

**Stanford University General Surgery Residency Program**  
**Surgical ICU goals and objectives for residents: R-1**  
**Rotation Director: David A. Spain, MD**

**Description**

The Surgical ICU rotation at Stanford Hospital offers a broad experience in the care of critically ill patients with surgical diseases and processes (trauma, general surgery, vascular, transplant, urology and plastics).

**Goals**

The goal of the Stanford Surgery ICU rotation is to introduce R1 residents to:

- Initial experience in the evaluation of critically ill surgical patients
- Procedural skills commonly required in the care of these patients

**Objectives**

The rotation has the following objectives:

- The R-1 resident functions as a member of the SICU team, assuming direct patient care responsibility of assigned patients under the supervision of senior residents, fellows and attendings
- The resident gains knowledge of surgical critical care through discussion on rounds with the attending physician and fellow and also by independent reading

R1 residents can expect daily teaching from members of the team, primarily at the bedside. A formal didactic session is held every Friday and informal sessions may be added. Because the resident team is paired with an attending for an entire week, feedback and teaching is individualized to the needs of the residents.

Residents are evaluated in the 6 core competencies (Medical Knowledge, Patient Care, Interpersonal Communication Skills, Professionalism, Practiced Based Learning and Systems Based Practice) using specific web-based evaluation forms. These are done as a group evaluation by the SICU attendings and fellows so that progress and incorporation of feedback over the course of the rotation can be assessed. An outline of core competencies with rotation objectives, instructional activities, and evaluations is below.

Specific goals and objectives for R-1 residents

GOALS Core Competencies	R-1 OBJECTIVES	INSTRUCTIONAL ACTIVITIES	EVALUATION
<p><b>Knowledge:</b> To acquire knowledge of established and evolving clinical sciences that relate to the practice of adult critical care</p>	<p>Knows and applies the clinical sciences appropriate to the practice of Critical Care such as physiology, pharmacology, and disease processes. Prioritizes patient's disease related states, issues and designs a care plan accordingly, anticipates potential complications and prevention.</p>	<p>Teaching by attending faculty and fellow</p> <p>Independent reading</p>	<p>Weekly feedback by attending, fellow and senior resident (R-3). Rotation evaluation by ICU attendings (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>
<p><b>Patient Care:</b> To provide compassionate and appropriate critical care of adults.</p>	<p>Adequate assessment of critically ill surgical patients including:</p> <ul style="list-style-type: none"> <li>• Physical exam and history</li> <li>• Evaluation of appropriate laboratory data</li> </ul> <p>Learn the basics of hemodynamic and ventilator management. Understand ventilator weaning and extubation Treat arrhythmias. Assess physiologic derangements such as shock, acute lung injury, sepsis, renal insufficiency and multiple organ failure. Observe resuscitation efforts of ICU patient.</p>	<p>Multiple daily ICU rounds with ICU attending and fellows</p>	<p>Weekly feedback by attending, fellow and senior resident (R-3). Rotation evaluation by ICU attendings (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>

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<p><b>Effective Interpersonal and Communication skills:</b> Residents must communicate in a way that leads to effective information exchange of a critical care plan to patients, their families, and professional associates.</p>	<p>Provide family members a routine update of patient's condition in SICU (when appropriate). Consults with senior resident, fellow or attending before discussing major changes with the family. Discusses appropriate concerns with perioperative team including SICU and consultants. Works effectively with ICU nurses to communicate care plan.</p>	<p>Daily instruction by fellow and attending.</p>	<p>Weekly feedback by attending, fellow and senior resident (R-3). Rotation evaluation by ICU attendings (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)  Feedback form ICU nurse</p>
<p><b>Practice based learning and improvement:</b> In order to improve patient care practices, residents must be able to critically evaluate their own performance as well as appraise and incorporate clinical scientific evidence.</p>	<p>Identify complications and their potential impact on recovery of critically ill patients. Use information technology to assimilate current medical literature. Learns attention to detail in critically ill patients</p>	<p>Teaching in the ICU by attending faculty and fellows.</p>	<p>Weekly feedback by attending and Rotation evaluation by each ICU attending (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>
<p><b>Professionalism:</b> Residents must show a commitment to professional responsibilities, adherence to ethical principles, and sensitivity to diversity.</p>	<p>Displays appropriate demeanor, even in adverse situations. Acts with sensitivity and responsiveness to patient's culture, age, gender, and disabilities. Maintains accountability to patients, medical profession, and society. Obtains proper consent and confirm advanced directives, if present. Becomes life long learner.</p>	<p>Modeling in ICU by attending faculty, fellows and R-3 resident.</p>	<p>Weekly feedback by attending and Rotation evaluation by each ICU attending (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)  Feedback form ICU nurse</p>

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<p><b>Systems-based Practice:</b> A resident must be able to demonstrate an awareness of the system of health care and the ability to effectively call on system resources to provide optimal care.</p>	<p>Learn to use ICU protocols to maintain quality of care. Understands how care for patients in the ICU enables the hospital to deliver a wide range of patient care.</p>	<p>Modeling in ICU by attending faculty, fellows and R-3 resident.</p>	<p>Weekly feedback by attending and Rotation evaluation by each ICU attending (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>