SEPSIS: ADULT

SEPSIS: EMR / EMT

AEMT / PARAMEDIC

SEPSIS ALERT CRITERIA: Emergency Medical Services

[ABC's]

Treat/Secure as needed

[Assessment] Vital Signs Past/Present History Time of Onset Physical Exam

[Oxygen] {As needed} Nasal Cannula 2-6 LPM Non-Rebreather 12-15 LPM Bag Valve Mask 15-25 LPM

[Maintain SPO2 & ETCO2] {As needed} 90% Medical | ETCO2 95% Trauma | 36-45 mm/hg

[EMR]

[Transport]

- Prepare patient for transport
- Place in position of comfortDetailed physical exam
- Contact incoming EMS unit

** INITIATE SEPSIS ALERT **

[EMT]

- Apply Cardiac Monitor (as directed)
- Obtain 6 second strip

[Transport]

- Place in position of comfort
- Detailed physical exam
- Transport to appropriate facility
- Contact receiving facility

** INITIATE SEPSIS ALERT **

[AEMT]

- Apply Cardiac Monitor (as needed and document)
- Consider IV fluids
- Follow your Sepsis protocol

[Transport]

- Place in position of comfort
- Detailed physical exam
- Transport to appropriate facility
- Contact receiving facility

**** INITIATE SEPSIS ALERT ****

[PARAMEDIC]

- Apply Cardiac Monitor (as needed and document)
- Consider IV fluids
- Consider Pressors
- Follow your Sepsis protocol

[Transport]

- Place in position of comfort
- Detailed physical exam
- Transport to appropriate facility
- Contact receiving facility

** INITIATE SEPSIS ALERT **

Provide ED with accurate amount of fluid administered to patient. Include time each bag was started.

Activate a Sepsis Alert if the patient is positive for SIRS, hypotensive and at least "Yes" to one of the infection criteria.

1. <u>SIRS (Systemic Inflammatory Response</u> <u>Syndrome)</u>: SIRS positive if meets ≥ 2 criteria listed below.

- Temperature > 100.4F or < 96.8F
- Pulse > 90 beats/minute
- Respiratory rate > 20 breaths/minute
- **2.** <u>Hypoperfusion:</u> \geq 1 of the following:
 - Systolic BP < 90
 - MAP < 65
 - Altered mental status
- **3.** <u>Infection:</u> \geq 1 of the following:
 - Infections (documented or suspected): Pneumonia, UTI, Wound Infection, Cellulitis, Decubitus Ulcers
 - High Risk Criteria: Nursing home, recent surgery, immuno-compromised, indwelling device, currently on antibiotics
 - Symptoms/Exam: cough; shortness of breath; purulent wound drainage; urinary pain/frequency; abdominal pain, distention, or firmness; stiff neck

**** INITIATE SEPSIS ALERT ****

State *"we suspect Sepsis"* and provide:

- Age of patient
- Chief complaint
- Glascow Coma Score (GCS)
- SIRS and infection criteria
- Time of onset
- Estimated time of arrival (ETA)

Source: Adapted from "EMS Protocols" and "Treat-before-transfer form" Wesley Healthcare, Wichita, Kansas

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PEDIATRIC SEPTIC SHOCK

** INITIATE A SEPSIS ALERT IF: **										
Known or suspected infection and the patient meets ≥ 3 or more of the 8 clinical criteria (vital signs and exam abnormalities)										
OR										
Known or suspected infection and the patient meets the high-risk criteria and meets \geq 2 of the 8 clinical criteria (vital signs and exam abnormalities)										
VITAL SIGNS										
	< 1 month	≥ 1 to 3 months	≥ 3 to 12 months	≥ 1 to 2 years	≥ 2 to 4 years	≥ 4 to 6 years	≥ 6 to 10 years	≥ 10 – 13 years	> 13 years	
Heart Rate	> 205	> 205	> 190	> 190	> 140	> 140	> 140	> 100	> 100	
Respiratory Rate	> 60	> 60	> 60	> 40	> 40	> 34	> 30	> 30	> 16	
Systolic BP	< 60	< 70	< 70	< 70+ (age in years x 2)	< 70+ (age in years x 2)	< 70+ (age in years x 2)	< 70+ (age in years x 2)	< 90	< 90	
Temperature	< 96.8F or > 100.4F			< 96.8F or > 101.3F						
EXAM ABNORMALITIES										
	COLD SHOCK			WARM SHOCK			NON-SPECIFIC			
Pulses (central vs. peripheral)	Decreased or weak			Bounding						
Capillary refill (central vs. peripheral)	≥ 3 seconds			Flash (< 1 second)						
Skin	Mottled, cool			Flushed, ruddy, erythroderma (other than face)			Petechiae below the nipple, any purpura			
Mental Status							Decreased mental status, irritability, confusion, <u>inappropriate</u> crying or drowsiness, poor interaction with parents, lethargy, diminished arousability, obtunded			
HIGH RISK CONDITIONS										
High Risk	Malignancy, a	Malignancy, asplenia (including sickle cell disease), bone marrow transplant, central or indwelling line/catheter, solid organ								
Conditions	transplant, se	ransplant, severe developmental disability, cerebral palsy, immunodeficiency, immunocompromised or immunosuppression								

SEPSIS: SPOT THE SIGNS



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1. Davis et al. (2017). American College of Critical Care Medicine Clinical Practice Parameters for Hemodynamic Support of Pediatric and Neonatal Septic Shock. Critical Care Medicine, 45, 1061-1093. doi: 10.1097/CCM.00000000002425 2. Singer et al. (2016). The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). JAMA, 315(8), 801-810. doi: 10.1001/jama.2016.0287

Sources: