

Background

Simulation-based education offers Internal Medicine resident physicians a valuable opportunity to engage in high-stakes clinical scenarios involving critically ill patients. These simulations are instrumental in advancing professional competencies, particularly in leadership, team communication, and patient-centered care. By confronting complex medical conditions such as hemorrhagic shock, residents are challenged to integrate medical knowledge into clinical practice. This hands-on approach bridges the gap between theoretical learning and practical application, enhancing residents' ability to make sound clinical decisions under pressure.

Learning Objectives

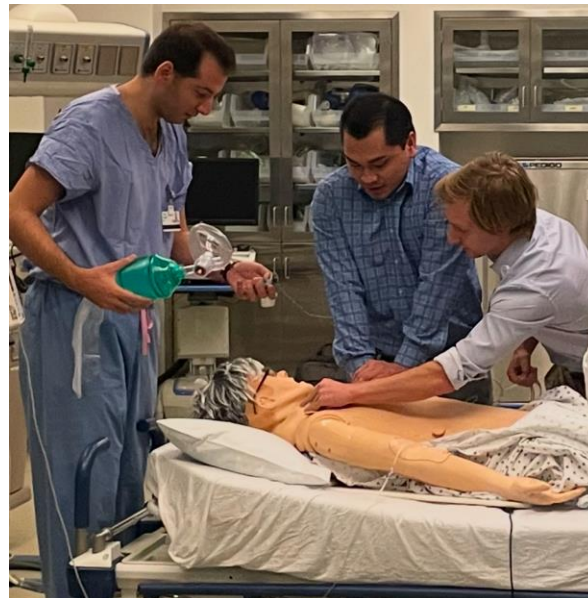
- **Shared Mental Model:** Facilitate team cohesion by effectively communicating thought processes to establish a unified understanding of patient conditions and treatment plans.
- **Role Assignment and Closed-Loop Communication:** Develop leadership skills by assigning roles clearly and practicing closed-loop communication to ensure effective and coordinated teamwork.
- **Patient and Family Communication:** Build empathy and communication proficiency by practicing difficult conversations, including delivering bad news.
- **Crisis Resource Management:** Cultivate situational awareness and resource utilization to manage complex medical crises effectively.

Dr. Oliverio: oliverm21@ccf.org
Dr. Persits: persiti@ccf.org

Course Description

Course Overview

This medical simulation course immerses internal medicine residents in high-stakes critical care scenarios designed to enhance their clinical decision-making, teamwork, and leadership skills in managing complex patient cases. The course begins with a **pre-briefing session**, during which the instructor outlines the learning objectives and expectations. A simulation operations specialist provides an orientation to the simulation space, including the technical components and the capabilities of the high-fidelity mannequin. Participants then form teams, with a third-year resident designated as the team leader to assign roles and coordinate the team. The simulation cases, which include challenging and dynamic scenarios such as septic shock or acute respiratory failure, unfold based on the learners' actions and are guided by the instructor's discretion. The experience concludes with a **debriefing session**, where participants analyze the case events, reflect on their clinical and team-based decisions, and identify areas for improvement in handling critical, real-world medical situations.



Resident Physicians Preparing for intubation of a critically ill patient

Outcomes

Simulation Effective Tool- Modified (SET-M)

I am more confident of my assessment skills.



I felt empowered to make clinical decisions.



I am more confident in my ability to teach patients about their illness and interventions.



I am more confident in my ability to report information to healthcare care teams.



I am more confident in providing interventions that foster patient safety.



Course Experience Feedback:

"I got to practice with the actual devices and supplies."

"I was able to participate as a team; and run the code."



Senior residents making critical decisions during massive GI Hemorrhage case

