Intensive Care Units (Critical Care) - The definition of an intensive care unit at Our Lady of the Lake (OLOL) is one that has been designated as having the capability to care for patients that require the highest level of care and who may require mechanical ventilation. The difference between a progressive care unit and intensive care unit is the capability of administering titratable vasoactive medications along with continuous analgesia and sedation. These units have the capability of telemetry monitoring of all patients and maintain a sufficient nurse to patient ratio that allows for proper monitoring of these medications during and post-administration.

HVCU	Emergency Department (OLOL and Ascension)
MICU	HVPU/PACU
SICA & TNCC	MSCC
NCCU	SE ICU

<u>Cardiac Telemetry Units (Monitored)</u> – The definition of a monitored unit at OLOL is one that has been designated as having the capability of telemetry monitoring of all patients, maintains a nursing staff competent to administer medications designated in this document, and has a sufficient nurse to patient ratio that allows for the proper monitoring of these medications post administration.

SE TELE	HV7
SE MED 1	HV8
SE MED 2	HVAU
SE SURGERY	CCDU / CCDU2

<u>Medical Telemetry Units</u> - The definition of a medical telemetry unit at OLOL is one that has telemetry monitoring capability (not necessarily all beds), maintains a nursing staff competent to administer some blood pressure medications as designated in the document below, and has a sufficient nurse to patient ratio that allows for the proper monitoring of these medications post administration.

NEPHROLOGY (3E)

1(2111102001 (02)	
STU (6S)	SUR1 & SUR2
MED 1 (4E)	NEUROLOGY (5S)
MED 5 (4W)	ORTHO
MED 6	ONCOLOGY (5W)

<u>Progressive Care Unit</u> – The definition of a Progressive Care Unit at OLOL is one that has been designated as having the capability of telemetry monitoring of all patients, maintains a nursing staff competent to administer medications designated in this document, and has a sufficient nurse to patient ratio that allows for the proper monitoring of these medications post administration. The main difference between a monitored unit and progressive care unit is the capability of mechanical ventilation.

PCU

 $\underline{https://fparchives.com/ololrmc/documents/Children's \%20 Hospital \%20 Medications \%20 Requiring \%20 Special \%20 Monitoring \%2002092017.pdf}$

^{*}Medications indicated in the ACLS algorithm may be given on any unit during a Code Blue.

^{**} Pediatric Meds Requiring Special Monitoring can be found at:

Medications Requiring Special Monitoring (May 2024)
ROUTE OF | MAJOR INDICATION | REASON FOR RESTRICTIONS | AREAS W

AREAS WHERE ADMINISTRATION IS

GENERIC DRUG

Atropine

Maintenance IV infusion = 1 mg/min IV x 6 hours followed by 0.5 mg/min IV x 18 hours, or dose specified by prescriber with <u>no</u> titrations

(IM and SC routes do not

IV Push

require special

monitoring)

NAME (TRADE NAME)	ADMINISTRATION			PERMITTED
Adenosine Adenocard®	Rapid IV Push	Paroxysmal supraventricular tachycardia (PSVT)	Slows conduction time through AV node. May produce first, second, third degree heart block.	Critical Care Units Progressive Care Units Cardiac Telemetry Units (Monitored) – MD must be present for administration
Albuterol Ventolin®	Continuous nebulization	Status asthmaticus	Increased patient monitoring	Critical Care Units Progressive Care Units
Alteplase (tPA) Activase®	IV infusion	Management of AMI, CVA, and PE in adults for the lysis of thrombi.	Needs to be given where diagnostic & monitoring equip are avail due to risk of serious hemorrhage, incl. potentially fatal intracranial bleeding & internal bleeding	Critical Care Units - Except doses used for catheter clearance may be given on any unit
Amiodarone Cordarone®	IV Bolus, followed by IV Infusion IVPB (PO maintenance dose may be converted to IV if patient NPO and has been receiving for > 1 month. Dose must be reduced by 50%) NOTE: Loading infusion/IV bolus = 150mg IVPB over 10 minutes	Treatment of VF and VT (<u>NOT</u> to be used in Torsades de pointes)	Constant monitoring of cardiac & blood pressure important because of side effects including hypotension & cardiac arrhythmias.	Loading dose and maintenance infusion in Critical Care Units and <i>PCU</i> , <i>HVAU</i> , <i>CCDU</i> , <i>MED2</i> , <i>HV7</i> , & <i>HV8</i>) Maintenance Infusions may be continued in Cardiac Telemetry Units (Monitored) ONLY if the patient has been loaded in above units or has been on PO amiodarone for more than a month.

