



General Medical Treatment

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Important Notes

- The purpose of this protocol is to provide assessment & treatment modalities for pt complaints not addressed by other S-SV EMS protocols – including suspected sepsis & suspected abdominal aortic aneurysm (AAA).

BLS

- Assess V/S, including SpO₂ & temperature (if able)
- O₂ at appropriate rate if pt is hypoxemic (SpO₂ <94%), short of breath, or has signs of heart failure/shock
- Assess history & physical
- Check blood glucose – if indicated & able

Blood glucose ≤ 60 mg/dl, or
hx & clinical presentation fits
hypoglycemia

NO

YES

- Oral glucose (BLS) – ONLY if pt is conscious & able to swallow**
- Pre-packaged glucose solution/gel or 2-3 tbsp of sugar in water/juice
- OR**
- Dextrose 10% (ALS)**
- 10 – 25 g (100 – 250 mL) IV
- OR**
- Glucagon (ALS)**
- 1 mg (1 unit) IM/IN

LALS

Consider the following additional assessment/treatment modalities, as appropriate, based on pt's condition & clinical presentation:

- Cardiac monitor/12-lead EKG (**AEMT II**)
- EtCO₂ monitoring (**AEMT II**)
- IV NS (may bolus up to 1000 mL if indicated)

- Refer to other sections of this protocol as appropriate:
 - Suspected Sepsis – Page 2
 - Suspected AAA – Page 3



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Suspected Sepsis

Important Notes

- Early recognition of sepsis is critical to expedite hospital care and antibiotic administration.
- Aggressive IV fluid therapy is the most important prehospital treatment for sepsis.
- Septic pts are especially susceptible to traumatic lung injury and ARDS. If BVM ventilation is necessary, avoid excessive tidal volumes.
- Attempt to identify the source of infection (skin, respiratory, etc.), previous treatment and related history.
- Consider the possibility of sepsis when a combination of two or more of the following Systemic Inflammatory Response Syndrome (SIRS) criteria are present:
 - Temperature $<96.8^{\circ}\text{F}$ or $>100.4^{\circ}$
 - RR $>20\text{bpm}$
 - HR $>90\text{bpm}$
 - $\text{ETCO}_2 \leq 25\text{ mmHg}$

High-Risk Indicators for Sepsis:

- Hx of pneumonia, UTI, MRSA
- Cancer pts
- Nursing home residents
- Pts with indwelling catheters
- Immune-compromised pts

Shock Index (SI):

- SI is used to assess the severity of hypovolemic shock
- $\text{SI} = \text{HR}/\text{SBP}$
 - Normal SI range is 0.5 to 0.7
 - $\text{HR} > \text{SBP}$ ($\text{SI} > 1$) may indicate sepsis

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- Assess temperature
- EtCO_2 monitoring (**AEMT II**)
- IV NS 500 mL boluses to a maximum of 2 L if SIRS criteria remain present
 - Reassess V/S between boluses
 - Discontinue boluses & provide supportive care if signs of pulmonary edema develop

If SBP <90 after 2 L NS:**Push-Dose Epinephrine (AEMT II)**

- Eject 1 mL NS from a 10 mL flush syringe
- Draw up 1 mL epinephrine 1:10,000 & gently mix
- Administer 1 mL IV push every 1-5 mins for continued SBP <90

- Monitor & reassess
- Provide early notification to the receiving hospital for suspected sepsis pts



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Suspected Dissecting or Ruptured Abdominal Aortic Aneurysm (AAA)

Important Notes

- **Pts at high risk for AAA include:**
 - Men age >65
 - History of smoking
 - History of hypertension
 - Family/pt history of AAA
- **Hallmark symptoms of AAA often include one (1) or more of the following:**
 - Sudden onset of abdominal, flank, back, or groin pain
 - Pain described as “ripping” or “tearing”
 - Pain is typically severe, constant, & progressive
 - Sudden onset of weakness or syncope/near-syncope
 - Nausea &/or vomiting
 - Sense of impending doom/restlessness
- **One (1) or more of the following V/S &/or assessment findings may be present:**
 - Hypotension (late or rapidly developing)
 - Narrowing pulse pressure
 - Tachycardia (caution: pts with history of hypertension may be on beta blockers)
 - Weak or thready peripheral pulses
 - Asymmetric femoral pulses
 - Pulsatile abdominal mass (often absent or difficult to assess)

LALS

- Cardiac monitor/12-lead EKG (**AEMT II**)
- EtCO₂ monitoring (**AEMT II**)
- Establish two (2) large-bore IVs when possible
- Do not aggressively treat hypotension – allow for permissive hypotension
 - Target SBP 80-90 mmHg if pt has palpable pulses & is conscious
 - Administer 250 mL NS boluses only if signs of critical hypoperfusion (including: mental status changes, delayed capillary refill, bilateral absent femoral pulses)
- Prioritize pain management – refer to ‘Pain Management’ protocol (M-8 LALS)

- Monitor & reassess
- Provide early notification to the receiving hospital for suspected AAA pts