

<b>SCHEDULE ROUTE</b>	<b>INTERMITTENT</b>		<b>CONTINUOUS</b>	<b>SPECIAL CONSIDERATIONS</b>
<b>DRUG (Generic Name)</b>	<b>BELOW DRIP CHAMBER</b>	<b>ABOVE DRIP CHAMBER/ SYRINGE PUMP</b>	<b>ABOVE DRIP CHAMBER</b>	
Acetylcysteine	Physician/RN	All Units	All Units	
Acetazolamide	Physician/RN	All Units	All Units	
Acyclovir		All Units		
Adenosine	MD/RN ICU, ER, Q5, IPU, PACU			Cardiac monitoring must be at bedside
Alfentanil NF	OR/ER Physician Only	OR/ER Physician Only		Respiratory support Monitor respiratory status. Ventilator support available. Naloxone readily available.
Alprostadil			SCN	Respiratory support Continuous heart rate and oximetry Blood pressure monitoring
Alteplase	ER, ICU Physician must be present		ER/ICU	Cardiac monitoring. This policy does not include for the purpose of unblocking central lines
Amikacin		All Units		
Aminophylline	Physician/RN		All Units	
Amiodarone		ICU, ER, , PBCM, PACU, ENDO	ICU, ER, PBCM, PACU	Cardiac monitoring, use with specific filter Blood pressure monitoring
Amphotericin B NF (Fungizone)		All units	All units	
Amphotericin B Lipid Complex (Abelcet)		All Units	All Units	
Amphotericin B Lipid Liposomal NF (Ambisome)		All Units	All Units	

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 Endo - Endoscopy (BGH and PECM)

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Ampicillin	All Units Physician/RN	All Units		Physician must be present for first dose below drip chamber only
Argatroban NF	All Units		All Units	
Atropine Sulphate	Physician/RN ICU, ER, IPU, PACU, DI, Q5, ENDO, PBCM, SCN with Physician Present			Cardiac monitoring must be at bedside
Azathioprine NF	Physician Only	All Units		
Azithromycin		All Units		
Calcitonin		All Units		
Calcitriol NF	RN or Physician			
Calcium Gluconate/Calcium Chloride	OBS, SCN, ICU, ER, PACU	All Units	All Units	Physician present for below drip chamber. Cardiac and blood pressure monitoring with BDC administration
Caspofungin NF		All Units		
Cefazolin	All Units	All Units	All Units	Physician must be present for first dose below drip chamber only
Cefotaxime	All Units	All Units	All Units	Physician must be present for first dose below drip chamber only
Ceftazidime	All Units	All Units	All Units	Physician must be present for first dose below drip chamber only
Ceftriaxone	All Units	All Units		Physician must be present for first dose below drip chamber only. Flush with 20 mL NS pre and post with an IV of RL

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Cefuroxime	All Units	All Units	All Units	Physician must be present for first dose below drip chamber only
Ciprofloxacin		All Units		Flush with 20 mL D5W pre/post dose
Cisatracurium	First dose must be given with Physician Present or be above the drip chamber. ER, ICU, PACU	ER, ICU, PACU	ER, ICU, PACU	Ventilator support available Cardiac monitoring Adequate sedation required. Physician must give 1 <sup>st</sup> dose.
Clindamycin		All Units		
Cloxacillin	All Units	All Units	All Units	Physician must be present for first dose below drip chamber only
Colistimethate (Colistin)	All Units	All Units	All Units	Physician must be present for first dose below drip chamber only
Cosyntropin	All Units	All Units		
Cotrimoxazole		All Units		
Cyclosporine NF		All Units		Use non-PVC administration sets
Danaparoid NF	All Units		All Units	
Dantrolene	ICU, PACU, ER,OR, OBS, ENDO	ICU, PACU, ER,OR, OBS, ENDO		Follow Malignant Hyperthermia protocol.
Daptomycin NF	All Units	All Units		
Deferoxamine		All Units	All Units	
Desmopressin (DDAVP)	Physician Only	All Units		
Dexamethasone	All Units	All Units	All Units	Mini bag preferred.
Dexmedetomidine			ICU BGH OR/PACU	Cardiac monitoring, continuous blood pressure monitoring
Dextrose 50%	All Units	All Units	All Units	Neonates: a maximum concentration of 25% may be used in resuscitation.

