[Chief Night Float – (6pm-6am Sun-Thurs) Covers Trauma Alerts. Oversight of all nighttime junior house officers I emergency situations until appropriate senior staff arrive from home. Direct responsibility for Trauma and General Surgery Admissions/Consults.]

Medical Knowledge: Demonstrates knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences; applies this knowledge to patient care; demonstrates an investigatory and analytic thinking approach to clinical situations; and demonstrates a commitment to lifelong learning.

Knowledge:
- Demonstrate ability to provide timely surgical assessment and operative management of the patient with an acute general surgical problem.
- Demonstrate ability to formulate and implement a diagnostic and treatment plan critically ill patients.
- Coordinate multi-disciplinary care of the trauma and/or critical care patient.
- Exhibit extensive knowledge in surgical infections, complications of acute surgical disease, and complex surgical management.
- Demonstrate familiarity with surgical literature and extensive areas of trauma and critical care.
- Must relate basic medical knowledge to patient care. Residents must critically evaluate and demonstrate knowledge of pertinent scientific information.
- Exhibit knowledge base sufficient to teach junior level residents and students on the service.
- Demonstrate surgical competence by the use of significant surgical knowledge and advanced skill to achieve a performance that produces appropriate and anticipated outcomes.
- Demonstrate the capacity to integrate surgical continuity of care principles into the total care plan for trauma and critically ill patients.
- Through leadership and teaching, demonstrate understanding of the significance of the natural history of surgical disease, the consequence of surgical care (both positive and negative), and the influence of continuity of care upon surgical outcomes.
- Exhibit the capability to integrate surgical continuity of care principles into the total care plan for trauma and critically ill patients.
- Incorporate the knowledge of ethical, legal, economic, and/or social factors into the activities of the entire trauma and/or critical care team for all components of patient care.
- Distinguish between the major characteristics of septic shock and hypovolemic shock
- Explain the concepts of tissue oxygen supply and demand
- Exhibit knowledge and use of sepsis severity scores.
- Demonstrate ability to evaluate and treat various bleeding disorders.
- Demonstrate ability to care for and manage hepatic and renal failure patients.
- Demonstrate knowledge of specific therapy for endocrine-related problems associated with critical care.

Patient Care: Demonstrate patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Compassionate Patient Care:
- Demonstrates caring and respectful behaviors when interacting with patients and/or their families.
- Incorporates the patient preferences in making decisions about diagnostic and therapeutic interventions.
- Develops and executes patient care plans appropriate for chief resident in triage of trauma patients and critically ill patients in the STICU.

Appropriate Patient Care:
- Gathers essential and accurate information about patients.
- Makes timely decisions regarding appropriate triage of patients on trauma.
- Evaluates critically ill patients with complex surgical indications and presents a differential diagnosis.
- Compare laparoscopic versus open procedures for each case.
- Makes informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.
- Develops, coordinates with services, and carries out patient management plans for trauma and critically ill patients.
- Demonstrate knowledge of the indications and contraindications for various medications used in the preparation and performance of procedures.
- Coordinate the overall care of patients for the team of residents and students.
- Discuss with patient/family operative risk in an emergent operative scenario.
- Discuss with patient/family end of life issues in the setting of futile care.
- Discuss the value of an interdisciplinary approach to health care for the critically ill and trauma patient.

Effective Treatment and Health Promotion:
- Performs competently all essential medical and invasive procedures.
- Provides health care services aimed at preventing health problems and maintaining health.
- Coordinates with health care professionals, including those from other disciplines, care of the critically ill patient so as to provide Patient-focused care.
- Demonstrate ability to appreciate a patient with an acute abdomen.
- Coordinate the work-up and perform an exploratory laparotomy with a plan to handle any possible abdominal catastrophe.