Cardiovascular adverse reactions such as

frequency and severity of anginal attacks

in patients with coronary artery disease.

changes in heart rate may increase the

Critical Care Units

5W-Oncology

Progressive Care Units

Oncology Infusion Centers

Cardiac Telemetry Units (Monitored)

Treatment of cardiac arrhythmias

GENERIC DRUG	ROUTE OF	MAJOR INDICATION	REASON FOR RESTRICTIONS	AREAS WHERE ADMINISTRATION IS
NAME	ADMINISTRATION			PERMITTED
(TRADE NAME)				

Bumetanide	IV Push	Treatment of volume overload	Close monitoring of urinary output is	Infusion: Critical Care units
D 0	IV infusion		necessary to determine the effectiveness of the continuous infusion. Continuous	Cardiac Telemetry Units (Monitored)
Bumex®			infusions of bumetanide may	Progressive Care Units
			significantly augment diuresis which can	Trogressive care onits
			lead to overdiuresis, hypokalemia, and hypomagnesemia. Close monitoring of volume status and electrolytes is	IV Push may be given on <u>all</u> units
Calcium Chloride	W. D. I	1.0.1.	necessary. Dosage may need to be adjusted during	
Calcium Chloride	IV Push	Cardiac resuscitation Hypocalcemia disorders	cardiac resuscitation by constant ECG	Critical Care Units
	IVPB - Central Line Preferred	Hyperkalemic ECG disturbances	monitoring. Drug may precipitate arrhythmias in the digitalized patient. May cause a decrease in blood pressure. Injection is irritating to the vein and must not be injected into tissues due to necrosis and extravasation.	During ACLS/Code Blue, may be given on all units
Calcium Gluconate	IV Push	1. Hypocalcemia disorders	Drug may precipitate arrhythmias.	IVPB may be given on all units.
	IVPB	2. Hyperkalemic ECG		
		disturbances		IV Push may be given on all units for hyperkalemia ONLY. For any other indication, IV Push is restricted to units below:
				Critical Care Units
				Cardiac Telemetry Units (Monitored)
				Progressive Care Units
Cisatracurium	IV Push	Adjunct to general anesthesia to	A neuromuscular blocker which can	Critical Care Units
Nimbex®		facilitate endotracheal intubation	severely compromise respiratory function	Circai Care Offics
Nimbex	IV Infusion	and to relax skeletal muscle	and cause respiratory paralysis. Reactions	
		during surgery or mechanical	may need to be managed by manual or mechanical ventilation. Dosage must be	
		ventilation.	individualized by response. Monitoring is	
			necessary.	
Clevidipine	IV Infusion	Short-term treatment of	Caution & monitoring because of	Critical Care Units
Cleviprex®	(Large peripheral vein)	hypertension	hypotension, tachycardia, and changes in	
Cicripien	<u> </u>		afterload	

PERMITTED

GENERIC DRUG

NAME

ADMINISTRATION

(TRADE NAME)				
Dexmedetomidine Precedex®	IV infusion	Sedation of initially intubated patients during treatment in intensive care units.	Hypotension and bradycardia have been associated with patients with high vagal tone or rapid infusions of dexmedetomidine	Critical Care Units Procedural Units including SMA, SMAT & HVAU: Anesthesia MUST administer & remain with patient until able to breathe spontaneously without support and patient responds to verbal stimuli
Digoxin Lanoxin®	IV Push	Control of rapid ventricular response in adults with atrial fibrillation	Monitoring of heart rate and rhythm important because of side effects including cardiac arrhythmias and heart block	Critical Care Units Cardiac Telemetry Units (Monitored) Progressive Care Units
Diltiazem Cardizem®	IV Bolus IV Infusion	Atrial fibrillation, atrial flutter Paroxysmal supraventricular tachycardia Reduce blood pressure, increase coronary artery blood flow	Constant monitoring of cardiac & blood pressure important because of side effects including hypotension & cardiac arrhythmias	Critical Care Units Fixed rate only: Cardiac Telemetry Units (Monitored), Progressive Care Unit Neurology Unit
Dobutamine Dobutrex®	IV infusion (Central Line recommended) May be given through peripheral if using large bore IV at AC site (Ex: CCDU stress test)	Increase cardiac contractility for treatment of cardiac decompensation	Continuous monitoring in ECG and blood pressure important. Monitor pulmonary wedge pressure and cardiac output. A marked increase in heart rate or blood pressure & precipitation of ventricular ectopic activity may occur.	Critical Care Units Fixed rate only: Progressive Care Units Cardiac Telemetry Units (Monitored)
Dofetilide Tikosyn®	PO	Maintenance of normal sinus rhythm(NSR) in patients with atrial fibrillation; conversion of atrial fibrillation to NSR	T.I.P.S. REMS program QTc, SCr, and electrolyte monitoring required	New Initiations: Critical Care Units Progressive Care Units Cardiac Telemetry Units (Monitored) **Continuation of home medication may occur on any unit.
Dopamine Intropin®	IV infusion (Central Line) May be given through large bore peripheral line up to max of 10 mcg/kg/min	Increase cardiac contractility Increase organ perfusion Increase urine output in the treatment of shock syndrome & chronic cardiac decompensation	Must monitor urine flow, cardiac output & blood pressure during infusion to its alpha, beta and dopaminergic effects. Infuse into large vein to prevent extravasation	Critical Care Units Fixed rate only (should not exceed 10 mcg/kg/min), no titrations: Progressive Care Cardiac Telemetry Units (Monitored)