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Diazepam	All Units	Not established as stable for infusion.	Not established as stable for infusion.	Maximum 10 mg per dose. BDC preferred. Respiratory support required for BDC. SPO <sub>2</sub> monitoring
Digoxin	All Units – RN doses up to 0.25 mg	All Units		
Digoxin Immune FAB	Physician Only	ER, ICU, PACU		Cardiac Monitoring
Dihydroergotamine	All Units	All Units		MD must give 1 <sup>st</sup> BDC dose
Diltiazem	Physician Only		ICU, ER, PACU	Cardiac & BP Monitoring
Dimenhydrinate	All Units	All Units	All Units	
Diphenhydramine	All Units	All Units	All Units	
Dobutamine		Nuclear Medicine (Physician present with Nuclear Med Tech)	ICU, ER, SCN (Physician present with SCN)	Cardiac & continuous BP Monitoring
Dopamine			ICU, PACU, ER, SCN (Physician present with SCN)	Cardiac & continuous BP Monitoring
Enalaprilat	Physician Only	All Units		
Enoxaparin	Physician Present			Only as part of the STEMI protocol (Tenecteplase Order Set)
Ephedrine	ICU and ED - Physician, RN may administer 10 mg or less	Q6 - RN only may administer 5-10 mg IV q15 min Max dose 30 mg over 1 HR (Only for hypotensive patient with epidural)		Cardiac monitoring and continuous blood pressure monitoring for below drip chamber.  Above drip chamber on <b>Q6 HR, Resp., and BP Q5min. x3 then Q15min. x4</b>
Epinephrine	Physician Present		ICU, ER, PACU	Cardiac monitoring, continuous blood pressure monitoring

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Epoprostenol			ICU	Cardiac monitoring, continuous BP monitoring
Ergonivine	Physician Only			BP monitoring
Ertapenem NF		All Units		
Erythromycin		All Units	All Units	
Esmolol	ICU, ER, OR, PACU		ICU, ER, OR, PACU	Cardiac monitoring Continuous blood pressure monitoring
Estrogens, Conjugated	Physician Only	All Units		
Ethacrynic Acid	All Units	All Units		
Etomidate	Physician Only ER			Special Access Ventilator support
Fat Emulsions (see Lipids)				
Fentanyl	ICU, ER, OR, PACU SCN, PAEDS, OBS, ENDO Physician Available	All Units SCN & PAEDS (MD present for first dose in SCN)	ICU, ER, OR, PACU, SCN & PAEDS (MD present for first dose in SCN & PAEDS)	Monitor respiratory status. Ventilator support available. Naloxone readily available.
Filgrastim (G-CSF) Neupogen		All Units		
Fluconazole		All Units		
Flumazenil	ICU, ER, DI, PAEDS, ENDO (MD Only/RN with Physician Present (emergency situations only), SCN, PACU/RR & SDS (BG)			

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Folic Acid	All Units Physician /RN with Physician Present (emergency situations only)	All Units		
Fomepizole		ICU, ER, PAEDS		
Furosemide	Maximum dose is 100 mg.	All Units	All Units	
Ganciclovir!		All Units		
Gentamicin		All Units		
Glucagon	Physician /RN with Physician Present (emergency situations only)	All Units	ICU, ER, PACU, SCN & PAEDS (Physician present for first dose in SCN & PAEDS)	
Glycopyrrolate	Physician /RN with Physician Present (emergency situations only)	All Units		
Haloperidol	Up to 5 mg/min. ICU, ER, PACU, ENDO	All Units	ICU,ER,PACU	Blood pressure monitoring for BDC for doses greater than 5 mg
Heparin	All Units		All Units that can monitor aPTT on site	
Human Prothrombin Complex (Octaplex)		All Units		
Hydralazine	Physician /RN Physician Present for the first dose ICU, ER, PACU, OBS, ENDO	ICU, ER, PACU, OBS Physician present for the first dose	ICU, ER, PACU, OBS Physician present for the beginning of first dose	Blood pressure monitoring.
Hydrocortisone	All Units	All Units		Mini bag preferred.

