



XI congresso nazionale

simeu

ROMA 24-26 MAGGIO 2018

**L'ASSISTENZA ALLA PERSONA CON SEGNI E SINTOMI DI SESPI, QUANDO INIZIA LA
GOLDEN HOUR?**

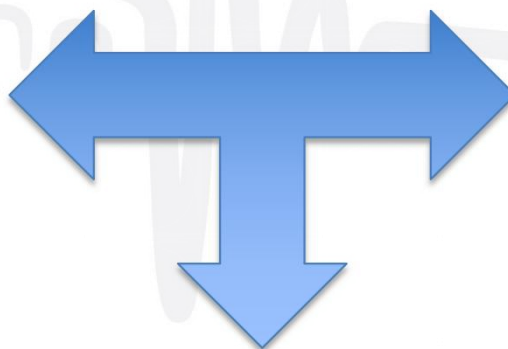
Silvia Musci, Irccs Auxologico Milano

Nuova triade **PATOLOGIA TEMPO DIPENDENTE:**

STEMI



STROKE



SEPSI

SIRS



INFECTION



SEPSIS

SIRS (SYSTEMIC INFLAMMATORY RESPONSE SYNDROME)

SIRS is defined as **two or more** of the following:

Temperature $< 36^{\circ}\text{C}$ or $> 38.3^{\circ}\text{C}$

Heart rate > 90 beats per minute

Respiration rate > 20 breaths per minute

Blood Glucose level $> 7.7\text{mmol/l}$
(If no diabetes mellitus)

An acutely altered mental state

White cell count < 4 or $> 12 \times 10^9/\text{l}$ (if known)

risultato di una sistemica
infiammazione del sistema
immune innato,
indipendentemente dalla causa



Red flag sepsis

In addition to the standard signs of organ dysfunction used in the definition of sepsis, the UK Sepsis Trust has recently introduced the concept of red flag sepsis. This introduces additional aspects to indicate that a patient is likely to be suffering from severe sepsis and requires aggressive treatment. Presence of one or more of the red flags can be suggestive of severe sepsis.

Respiratory rate > 25 breaths per minute

Heart rate > 130 beats per minute

Oxygen saturations $< 91\%$

Systolic blood pressure $< 90\text{mmHg}$

Responds only to voice, pain or is unresponsive



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Contents lists available at ScienceDirect

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation



Clinical paper

Opportunities for Emergency Medical Services care of sepsis[☆]

Henry E. Wang^{a,*}, Matthew D. Weaver^b, Nathan I. Shapiro^c, Donald M. Yealy^b

American Journal of Emergency Medicine (2012) 30, 51–56



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Original Contribution

The impact of emergency medical services on the ED care of severe sepsis[☆]

Jonathan R. Studnek PhD^{a,b}, Melanie R. Artho MD^a,
Craymon L. Garner Jr^a, Alan E. Jones MD^{a,*}

The
American Journal of
Emergency Medicine

www.elsevier.com/locate/ajem



Academic Emergency Medicine

Official Journal of the Society for Academic Emergency Medicine

Arriving by Emergency Medical Services Improves Time to Treatment Endpoints for Patients With Severe Sepsis or Septic Shock

Roger A. Band, MD, David F. Gaieski, MD, Julie H. Hylton, Frances S. Shofer, PhD,
Munish Goyal, MD, and Zachary F. Meisel, MD, MPH



Adult Sepsis Screening Tool

Assessment

1. Are any **two or more** of the following present?

Respiratory rate > 20 per minute (count & EtCO₂)
Temperature < 36°C or > 38.3°C
Heart rate > 90 per minute
New onset confusion/reduced consciousness levels
Glucose > 7.7 mmol/l

YES ↓

NO

Sepsis unlikely

Treat according to national clinical guidelines

2. Are there signs of infection?

Conduct a review of systems

Examples of common sources of sepsis:

Respiratory tract infection
Urinary tract infection
Abdominal pain or distention
Cellulitis/Septic arthritis
Infected wound

Consider high risk groups:

Cancer/AIDS/Chemotherapy
Immunocompromised
Steroid use

YES ↓

NO

Simple Sepsis present

» Consider need for conveyance
» If not conveyed ensure same day assessment by HCP via appropriate care pathway