Technical Skills in Patient Care:
- Demonstrates knowledge, psychomotor skills and judgment related to his/her role on the trauma service and in the STICU.
- Demonstrates manual dexterity appropriate for PGY-4/5.
- Arrives for trauma prepared for the cognitive components of his/her role taking care of the trauma patient.
- Demonstrates the ability to proceed through various steps of caring for the trauma and/or critically ill patient in a manner that is consistent with the flow of the operation.
- Demonstrates the ability to make appropriate and timely decisions with respect to the operative procedure.
- Exhibit necessary skills to give a medical opinion to another surgical or non-surgical colleague about a patient.
- Demonstrate competence in the most complex surgical cases
- Demonstrates an understanding of the benefits and limitations of operative surgical techniques.
- Assist attending staff with complex surgical procedures.

Practice-Based Learning and Improvement:  Investigates and evaluates patient care practices, appraises and assimilates scientific evidence, and improves his/her patient care practices.

Investigates And Evaluates Patient Care Practices:
- Analyzes practice experience using a systematic methodology.
- Obtains and uses information about their population of patients and the larger population from which patients are drawn.

Appraises and Assimilates Scientific Evidence Relevant To Patient Care:
- Locates, appraises, and assimilates evidence from scientific studies related to their Patients' health problems.
- Applies knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.
- Performs practice-based improvement activities using a systematic methodology.
• Uses information technology to manage information, access on-line medical information; and support his/her own education.
• Facilitates the learning of junior level residents.
• Exhibit and recognize the importance of lifelong learning in surgical practice.

Improves Patient Care Practices:
• Demonstrates the ability to analyze personal practice outcomes to improve patient care.
• Performs practice-based improvement activities using a systematic methodology.
• Uses information technology to manage information, access on-line medical information; and support his/her own education.
• Facilitates the learning of junior level residents.

Interpersonal and Communication Skills: Demonstrate interpersonal and communication skills that result in effective information exchange and collaboration with patients, their families, and other health professionals.
• Demonstrates skill and sensitivity for appropriate counseling and educating patients and their families in a variety of trauma and critical care situations.
• Creates and sustains therapeutic and ethically sound relationships with patients and families.
• Works effectively with others as a leader of the health care team and/or other professional groups.
• Effectively and promptly documents practice activities.
• Presents all patients and conference material in a concise, organized, chronologic, logical and knowledgeable manner.
• Utilizes input from all collaborative interactions with all personnel contributing to the surgical patient care.
• Exhibits trauma team leadership.
• Contribute via effective teaching and example to the educational efforts of the surgical residency.
• Evaluates the performance and competence of all members of the surgical residency team.

Professionalism: Demonstrate a commitment to carrying out professional responsibilities; adhere to ethical principles, and sensitivity to a diverse patient population.

• Demonstrates respect, compassion and integrity; a responsiveness to the needs of patients and society that supercedes self-interest; accountability to patients, society and the profession; and a commitment to excellence and on-going professional development.
• Demonstrates a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.
• Demonstrates sensitivity and responsiveness to patients' culture, age, gender, and disabilities.
• Exhibits professionalism through timely completion of required administrative responsibilities (evaluations, recording hours, chart documentation, medical record dictations, etc.).
• Maintain positive relationships.
• Demonstrate accountability for actions and decisions.

Systems-Based Practice: Demonstrates an awareness of and responsiveness to the larger context and system of health care and effectively calls on system resources to provide care that is of optimal value.

Awareness and Responsiveness to the Health Care System:
• Understands how patient care and other professional practices affect other health care professionals, the health care organization, and the larger society. Understand how these elements of the system affect their own practice.
• Knows how types of medical practice and delivery systems differ from one another, including methods and controlling health care costs and allocating resources.
Utilization of System Resources:

- Practices cost-effective health care and resource allocation that does not compromise quality of care for the trauma patient and/or critically ill.
- Advocates for quality patient care and assist patients in dealing with system complexities.
- Partner with health care managers and health care providers to assess, coordinate, and improve health care and understands how these activities can affect system performance.