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Hydromorphone	Adults: dilute in 10 mL NS or D5W SCN, PAEDS Physician Present	All Units SCN & PAEDS (MD present for first dose in SCN & PAEDS)	All Units SCN & PAEDS (Physician present for first dose in SCN & PAEDS)	Respiratory support for IV direct Monitor respiratory status. Ventilator support available. Naloxone readily available.
Hydroxocobalamin (Cyanokit)		ER, ICU		Special Access
Hydroxyethyl Starch 130/0.4 (Voluven)		All Units	All Units	
Hyoscine Butylbromide (Buscopan®)	Physician /RN with Physician Present (emergency situations only) ER, ICU, DI, PACU, ENDO	All Units		
Hyoscine Hydrobromide (Scopolamine)	Physician / RN	All Units		
Imipenem/Cilastatin NF		All Units		See admixture chart
Indomethacin	SCN	SCN		
Insulin (Regular)	Physician / RN ER, ICU, PACU, PAEDS, OBS Q5 ONLY if the Hyperkalemia Treatment orderset is in use for Patient		ER, ICU, PACU, PBCM OBS, PAEDS	Frequent glucose monitoring  Q5 - Glucose monitoring as per Hyperkalemia Treatment Orderset
Iron Sucrose	Physician /RN	All Units		
Isoproterenol	Physician /RN (emergency situations only) ICU,ER		ICU,ER Physician should be present to establish rate	Cardiac monitoring
Itraconazole NF		All Units		

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Ketamine	Physician /RN for doses 10 mg or less. 10 mg or more Anaesthesiologist only. RN may give subsequent doses for patients on ventilator support ICU, ER, PACU, ENDO		ICU, ER, PACU, BGH ENDO	Respiratory support available
Ketorolac	Physician /RN	All Units		
Labetalol	Physician /RN ER, ICU, OR, PACU, OBS, ENDO with Physician present	ICU, ER, PACU, OBS, OR, ENDO	ICU, ER, PACU	Cardiac monitoring & continuous blood pressure monitoring.
Leucovorin Calcium	Physician /RN	All Units		
Levofloxacin		All Units		
Levothyroxine	Physician /RN		ICU	BDC preferred. Prepared by pharmacy in syringes.
Lidocaine HCl	ER, ICU, PACU All Units Physician /RN with Physician Present (emergency situations only)		ER, ICU, PACU	Cardiac monitoring & continuous blood pressure monitoring.
Linezolid NF		All Units		
Lipid Emulsions			All Units	
Lorazepam	ICU, ER, PACU, PAEDS, ENDO, up to 2 mg/min Q5 ONLY for patient with known seizure disorder and/or who is on CIWA (alcohol withdrawal) treatment order set	All Units	All Units	Ventilator support available. SPO <sub>2</sub> monitoring

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DRUG (Generic Name)	BELOW DRIP CHAMBER	ABOVE DRIP CHAMBER/ SYRINGE PUMP	ABOVE DRIP CHAMBER	
Magnesium Sulphate	ICU and ED - Physician /RN with Physician Present (emergency situations only)	All Units Infusion rate per Ottawa manual for replacement of magnesium (hypomagnesemia)	All Units	Respiratory support and cardiac monitoring for <b>below drip chamber (emergency situation only)</b> Concentrated electrolyte – use pre made bags and follow Ottawa Drug Manual for <b>above drip chamber</b> infusions
Mannitol		All Units	All Units	Use with specific filter. For infusion rates see Ottawa Drug Manual.
Meperidine	All units	All Units		Monitor respiratory status. Ventilator support available. Naloxone readily available. Restricted formulary status. Refer to QHC Formulary on Intranet
Meropenem	All Units	All Units		
Mesna	Physician /RN with Physician Present (emergency situations only)	All Units	All Units	
Methotrimeprazine		ICU, ER		Blood pressure monitoring
Methylene Blue	Physician only	All Units	All Units	
Methylprednisolone	All Units	All Units		Mini bag preferred.
Metoclopramide	Physician /RN for doses of 20 mg or less	All Units		Mini bag preferred.

