Title: techniques available to support physiological processes in life-threatening states

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• Anaphylactic shock
• Neurogenic shock
• Cardiogenic shock
• Septic shock

• Systemic inflammatory response syndrome (SIRS)

• SIRS response to wide variety of severe clinical insults, manifested by two or more of the following conditions:
  * Temperature > 38°C or < 36°C
  * Heart rate > 90 beats/min
  * Respiratory rate > 20 breaths/min pr PaCO2 < 32 mmHg
  * WBC count > 12,000/mm³ or < 4,000/mm³ or > 10% immature forms

Sepsis
The systemic inflammatory response to infection

Severe sepsis
Sepsis associated with organ dysfunction, hypoperfusion or hypotension

Septic shock
Defined as sepsis induced hypotension despite adequate fluid resuscitation along with the presence of perfusion abnormalities

Multiple Organ Dysfunction Syndrome
Presence of altered organ functions in an acutely ill patients such that homeostasis cannot be maintained without intervention

3. Monitoring and assessment of respiratory system
Volumetric assessment
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• Compliance: mechanical ventilation vs spontaneous breathing
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