

# MAHC INTRAVENOUS drug administration scope

**\*\*See The Ottawa Hospital (TOH) Parenteral Drug Therapy Manual for specific details on how to administer each drug\*\***

The contents of this document supersedes statements in TOH Parenteral Manual on who is authorized to administer each medication; **otherwise, administration of IV medications should follow the recommendations in the TOH Parenteral Manual (eg. Cardiac Monitoring).**\*  
 The person administering the medication is expected to stay within a reasonable proximity of the patient until the full effect has been observed.  
 Infusions prepared by RPNs require an independent double check      Central catheter access (eg. PICC) is not within RPN Scope at MAHC

Generic Name	Trade Name®	IV Direct	Intermittent IV	Continuous IV
acetaZOLAMIDE	Diamox	Physician or RN		
acetylcysteine	Mucomyst		RN	RN
acyclovir	Zovirax		RN/RPN	
adenosine	Adenocard	Physician or ICU/ER/SS RN in presence of physician		
alprostadil	Prostin VR			ER/OBS RN
alteplase (thrombolytic)	Activase, tPA	Physician or ICU/ER RN	ICU/ER RN	Interventional radiologist
alteplase (catheter occlusion)	Cathflo	RN		
aminophylline	Theophylline	Physician or RN	RN	RN
amiodarone	Cordarone	Physician or ICU/ER/SS RN	ICU/ER/SS RN	ICU/ER/SS RN
ampicillin	Ampicin	Physician or RN	RN/RPN	
antivenom (rattlesnake)	antivipmyn		ER RN	
atropine		Physician or ICU/ER/SS RN		
azithromycin	Zithromax		RN/RPN	
benztropine	Cogentin	Physician only		
calcitonin salmon	Calcimar		RN	
calcium chloride		Physician or ICU/ER/SS RN	ICU/ER/SS RN	
calcium gluconate		Physician or ICU/ER/SS RN	RN	
caspofungin	Canciadas		RN/RPN	
ceFAZolin	Ancef	Physician/RN/RPN over 5 min	RN/RPN	
cefotaxime	Claforan	Physician or RN	RN/RPN	
cefOXitin	Mefoxin	Physician or RN	RN/RPN	
cefTAZidime	Fortaz	Physician or RN	RN/RPN	
cefTRIAxone	Rocephin	Physician/RN/RPN over 5 min	RN/RPN	
cefuroxime	Zinacef	Physician or RN	RN/RPN	
ciprofloxacin	Cipro		RN/RPN	
clindamycin	Dalacin C		RN/RPN	
cloxacillin		Physician or RN	RN/RPN	
co-trimoxazole	Septra		RN/RPN	
dantrolene	Dantrium	Physician or ICU/ER/SS RN		
darbepoetin (non-formulary)	Aranesp	Physician or Dialysis RN		
desmopressin	DDAVP	Physician only	RN	
dexamethasone	Decadron	Physician or RN	RN/RPN	
dextrose	Glucose	Physician or RN RPN may administer D50W doses 25 g or less;	RN/RPN	RN/RPN
diazepam	Valium	Physician or RN (preferred route)	RN	
digoxin	Lanoxin	Physician; ICU/ER/SS RN for doses up to 0.25 mg	ICU/ER/SS RN (loading dose); RN (maintenance dose only)	
digoxin immune fab	DigiFab	Physician Only (Reserved for cardiac arrest imminent)	ICU/ER/SS RN	
dihydroergotamine	DHE	Physician Only for first dose; RN can administer repeat doses		
diltiazem	Cardizem	Physician or ICU/ER/SS RN		ICU/ER/SS RN
dimenhydrinate	Gravol	Physician/RN/RPN over 2 min	RN/RPN	
diphenhydramine	Benadryl	Physician or RN	RN/RPN	
dipyridamole	Persantine		Physician or ICU/ER/SS RN	
DOBUtamine	Dobutrex			ICU/ER/SS RN
DOPamine	Intropin			ICU/ER/SS RN
enalaprilat	Vasotec	Physician Only	ICU/ER/SS RN	
enoxaprin	Lovenox	Physician or RN		
EPHEDrine		Physician or ICU/ER/SS RN; OBS RN may administer doses 10 mg or less in presence of physician;		
EPINEPHrine	Adrenaline	Physician or ICU/ER/SS RN; OBS RN in presence of physician		ICU/ER/SS RN
eptifibatide	Integrilin	Physician or ICU/ER/SS RN		ICU/ER/SS RN
ergonovine	Ergometrine	Physician Only		
erythromycin	Erythrocin		RN/RPN	
erythropoietin (non-formulary)	Eprex	Physician or Dialysis RN		
esmolol	Brevibloc	Physician or ICU/ER RN		(not available at MAHC)
estrogens, Conjugated	Premarin	Physician Only	RN/RPN	