3. Are **one or more** of the following red flags present?

Respiratory rate > 25 per minute
Heart rate > 130 per minute
Blood pressure < 90 mmHg
Oxygen saturation < 91%
Responds only to voice, pain or is unresponsive

NO

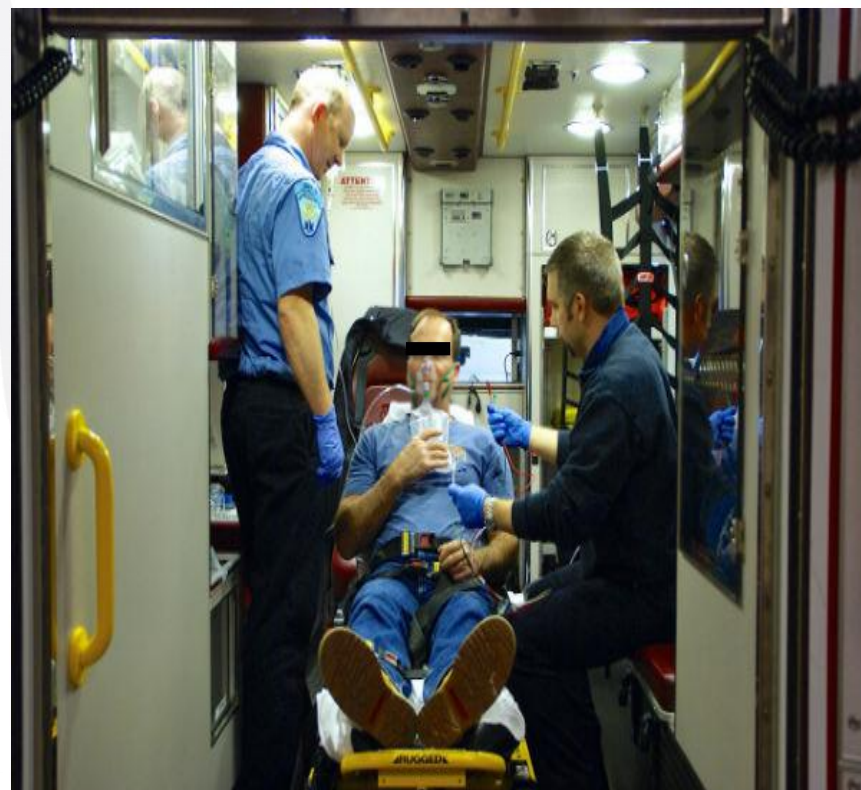
YES

Severe Sepsis present

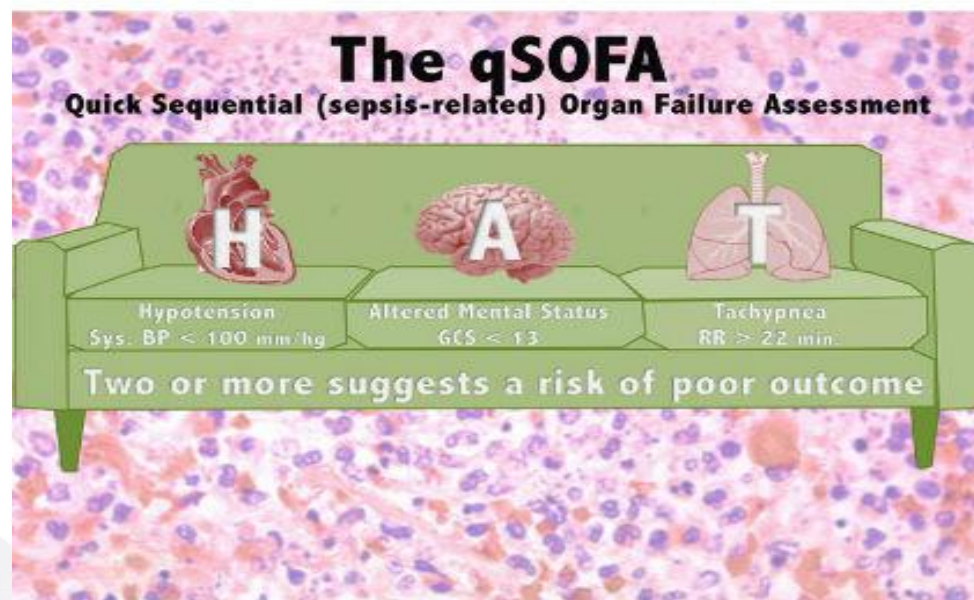
This is a time critical condition.