GENERIC DRUG

ADMINISTRATION

NAME (TRADE NAME)	ADMINISTRATION			PERMITTED
Droperidol Inapsine®	IM IV Push	To produce tranquilization and to reduce the incidence of nausea and vomiting in surgical and diagnostic procedures; For premedication, induction, and as an adjunct in the maintenance of general and regional anesthesia; In neuroleptanalgesia in which droperidol is given concurrently with an opioid analgesic, to aid in producing tranquility and decreasing anxiety and pain; Antiemetic.	QT prolongation and/or torsades de pointes reported at doses at or below recommended doses, even in patients with no known risk factors for QT prolongation. Potentially fatal. Baseline 12-lead ECG prior to administration of droperidol to determine if a prolonged QT interval (i.e., QTc greater than 440 msec for males or 450 msec for females) is present. If there is a prolonged QT interval, droperidol should NOT be administered. ECG monitoring should be performed prior to treatment and continued for 2-3 hours after completing treatment to monitor for arrhythmias.	Critical Care Units Progressive Care Units Cardiac Telemetry Units (Monitored) Patients receiving cumulative doses greater than 2.5 mg must remain on the above units during administration and for 3 hours post administration.
Epinephrine Adrenaline®	IV infusion (Central Line) IV Push Intra cardiac into the left ventricular chamber (IM & SC do not require monitoring)	Treatment of ventricular stand still Treatment of cardiac arrest and AV block Hypotension/Shock	Monitoring important because of cardiovascular effects including increase in high blood pressure, aortic rupture, serious cardiac arrhythmias, cerebrovascular hemorrhage, & pulmonary edema necessitate extreme caution.	Critical Care Units During ACLS/Code Blue may be given on all units
Eptifibatide Integrilin®	IV push, followed by infusion	Acute coronary syndrome, including the medically managed and the patient scheduled for PTCA	Constant monitoring of cardiac & blood pressure important because of side effects including excessive bleeding, hypotension and bradycardia.	Critical Care Units Cardiac Telemetry Units (Monitored) Progressive Care Units
Epoprostenol Flolan®, Veletri®	Continuous Nebulization IV infusion (Central Line)	Pulmonary hypertension Acute respiratory distress syndrome	Constant hemodynamic monitoring due to risk of side effects including hypotension as well as risk of reflex hypertension if infusion abruptly interrupted which can result in sudden cardiac death	Critical Care Units
Esmolol Brevibloc®	IV Infusion (Central Line Preferred)	For rapid control of supraventricular tachycardia	Monitoring heart rate necessary during titration	Critical Care Units

GENERIC DRUG	ROUTE OF	MAJOR INDICATION	REASON FOR RESTRICTIONS	AREAS WHERE ADMINISTRATION IS
NAME	ADMINISTRATION			PERMITTED
(TRADE NAME)				