\*Unit-based protocols (once approved by the Pharmacy & Therapeutics Committee) will supersede the prerequisites found in the TOH Parenteral Drug Manual  
 Disclaimer: Printed copies of this document may not match the most recent online version available on SharePoint

# MAHC INTRAVENOUS drug administration scope

**\*\*See The Ottawa Hospital (TOH) Parenteral Drug Therapy Manual for specific details on how to administer each drug\*\***

The contents of this document supersedes statements in TOH Parenteral Manual on who is authorized to administer each medication; **otherwise, administration of IV medications should follow the recommendations in the TOH Parenteral Manual (eg. Cardiac Monitoring).**\*  
 The person administering the medication is expected to stay within a reasonable proximity of the patient until the full effect has been observed.  
 Infusions prepared by RPNs require an independent double check      Central catheter access (eg. PICC) is not within RPN Scope at MAHC

Generic Name	Trade Name®	IV Direct	Intermittent IV	Continuous IV
etomidate	Amidate	Physician Only		
famotidine	Pepcid	Physician or RN	RN/RPN	
fat emulsion (20%)	Intralipid 20%	Physician Only	RN	RN
fat emulsion (3-in 1 mix TPN)	SMOFlipid		RN	RN
fentaNYL		Physical or RN; RPN via syringe with pump		RN/RPN (via pump)
fentaNYL/bupivacaine (epidural)		<u>Epidural Bolus doses:</u> Physician or; ICU/ER/SS/OBS RN using an infusion pump		<u>Epidural Infusion:</u> ICU/ER/SS/OBS RN
ferric gluconate complex	Ferrlecit	Physician or Dialysis RN	Dialysis RN	
filgrastim	Neupogen, Grastofil		Chemo/Dialysis RN	Chemo/Dialysis RN
fluconazole	Diflucan		RN/RPN	
flumazenil	Anexate	Physician or RN		ICU/ER/SS RN
folic acid	Folate	Physician or RN	RN/RPN	RN/RPN
fomepizole			ICU/ER/SS RN	
fondaparinux	Arixtra	Physician or RN	RN	
fosphenytoin	Cerebyx		ICU/ER RN	
furosemide	Lasix	Physician/RN/RPN Up to a max of 100 mg	RN/RPN	ICU/ER/SS RN
gentamicin	Garamycin		RN/RPN	
glucagon	GlucaGen	Physician or ICU/ER/SS RN; RN doses up to 1 mg in presence of physician		ICU/ER/SS RN
glycopyrrolate	Robinul	Physician or ICU/ER/SS RN		
haloperidol	Haldol	Physician or RN	RN; RPN (doses up to 2 mg)	
heparin	Hepalean	Physician or RN		RN
Human Prothrombin Complex	Octaplex		RN	
hydrALAZINE	Apresoline	Physician or; RN 1 <sup>st</sup> dose in presence of physician	ICU/ER/SS RN, RN 1 <sup>st</sup> dose in presence of physician	ICU/ER/SS RN
hydrocortisone	Solu-Cortef	Physician or RN	RN/RPN	RN/RPN
HYDROmorphone	Dilaudid	Physician or RN; RPN via syringe with pump	RN/RPN	RN/RPN
hydroxocobalamin	Cyanokit		RN	
hydroxyethyl starch	Voluven			ICU/ER/SS RN
hyoscine BUTYLBromide	Buscopan / Scopolamine BUTYLBromide	Physician or RN		
idaruCIZUmab	Praxbind	Physician or ICU/ER/SS RN	ICU/ER/SS RN	
inFLIXimab (non-formulary)	Remicade		Chemo/Infusion Clinic	
insulin (Regular/Toronto)	Humulin-R / Novolin GE Toronto	Physician or ICU/ER/SS RN		ICU/ER/SS RN
iron sucrose	Venofer	Physician or RN	RN/RPN	
isoproterenol	Isuprel	Physician or ICU/ER/SS RN (emergency situations only)		ICU/ER/SS RN, physician should be present to establish rate
ketamine	Ketalar	<u>Doses 10 mg or less:</u> Physician or ICU/ER/SS RN		ICU/ER/SS RN
		<u>Doses above 10 mg:</u> Physician; ICU/ER/SS RN may administer subsequent doses for pts on ventilator support		
ketorolac	Toradol	Physician or RN	RN/RPN	
labetalol	Trandate	Physician or ICU/ER/SS RN; OBS RN in presence of physician		ICU/ER/SS RN; OBS RN in presence of physician for start of the infusion
leucovorin calcium	Folinic Acid	Physician or RN	RN	
levothyroxine	Synthroid	Physician or RN		RN
lidocaine	Xylocaine/ Xylocard	Physician or ICU/ER/SS RN	ICU/ER/SS RN	ICU/ER/SS RN
linezolid	Zyvoxam		RN/RPN	
LORazepam	Ativan	Physician or RN; RPN via syringe with pump		ICU/ER/SS RN
loxapine	Loxapac			
magnesium sulphate	MgSO <sub>4</sub>	<u>Cardiac arrest only:</u> Physician or RN in presence of physician	ICU/ER/SS/OBS RN; RN rate 1 g/h or slower	RN
mannitol	Osmitrol		RN	RN
meperidine	Demerol	Physician or RN	RN	(not available at MAHC)
meropenem	Merrem	Physician or RN	RN/RPN	

