

NOREPINEPHRINE (LEVOPHED®)

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| THERAPEUTIC EFFECTS | An Alpha 1, 2 & Beta adrenergic neurotransmitter and catecholamine that causes an increase in blood pressure by increasing cardiac output and peripheral vasoconstriction. |
| INDICATIONS | <ol style="list-style-type: none"> 1. Cardiogenic shock 2. Hypotension not caused by acute blood loss or volume depletion |
| CONTRAINDICATIONS | Hypotension due to hypovolemia prior to aggressive fluid resuscitation. |
| PRECAUTIONS/SIDE EFFECTS | <ul style="list-style-type: none"> ✓ Blood pressure should be constantly monitored. Administer as a piggyback to ensure dilution of agent and use a large vessel if possible. ✓ Co-administration of sodium bicarbonate may reduce efficacy. ✓ Arrhythmias including bradycardia, hypertension, shortness of breath and confusion may occur. |
| DOSAGE (ADULTS AND CHILDREN 5 YEARS AND OLDER) | Mix 4 mg In 250 ml LR/NS (16 mcg/ml) to administer as an infusion. 2 – 45 mcg/min. OR 0.05 – 2 mcg/kg/min. Not to exceed 45 mcg/min. |
| PEDIATRIC DOSAGE/ROUTE | 0.05 – 2 mcg/kg/min. Not to exceed 45 mcg/min. |

NOREPINEPHRINE (LEVOPHED) DRIP RATES

For the following chart, add 4 mg norepinephrine to 250 mL LR or NS. Use 60 gtts/mL IV set.

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| Desired Dose (mcg/min) | 4 mcg/min | 8 mcg/min | 12 mcg/min | 16 mcg/min | 20 mcg/min | 24 mcg/min | 28 mcg/min | 30 mcg/min |
| Drip Rate (drops/min) | 15 gtts/min | 30 gtts/min | 45 gtts/min | 60 gtts/min | 75 gtts/min | 90 gtts/min | 105 gtts/min | 113 gtts/min |

NOREPINEPHRINE INFUSION PREPARATION

1. Draw 4 mL off and discard from a 250 mL bag of LR or NS.
2. Add 4 mg (1mg/mL) norepinephrine (Levophed) resulting in 250 mL of a 16 µg/mL solution of norepinephrine.
3. Connect and prime a 60 gtts/mL IV set for medication administration.
4. Using a high contrast sticker, label IV bag with medication name, amount added, date/time added, resulting concentration, and provider initials.