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The course "Emergencies" focuses on recognizing and initially managing patients with acute



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Learning objectives

- To describe the physical and clinical signs that should be assessed in a critically ill patient
- To describe the clinical scores useful to identify a critically ill patient, including the National Early Warning Score (NEWS)
- To describe the basic principles of initial management and treatment of a critically ill patient

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Learning objectives

- To define shock and address its pathophysiology
- To describe the main determinants of the whole-body oxygen delivery
- To distinguish between different forms of shock: hypovolemic, cardiogenic, obstructive, distributive
- To describe the physical and clinical signs that should be assessed in a patient with shock
- To describe the basic principles of the initial management of a patient with shock

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Learning objectives

- To define and recognize a patient with acute respiratory failure
- To describe the physical and clinical signs that should be assessed in a patient with acute respiratory failure
- To describe the most common causes of acute respiratory failure

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Learning objectives

- To define sepsis and septic shock
- To describe the physical and clinical signs that should be assessed in a patient



- To describe the initial microbiological investigations that should be ordered in a patient with sepsis or septic shock
- To describe the basic principles of antimicrobial therapy in a patient with sepsis or septic shock

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Learning objectives

- To define and recognize cardiac arrest
- To describe the most common causes of cardiac arrest
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- Mild, moderate, and severe head injuries
- To explain the importance of limiting secondary brain injury

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Learning objectives

- Traumatic coagulopathy
- Coagulation tests
- Massive transfusion protocol

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Learning objectives

- Controlling major hemorrhage
- Containing contamination
- Applying temporary closure devices
- Returning to the operating room for re-exploration or definitive repair and closure

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Learning objectives

- Simulated cases on how to approach a trauma patient

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Interactive lectures, discussion of clinical cases, and simulated cases led by the teachers.

Students' competencies will be assessed through an oral discussion of clinical cases. The A-B-C-D-E approach will be the primary focus for the student's final evaluation. Students' general knowledge of appropriate diagnosis and therapy will also be evaluated.

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- All the material provided by the teachers, including their presentations and references
 - UpToDate: Evidence-Based Clinical Decision Support resource (uptodate.com)
 - Critical Care Physiology. Bartlett RH, University of Michigan Press, 2000.
 - The ICU survival book. Owens W, First Draught Press, 2022.