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Metoprolol	Physician for first dose, subsequent doses RN ER, ICU, PACU, ENDO	ER, ICU, PBCM, PACU, Q5, ENDO	ICU/ER/PACU	Cardiac monitoring, continuous blood pressure monitoring at the bedside. For intermittent above the drip chamber, patient must be on telemetry and blood pressure monitored
Metronidazole		All Units		
Micafungin		All Units		
Midazolam	Rapid IV direct : Physician only IV direct : Physician /RN ER, DI, ICU, PACU, PAEDS (retrograde), SCN, ENDO	ICU, ER, PACU	ICU, ER, PACU	For BDC and ADC: -Ventilatory support available and cardiac monitor or -Pulse Oximeter; supplement oxygen PRN
Milrinone		ICU, ER	ICU , ER	Cardiac Monitoring
Morphine	All Units Physician /RN only	All Units	All Units SCN, PAEDS (Physician present for first dose in SCN &PAEDS)	Monitor respiratory status. Ventilator support available. Naloxone readily available.
Multivitamins			All Units	
Naloxone	All Units Physician /RN SCN - Physician Present		ICU, ER, PACU	
Neostigmine	Physician Only	ICU	ICU	ADC in syringe only

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Nitroglycerin	Labour and Delivery Physician present		ER, ICU, PBCM, PACU	Cardiac monitoring & continuous blood pressure monitoring at a minimum of q5min. For Labour and Delivery BP and fetal monitoring
Norepinephrine			ICU, ER, PAEDS, PACU	Cardiac monitoring & continuous blood pressure monitoring at a minimum of q5min
Octreotide	Physician Only (emergency situations only)	All Units	All Units	
Ondansetron	Physician /RN for dose 4 mg or less, for patients 65 or less	All Units	All Units	
Pamidronate		All Units		
Pantoprazole	Physician /RN	All Units	All Units	
Penicillin G		All Units	All Units	
Phenobarbital	Physician /RN ER/ICU/PACU/SCN	All Units		Blood pressure monitoring and respiratory support when given BDC ADC – respiratory support SCN – Hear rate and pulse oximetry. Resp support available.
Phenylephrine	IV Direct Physician only/RN with Physician present		ER, ICU, PACU	Continuous cardiac and blood pressure monitoring.

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Phenytoin	Physician /RN	All Units		BDC – cardiac monitoring, blood pressure monitoring, respiratory support ADC – use a 0.22 micron in line filter; do not administer via PICC due to risk of precipitation.
Phosphate (potassium or sodium salt)	.	All Units		Pre made bags available.
Physostigmine NF	Physician only			
Phytonadione (Vitamin K)	Physician /RN	All Units		Oral route preferred
Piperacillin/ Tazobactam		All Units		
Potassium Chloride		All Units ( <b>see below for exceptions</b> ) Maximum concentration: Peripheral Line: 10 mmol per 100 mL Central Line: 40 mmol per 100 mL Maximum Rate: Peripheral Line: 10 mmol per hour Central Line: 20 mmol/hr without cardiac monitoring 40 mmol/hr WITH cardiac monitoring (ER/ICU)	All Units ( <b>see below for exceptions</b> ) Maximum concentration: Peripheral line: 60 mmol/L Central Line: 60 mmol/L Maximum Rate: Peripheral Line: 20 mmol/hr Central Line: 20 mmol/hr without cardiac monitoring 40 mmol/hr WITH cardiac monitoring (ER/ICU)	See policy 3.13.7, Potassium Chloride Administration, for further direction. Concentrated electrolyte. Use pre made bags, large volume IV solutions to administer
Potassium Phosphate (see Phosphate, potassium or sodium salt)		.		

