Goals:

Loma Linda University Medical Center will provide a learning environment for the care and management of the trauma patient. Surgical basic science, including fluids and electrolytes, wound healing and nutrition, will be emphasized. Clinically, residents will assess the trauma patient, develop clinical judgment on managing these issues, and learn operative skills to address the problem. Careful postoperative care and follow up will be emphasized. Residents will develop cognitive and technical skills in dealing with complex trauma patients.

Objectives:

Medical Knowledge

Become independent in the day-to-day management of surgical and trauma patients

Assist in the delegation of daily service duties such as surgery, rounds, clinic and consults to the junior resident staff

Perform and instruct junior residents on how to perform bedside surgical procedures such as central line and chest tube placement, drainage of superficial abscesses and wound debridements

Become competent at the management of the patient with an acute abdomen including preoperative assessment, resuscitation and operative exploration.

Detail the management principles of complex critically ill patients such as severe sepsis and multisystem organ failure.

Refine the ability to interpret radiographic findings, EKGs, laboratory data, and intravascular and intra-cranial monitoring systems.

Fundamentals of surgical nutrition including nutrition evaluation as well as routes of access, TPN, enteral nutrition, and nutritional supplements

Evaluate and institute management of abdominal wound problems.

Demonstrate proficiency in the closure of abdominal incisions and open wounds, including vacuum assisted closure systems and Whitman patch application and tightening.

Describe the approach and basic principles of the operative and non-operative approach to hepatic, splenic, duodenal, colon and rectal injuries.

Describe in detail the operative approach to the three retroperitoneal zones of injuries.

Outline the workup of a patient with penetrating neck trauma

Patient Care

Coordinate efficient transfer of the surgical and trauma patients from the emergency department to the operating room

Learn to interact professionally and productively with consulting physicians and communicating with those services.
Develop the skills necessary to lead the evaluation of a Trauma or acutely ill surgical patient in the emergency department setting.

Direct discharge planning in a timely fashion for recovering patients.

After completing a thorough history and physical examination, develop competent assessments and plans for patient care.

Develop a pm, in evaluation and interpretation of the different diagnostic modalities including: X-rays, ultrasounds, CT scans, Contrast studies and MRIs.

Discuss treatment options, risks and potential complications of patients with general surgical issues.

Become proficient in the primary surgeon role in the performance of general surgical and laparoscopic procedures.

Demonstrate skill in advanced surgical techniques, including:

- Gastrointestinal anastomosis, enterectomy, colectomy, ileostomy, colostomy, splenectomy, hepatorrhaphy
- Selection of appropriate prosthetic material, such as vascular access devices, mesh and vascular conduit
- Placement of gastrostomy and jejunostomy tubes via open and open approaches

Demonstrate knowledge in steps and conduct during major surgical procedures.

Have clear indications and know when it is appropriate to perform a surgical procedure.

Have an understanding of when it is not appropriate to operate.

Have a clear indication when to adopt non-operative management pathways for the trauma patient and know when to abandon the non-operative management pathway.

**Professionalism**

The resident should be receptive to feedback on performance, attentive to ethical issues and be involved in end-of-life discussions and decisions.

Understand the importance of honesty in the doctor-patient relationship and other medical interactions.

Treat each patient, regardless of social or other circumstances, with the same degree of respect you would afford to your own family members.

Learn how to participate in discussions and become an effective part of rounds, attending staff conference, etc.

Communicate effectively with consulting physicians and ancillary staff.

Complete all assigned patient care tasks for which you are responsible or provide complete sign out to the on-call resident.

Maintain a presentable appearance that sets the standard for the hospital this includes but is not limited to adequate hygiene and appropriate dress. Scrubs should be worn only when operating or while on call.

Assist with families of critically injured/ill patients and guidance of families towards or through difficult decisions.
Demonstrate mentoring and positive role-modelling skills

Take the leading role in directing the weekly educational conferences involving medical students and junior residents. This includes choosing appropriate peer reviewed articles and texts and arranging for films and presentations to be ready.

Provide an appropriate orientation and guide all medical students and junior residents as to their roles and responsibilities during the rotation.

**Systems-Based Practice**

Understand, review, and contribute to the refinement of clinical pathways

Understand the cost implications of medical decision-making

Partner with health care management to facilitate resource efficient utilization of the hospital resources.

Describe in general terms the benefits of clinical pathway implementation

Develop a cost-effective attitude toward patient management.

Make meaningful contributions to the multi-disciplinary approach to management of critically ill surgical patients.

Comply with the Health Insurance Portability and Accountability Act of 1996 (HIPAA) regulations regarding patient privacy and confidentiality

**Practice-Based Learning & Improvement**

Demonstrate the ability to:
- Evaluate published literature in critically acclaimed journals and texts
- Apply clinical trials data to patient management
- Participate in academic and clinical discussions

Accept responsibility for all dimensions of routine patient management on the wards

Apply knowledge of scientific data and best practices to the care of the surgical patient

Facilitate learning of medical students and physician assistant students on the team

Use the LLUMC library and databases on on-line resources to obtain up to date information and review recent advances in the care of the surgical patient

Demonstrate a consistent pattern of responsible patient care and application of new knowledge to patient management.

Demonstrate a command and facility with on line educational tools.

**Interpersonal & Communication Skills**

Work as effective team members
Cultivate a culture of mutual respect with members of nursing and support staff

Develop patterns of frequent and accurate communication with team members and attending staff

Gain an appreciation for both verbal and non-verbal communication from patients and staff

Demonstrate consistent respectful interactions with members of nursing and support staff

Demonstrate consistent, accurate and timely communication with members of the surgical team

Demonstrate sensitivity and thoughtfulness to patients concerns, and anxieties.

The resident will demonstrate the ability to provide and request appropriate consultation from other medical specialists.