# MAHC INTRAVENOUS drug administration scope

**\*\*See The Ottawa Hospital (TOH) Parenteral Drug Therapy Manual for specific details on how to administer each drug\*\***

The contents of this document supersedes statements in TOH Parenteral Manual on who is authorized to administer each medication; **otherwise, administration of IV medications should follow the recommendations in the TOH Parenteral Manual (eg. Cardiac Monitoring).**\*  
 The person administering the medication is expected to stay within a reasonable proximity of the patient until the full effect has been observed.  
 Infusions prepared by RPNs require an independent double check      Central catheter access (eg. PICC) is not within RPN Scope at MAHC

Generic Name	Trade Name®	IV Direct	Intermittent IV	Continuous IV
methotrimprazine	Nozinan		RN/RPN	
methylene blue	Tetramethylthionine chloride trihydrate	Physician Only	ICU/ER/SS RN	ICU/ER/SS RN
methylPREDISolone (sodium succinate)	SOLU-Medrol	Physician or RN	RN/RPN	RN
metoclopramide	Maxeran	Physician or RN Doses up to 10 mg	RN/RPN (preferred route)	
metoprolol	Betaloc / Lopresor	Physician or ICU/ER/SS RN	ICU/ER/SS RN	ICU/ER/SS RN
metroNIDAZOLE	Flagyl		RN/RPN	
midazolam	Versed	Physician or ICU/ER/SS RN		ICU/ER/SS RN
morphine		Physician or RN RPN via syringe with pump	RN/RPN	RN/RPN
moxifloxacin	Avelox		RN/RPN	
multivitamins	MVI		RN/RPN	RN/RPN
naloxone	Narcan	Physician or RN		RN
neostigmine	Prostigmin	Physician only		
nitroglycerin		<u>Uterine tachysystole:</u> Physician or RN in presence of physician		ICU/ER/SS RN
nitroprusside	Nipride			ICU/ER/SS RN
norepinephrine	Levophed			ICU/ER/SS RN
octreotide	Sandostatin	Physician only (emergency situations only)	RN/RPN	RN/RPN
OLANzapine	Zyprexa	Physician or ER/ICU RN		
ondansetron	Zofran	Physician or RN; only for 4 mg dose or less (restricted to patients younger than 65 years of age)	RN/RPN	
oxytocin	Pitocin / Syntocinon	<sup>3<sup>rd</sup></sup> stage of labour/postpartum ONLY: Physician; or OR/OBS RN In presence of physician		OR/OBS RN
pamidronate	Aredia		RN	
pantoprazole	Panto IV	Physician or RN	RN/RPN	RN/RPN
penicillin G	Benzyl penicillin / Crystapen		RN/RPN	
PHENobarbital	Phenobarb	Physician or ICU/ER/SS RN	RN	ICU/ER/SS RN
phentolamine	Rogitine	Physician only		ICU/ER/SS RN
phenylephrine	Neo-Synephrine	Physician only; ICU/ER/SS/OBS RN in presence of physician		ICU/ER/SS RN
phenytoin	Dilantin	Physician or ICU/ER/SS RN	RN; RPN (maintenance dose only)	
phosphate (sodium OR potassium)			RN	
piperacillin/tazobactam	Tazocin		RN/RPN	
potassium chloride (10 mmol/100 mL) (20 mmol/100 mL)			RN	
potassium chloride 1 Liter premixed bags (in IV Fluid)			RN/RPN	RN/RPN
procaïnamide	Pronestyl	Physician or ICU/ER/SS RN	ICU/ER/SS RN	ICU/ER/SS RN
propofol	Diprivan	Physician only; ICU/ER/SS RN for patients on ventilator support		ICU/ER/SS RN
protamine		Physician or RN (MAX 50 mg)	RN	RN
pyridoxine	Vitamin B6	Physician only	RN	
raNITidine	Zantac	Physician or RN	RN/RPN	RN/RPN
remdesivir	Veklury		RN/RPN	
remifentanil	Ultiva	Physician only		ICU/ER/SS RN
rocuronium	Zemuron	Physician; ICU/ER/SS RN for subsequent doses		ICU/ER/SS RN
salbutamol	Ventolin		ICU/ER/SS RN	ICU/ER/SS RN
scopolamine hydrobromide	Hyoscine hydrobromide	Physician or RN		
sodium bicarbonate	NaHCO <sub>3</sub>	Physician or RN (emergency situations only)	RN	RN
sodium chloride 3%	Hypertonic saline		RN	RN
sodium citrate 4% (non-formulary)	Citrosodine	Dialysis RN		
sodium thiosulfate (non-formulary)			Dialysis RN	

