**Severe sepsis order bundle
for hospitals without an ICU**



|  |
| --- |
| **Patient criteria for severe sepsis bundle** |
| Assess the following patient criteria on admission or immediately upon suspicion of sepsis: If patient has all three of the below, initiate severe sepsis bundle orders:* Suspected infection
* Two out of the four below:
	+ Temperature > 100.4 or < 96.8 F ○ Pulse > 100
	+ Respiratory rate > 20 or PaCO2 < 32mmHg ○ WBC > 12,000 or < 4,000 mm3
* SBP < 100mmHg after 2,500 ml fluid bolus OR lactate ≥ 4mmol/L OR altered mental status
 |
|  |
| **Severe sepsis bundle orders ED or general floor (hospital without ICU)** |
| **The following must be completed within one hour:** |
| 1. | **Laboratory (if not done in ED):** * Draw blood cultures from two different sites, one of which may be a line draw
* UA/UC, sputum Gram stain and culture if able
* Draw lactate level now and repeat in three hours
* Electrolytes, BUN, Cr, CBC w/diff + platelets, liver panel, ionized Ca, Mg, Phosphorous, PT/INR, type and screen unless drawn in last four hours
 |
| 2. | **Chest x-ray Other:** |
| 3. | **Review for source of infection, other cultures:** |
| 4. | **Medications:** * IV fluids - NS 1000 ml bolus 1L at a time to total 30ml/kg as rapidly as possible until MAP ≥ 65, then 150ml/hr
* Antibiotic orders: pharmacy to adjust for renal function
* Immediately after all cultures drawn, begin:
	+ **Piperacillin/tazobactam** 4.5 grams IV STAT, then q6h
	+ **Vancomycin** 20mg/kg, maximum dose 2,000mg IV STAT, then dosing per pharmacy
	+ Or:
* If penicillin allergy, then administer:
	+ **Meropenem 1 g IV STAT then q8h**
		- Contact provider to confirm antibiotic selection if anaphylaxis to penicillins or cephalosporins
	+ **Vancomycin** 20mg/kg, maximum dose 2,000mg IV STAT, then dosing per pharmacy
* If community acquired pneumonia suspected, add:
	+ **Levofloxacin** 750 mg IV STAT then q24h OR
	+ **Azithromycin** 500mg IV STAT then q24h
* Reevaluate all antibiotics in 72 hours
 |
| 5. | **Transfer to ICU (or another hospital within two hours) if:** * Lactate > 4 OR
* Unresponsive to 30ml/kg fluid OR
* 2+ s/s organ dysfunction (below) OR
	+ Respiratory SaO2 < 90% OR increasing 02 requirements
	+ Cardiovascular: SBP < 90mmHg OR 40mmHg less than baseline or MAP < 65mmHg
	+ Renal: urine output < 30ml/hr, creatinine increase > 0.5mg/dl from baseline or ≥ 2.0mg/dl
* CNS: altered mental status, GCS ≤ 12
 |

|  |  |
| --- | --- |
|  | * + Hematologic: platelets < 100,000, INR > 1.5, PTT > 60 secs
	+ Hepatic: serum total bilirubin ≥ 4mg/dl or plasma total bilirubin > 2.0mg/dl or 35 mmol/L
	+ Hypotension (SBP < 90mm Hg, MAP < 70 or SBP decreases > 40mm Hg)
* Progression of symptoms despite treatment
 |
| **Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_ Time: \_\_\_\_\_\_\_\_\_\_** |