



POLICY



High Alert Medications

1. Introduction

1.1. Purpose

<u>High Alert Medications</u> have an increased risk of causing significant <u>Client</u> harm when they are administered in error.

The purpose of this policy is to:

- Identify the regional list of High Alert Medications; and
- Outline required Client safety activities for storage, prescribing, preparation and administration of High Alert Medications.

1.2. Scope

This is a joint policy between Vancouver Coastal Health Authority (VCH) and Providence Health Care (PHC).

This policy applies to all VCH and PHC staff and <u>Providers</u> prescribing, storing or administering High Alert Medications in all areas, including inpatient, ambulatory/outpatient, community care, and residential care settings.

High Alert Medication use in the operating rooms by anesthesiologists will follow guidelines of the Canadian Anesthesiologist's Society.

This policy outlines the minimum requirements for the handling of designated High Alert Medications. Additional safeguards may be appropriate for medications in specific populations e.g. pediatrics or neonates.

2. Policy

2.1. Prescribing

- 2.1.1. Preprinted orders/electronic order sets will be developed for High Alert Medications, as appropriate.
- 2.1.2. Preprinted orders/electronic order sets will include Client monitoring criteria and rescue procedures, as appropriate.
- 2.1.3. Preprinted orders/electronic order sets, when available, will be used for initiating therapy with High Alert Medications, as appropriate.

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Effective date: 23/Oct/2023 Page 1 of 16





2.2. Storage and Labelling

- 2.2.1. Pharmacy will standardize and minimize the strengths/concentrations and package sizes of High Alert Medications available.
- 2.2.2. High Alert Medications will be issued as a Client-specific supply, which will be removed/returned to pharmacy when no longer required.
- 2.2.3. High Alert Medications will only be added to wardstock in a client service area with the approval of the Regional Pharmacy and Therapeutics Committee. Consideration will be given to the urgency with which the medication may be required, the safeguards available for storage and the availability of pharmacy services on site to provide a patient-specific supply.
- 2.2.4. If a High Alert Medication is wardstock in a client service area and an antidote/reversal agent exists, the antidote/reversal agent will also be available as appropriate.
- 2.2.5. In areas with automated dispensing cabinets (ADCs), High Alert Medications will be stored in locking bins with a user warning requiring positive acknowledgement when the product is removed.
- 2.2.6. High Alert Medications stocked outside of ADCs in client service areas will be stored in containers labeled with a "High Alert" sticker/label; medications stored within these containers will be labelled on their outer packaging with a "High Alert" sticker/label.

2.3. Preparation

- 2.3.1. High Alert Medications will be provided to client service areas in ready-to-administer dosage forms whenever possible to minimize the requirement for preparation on the units.
- 2.3.2. Parenteral Drug Therapy Manual monographs for High Alert Medications will be indicated as such.

2.4. Administration

- 2.4.1. High Alert Medications for intravenous infusion will be administered via infusion pump. The corresponding drug library setting will be used where available.
- 2.4.2 Select High Alert Medications will require an <u>Independent Double Check</u>. Refer to <u>Appendix A</u> for independent double check guidelines.
 - For PHC, refer to the <u>Independent Double Check of Medication (DOCUMENT #B-00-07-10098)</u> for a specific list of medications and checks required.
 - For VCH, refer to the Independent Double Check (IDC) of Medications (D-00-07-30354).

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Effective date: 23/Oct/2023 Page 2 of 16





2.5. Documentation

2.5.1. The computer generated (paper) or electronic medication administration record for High Alert Medications will indicate "High Alert Medication".

3. Responsibilities and Compliance

3.1 Regional Pharmacy & Therapeutics Committee

The Regional Pharmacy & Therapeutics Committee is responsible for approving the list of High Alert Medications (Appendix A) and ensuring implementation, maintenance and monitoring of policies regarding their use.

Audits of High Alert Medications will be conducted on an annual basis.

4. Supporting Documents

4.1 Related Policies

- High Alert Medications (Lower Mainland Pharmacy Services)
- Independent Double Check of Medication (DOCUMENT #B-00-07-10098) (PHC)
- Independent Double Check (IDC) of Medications (D-00-07-30354) (VCH)

5. Definitions

"Client" refers to a patient, resident or Client receiving care.

