infusions	Utilize P&TC approved standard concentrations and order sets	 Standardize and limit drug concentrations/formulations Dispense with 'High Alert' auxiliary sticker Store in clearly labeled 'High Alert' bins 	 IDC required upon initiation only Monitor patient according to protocol

IDC: Independent Double Check

Medication/Medication Class	Prescribers	Pharmacists	Nurses
Neuromuscular Blocking Agents (includes Cisatracurium, Pancuronium, Rocuronium, Succinylcholine, Vecuronium)	 Utilize P&TC approved standard concentrations and order sets Administer only after proper sedation/analgesia has been instituted Administer only if patient is properly ventilated or immediately prior to ventilation with provider present at bedside 	 Standardize and limit drug concentrations/formulations Dispense with 'High Alert' and 'Warning: Paralyzing Agent – causes respiratory arrest' auxiliary stickers Store in clearly labeled 'High Alert Paralytic' bins with lids 	 IDC required upon initiation and any rate change Verify patient is properly ventilated or will be immediately placed on ventilator Administer continuous infusions via IV Smart Pump Monitor patient according to protocol
Anti-Neoplastic Agents	 Must be ordered by credentialed prescriber Telephone/Verbal orders will not be accepted Do not use "u" for units when ordering dose Order and monitor laboratory levels according to guidelines 	 Two pharmacists to verify new regimens for dosage calculations and schedule Ensure prescriber is credentialed to order medication or has obtained specialist approval Dispense with 'High Alert' auxiliary sticker Store in clearly labeled 'High Alert' bins 	 IV Infusions: IDC required by chemotherapy certified nurse Oral: IDC required Ensure prescriber is credentialed to order medication or has obtained specialist approval Obtain and communicate laboratory levels according to guidelines Administer IV infusions via IV Smart Pump
Magnesium Sulfate (in all OB areas only – does not include electrolyte repletion)	Utilize P&TC approved standard concentrations and order sets	 Procure commercially available premixed IV solutions when available Utilize P&TC approved standard concentrations Dispense with 'High Alert' auxiliary sticker Store in clearly labeled High Alert bins 	 IDC required upon initiation and any rate change Administer via IV Smart Pump
Medications administered via intrathecal route	 Prescriber administration only Ensure formulations are sterile and preservative free 	 Compound product using preservative free, sterile formulations Filter needle shall be used unless contraindicated Dispense with 'High Alert' auxiliary sticker Dispense with 'Intrathecal Use Only' auxiliary stickers 	Monitor patient according to protocol
Medications administered via epidural route	 Prescriber administration only Ensure reversal agent ordered, if applicable 	 Utilize P&TC approved standard concentrations Dispense with 'High Alert' auxiliary sticker Dispense with 'Epidural Use Only' auxiliary stickers 	 Administer continuous infusions via Epidural Smart Pump Monitor patient according to protocol
Parenteral Nutrition	 Utilize P&TC approved parenteral nutrition order form for all orders Nutrition and GI consultation recommended prior to initiation PN Order and monitor laboratory levels according to guidelines 	 Ensure utilization of standard order form Monitor laboratory levels daily Dispense with 'High Alert' auxiliary sticker 	 IDC required upon initiation Administer via IV Smart Pump Obtain and communicate laboratory levels according to guidelines

IDC: Independent Double Check