

	<b>M31- NOREPINEPHRINE (LEVOPHED)</b>	
	Version date: 2025-04-24	Effective date: 2025-04-30 (07:00)
<b>ERS HIGH-ALERT MEDICATION (A03)</b>		

INDICATIONS
<ul style="list-style-type: none"> <li>• Cardiogenic shock (table A)</li> <li>• Septic, undifferentiated shock, and post cardiac arrest shock (table B)</li> </ul>

WARNINGS
<p>USE WITH CAUTION:</p> <ul style="list-style-type: none"> <li>• For preparation instructions refer to H10 (DOUBLE-CHECK DILUTION CALCULATIONS)</li> </ul> <p>ABSOLUTE CONTRAINDICATIONS:</p> <ul style="list-style-type: none"> <li>• Cardiogenic shock when significant tachycardia cannot be tolerated (e.g. myocardial ischemia) <sup>1</sup></li> <li>• Uncorrected hypovolemia <sup>2</sup></li> </ul>

TABLE A: CARDIOGENIC SHOCK	
INTRAVENOUS (INTRAOSSEOUS) INFUSION	ACP
<p><u>NOTE:</u> REFER TO H10 FOR THE CORRECT DILUTION</p> <p>ALL AGES:</p> <ul style="list-style-type: none"> <li>• Initiate a continuous infusion at 0.05 mcg/kg/min</li> <li>• Titrate in increments of 0.05 mcg/kg/min every 2 to 3 minutes to the target mean arterial pressure (maximum infusion rate = 2 mcg/kg/min)</li> </ul>	

TABLE B: SEPTIC, UNDIFFERENTIATED OR POST CARDIAC ARREST SHOCK	
INTRAVENOUS (INTRAOSSEOUS) INFUSION	ACP
<p><u>NOTE:</u> REFER TO H10 FOR THE CORRECT DILUTION</p> <p>ALL AGES:</p> <ul style="list-style-type: none"> <li>• Initiate a continuous infusion at 0.05 to 0.15 mcg/kg/min</li> <li>• Titrate in increments of 0.05 to 0.15 mcg/kg/min every 2 to 3 minutes to the target mean arterial pressure (maximum infusion rate = 3.3 mcg/kg/min)</li> </ul>	

NOTES
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| <ol style="list-style-type: none"> <li>1. Norepinephrine is the initial vasopressor of choice in cardiogenic shock, but may result in significant tachycardia potentially worsening myocardial ischemia.</li> <li>2. Norepinephrine is the preferred agent in septic and undifferentiated shock but may worsen perfusion if a volume deficit is not first corrected.</li> <li>3. When diluting norepinephrine, the syringe must be clearly labelled with the final concentration.</li> </ol> |
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LINKS
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| <ul style="list-style-type: none"> <li>• A03 - High Alert Medications</li> <li>• C02.2 - Return of Spontaneous Circulation</li> <li>• C07.1 - Undifferentiated Shock</li> <li>• C07.3 - Cardiogenic Shock</li> <li>• C07.4 - Septic Shock</li> <li>• H10 - ERS Medications Formulary</li> </ul> |
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APPROVED BY	
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EMS Medical Director	EMS Associate Medical Director

VERSION CHANGES (refer to X08 for change tracking)
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| <ul style="list-style-type: none"> <li>• New</li> </ul> |
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