



# The Critical Role of Acute Care in Managing Life-Threatening Emergencies

Rosemary Kozar\*

Department of Acute Care Surgery, University of Pittsburgh, United States

## DESCRIPTION

Surgeons play a vital role in emergency care, often performing life-saving operations that can prevent further complications and save patients' lives. After initial stabilization and treatment, patients may need a transition to post-acute care. This phase involves rehabilitation, physical therapy, or other services aimed at promoting recovery and helping patients regain their independence. Acute care addresses a wide range of conditions. Some of the most common includes acute trauma refers to injuries sustained from external sources, such as car accidents, falls, or violence. These can result in serious internal bleeding, fractures, and head injuries. Prompt treatment is critical to prevent long-term disabilities or death. Acute cardiac conditions, such as heart attacks (myocardial infarctions) or arrhythmias, require immediate attention to restore normal blood flow and prevent further damage to the heart muscle. The use of thrombolytic therapy, angioplasty, or stent placement may be necessary for treatment. A stroke occurs when the blood supply to part of the brain is disrupted, leading to brain tissue damage. Acute care for strokes aims to restore blood flow as quickly as possible to prevent long-term neurological damage. Conditions like severe asthma attacks, pneumonia, or Chronic Obstructive Pulmonary Disease (COPD) exacerbations often require acute care to restore adequate oxygen levels and ensure stable breathing. Acute care is also crucial in managing severe infections, such as sepsis or meningitis, where immediate antimicrobial therapy, intravenous fluids, and other treatments are necessary to prevent organ failure and death. Complications in pregnancy, such as eclampsia or placenta previa, require urgent care to protect both the mother and the fetus. These may involve cesarean sections, blood transfusions, or other medical interventions. Conditions like seizures, spinal cord injuries, or severe headaches (such

as those caused by brain hemorrhages or aneurysms) require immediate assessment and intervention. Acute care involves a variety of practices and protocols designed to manage medical emergencies. Below are some of the key practices. Healthcare professionals use triage systems to prioritize patients based on the severity of their condition. In emergency departments, triage nurses assess the urgency of each patient's situation and direct them to the appropriate level of care. In many cases, acute care requires immediate procedures to stabilize patients. These may include cardiopulmonary resuscitation (CPR), intubation, hemorrhage control, or emergency surgery. Acute care relies heavily on technology, such as monitoring systems, imaging tools (X-rays, CT scans, MRIs), and medical devices (e.g., defibrillators, ventilators) to diagnose, monitor, and treat patients effectively. Acute care involves a team of healthcare professionals, including doctors, nurses, respiratory therapists, pharmacists, and social workers. Effective communication and collaboration among these team members are essential for optimal patient outcomes. Acute care practices are based on the latest scientific research and evidence. Healthcare providers continuously adapt their methods in response to new discoveries and clinical guidelines, ensuring that the treatment provided is based on the most current knowledge. Despite its importance, acute care faces several challenges, including many emergency departments struggle with overcrowding, especially during peak periods, such as flu season or following natural disasters. This can lead to delayed treatment, longer wait times, and decreased quality of care.

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## CONFLICT OF INTEREST

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**Corresponding author** Rosemary Kozar, Department of Acute Care Surgery, University of Pittsburgh, United States, E-mail: kozarmary@gmail.com

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