Start sepsis care bundle:

» High flow oxygen
» IV infusion of 1 litre 0.9% saline as per guidelines
» Pre-alert ED
» State "Severe Sepsis"
» Severe sepsis PRF code 105



IN TRIAGE il
Qsofa
ci aiuta nella
nostra corsa
contro il tempo



**EFFICACIA SE INTERVENTO
APPROPRIATO NELLA
PRIMA ORA!!**

LA PERSONA CON



Physiological Parameters	3	2	1	0	1	2	3
Respiration Rate (BPM)	≤8		9-11	12-20		21-24	≥25
Oxygen Saturations (%)	≤91	92-93	94-95	≥96			
Any Supplemental Oxygen		Yes		No			
Temperature (°C)	≤35		35.1-36.0	36.1-38.0	38.1-39.0	≥39.1	
Systolic Blood Pressure (mmHg)	≤90	19-100	101-110	111-219			≥220
Heart Rate (BPM)	≤40		41-50	51-90	91-110	111-130	≥131
Level of Consciousness				A			V, P or U

Severe sepsis is defined as sepsis with any sign of organ dysfunction, which can include any one or more of the following:

- Systolic blood pressure < 90mmHg or a decreased systolic > 40 mmHg from their norm
- Oxygen saturations < 91%
- Lactate > 2mmol/l
- New onset of confusion
- Decreased urine output

NEWS Scores	Clinical Risk
0 Aggregate 1 - 4	Low
RED Score* (Individual parameter scoring 3) Aggregate 5 - 6	Medium
Aggregate 7 or more	High

SEPSI SEVERA:
Sepsi + disfunzione d'organo

**Infezione
localizzata**

Febbre, aumento di FC e FR

**Risposta
sistemica**

**Disfunzione d'organo a distanza
dal sito di infezione**

Sepsi

**Ipotensione e
shock**

Shock Settico

Morte



60 Minutes to Save a Life

distinctive
medical

Toll-free: 0800 525 076
Email: info@distinctivemedical.com



- ✓ EVERY MINUTE COUNTS
- ✓ GOLDEN HOUR
- ✓ HIT HARD AND FAST

**SEPSI
CODE**

RICONOSCIMENTO
PRECOCE

TRASFERIMENTO
PRECOCE IN PS

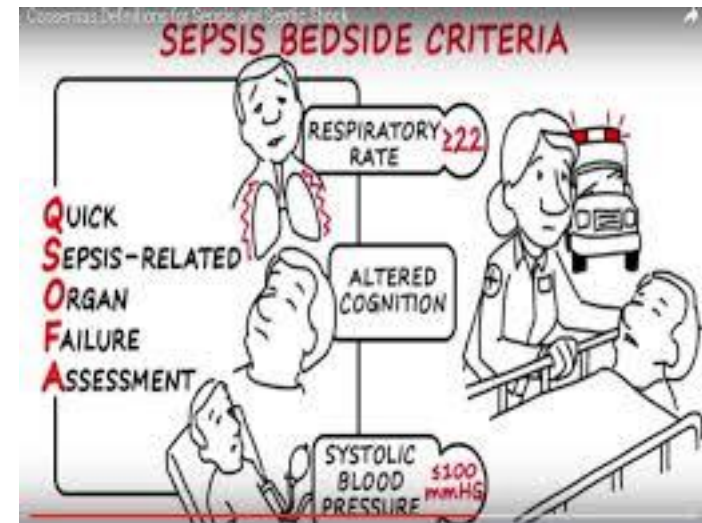
CODICE COLORE
PRECOCE

DIAGNOSI E CURA
PRECOCE



*LOTTIAMO TUTTI INSIEME
PER COMPRARE TEMPO,*

Grazie per l'attenzione



**Suspect
SEPSIS**

Save Lives