"High Alert Medications" are drugs that bear a heightened risk of causing significant Client harm when used in error. Although mistakes may or may not be more common with these drugs, the consequences of an error are clearly more harmful to Clients.

"Independent Double Check" (IDC) is a process by which two clinicians work separately to verify the accuracy of the order and medication related care to be delivered. The two clinicians perform the verification process independent of one another, without assistance from each other and without knowledge of the steps followed or conclusions arrived at by each other. Once verifications are complete, results are compared and discrepancies, if any, must be resolved before any action is taken e.g. transcription, preparation or administration.

"Parenteral Medication" refers to an injectable medication.

"**Providers**" refers to Physicians, Pharmacists, Registered Midwives, Registered Nurse Practitioners and Provider students, within their scope of practice.

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Effective date: 23/Oct/2023 Page 3 of 16





"Standard checking procedure" includes the completion of the rights of medication administration: right Client, drug, dose, route, time, reason and documentation.

6. References

Institute for Safe Medication Practices (ISMP) <u>Canada Definition of Terms</u>.

Institute for Safe Medication Practices (ISMP) <u>High-Alert Medications</u>.

Accreditation Canada 2020 Medication Management Standards.

7. Appendices

- Appendix A: High Alert Medications and Summary of Minimum Safety Practices
- Appendix B: BC Cancer Oncology High Alert Medication List
- Appendix C: Miscellaneous High-Alert Medications Wardstock Storage
- Appendix D: Concentrated Electrolytes Wardstock Storage
- Appendix E: High Dose Format Heparin Wardstock Storage
- Appendix F: High Dose Format Narcotic Wardstock Storage

Effective date: 23/Oct/2023 Page 4 of 16





Appendix A: High Alert Medications and Summary of Minimum Safety Practices

Medications or Routes	Ordering	Storage	Preparation	Administration*
Miscellaneous		Refer to Appendix C		
BC Cancer Oncology High Alert Medications List (Appendix B) Medications on the list are considered high alert for both oncology and non-oncology indications	PPO required for initiation of parenteral chemotherapy	Not stocked; patient-specific supply	Pharmacy	Refer to organization's Independent double- check guideline
methotrexate (all routes)		Not stocked; patient-specific supply	Pharmacy	Refer to organization's Independent double- check guideline
epidural infusions		Stocked with approval of Regional P&T	Pharmacy	Refer to organization's Independent double- check guideline
intrathecal medications		Stocked with approval of Regional P&T	Pharmacy	Refer to organization's Independent double- check guideline
perineural infusions		Stocked with approval of Regional P&T	Pharmacy	Refer to organization's Independent double- check guideline
patient controlled analgesia (IV- PCA, Epidural - PCEA, Perineural - PCPA)		Stocked with approval of Regional P&T	Pharmacy	Refer to organization's Independent double- check guideline
insulin IV continuous infusions		Stocked with approval of Regional P&T	Pharmacy/ Care area	Refer to organization's Independent double- check guideline
Insulin injections at concentrations above 100 units/mL		Not stocked; patient-specific supply	Care area	Refer to organization's Independent double- check guideline
sterile water for injection, in containers of 100 mL or more		Stocked with approval of Regional P&T	Care area	Standard checking procedure
neuromuscular blocking agents		Stocked with approval of Regional P&T	Care area	Standard checking procedure
Medications or Routes	Ordering	Storage	Preparation	Administration
High Dose Format Narcotics		Refer to Appendix F		
diacetylmorphine injections		Stocked with approval of Regional P&T	Care area	Refer to organization's Independent double- check guideline

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Effective date: 23/Oct/2023 Page 5 of 16