Etomidate Amidate®	IV Push	Induction and maintenance of general anesthesia	Monitoring of cardiac function and blood pressure necessary	Critical Care Units Exception: During ACLS/Code Blue for RSI
Fentanyl Sublimaze®	IM Slow IV Push Intranasal IV Infusion (Epidurals can be used on non-Cardiac Telemetry Units [Monitored])	For analgesic action of short duration during anesthesia as needed; for use as a narcotic analgesic supplement in general or regional anesthesia; for administration as a neuroleptic as an induction of anesthesia; for use as an anesthetic agent with oxygen in selected high-risk patients.	Vital signs must be routinely monitored.	Critical Care Units Comfort Care Patients (any location; no monitoring required) Procedural Units (including SMA, SMAT & HVAU): Anesthesia must be present if nursing administers for moderate sedation, May be given on Progressive Care and Cardiac Telemetry Units (Monitored) by a physician only for conscious sedation.
Fosphenytoin Cerebyx®	IV Push IV Infusion	For control of generalized convulsive status epilepticus and prevention and treatment of seizures occurring during neurosurgery; indicated for short term parenteral administration when other means of phenytoin administration are unavailable	Vital signs must be routinely monitored. Do not exceed 150 mg PE/minute.	No restrictions.
Furosemide Lasix®	IV Push IV Infusion	Treatment of volume overload	Close monitoring of urinary output is necessary to determine the effectiveness of the continuous infusion. Continuous infusions of furosemide may significantly augment diuresis which can lead to overdiuresis, hypokalemia, and hypomagnesemia. Close monitoring of volume status and electrolytes is necessary.	Infusion: Critical Care Units Cardiac Telemetry Units (Monitored) Progressive Care Units *IV Push may be given on all units

GENERIC DRUG	ROUTE OF	MAJOR INDICATION	REASON FOR RESTRICTIONS	AREAS WHERE ADMINISTRATION IS
NAME	ADMINISTRATION			PERMITTED
(TRADE NAME)				

Haloperidol Haldol®	IV Push IM	Emergency sedation of severely- agitated or delirious patients (unlabeled use)	Higher doses and intravenous administration of haloperidol appear to be associated with a higher risk of QT prolongation and TdP EKG monitoring is required when given IV and it is not acceptable to be administered for the indication of nausea.	IV Push: Critical Care Units Progressive Care Units Cardiac Telemetry Units (Monitored) Comfort Care Patients (any location; no monitoring required) IM may be given on all units
Hydralazine Apresoline®	IV Push	Hypertensive emergency/urgency and management of moderate to severe hypertension	Blood pressure response may be unpredictable in some patients. Blood pressure monitoring required after administration	No restrictions
Ibutilide Corvert®	IV infusion over 10 minutes	Convert atrial fibrillation / flutter of recent onset.	Can cause either sustained or unsustained polymorphic VT (i.e. Torsades de pointes).	Critical Care Units
Insulin Drip	IV Infusion	Treatment of Hyperglycemia	Requires hourly monitoring of blood glucose	Critical Care Units Progressive Care Units
Isoproterenol Isuprel [®]	IV Infusion IM SC Intra cardiac in an emergency	Management of shock & cardiac arrest Increase cardiac contractility & rate to increase cardiac output.	Produces cardiac effects (tachycardia, seizures, pulmonary edema) which may aggravate existing cardiac problems. ECG monitoring is necessary.	Critical Care Units
Ketamine Ketalar [®]	IV Push IV Infusion IM PO	Sole anesthetic for short surgical procedures; Bronchodilation. Dissociative anesthetic; induction and maintenance of anesthesia, especially in hypovolemic or high-risk patients.	Cardiovascular hypertension, tachycardia, arrhythmias, bradycardia. Pulmonary: depression, apnea, laryngospasm.	All orders require the provider to have sedation privileges and if ordered outside of the Critical Care Unit or on Nonintubated Patients, must be administered by a provider with sedation privileges ONLY

