

CONTINUUM OF SEPSIS

SIRS

Sepsis

Severe Sepsis

Septic Shock



-SIRS

-SIRS CRITERIA (≥ 2 of the ff)

.T $>38.5^{\circ}\text{C}$ or $<36^{\circ}\text{C}$

.Tachypnoea or need for mechanical ventilation

.Tachycardia or Bradycardia ($<1\text{yr}$)

.High or low WBC count or $>10\%$ band forms

CONTINUUM OF SEPSIS

SIRS

Sepsis

Severe sepsis

Septic Shock



SIRS with a presumed or confirmed infectious process

CONTINUUM OF SEPSIS

© SIRS Sepsis Severe Sepsis Septic Shock

Sepsis plus Organ Dysfunction

- Elevated Creatinine
- Elevated INR (DIC)
- Altered Mental Status (GCS <12)
- Elevated Lactate (>2)
- Hypotension that responds to fluid

CONTINUUM OF SEPSIS

© SIRS

Sepsis

Severe sepsis

Septic Shock

Severe Sepsis and Hypotension

- Hypotension that does NOT respond to fluid

WHERE WE ARE

NOW...?

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...SEPSIS 3



SOFA: WHAT IS IT?

- Sepsis-related Organ Failure Assessment Score, also known as Sequential Organ Failure Assessment Score
- It is based on 6 different scores, one each for the
 - Respiratory
 - Cardiovascular
 - Hepatic
 - Coagulation
 - Renal
 - Neurological

LIVER

Bilirubin (mg/dl) [μ mol/L]	SOFA Score
1.2 - 1.9 [>20 - 32]	1
2.0 - 5.9 [33 - 101]	2
6.0 - 11.9 [102 - 204]	3
> 12.0 [>204]	4

If bilirubin is less than 1.2, the score is 0

COAGULATION

Platelets $\times 10^3/\mu\text{L}$	SOFA Score
< 150	1
<100	2
<50	3
<20	4

If platelet is more than 150 then score is 0

6. Finally, all the controversy generated by the new definitions has brought attention to the sepsis field highlighting the need for further research and investments mainly in educational program and epidemiological studies in low and middle-income areas where there is a paucity of data and shortage of resources

RESULT:

7,754 ED patients with suspected infection were identified overall; 117 had no documented mental status evaluation, leaving 7,637 patients included in the analysis

MORTALITY FOR SEPSIS

	Overall	qSOFA score ≥ 2	SIRS
Mortality Rate(%)	4.4	14.2	6.8
Sensitivity(%)		52	83
Specificity (%)		86	50

MORTALITY FOR SEPTIC SHOCK

	qSOFA	SIRS
Mortality (%)	23	22
Sensitivity (%)	12	23
Specificity (%)	98.4	96.6