methadone oral liquid		Stocked with approval of Regional P&T	Care area	Refer to organization's Independent double- check guidelines
Opioids, parenteral vials or ampoules containing more than fentanyl 100 mcg or morphine 15 mg (adults) morphine 2 mg (pediatrics) HYDROmorphone 2 mg		Stocked with approval of Regional P&T	Care area	Refer to organization's Independent double- check guideline
Concentrated Electrolytes		Refer to Appendix D		
calcium salts for injection at concentrations of 10% or above		Stocked with approval of Regional P&T	Pharmacy/ Care area	Standard checking procedure
magnesium sulfate for injection at concentrations above 20%		Stocked with approval of Regional P&T	Pharmacy/ Care area	Standard checking procedure
potassium (all salts) for injection at concentrations of 2 mmol/mL or more		Stocked with approval of Regional P&T	Pharmacy/ Care area	Standard checking procedure
sodium acetate and sodium phosphate for injection at concentrations of 4 mmol/mL or more (of sodium)		Stocked with approval of Regional P&T	Pharmacy/ Care area	Standard checking procedure
Medications or Routes	Ordering	Storage	Preparation	Administration
Concentrated Electrolytes		Refer to Appendix D		
sodium chloride for injection at concentrations above 0.9%		Stocked with approval of Regional P&T	Pharmacy/ Care area	Standard checking procedure
High Dose Format Heparins		Refer to Appendix E		
heparin for injection containing 10,000 units or more per container		Stocked with approval of Regional P&T	Pharmacy/ Care area	Refer to organization's Independent double- check guideline
Low molecular weight heparin for injection, multidose vials		Stocked with approval of Regional P&T	Care area	Standard checking procedure
10,000 units or more per			• •	Independent doub

*Refer to: PHC: Independent Double Check of Medication (DOCUMENT #B-00-07-10098)

VCH: Independent Double Check (IDC) of Medications (D-00-07-30354)

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Effective date: 23/Oct/2023 Page 6 of 16





Appendix B: BC Cancer Oncology High Alert Medication List:

Medications on this list are considered high alert for both oncology and non-oncology indications.

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Effective date: 23/Oct/2023 Page 7 of 16





Appendix C: Miscellaneous High Alert Medications Wardstock Storage

Medications	Approved Indications for Wardstock Storage in the Listed Locations		
	Indications	Locations	
BC Cancer Oncology High Alert Medications List (Appendix B) Medications on the list are considered high alert for both oncology and non- oncology indications	None, not approved for storage in client service areas	None	
methotrexate (all routes)	None, not approved for storage in client service areas	None	
epidural infusions patient controlled epidural analgesia (PCEA) BUpivacaine ROpivacine BUpivacaine-fentanyl BUpivacaine-HYDROmorphone BUpivacaine-morphine HYDROmorphone	Pain Control	Post Anesthetic Care Units (PACU) Surgical Units Maternity SH – Operating Room, CCU	
intrathecal medications	None, not approved for storage in client service areas	None	
perineural infusions patient controlled perineural analgesia (PCPA) BUpivacaine ROpivacine	Pain Control	Post Anesthetic Care Units (PACU) –VA, LGH, SPH Cardiac Surgery ICU (CSICU) - VA Surgical Units – SPH, LGH, MSJ Operating Rooms - LGH	
intravenous infusions for patient controlled analgesia (PCA) HYDROmorphone fentanyl morphine	Pain Control	Surgical units Medicine units (For Overflow Surgical Patients) Critical Care Areas Renal Unit - SPH Maternity Operating Room Post Anesthetic Care Units (PACU) Neurology - LGH Radiology - LGH Pediatrics (for Overflow Adult Patients only) - LGH	
insulin IV continuous infusions (excluding dose titrations)	Glycemic control	VGH Operating Rooms (OR), critical care areas	

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Effective date: 23/Oct/2023 Page 8 of 16





Medications	Approved Indications for Wardstock Storage in the Listed Locations		
	Indications	Locations	
insulin injections at concentrations above 100 units/mL	None, not approved for storage in client service areas.	None	
sterile water for injection, in containers of 100 mL or more	Reconstitution of dantrolene for treatment of malignant hyperthermia	Operating Rooms (OR) PACU	
neuromuscular blocking agents rocuronium succinylcholine cisatracurium	Facilitate endotracheal intubation Skeletal muscle relaxation during surgery or mechanical ventilation	Critical Care Areas Burns trauma high acuity units (BTHA)-VA High acuity units (HAU) Maternity –RH, LGH Neonatal ICU – SPH Special Care Nursery - LGH Urgent Care Centre – UBC Whistler Healthcare Centre (WHCC) Pemberton Healthcare Centre (PHCC) Rapid sequence intubation kits	
	Reduce intensity of muscle contractions of pharmacologically or electrically induced convulsions	ECT (4W2) –MSJ ECT Areas - VA	

Critical Care Areas – see Parenteral Drug Therapy Manual Site-Specific Administration Restrictions list