GENERIC DRUG

NAME (TRADE NAME)	ADMINISTRATION			PERMITTED
			CNS: tonic, clonic movement, emergence delirium.	IV Push, IV infusion, IM, PO Allowed on Critical Care Units
			GI: nausea, vomiting, hypersalivation.	RN may administer ONLY in intubated patients
			Eye: Diplopia, nystagmus, slight elevation in intraocular tension	Oral Use (PO):
				Anesthesia MUST administer & remain with patient until able to breathe spontaneously without support and patient responds to verbal stimuli
Labetolol Trandate®	Slow continuous infusion	For control of blood pressure in severe hypertension.	Slow continuous infusion necessitates a controlled administration device &	IV Push: Critical Care Units
	IV Push		·	Cardiac Telemetry Units (Monitored)
				Progressive Care Units
			momenting.	Medical Telemetry (Monitored)
				IV infusion on Critical Care Units only.
Lidocaine	Slow continuous	Treatment cardiac arrhythmias	Slow continuous infusion with	Critical Care Units
Xylocaine®	infusion	(Exception: Monitor not required for 100mg in 250ml	emergence delirium. GI: nausea, vomiting, hypersalivation. Eye: Diplopia, nystagmus, slight elevation in intraocular tension Slow continuous infusion necessitates a controlled administration device & continuous hemodynamic monitoring. IV push requires frequent hemodynamic monitoring.	Progressive Care Units
	IV Push	used to decrease the pain of infusion of KCl & other drugs – will be mixed only in the pharmacy)		May be given on CCDU, CCDU2, HV7, & HV8
Lorazepam Ativan [®]	IV Infusion IV Push IM	Continuous sedation to intubated, mechanically ventilated adult patients to provide continuous sedation and control of stress responses or for acute agitation/anxiety	status, blood pressure, and heart rate. Patient must also be mechanically	IV Infusion on Critical Care Units only IM & IV push on all units Space benzodiazepine administration at least 30 minutes from administration of opiates to avoid respiratory depression

Medications Requiring Special Monitoring (May 2024)
TE OF MAJOR INDICATION REASON FOR RESTRICTIONS AREAS W **ROUTE OF**

