This document is for reference only. Please refer to SWO's for specific indications, dosages, and applications			
Drug Name:	Norepinephrine	ni Lovonhod	$\mathbf{R} \mathbf{X}$
Trade Name:	Noradrenalin, Nor-E	pi, Levopned	
REVISED:	December 01, 2022		
Class:	<ul><li>Adrenergic Catecholamine</li><li>Sympathomimetic</li><li>Vasopressor</li></ul>		
Mechanism of Ac	ction:		
Indications:	<ul> <li>αperipheral vasoconstriction,</li> <li>Increases systemic vascular res</li> </ul>	sistance and blood press	sure
Contraindication	<ul> <li>Refractory hypotension</li> <li>Support of the second se</li></ul>	a (relative)	
Precautions:	<ul> <li>Ischemic heart disease</li> <li>Cerebrovascular insufficiency</li> <li>Pulmonary edema</li> <li>Deactivated/precipitates with al</li> <li>Increases myocardial oxygen d</li> </ul>	<ul> <li>Pregna</li> <li>Geriatri</li> <li>Protect</li> </ul>	from light
Deserve	Peripheral vascular Disease		
Dosage:			
Adults: IV I Pediatri	nfusion IV/IO: 0.01- 2 mcg/kg/min • Start at 0.1 mcg/kg/min. • Titrated to maintain MAP>65 or CS: IV/IO: 0.01- 2 mcg/kg/min • <u>Start at 0.1 mcg/kg/min.</u> • <u>Titrated to maintain MAP&gt;65</u>		RUG: NOREPINEPI
Onset:	• IV/IO: 1-2 min		
Duration: Side Effects:	Based on infusion duration		l iii
	<ul><li>Anxiety</li><li>Tachycardia</li><li>HTN</li></ul>	<ul> <li>N/V</li> <li>Fear</li> <li>Headac</li> </ul>	

- HTNAnginaArrhythmias
- V-Fib

- Headache
- Pallor •
- Dizziness
- Tremors •



Interactions:

- Potentiated by MAOIs and TCAs
- Antagonized by beta blockers
- Precipitates in alkaline solutions such as Sodium Bicarbonate

PEARLS:

Caution should be observed to avoid extravasation of norepinephrine during intravenous administration. Check the infusion site frequently for free-flow.

- Preferred Concentration/mixture: 4 mg/250 cc normal saline.
  - May also be available in 8 mg/250 ml.
  - Confirm concentration prior to administration.
- Ensure that aggressive fluid resuscitation is accomplished (unless contraindicated) prior to norepinephrine use.
- Nor epinephrine infusions should be administered by infusion pump only.
- Nor epinephrine infusions should be established in the largest vein possible for the clinical situation.
  - Norepinephrine is preferentially given through a central line but in the field and in emergent situations it can be given peripherally through good IV access.
  - Avoid administering nor epinephrine through an IV in the hand, wrist, or leg. These veins are more likely to be affected by vasoocclusive diseases and more prone to ischemic complications.
  - o Administration through IO in the leg is permitted
- Nor epinephrine is necrotic to tissue.
  - Observe and monitor for infiltration. Caution should be observed to avoid extravasation of norepinephrine during intravenous administration.
  - Check the infusion site frequently for free-flow.
  - Blanching along the course of the infused vein, sometimes without obvious extravasation, has been attributed to vasa vasorum constriction with increased permeability of the vein wall, permitting some leakage. If blanching occurs, consider changing the infusion site at intervals to allow the effects of local vasoconstriction to subside.
  - An ischemic area may be identified by a cool, hard, and pallid appearance.
- Sodium bicarbonate will inactivate nor-epinephrine; flush line well between administration.
- Concurrent/simultaneous administration of beta agonists may produce increases in heart rate and mild bronchodilation.

**JRUG: NOREPINEPHRINE**