**EMS Adult Protocols**

<table>
<thead>
<tr>
<th>Protocol Title:</th>
<th>Sepsis</th>
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<tbody>
<tr>
<td>Original Adoption Date:</td>
<td>03/01/2018</td>
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<tr>
<td>Past Protocol Updates</td>
<td></td>
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<tr>
<td>Date of Most Recent Update:</td>
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<tr>
<td>Medical Director</td>
<td>Chad Torstenson M.D.</td>
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</tbody>
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**History:**
- Elderly and Young
- Fever
- Documented Infection
  - UTI
  - Pneumonia
  - Abscess
- Immunocompromised
  - Transplant
  - Diabetes
  - Cancer
  - HIV
- Bedridden or Immobile
- Indwelling Device

**Signs and Symptoms:**
- Hyper/Hypothermia
- Rash
- Excessive Bruising
- Chills
- Myalgia (Muscle Aches)
- Decreased Urine Output
- Altered Mental Status
- Hypoperfusion
- Elevated BGL in non-diabetic patient

**Differential:**
- Cardiogenic Shock
- Hypovolemic Shock
- Dehydration
- Hyperthyroidism
- Medication/Drug Interaction
- Non-Septic Infection
- Allergic Reaction
- Toxicological Emergency

**Special Considerations:**
- *Aggressive IV therapy is the most important pre-hospital treatment for sepsis, repeated checks should occur for signs of pulmonary edema.*
- *STOP fluid therapy if signs of pulmonary edema occur.*
- *Be prepared to control airway.*
- *Elevated Serum lactate can be useful for determining hypoperfusion, which usually occurs prior to hypotension.*
- *Capnography can be useful in determining the onset of sepsis.*
- *<26 mmHg on two separate occasions 2 minutes apart can be indicative of sepsis.*

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![Flowchart Diagram](chart.png)

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**Flowchart Diagram:**
- **Initial Protocol for all Patients**
  - Continuous EKG, Sp02, NIBP, & ETCO2 Monitoring
  - PPE and/or infection control measures

- **Has patient received 2 liters NS?**
  - Yes
    - **Initiate Levophed at 0.03 mcg/kg/min**
      - Continue IVF
    - No

- **Obvious or Suspected infection and 2 or more SIRS Criteria**
  - Yes
    - Normal Saline 500 ml Bolus
  - No

- **Has patient received 2 liters NS?**
  - Yes
    - Re-assess Patient SBP <90
    - Titrated Levophed by 0.05
      - Max 0.3 mcg/kg/min
  - No

- **Exit Protocol**

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![Image](image.png)