\*Unit-based protocols (once approved by the Pharmacy & Therapeutics Committee) will supersede the prerequisites found in the TOH Parenteral Drug Manual  
 Disclaimer: Printed copies of this document may not match the most recent online version available on SharePoint

# MAHC INTRAVENOUS drug administration scope

**\*\*See The Ottawa Hospital (TOH) Parenteral Drug Therapy Manual for specific details on how to administer each drug\*\***

The contents of this document supersedes statements in TOH Parenteral Manual on who is authorized to administer each medication; <b>otherwise, administration of IV medications should follow the recommendations in the TOH Parenteral Manual (eg. Cardiac Monitoring).</b> *	
The person administering the medication is expected to stay within a reasonable proximity of the patient until the full effect has been observed.	
Infusions prepared by RPNs require an independent double check	Central catheter access (eg. PICC) is not within RPN Scope at MAHC

Generic Name	Trade Name®	IV Direct	Intermittent IV	Continuous IV
succinylcholine	Anectine	Physician; ICU/ER/SS RN may give subsequent doses		
sugammadex	Bridion	Physician trained in anesthesiology		
tenecteplase	TNKase	Physician or ICU/ER/SS RN		
thiamine	Vitamin B1	Physician or RN	RN/RPN	
tobramycin	Nebcin		RN/RPN	
trace metals	Micro+6		RN (in TPN)	RN (in TPN)
tranexamic acid	Cyklokapron	Physician only	ICU/ER/SS RN	ICU/ER/SS RN
vancomycin	Vancocin		RN/RPN	
vasopressin	Pressyn	Physician only (in setting of cardiac arrest)		ICU/ER/SS RN
verapamil	Isoptin	Physician or ICU/ER/SS RN		
vitamin K1	Phytonadione	Physician or RN (route NOT preferred):	RN/RPN	RN/RPN
zoledronic acid	Zometa		RN	

## Notes:

- Refer to TOH Parenteral Drug therapy manual for definition of terms, policies and priorities.
- The College of Nurses of Ontario (CNO) Standards of Practice 2017 guide the safe administration of drugs by Registered Nurses and Registered Practical Nurses, which state that knowledge, skill, judgement, and appropriate resources are necessary for the nurse to manage the patient safely. Administration of drugs in methods not outlined in the list should be conducted with input from any combination of: nursing clinical leads, nursing manager, pharmacy and/or physician to ensure medications are safely administered to the patient.
- Scope for alternative routes is not defined separately at MAHC. Safe administration & monitoring of medications in alternative routes can be found in various resources available to staff (TOH Parenteral Drug manual, drug monographs and Lexicomp). It is appropriate that most medications given by alternative routes (Eg. enoxaparin SubCut & methotrexate IM) be given by RN/RPNs able to monitor. Otherwise follow the direction of the CNO.
- Grouping of exceptions is separated by a semicolon “;”
  - e.g. “RN; RPN (maintenance dose only)”
    - An RN may always administer via this method; but an RPN may only administer with this method for maintenance doses only
- Dialysis and Oncology Nurses follow the scope of the patient’s satellite center and as per their training.
- CADD/PCA pumps must be specifically ordered to ensure availability to patients needing patient administered boluses
- Post-OP PCA pumps are limited to only be used by an RN

Short form	Definition
RPN	Registered Practical Nurse
RN	Registered Nurse
OBS	Obstetrical Services
SS	Surgical Services
ER	Emerge
ICU	Intensive Care Unit