Southern Health		REGIONAL ADULT PARENTERAL DRUG MONOGRAPH					
		GENERIC NAME esmolol					
Effective Date: Nov8 2017 Reviewed Date: Nov 2024		classification Antiarrhythmic Antihypertensive	OTHER NAMI Breviblo				
ADMINISTRATI							
		administered by a nurse experienced in ED/Cardiac room/OR/ICU/PACU					
IV Bolus –	May be admi	administered by a nurse experienced in ED/Cardiac room/OR/ICU/PACU					
5		e administered					
RECONSTITUTION/DILUTION/ADMINISTRATION:							
Available as: $10 \text{ mg/mL} - 10 \text{ mL}$ vial							
IV Bolus: Administer undiluted over 1 minute							
IV infusion: Pum							
Drug Library		Dose Rate	Short Name	Care Unit			
Yes		mcg/kg/min	Esmo1000	Critical Care			
Drug		Diluent	Final Volume (VTBI)	Final Concentration			
1000 mg (100mL of 10mg/mL)		100mL empty IV bag	100mL	10mg/mL			
Clinical Advisory	: High Alert						
Soft Low Dose L	imit: 25 mcg/k	g/min Soft Hi	gh Dose Limit: 300 mcg	/kg/min			
DOSAGE: Loading dose: IV Bolus: 250 to 500 mcg/kg Maintenance dose: IV infusion: Follow with a 25 to 50 mcg/kg/min infusion for 4 minutes; infusion may be continued at 50 mcg/kg/min or, if response is inadequate, titrate by 25 to 50 mcg/kg/min increments (increased no more frequently than every 4 minutes) titrate to desired response NOTE: May repeat loading dose before each rate increase							
Maximum single dose: 500 mcg/kg							
Maximum rate: IV bolus: 30 seconds IV infusion: 300 mcg/kg/minute							
Maximum concen	tration:	0 mg/mL					
STABILITY/COMPATIBILITY:							
Stability of Final Admixture: 24 hours at room temperature							
Compatibility:	(Compatible with normal saline, D5W, combination dextrose-saline solutions, Lactated Ringer					

Santé	REGIONAL ADULT PARENTERAL DRUG MONOGRAPH			
Southern Sud		HIGH ALERT DOUBLE CHECK		
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PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:

- Hypotension, bradycardia, diaphoresis, chest pain, cardiac failure, hyperkalemia
- Dizziness, somnolence, headache, confusion, agitation
- Nausea, bronchospasm inflammation/irritation at injection sites, avoid extravasation
- May precipitate or aggravate symptoms of arterial insufficiency in patients with Peripheral Vascular Disease and Raynaud's Disease
- Do not use within 24 hours of calcium channel blockers i.e. verapamil, diltiazem

ADDITIONAL NOTES AND NURSING CONSIDERATIONS:

- Cardiac and blood pressure monitoring required for continuous IV administration or repeated IV bolus administration
- Monitor blood pressure and heart rate
- Indicated only for short term rate control. Limited data for use beyond 24 hours.
- To test patient's tolerance to beta-blockade prior to switch to long acting agent such as metoprolol IV or PO.
- Administer with caution to patients with impaired renal function.
- Monitor for changes in level of consciousness, breathing or EKG changes (ischemic changes)
- May mask common signs of shock and hypoglycemia
- Overdose may respond to IV glucagon, atropine, epinephrine or pacing
- Elderly patients: Lower doses may be required