New Criteria for Sepsis

What EMS Needs To Know About Septic Shock
Sepsis

The body’s overwhelming and life-threatening response to infection which can lead to tissue damage, organ failure, and death.
Sepsis is common

For every 4 Heart Attack Patients cared for by EMS

10 Pts are hospitalized w/ Severe Sepsis
Sepsis is costly.

750,000 Cases annually at a cost of over $20 Billion in the US alone.

Increasing 11.9% Annually!
Sepsis is Deadly

Mortality from Sepsis is 25-30%

Septic Shock is 40-70%
What Goes Wrong?

Failure to identify Sepsis
Failure to call Sepsis Alert
What's the Goal?

Learn your ABC’s
Use Patient's CHART
Be a Patient Advocate
Proper identification of Sepsis decreased TTT 30-60 minutes and improved mortality
The Point

\[ \text{Infection} + \text{Bad Vitals} = \text{Sepsis} \]

\[ \text{Sepsis} + \text{Shock} = \text{Septic Shock} \]
Sepsis Progress

Acquired Infection Blood Vessel Problems
Complaint
History
Assessment
Red Flags
Treatment

CHART
CHART

Complaint

History

Assessment

Red Flags

Treatment
Sepsis

Acquired
Infection

Blood Vessel
Problems
Sepsis

Acquired Infection
Acquired Infection

Complaints

NOT an infection

Infection or sepsis related
Acquired Infection History

NOT an infection / sepsis related
Acquired Very Young and Very Old Recent Trauma or Surgery Recent Delivery Breaches of Skin: Burns, IVDA Indwelling Catheters Impaired Immunity Comorbidities
Sepsis

Acquired Infection Blood Vessel Problems
Blood Vessel Problems

Assessment

Mental Status

Shows clinical distress?
Blood Vessel Problems

Assessment

AMS

GCS <12 or Change >3

Rapid deterioration
Blood Vessel Problems

Assessment

Physical Exam Shows clinical distress?
Blood Vessel Problems

Assessment

Physical signs of infection

Non-blanching rash

Edema

Urine Out <1 ml/kg/hr
Blood Vessel Problems

Assessment

Vital Signs

Shows clinical distress?
Blood Vessel Problems Assessment

- Pulse Rate
- Blood Pressure
- Capillary Refill Time
- SpO2 <94%
- etCO2 <32
- MAP <65
- Temp High or Low
Complaint History Assessment Red Flags Treatment
The qSOFA
Quick Sequential (sepsis-related) Organ Failure Assessment

Hypotension
Sys. BP < 100 mm/hg

Altered Mental Status
GCS < 13

Tachypnea
RR > 22 min.

Two or more suggests a risk of poor outcome

H A T
Sepsis
Acquired Infection Blood Vessel Problems
Treatment

ABC’s
I Suspect Sepsis
Vitamin C is required to synthesize catecholamines

Vit. C 1.5g IV q6h
Hydrocortisone 50 MG IV q6h
Thiamine 200mg IV q12h
Sepsis

Acquired Infection Blood Vessel Problems
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What You Can Do!

Learn your ABC’s
Use Patient's CHART
Be a Patient Advocate
Be Heard
Spread the
Word
Recognized
Sepsis Kills!