BCGH – Bella Coola General Hospital

LGH – Lions Gate Hospital

MSJ – Mount St Joseph Hospital qGH – qathet General Hospital

RH - Richmond Hospital

VGH - Vancouver General Hospital

RWLMH - RW Large Memorial Hospital, Bella Bella

SGH – Squamish General Hospital

SH – Sechelt Hospital SPH – St Paul's Hospital

UBCH – University of BC Hospital

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Effective date: 23/Oct/2023 Page 9 of 16





Appendix D: Concentrated Electrolytes Wardstock Storage

Restricted	Approved Indications for Wardstock Storage in the Listed Locations			
Concentrated Electrolytes	Indications	Locations		
calcium chloride 10% (1 g/10 mL)	Life threatening arrhythmias	Critical Care Areas, High Acuity Units Emergency Response Drug Kits, Night Cupboard/Cabinet, Bella Coola (BCGH) - General unit in limited supply for crash cart replenishment		
	Antidote Depot Supply – calcium channel blocker poisoning	Antidote Depot Sites as per BC Drug and Poison Information Center Antidote Stocking Guidelines		
	Malignant Hyperthermia	Operating Room		
	Treatment of ionized hypocalcaemia due to citrate toxicity from blood product transfusions	Maternity		
calcium gluconate 10% (1 g/10 mL)	Life threatening arrhythmias	Critical Care Areas Emergency Response Drug Kits, Night Cupboard/Cabinet LGH HAU		
	Antidote Depot Supply- treatment of hydrofluoric acid burn	Antidote Depot Sites as per BC Drug and Poison Information Center Antidote Stocking Guidelines		
	Hypermagnesemia (part of Gestational Hypertension Protocol based on Perinatal Services of BC Guidelines)	Maternity		
	Urgent calcium replacement therapy	Medical Units – Bella Bella (RWLMH), Bella Coola (BCGH) Dialysis Units Plasma Exchange Units LGH HAU		
	Stem cell harvest	Apheresis Unit		
	Beta-blocker or calcium channel blocker overdose	LGH HAU		
magnesium sulfate 5 g/10 mL	Cardiac emergencies	Critical Care Areas Cardiac Units Emergency Response Drug Kits		
	Asthma Treatment	Emergency Department - qGH and SGH		
	Urgent magnesium replacement therapy	Client service areas at sites where pharmacy operational hours prevent the timely provision of a patient-specific supply: Night Cupboard- MSJ, LGH, RH		

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Effective date: 23/Oct/2023 Page 10 of 16





Restricted	Approved Indications for Wardstock Storage in the Listed Locations		
Concentrated Electrolytes	Indications	Locations	
		Coastal rural sites – SGH, qGH, SH, Whistler, Pemberton, Bella Bella (RWLMH), Bella Coola (BCGH)	
	Stem cell harvest Plasma Exchange	Apheresis Unit	
	Anticonvulsant in gestational hypertension protocol	Maternity	
potassium chloride greater than or equal to 2 mmol/mL	Cardioplegic solution (potassium chloride 40 mmol/20 mL and 80 mmol/40 mL)	SPH OR Pump Room	
potassium phosphate greater than or equal to 2 mmol/mL	None, not approved for storage in Client service areas.	None	
sodium acetate greater than or equal to 4 mmol/mL sodium	None, not approved for general wardstock storage in client service areas	None	
sodium chloride 3% 250 mL bag	Treatment of neurological emergencies	Critical Care Areas Neurology Units, Night Cupboard/Cabinet	
	WBC labeling in Nuclear Med	Nuclear Medicine	
sodium chloride 5% bag	None, not approved for general wardstock storage in client service areas	None	
sodium chloride 23.4% 30 mL	None, not approved for general wardstock storage in client service areas	None	
sodium phosphate greater than or equal to 4 mmol/mL sodium (30 mmol/10 mL phosphate)	Urgent phosphate replacement therapy	Client service areas at sites where pharmacy operational hours prevent the timely provision of a patient-specific supply: Night Cupboard - LGH,SH, MSJ, RH Coastal Rural Sites	

Critical Care Areas – see Parenteral Drug Therapy Manual Site-Specific Administration Restrictions list

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LGH – Lion's Gate Hospital SGH – Squamish General Hospital

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Effective date: 23/Oct/2023 Page 11 of 16





qGH – qathet General Hospital RH – Richmond Hospital SPH – St Paul's Hospital

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Effective date: 23/Oct/2023 Page 12 of 16