Procedure Benchmarks: **Residents at the PGY-5 must be able to diagnose and manage the trauma patient and critically ill patients. PGY-5 resident must demonstrate the ability to appropriately diagnose and treat patients with interrelated system disorders in the ICU and Trauma unit.**

- Take junior resident through an appropriate level care (i.e., appendectomy/Cholecystectomy)
- Manage severe necrotizing pancreatitis – operative and STICU
- Manage severe necrotizing soft tissue infections – operative and STICU.
- Perform emergency/urgent laparotomy for gastric, small bowel or colonic disease (i.e. acute diverticulitis).
- Perform exploration either laparoscopic or open for blunt and penetrating abdomen injury
- Perform emergency thoracotomy
- Coordinate the work-up and perform an exploratory laparotomy with a plan to handle any possible abdominal catastrophe.

Assessment: **Residents will be assessed throughout the program. The results will be utilized to improve resident performance. Residents will be evaluated on competence in patient care, medical knowledge, practice-based learning and improvement, interpersonal and communication skills, professionalism, and systems based practices. The process of using assessment results to achieve progressive improvement in residents’ competence and performance, and direct experience for progressive responsibilities for patient management.**

1) PATIENT CARE
   a) Weekly basic science conference
   b) New Innovations evaluations by Faculty (including mid-rotation feedback sessions)

2) MEDICAL KNOWLEDGE
   a) Annual ABSITE
   b) Written evaluation by faculty (including mid-rotation feedback sessions)
   c) Faculty evaluation weekly trauma surgery conference
   d) Mock Oral Exams

3) PRACTICE-BASED LEARNING
   a) Faculty evaluation
   b) Weekly D and C
   c) Weekly Attending Rounds

4) PROFESSIONALISM
   a) 360 evaluations
   b) By Faculty (including mid-rotation feedback sessions)
   c) By other resident staff members

5) INTERPERSONAL RELATIONSHIPS & COMMUNICATION
   a) 360 evaluations
   b) By Faculty (including mid-rotation feedback sessions)
6) SYSTEMS-BASED PRACTICE
   a) Combined emergency medicine, trauma surgery death and complication conference
   b) Department of Surgery D and C
[Night Float (6pm-6am Sun-Thurs) covers Trauma Alerts and Covers new Trauma Surgery Consults from the ER].

**Medical Knowledge:** Demonstrates knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences; applies this knowledge to patient care; demonstrates an investigatory and analytic thinking approach to clinical situations; and demonstrates a commitment to lifelong learning.

**Knowledge:**
- Demonstrate ability to provide timely surgical assessment and operative management of the patient with an acute general surgical problem.
- Demonstrate ability to formulate and implement a diagnostic and treatment plan critically ill patients.
- Coordinate multi-disciplinary care of the trauma and/or critical care patient.
- Exhibit extensive knowledge in surgical infections, complications of acute surgical disease, and complex surgical management.
- Demonstrate familiarity with surgical literature and extensive areas of trauma and critical care.
- Must relate basic medical knowledge to patient care. Residents must critically evaluate and demonstrate knowledge of pertinent scientific information.
- Demonstrate surgical competence by the use of significant surgical knowledge and advanced skill to achieve a performance that produces appropriate and anticipated outcomes.
- Demonstrate the capacity to integrate surgical continuity of care principles into the total care plan for trauma and critically ill patients.
- Demonstrate understanding of the significance of the natural history of surgical disease, the consequence of surgical care (both positive and negative), and the influence of continuity of care upon surgical outcomes.
- Exhibit the capability to integrate surgical continuity of care principles into the total care plan for trauma and critically ill patients.
- Incorporate the knowledge of ethical, legal, economic, and/or social factors into the activities of the entire trauma and/or critical care team for all components of patient care.
- Exhibit knowledge and use of sepsis severity scores.
- Demonstrate ability to evaluate and treat various bleeding disorders.
- Demonstrate ability to care for and manage hepatic and renal failure patients.
- Demonstrate knowledge of specific therapy for endocrine-related problems associated with critical care.

