



REGIONAL ADULT PARENTERAL DRUG MONOGRAPH

GENERIC NAME
metoprolol



Effective Date: Dec 2011 Revised Date: Nov 2024	CLASSIFICATION Antihypertensive Beta Adrenergic Blocking Agent	OTHER NAMES Betaloc, Lopressor	PAGE 1 of 2
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ADMINISTRATION POLICY:
 IV bolus – May be administered by a nurses experienced in ED/Cardiac Room/ICU
 IV intermittent – May be administered by a nurse
 IV infusion – *Not recommended*

RECONSTITUTION/DILUTION/ADMINISTRATION:
Available as: 1 mg/mL solution – 5 mL vial

IV bolus: Administer undiluted over 1 to 2 minutes

IV intermittent: Administer over 15 to 30 minutes

Dose	Dose Preferred Diluent Volumes Bag size
	NaCl 0.9% or D5W
ordered	50mL

Maximum rate: IV bolus: 5 mg/minute
 IV intermittent: 5 mg every 5 minutes
Maximum concentration: 1 mg/mL

DOSAGE:

Myocardial protection in acute MI:
 IV bolus: 5 mg over 1 minute every 5 minutes to a total of 3 doses (15 mg)

Acute treatment of arrhythmias (SVT):
 IV Bolus: 2.5 mg to 5 mg over 2 minutes repeat every 5 to 10 minutes as needed maximum total dose 15 mg

IV intermittent:
 1.25 mg to 5 mg every 4 to 12 hours (for patients unable to take oral medications)

STABILITY/COMPATIBILITY:

Stability of Final Admixture: 24 hours at room temperature

Compatibility: Compatible with normal saline, D5W, combination dextrose-saline solutions



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PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:

- Bronchoconstriction
- Discontinue if heart rate is less than 60 or systolic blood pressure is less than 90 mmHg
- May cause CHF, shortness of breath
- Sinus bradycardia and heart block

ADDITIONAL NOTES AND NURSING CONSIDERATIONS:

- Acute MI: Continuous cardiac monitoring and vital signs
- IV intermittent: Obtain baseline vitals and repeat every 15 minutes and as needed during infusion
- Adverse effects are potentiated by Calcium Channel Blockers, other antihypertensives and anti-arrhythmics
- May mask the symptoms of hypoglycemia in diabetes
- Oral and IV doses are not equivalent. 50 to 100 mg oral metoprolol is equivalent to approximately 5 mg to 20 mg IV metoprolol.