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Procainamide	Physician /RN ER, ICU, PACU	ER , ICU, PACU	ER , ICU, PACU	Cardiac monitoring and blood pressure monitoring
Propofol	Physician /RN with Physician Present (emergency situations only)		ER, ICU, PACU	Ventilator support available for critically ill patients.
Protamine	All Units 5 mg/min to a max of 50 mg	All Units		
Ranitidine	MD/RN	All Units	All units	
Remifentanyl	Physician Only OR			Monitor respiratory status. Ventilator support available. Naloxone readily available.
Rocuronium	First dose must be given with Physician Present or be above the drip chamber. ER, ICU, PACU, SCN	ER, ICU, PACU	ER, ICU, PACU	Ventilator support Cardiac monitoring Adequate sedation required. Physician must give 1 <sup>st</sup> dose.
Salbutamol		Q5, ER, ICU, PACU, PAEDS	Q5, ER, ICU, PACU, PAEDS	Cardiac Monitoring
Sodium Bicarbonate	RN with Physician Present	All Units	All Units	Check serum sodium results
Sodium Chloride 3%			All Units	
Sodium Phosphate (see Phosphate, potassium or sodium salt)				
Streptomycin NF		All Units		IM preferred

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Succinylcholine	Physician /RN with Physician Present (emergency situations only) ICU, ER, PACU, SCN		ICU, ER, PACU	Ventilator support available Adequate sedation required
Sufentanil NF	Physician Only			Monitor respiratory status. Ventilator support available. Naloxone readily available.
Sulfamethoxazole/ Trimethoprim				See Co-trimoxazole
Tenecteplase	Physician Present			Physician available on site
Thiamine	All Units	All Units		
Tigecycline		All Units		
Tobramycin		All Units		
Tranexamic Acid	Physician Only/RN with physician present (emergency situations only)	All Units	All Units	
Valproic Acid		All Units		Special Access
Vancomycin		All Units	All Units	
Vasopressin	Physician /RN with (emergency situations only)First dose must be given with Physician Present or be ADC	ER, ICU, PACU, ENDO	ICU, ER, PACU	Blood pressure monitoring

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 DI=Diagnostic Imaging, BG  
 NF = Non Formulary  
 SDS = Same Day Surgery  
 Endo - Endoscopy (BGH and PECM)

Revised March 23, 2020/Sept 2020/  
 April 2021

SCHEDULE ROUTE	INTERMITTENT		CONTINUOUS	SPECIAL CONSIDERATIONS
DRUG (Generic Name)	BELOW DRIP CHAMBER	ABOVE DRIP CHAMBER/ SYRINGE PUMP	ABOVE DRIP CHAMBER	
Verapamil	Physician Only first dose/RN subsequent doses ER, ICU, PACU, ENDO	ER, ICU, PACU, ENDO		Cardiac monitoring Blood pressure monitoring
Voriconazole NF		All Units		
Zoledronic Acid		All Units		

**NOTE :** All intravenous Antineoplastic, humanized monoclonal antibodies, chelating agents and chimeric monoclonal antibiotics are to be administered by certified oncology nurses only. Other units may maintain infusions established by an oncology nurse. Proper disposal process to be followed.

### Definitions:

#### Blood Pressure Monitoring:

Blood pressure monitoring is defined as the use of a non-invasive blood pressure monitor with vital signs being monitored more frequently than every hour

#### Continuous Blood Pressure Monitoring:

Drugs requiring continuous blood pressure monitoring (at a minimum of q5min and where a physician is available in-house to attend immediately to STAT calls.)

#### Cardiac Monitor:

The patient must be connected to a cardiac monitor and the Nurse giving the drug must have acquired the competency of arrhythmia interpretation.

#### Respiratory Support:

There must be an oral airway, manual ventilatory support (resuscitation bag), airway suctioning and oxygen equipment within close proximity.

### LEGEND:

IPU = TM, PECM & NH  
 SCN = Special Care Nursery  
 PAEDS = Paediatrics (BG)  
 PACU/RR = TM, PECM & BG (incl. OBS)  
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