**Patient Care:** Demonstrate patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

**Compassionate Patient Care:**
- Demonstrates caring and respectful behaviors when interacting with patients and/or their families.
- Incorporates the patient preferences in making decisions about diagnostic and therapeutic interventions.
- Develops and executes patient care plans appropriate for PGY-3 resident in triage of trauma patients and critically ill patients in the STICU.

**Appropriate Patient Care:**
- Gathers essential and accurate information about patients.
- Makes timely decisions regarding appropriate triage of patients on trauma.
- Evaluates critically ill patients with complex surgical indications and presents a differential diagnosis.
- Compare laparoscopic versus open procedures for each case.
• Makes informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.
• Develops, coordinates with services, and carries out patient management plans for trauma and critically ill patients.
• Demonstrate knowledge of the indications and contraindications for various medications used in the preparation and performance of procedures.
• Coordinate with upper level resident on the service the overall care of patients for the team of residents and students.
• Discuss the value of an interdisciplinary approach to health care for the critically ill and trauma patient.

Effective Treatment and Health Promotion:
• Performs competently all essential medical and invasive procedures for the PGY-3 level resident.
• Provides health care services aimed at preventing health problems and maintaining health.
• Coordinates with upper level residents and with health care professionals, including those from other disciplines, care of the critically ill patient so as to provide Patient-focused care.
• Demonstrate ability to appreciate a patient with an acute abdomen.
• Coordinate and perform an exploratory laparotomy with a plan to handle any possible abdominal catastrophe.

Technical Skills in Patient Care:
• Demonstrates knowledge, psychomotor skills and judgment related to his/her role on the trauma service and in the STICU.
• Demonstrates manual dexterity appropriate for PGY-3.
• Arrives for trauma prepared for the cognitive components of his/her role taking care of the trauma patient.
• Demonstrates the ability to proceed through various steps of caring for the trauma and/or critically ill patient in a manner that is consistent with the flow of the operation.
• Demonstrates the ability to make appropriate and timely decisions with respect to the operative procedure.
• Exhibit necessary skills to give a medical opinion to another surgical or non-surgical colleague about a patient.
• Demonstrates an understanding of the benefits and limitations of operative surgical techniques.
• Assist attending staff with complex surgical procedures.
• Discuss with patient/family operative risk in an emergent operative scenario.
• Discuss with patient/family end of life issues in the setting of futile care.

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- Creates and sustains therapeutic and ethically sound relationships with patients and families.
- Works effectively with others as a leader of the health care team and/or other professional groups.
- Effectively and promptly documents practice activities.
- Preserves all conferences and conference material in a concise, organized, chronological, logical and knowledgeable manner.
- Utilizes input from all collaborative interactions with all personnel contributing to the surgical patient care.
- Exhibits leadership for the Night Float Team.
- Contributes via effective teaching and example to the educational efforts of the surgical residency.
- Evaluates the performance and competence of all members of the surgical residency team.

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Procedure Benchmarks: Residents at the PGY-3 must be able to diagnose and manage the trauma patient and critically ill patients. PGY-3 resident must demonstrate the ability to appropriately diagnose and treat patients with interrelated system disorders in the ICU and Trauma unit.

• Take first year resident through an appropriate level case (i.e., appendectomy/cholecystectomy).
• Manage severe necrotizing pancreatitis – operative and STICU.
• Manage severe necrotizing soft tissue infections – operative and STICU.
• Perform emergency/urgent abdominal celiotomy for gastric, small bowel or colonic disease (i.e. acute diverticulitis) under supervision
• Perform emergency laparotomy or laparoscopy for blunt or penetrating abdominal injuries with supervision

Assessment: Residents will be assessed throughout the program. The results will be utilized to improve resident performance. Residents will be evaluated on competence in patient care, medical knowledge, practice-based learning and improvement, interpersonal and communication skills, professionalism, and systems based practices. The process of using assessment results to achieve progressive improvement in residents’ competence and performance, and direct experience for progressive responsibilities for patient management.

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