AREAS WHERE ADMINISTRATION IS

GENERIC DRUG

Metoprolol Lopressor® IV Push Lopressor® IV Infusion Lopressor® Lopressor® IV Infusion Lopressor® Lopressor® IV Infusion Lopressor® IV Infusion Lopressor® Lopressor® IV Infusion Lopressor® Lopressor® IV Infusion Lopressor® Lopressor® IV Infusion Lopressor® Lop	NAME (TRADE NAME)	ADMINISTRATION	WAJOR INDICATION	REASON FOR RESTRICTIONS	PERMITTED
Osmitrol® Intracranial pressure and cerebral cedema Intracranial pressure and cerebral cedema Intracranial pressure and cerebral cedema Intracranial pressure Intracranial pressure, serum Intracranial pressure Intracranial pressure, serum Intracranial pressure Intracranial pressure Intracranial pressure, serum Intracranial pressure Intracranial pressure, serum Intracranial pressure support* Intracranial pressure, serum Intracranial pressure support* Intracranial pressure, serum Intracranial pressure support* Intracranial pressure suppo					
Metoprolol Lopressor® IV Push IV Push IV Push Progressive Care Units Progressive C	Mannitol	IV Piggyback			Critical Care Units
Metoprolol Lopressor®	Osmitrol®		-		*May be given during hemodialysis procedure on dialysis units for blood pressure support*
Lopressor® 2. Myocardial infarction monitoring. Progressive Care Units Cardiac Telemetry Units Medical Telemetry (Beta Blocker naïve patients may be initiated on telemetry monito All Units without a Monitor (Metoprolol IV may administered on patients who have been receiving PO beta blockers and is currently Midazolam Versed® IV Push Intranasal Pro conscious sedation prior to general anesthesia, before administration of other anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous infusion for sedation in mechanically ventilated patients Midazolam IV has been associated with respiratory arrest especially when used for conscious sedation. Requires continuous monitoring of respiratory and cardiac function. W infusion: Critical Care Units only IV Push: Critical Care Units Progressive Care Units Progressive Care Units only IV Push: Critical Care Units Progressive Care Units only IV Push: Omnoritoring required) Preop Units (IV Push): May administer 1 mg doses up to a maximur of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.					
Dipressor	_	IV Push	1. Atrial tachyarrhythmias		Critical Care Units
Midazolam Versed® IV Push Intranasal IV Push Intranasal IV Push Intranasal IV Push Intranasal Medical Telemetry (Beta Blocker naïve patients may be initiated on telemetry monito All Units without a Monitor (Metoprolol IV may administered on patients who have been receiving PO beta blockers and is currently NPO) Note: Patients should not be transferre for the sole purpose of receiving IV metoprol IV metoprol IV infusion Midazolam IV Push IV Infusion IM Intranasal IV Push Intranasal Midazolam IV has been associated with respiratory arrest especially when used for conscious sedation. Requires continuous infusion for sedation in mechanically ventilated patients All Units without a Monitor (Metoprolol IV may administered on patients who have been receiving PO beta blockers and is currently NPO) Note: Patients should not be transferre for the sole purpose of receiving IV metoprol IV infusion: Critical Care Units only IV Push: Critical Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administer I mg doses up to a maximu of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.	Lopressor®		2. Myocardial infarction	monitoring.	Progressive Care Units
Midazolam Versed® IV Push Intranasal IV push Iv					Cardiac Telemetry Units
Midazolam Versed® IV Push Intranasal For conscious sedation prior to general anesthesia, before administration of other anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous infusion for sedation in mechanically ventilated patients Midazolam IV Push Intranasal For conscious sedation prior to general anesthesia, before administration of other anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous infusion for sedation in mechanically ventilated patients Midazolam IV has been associated with respiratory arrest especially when used for conscious sedation. Requires continuous monitoring of respiratory and cardiac function. We Push: Critical Care Units only We Push: Critical Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administered on patients who have been receiving PO beta blockers and is currently NPO) Note: Patients should not be transferre for the sole purpose of receiving IV metoprol IV Infusion: Critical Care Units only IV Push: Critical Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administered on patients who have been receiving PO beta blockers and is currently NPO) Note: Patients should not be transferre for the sole purpose of receiving IV metoprol IV Infusion: Critical Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administer 1 mg doses up to a maximum of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.					Medical Telemetry (Beta Blocker naïve patients may be initiated on telemetry monitor)
Versed® IV Infusion IM Intranasal Intranasal IV Infusion Intranasal Intranasal IV Infusion Intranasal Intranasal Intranasal Intranasal IV Infusion Intranasal IV Push: Critical Care Units only IV Push: Critical Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administration of ther anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous infusion for sedation in mechanically ventilated patients IV Push: Critical Care Units only IV Push: Critical Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administration of ther anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous monitoring of respiratory and cardiac function. IV Push: Critical Care Units only IV Push: Critical Care Units only IV Push: Critical Care Units only IV Push: Critical Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.					may administered on patients who have been
administration of other anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous infusion for sedation in mechanically ventilated patients for conscious sedation. Requires continuous monitoring of respiratory and cardiac function. IV Push: Critical Care Units Progressive Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administration of other anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous infusion for sedation in mechanically ventilated patients May administration of other anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous monitoring of respiratory and cardiac function. Vertical Care Units Progressive Care Units (IV Push): May administration of other anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous monitoring of respiratory and cardiac function. Vertical Care Units Progressive Care Units (Oxide Preop Units (IV Push): May administration of other anesthetic agents, in the presence of Anesthesia.	Midazolam	IV Push			IV infusion:
IM Intranasal anesthetic agents; to supplement nitrous oxide and oxygen for short surgical procedures; continuous infusion for sedation in mechanically ventilated patients continuous monitoring of respiratory and cardiac function. continuous monitoring of respiratory and cardiac function. Critical Care Units Progressive Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administer 1 mg doses up to a maximum of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.	Versed [®]	IV Infusion			Critical Care Units only
Intranasal nitrous oxide and oxygen for short surgical procedures; continuous infusion for sedation in mechanically ventilated patients cardiac function. Critical Care Units Progressive Care Units on mechanical ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administer 1 mg doses up to a maximum of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.		IM			
continuous infusion for sedation in mechanically ventilated patients Ventilation Comfort Care Patients (any location; no monitoring required) Preop Units (IV Push): May administer 1 mg doses up to a maximum of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.		Intranasal	nitrous oxide and oxygen for		
patients Preop Units (IV Push): May administer 1 mg doses up to a maximum of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.			continuous infusion for sedation		
May administer 1 mg doses up to a maximum of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.					
of 2 mg for anxiety Preop Units (Moderate Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in the presence of Anesthesia.					Preop Units (IV Push):
IM: may be given on all units					Sedation): Doses up to 10mg may be given by nursing provided appropriate monitoring available in
					IM: may be given on <u>all</u> units

