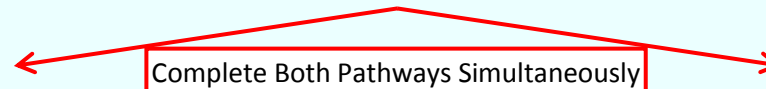


Adult ED to ICU Sepsis Treatment

Early Recognition

- IF:** Suspected infection + SIRS Criteria
Assess for two or more of the following:
1. Temp $\geq 38.0^{\circ}\text{C}$ (100.4°F) or $\leq 36.0^{\circ}\text{C}$ (96.8°F)
 2. Heart rate ≥ 90
 3. Resp rate ≥ 20 or PaCO₂ ≤ 32 mmHg
 4. WBC $\geq 12\text{K}$, $\leq 4\text{K}$ or $\geq 10\%$ bands
- THEN:**
1. Check serum lactate (ABG or VBG)
 2. Obtain appropriate cultures
- IF:** SBP < 90 or MAP < 70, despite fluids (minimum 30ml/kg NS bolus) or serum Lactate ≥ 4 mMol and not a cardiogenic cause
- THEN:** PATIENT HAS SEVERE SEPSIS/SEPTIC SHOCK



Early Goal Directed Therapy (Achieve within 6 hours)

1. Central line placement for CVP/ScvO₂ monitoring (IJ or Subclavian)
2. Call Appropriate Surgical or ICU Team
3. Supplemental oxygen or mechanical ventilation
4. **GOAL CVP 8-12 (Mechanical ventilation may alter CVP)**
 - A. 1 L crystalloid per hour (minimum 30 ml/kg) in the first 4-6 hours; if patient responding hemodynamically, continue intermittent boluses
5. **GOAL SBP 90-140, and/or MAP 65-90**
 - A. Arterial line placement (preferred)
 - B. Norepinephrine 2-20 mcg/min
6. **GOAL ScvO₂ $\geq 70\%$ when CVP 8-12 (distal port central line VBG)**
 - A. Hgb < 10 Transfuse PRBC.
 - B. Dobutamine 2 to 5 mcg/kg/min
7. **GOALS NOT ACHIEVED**
 - A. Reassess steps 5-7
 - B. Consider mechanical ventilation with sedation

Within 1 hour of early recognition, administer broad spectrum intravenous antibiotics:

Cefepime 2g IV STAT

If history of immediate anaphylactic reaction to PCN or cephalosporins:

Aztrenonam 2g IV + Levofloxacin 750 mg IV STAT

Within 1-3 hours: identify primary source & start additional intravenous antibiotics STAT as specified below:

Pulmonary:

CAP: ADD Levofloxacin 750 mg IV

HAP: ADD Levofloxacin 750 mg IV PLUS Vancomycin IV*

Line/Bloodstream/Skin/Bone/Joint: ADD Vancomycin IV*

GI: ADD Metronidazole 500 mg IV

Urine: ADD Vancomycin IV*

CNS: ADD Vancomycin IV*

If Patient: >50 yr **or** immunocompromised **or** chronic EtOH: ADD Ampicillin 2g IV

Other/Unknown: ADD Vancomycin IV*

*Vancomycin dosing:

Adult Patient <55 kg: 1000 mg OTO

Adult Patient 55 to 90 kg: 2000 mg OTO

Adult Patient >90 kg: 3000 mg OTO