

SEPTIC SHOCK MEDICATION GUIDE



**ANTIBIOTICS – GIVE ASAP WITHIN ONE HOUR; give gram negative first (except for neonate)
IN OMNI (ER Main, PICU B, MS6C, MS7C, MS8C)**

Bedside RN to mix initial doses. Give "push" meds first

DRUG	INDICATION	DOSE	RECONSTITUTE	DILUTE in NS or D ₅ W	RATE
CEFTRIAXONE 1 gram vial	GRAM NEGATIVE	100 mg/kg/day divided q12hr (max 2000 mg/dose)	9.6ml SW= 100 mg/mL solution	<= 8 Kg add dose to 10 mL in a syringe 8-15 Kg - add dose to 20 mL in a syringe >=15 Kg - add dose to 50 mL bag	Over 10 min
CEFTAZIDIME 1 gram vial	GRAM NEGATIVE FEVER + NEUTROPENIA / IMMUNOCOMPROMI SE/CHRONIC HOSPITALIZATION	150 mg/kg/day divided q8hr (max 2000 mg/dose)	10ml SW= 100 mg/mL solution	N/A	Pushover 3-5 min
GENTAMICIN 2 mg/mL	GRAM NEGATIVE <i>Only for neonate ≤21 days old ≥35 weeks gestation</i>	4 mg/kg q24hr	Pharmacy to prepare STAT		Over 30 min
VANCOMYCIN 500 mg vial	GRAM POSITIVE	<3 mo: 15 mg/kg q8hr ≥52 wks/≥3 mo old: 70 mg/kg/day divided q6hr (max 750 mg/dose); ≥12 yrs: 60 mg/kg/day divided q8hr (max 1 g/dose)	10 mL SW= 50 mg/mL solution	0-7 Kg see below*** 8-29 Kg - add dose to 100 mL bag >30Kg - add dose to 250 mL bag	Over 90 min
LINEZOLID 2 mg/mL	GRAM POSITIVE VANCO ALLERGIC/ RENAL INSUFFICIENT	<12 years: 30 mg/kg/day divided q8hr (max 600 mg/dose); ≥12 yrs: 600 mg q12hr; if ≥12 yrs old but <45 kg: 20 mg/kg/day divided q12hr (max 600 mg/dose)	Pharmacy to prepare STAT		Over 30 min
AMPICILLIN 500 mg vial	GRAM POSITIVE NEONATE ≤28 DAYS	300 mg/kg/day divided q8hr ≤7 day olds, divided q6hr for >7 day olds	1.8 mL SW = 250 mg/mL	0-7 kg see below***	Over 15 min
CLINDAMYCIN 12 mg/mL	TOXIC SHOCK	40 mg/kg/day divided q8hr (max 900 mg/dose)	Pharmacy to prepare STAT		Over 30 min
METRONIDAZOLE 12 mg/mL	INTRA-ABDOMINAL / ANAEROBIC	30 mg/kg/day divided q8hr (max 500 mg/dose)	Pharmacy to prepare STAT		Over 30 min

***For patients weighing 1-3 Kg, add medication to 10 mL in a syringe

***For patients weighing 4-7 Kg, add medication to 20 mL in a syringe

Pressors Continuous infusions, titrate to effect		Concentration for Administration	Starting Dose	Max Dose
Epinephrine Hypotensive and vasoconstricted		8 mg/250 (32mcg/mL) premixed bag OR 1.6 mg Epinephrine in 48 mL (32 mcg/mL) D ₅ W or NS <i>Central line is preferred</i>	0.05 mcg/Kg/min	1 mcg/Kg/min
Norepinephrine Hypotensive and vasodilated		32 mcg/1 mL premixed bag OR 1.6 mg norepinephrine in 48mL (32 mcg/ml) D ₅ W or NS <i>Central line is preferred</i>	0.05 mcg/Kg/min	1-2 mcg/Kg/min
OTHER MEDICATIONS				
Dextrose		D ₁₀ W D ₂₅ W (Dilute D ₅₀ 1:1 with SW)	0.5 g/Kg = 5 mL/Kg 0.5 g/Kg = 2 mL/Kg	25g = 250 ml D ₁₀ 25g=100mL D ₂₅
Calcium Chloride 100 mg/mL		Dilute In NS - max 20 mg/mL Give over 30 min. <i>Central line is preferred.</i>	10-20 mg/Kg	1000 mg
Calcium Gluconate 100 mg/mL		Dilute in NS - max 50 mg/mL Give over 30 min.	100 mg/Kg	2000 mg
Hydrocortisone		Undiluted, slow IV push	2 mg/Kg	100 mg Standard adult dose
Ref: Pediatric and Neonatal Lexi-drugs online				



When premixed bags are not available:

Drips / Infusions	Dose Form	Code Cart	Trans- port Kit	Tackle Box	Standard Dose	Dose Range	Preparation Instructions	Administration
DOPamine	400mg/250mL	1			10 mcg/kg/min	2 - 20 mcg	* * premixed 250 mL Bag* *	*premixed * concentration = 1.6 mg/mL
EPINEPHrine (1mg/mL)	1mg/1mL	3		2	0.1 mcg/kg/min	0.05 - 0.2 mcg	1.6 mg (1.6 mL) to 48 mL of D5W or NS to make a 50 mL syringe	concentration = 32 mcg/mL = 0.032 mg/mL
Lidocaine	100mg/5mL	1		3	20 mcg/kg/min	20 - 50 mcg	180 mg (9 mL) to 41 mL of D5W or NS to make a 50 mL syringe	concentration = 3600 mcg/mL = 3.6 mg/mL
Norepinephrine	4mg/4mL			1	0.1 mcg/kg/min	0.05 - 2 mcg	1.6 mg (1.6 mL) to 48 mL of D5W or NS to make a 50 mL syringe	concentration = 32 mcg/mL = 0.032 mg/mL
Procainamide	1000mg/10mL			1	20 mcg/kg/min	20 - 80 mcg	180 mg (1.8 mL) in 50 mL in D5W or NS to make a 50 mL syringe	concentration = 3600 mcg/mL = 3.6 mg/mL

Endotracheal Administration: After each medication, flush ETT with 5 mL of normal saline and follow with 5 ventilations.

	Dose Form	Code Cart	Trans- port Kit	Tackle Box	Standard Dose	Max Single Dose	Preparation Instructions	Administration
Atropine	1mg/10mL	2		2	0.04 - 0.06 mg/kg	0.5 mg		Undiluted.
EPINEPHrine (1mg/mL)	1mg/1mL	3		2	0.1 mg/kg	2.5 mg		Undiluted.
Lidocaine	100mg/5mL	1		3	2 - 3 mg/kg	2 - 3.5 mg/kg		Undiluted.
Naloxone	0.4mg/1mL	5			0.1 mg/kg	2 mg		Undiluted.
Naloxone	4 mg/10mL			1	0.1 mg/kg	2 mg		Undiluted.
Aerosol Medications via a nebulizer:								
Albuterol	0.5% - 0.5 mL	2		2	2.5 - 5 mg	5 mg	Dilute in 3mL of NS	Deliver via nebulizer.
Racemic EPINEPHrine	2.25% - 0.5 mL	2		2	11.25 mg	11.25 mg	Dilute in 3mL of NS	Deliver via nebulizer.

Approved by Emergency Response Committee on 7.8.2025