GENERIC DRUG

NAME (TRADE NAME)	ADMINISTRATION			PERMITTED
Milrinone	IV bolus, followed by IV	Increase heart contractility	Monitors heart rate, blood pressure, fluids and electrolytes. Do not admix	Critical Care Units
Primacor®	infusion	2. Treatment of CHF when digitalis is not effective.	with furosemide	Progressive Care Units
		3. Congestive heart failure		Cardiac Telemetry Units (Monitored) – mus be fixed rate , no titrations
Nicardipine Cardene IV®	IV Infusion (Large peripheral vein)	Short-term treatment of hypertension	Caution & monitoring because of hypotension, tachycardia, and changes in afterload	Critical Care Units
Nitroglycerin Tridil [®]	IV Infusion	 CHF Angina Hypertension crisis 	Caution & monitoring because of hypotension, tachycardia, palpitations, syncope & collapse. Dosage dependent on patient response; monitoring is necessary.	Critical Care Units
Nitroprusside Nipride®	IV Infusion	Hypertension crisis	A potent hypotensive drug which can cause profound hypotension, loss of consciousness. Causes cyanide toxicity. Monitor blood pressure & renal function & output; cyanide levels to regulate dosage & effects.	Critical Care Units
Norepinephrine Levophed®	IV Infusion (Central Line)	Restoration of blood pressure in controlling certain acute hypotensive states & adjunct in	A powerful peripheral vasoconstrictor and potent inotropic stimulation of the heart. Central venous pressure	Critical Care Units

treatment of cardiac arrest and

Refractory status epilepticus;

ICP

barbiturate coma in patients with

severe brain injury and increased

profound hypotension.

May be given through

a large bore peripheral line (no AC) at a maximum rate of 0.15mcg/kg/min for

< 24 hours

IV Infusion

IV Push

Pentobarbital

monitoring may be necessary during

May cause hypotension and respiratory

depression when administered IV

Critical Care Units

dosing titration.

O.L.	ENERIC DRUG	ROUTE OF	MAJOR INDICATION	REASON FOR RESTRICTIONS	AREAS WHERE ADMINISTRATION IS
	NAME	ADMINISTRATION			PERMITTED
(TI	RADE NAME)				

Phenylephrine Neosynephrine®	IV infusion (Central Line) May be given through a large bore peripheral line (no AC) at a maximum rate of 1 mcg/kg/min for < 24 hours	Hypotension/Shock	Potent, direct-acting alpha-adrenergic stimulator with beta-adrenergic activity that produces systemic arterial vasoconstriction that requires close monitoring of blood pressure and pulse	Critical Care Units
Phenobarbital	IV Push IV Infusion	Management of generalized tonic-clonic, status epilepticus and partial seizures	May cause hypotension and respiratory depression when administered IV	Critical Care Units Progressive Care Units Cardiac Telemetry Units Medical Telemetry (monitored patient only) 5W-Oncology Palliative only: IV Push, IM, IVPB at fixed rate of 0.5mg/kg/hr only (no titrations)
Phenytoin Dilantin®	IV Push Do Not Add to IV Fluids	Seizures	Adults – IV push slowly less than 50mg/min. No monitor needed on adults.	Adult units not restricted
Procainamide	IV Infusion	Ventricular arrhythmias	Potentially fatal blood dyscrasias (agranulocytosis) and proarrhythmic effects Continued administration leads to development of positive ANA test in 50% of patients, which may result in drug-induced lupus erythematosus-like syndrome ECG and continuous vital signs routinely monitored	Critical Care Units

GENERIC DRUG

(TRADE NAME)	ADMINISTRATION			PERMITTED
Propofol Diprivan®	IV Push IV Infusion	Continuous sedation to intubated, mechanically	Significant hypotension and bradycardia.	Critical Care Units IV Push only and if administered by
r		ventilated adult patients to provide continuous sedation and control of stress responses.		physician: Cardiac Telemetry Units (Monitored) and Progressive Care Units
		Also, used for cardioversion and other special procedures.		Procedural Units (including SMA, SMAT & HVAU: Anesthesia MUST administer & remain with patient until is able to breath spontaneously without support and patient responds to verbal stimuli)
Propranolol	Slow IV Push	Life threatening arrhythmias or those occurring under anesthesia	Central venous pressure and ECG monitoring required. Injection should not exceed 1mg/min to avoid lowering blood pressure and causing cardiac standstill.	Critical Care Units
Inderal®		those occurring under anesthesia		Progressive Care Units
Quinidine	IV	Antimalarial schizonticide Antiarrhythmic with a Class 1A activity	Cardiac effects Risk of torsades	Critical Care Units
Rocuronium Zemuron®	IV Push IV Infusion	Adjunct to general anesthesia; to facilitate endotracheal intubation; skeletal muscle	Respiratory depression or apnea may occur. Manual or mechanical ventilation	Critical Care Units

