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_5W	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 / IMMUNOCOMPROMISE/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** *Only for neonate ≤21 days old ≥35 weeks gestation*	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_5W or NS *Central line is preferred*	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_5W or NS *Central line is preferred*	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. *Central line is preferred.*	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			

Connecticut Children's

When premixed bags are not available:

Drips / Infusions	Dose Form	Code Cart	Trans-port Kit	Tackle Box	Standard Dose	Dose Range	Preparation Instructions	Administration
DOBUTamine	250mg/20mL			1	10 mcg/kg/min	5 - 20 mcg	100 mg (8 mL) to 42 mL in D5W or NS to make 50 mL syringe	concentration = 2 mg/mL
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
Isoproterenol	1mg/5mL			2	0.1 mcg/kg/min	0.05 - 2 mcg	1.8 mg (1.8 mL) to 48 mL of D5W or NS to make a 50 mL syringe	concentration = 36 mcg/mL = 0.036 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