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



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| **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 | |
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| **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 |

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|  | * + 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: \_\_\_\_\_\_\_\_\_\_** | |