Propofol	IV Push	Continuous sedation to	Significant hypotension and bradycardia.	Critical Care Units
Diprivan®	IV Infusion	intubated, mechanically ventilated adult patients to provide continuous sedation and control of stress responses.		IV Push only and if administered by physician: Cardiac Telemetry Units (Monitored) and Progressive Care Units
		Also, used for cardioversion and other special procedures.		Procedural Units (including SMA, SMAT & HVAU: Anesthesia MUST administer & remain with patient until is able to breath spontaneously without support and patient responds to verbal stimuli)
Propranolol	Slow IV Push	Life threatening arrhythmias or those occurring under anesthesia	Central venous pressure and ECG	Critical Care Units
Inderal [®]		those occurring under anesthesia	monitoring required. Injection should not exceed 1mg/min to avoid lowering blood pressure and causing cardiac standstill.	Progressive Care Units
Quinidine	IV	Antimalarial schizonticide Antiarrhythmic with a Class 1A activity	Cardiac effects Risk of torsades	Critical Care Units
Rocuronium Zemuron®	IV Push IV Infusion	Adjunct to general anesthesia; to facilitate endotracheal	Respiratory depression or apnea may occur. Manual or mechanical ventilation	Critical Care Units
	1 musion	intubation; skeletal muscle relaxation during surgery or mechanical ventilation.	may be necessary to manage the patient.	During ACLS/Code Blue for RSI on all units
Sodium Chloride	IV Push	Hyponatremia	Risk of central pontine myelinolysis	≥ 3% NaCl: Critical Care Units only
Hypertonic Saline	IV infusion (Central Line) – for infusions greater than or equal to 3%) Exception: Peripheral line for 3% at discretion of physician in all ICUs at a maximum rate of 50mL/hr	Elevated intracranial pressure due to various etiologies (e.g. traumatic brain injury, intracranial hemorrhage, transtentorial herniation)	(due to rapid correction of hyponatremia), frequent monitoring of serum sodium and osmolality, hemolysis, transient hypotension (especially with 23.4%).	
	50mL/hr			

GENERIC DRUG	ROUTE OF	MAJOR INDICATION	REASON FOR RESTRICTIONS	AREAS WHERE ADMINISTRATION IS
NAME	ADMINISTRATION			PERMITTED
(TRADE NAME)				

Succinylcholine Anectine® Quelicin®	IM IV Push IV infusion	Adjunct to general anesthesia Induce skeletal muscle relaxation or paralysis during surgery	A neuromuscular blocker which produces muscular paralysis resulting in respiratory depression or apnea. Malignant hyperthermic crisis and cardiac effects may also occur.	Critical Care Units During ACLS/Code Blue for RSI on all units
Tenecteplase TNKase®	IV bolus	Management of AMI.	Needs to be given where diagnostic & monitoring equip are avail due to risk of serious hemorrhage, incl. potentially fatal intracranial bleeding & internal bleeding.	Critical Care Units
Tirofiban Aggrastat®	IV bolus loading dose, followed by infusion	Acute coronary syndrome, including the medically managed and the patient scheduled for PTCA	Constant monitoring of cardiac & blood pressure important because of side effects including excessive bleeding (including thrombocytopenia), coronary artery dissection, and bradycardia.	Critical Care Units Cardiac Telemetry Units (Monitored) Progressive Care Units
Vasopressin	IV infusion (Central Line) IM SC	Vasodilatory Shock/septic shock	Circumoral pallor (with high doses), hypertension, bradycardia, arrhythmias, venous thrombosis, vasoconstriction, distal limb ischemia, requires an increased level of monitoring	Critical Care Units (IM & SC administration does not require special monitoring)
Vecuronium Norcuron®	IV Push IV Infusion	Adjunct to general anesthesia; to facilitate endotracheal intubation; skeletal muscle relaxation during surgery or mechanical ventilation.	Respiratory depression or apnea may occur. Manual or mechanical ventilation may be necessary to manage the patient.	Critical Care Units
Verapamil Calan®, Isoptin®	Slow IV Push	 Temporary control of rapid ventricular rate in atrial flutter or atrial fibrillation. Supraventricular arrhythmias. 	Due to some patients experiencing life- threatening adverse reactions (hypotension, asystole), the use of IV Verapamil needs to be monitored.	Critical Care Units Cardiac Telemetry Units (Monitored) Progressive Care Units

Key: SC, subcutaneous; IV, intravenous piggyback; IVP, intravenous push; IM, intramuscular; PO, by mouth; RSI, Rapid Sequence Intubation

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^{*} Central line administration restrictions are based on pH (less than 5 or greater than 9), osmolarity (greater than 500 mOsm/L), and extravasation potential