Appendix E: High Dose Format Heparin Wardstock Storage

Restricted Heparin	Approved Indications for Ward	stock Storage in the Listed Locations	
Products	Indications	Locations	
heparin 25,000 units/250 mL premixed bag	Heparin Infusions	Critical Care Areas, Cardiac Units, High Acuity Units, Night Cupboards/Cabinets All units at VGH and UBCH. Medicine units at Bella Bella (RWLMH), Bella Coola (BCGH)	
heparin 10,000 units/10 mL vial	Urgent bolus doses of heparin Initiation of heparin protocol	Critical Care Areas, Cardiac Units, High Acuity Units, Night Cupboards/Cabinets VGH, UBC – all units SPH, MSJ – all units LGH – Cardiac/telemetry (2E), Surgery (6E), Surgical Observation Unit and Trauma, Neuro Critical Care Unit Bella Bella (RWLMH) and Bella Coola (BCH) - Medicine Units PHC Community Dialysis Units	
heparin 30,000 units/30 mL vial	Cardiac Bypass Surgery	OR	
heparin 10,000 units/1 mL vial	None, not approved for storage in Client service areas	None	
heparin 50,000 units/5 mL vial	None, not approved for storage in client service areas	None	
enoxaparin 300 mg/3 mL multidose vial	Acute Coronary Syndrome	Critical Care Areas, Cardiac Units Night Cupboards/Cabinets Medicine units – Bella Bella (RWLMH), Bella Coola (BCGH)	
dalteparin 95,000 units/3.8 mL multidose vial	DVT/PE Treatment, Thromboprophylaxis for Cardiac Ablations	PHC – Critical Care	

Critical Care Areas – see Parenteral Drug Therapy Manual Site-Specific Administration Restrictions list

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Effective date: 23/Oct/2023 Page 13 of 16





Appendix F: High Dose Format Narcotic Wardstock Storage

Restricted High Dose	Approved Indications for Wardstock Storage in the Listed Locations		
Format Narcotics	Indications	Locations	
diacetylmorphine 100 mg/mL pharmacy prepared syringe	Opioid Use Disorder	Crosstown Clinic	
methadone oral liquid	Pain Control, Drug detoxification and maintenance	All units at VCH and PHC Vancouver Detox/Daytox	
fentanyl 250 mcg/5 mL vial	Pain Control, Rapid Sequence Intubation, Compounding of infusion bags	Critical Care Areas Code Blue Emergency Response Kit	
	Procedural sedation by anesthetist	Radiology SPH - Electrophysiology lab, Cardiac Procedure Room	
fentanyl 1000 mcg/20 mL vial	None, not approved for storage in client service areas	None	
HYDROmorphone 10 mg/1 mL vial	Pain Control	Palliative Care Units (PCU), North Shore Hospice, St. John Hospice, qGH Pallative Care Bed	
	Clients who require more than 4 mg/dose on non-PCU units	Night cupboard – LGH, SH, SGH, qGH, MSJ ICU	
	Opioid Use Disorder	SPH Urban Health unit, SPH Medicine units, SPH Substance Use Stability Unit (SUSU) unit – during non-pharmacy operating hours	
HYDROmorphone 50 mg/5mL vial	None, not approved for storage in client service areas	None	
HYDROmorphone 50 mg/1 mL vial	Opioid Use Disorder	SPH OR	
HYDROmorphone 50 mg/mL pharmacy prepared syringe	Opioid Use Disorder	Crosstown Clinic	
morphine 50 mg/1 mL vial	Compounding of infusion bags for pain control	SH – Cardiac Care Unit and ED for unit mixing of first dose infusion bags, subsequent infusion bags provided by pharmacy	
morphine 10 mg/1 mL vial in pediatric care areas	Pain control	LGH, RH - Dedicated Pediatric (non- Neonatal ICU) units that have large variation in Client weights	

Critical Care Areas – see Parenteral Drug Therapy Manual Site-Specific Administration Restrictions list

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Effective date: 23/Oct/2023 Page 14 of 16





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Effective date: 23/Oct/2023 Page 15 of 16





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			Matthew Kwok (Interim VP Quality and Safety and IPAC, VCH)		
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Issued by

Name Matthew Kwok Title Interim VP Quality and Safety and IPAC, VCH Date Oct 23, 2023

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Effective date: 23/Oct/2023 Page 16 of 16