

Legacy Emanuel Hospital Trauma Service Rotations 2/18/11

SICU/Trauma

PGY2

Goals and Objectives

Patient Care:

The resident will demonstrate the ability to:

- Perform appropriate comprehensive or directed histories and physical examinations in the critically ill and/or injured patient.
- Establish diagnostic and therapeutic priorities for individual critically ill patients.
- Perform and/or assist in performing the following procedures:
 - Central Venous Line placement
 - Arterial Line placement
 - Pulmonary Artery Catheterization
 - Tracheostomy
 - Percutaneous Endoscopic Gastrostomy
 - Flexible Bronchoscopy
 - Level appropriate General Surgical Procedures performed on the Trauma Service such as but not limited to:
 - Incision and Drainage of soft tissue abscesses
 - Appendectomy
 - Cholecystectomy

Medical Knowledge:

The resident will demonstrate development of their understanding of

- Indications for and interpretation of invasive hemodynamic monitoring
- Basics of evaluation and resuscitation for the various forms of shock, including the characteristics and use of vasoactive medications
- Basics of airway management
- Assessment and management of respiratory insufficiency to include
 - Indications for noninvasive ventilation
 - Indications for invasive mechanical ventilation and use of basic ventilator modalities and weaning techniques
 - Essential characteristics of advanced respiratory support: VDR, APRV, PC-IRV, Prone, and ECMO
- Essentials of nutritional support of the critically ill: assessment, indications for enteral/parenteral support, evaluation, specialized formulations (renal, hepatic, immune modulating)
- Essentials of assessment and management of pain, agitation, delirium.
- Diagnosis and management of infections in critically ill patients
- Essentials of prophylaxis and management of venous thromboembolism
- Essentials of renal assessment and support
- Indications for and interpretation of invasive neurologic monitoring
- Essentials of the evaluation and management of the multiply injured patient
- Essentials of diagnosis and management of abdominal compartment syndrome

Practice-Based Learning and Improvement:

The resident will demonstrate the ability to investigate and evaluate her/his care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and life-long learning. The resident is expected to develop skills and habits to be able to meet the following goals:

- To identify one's own strengths, deficiencies, and limits in knowledge and expertise
- To set learning and improvement goals
- To identify and utilize appropriate learning resources to include textbooks, original journal articles, and on line resources such as PubMed, UptoDate, and WebMD
- To identify and perform appropriate learning activities
- To systematically analyze practice using quality improvement methods and implement changes with the goal of practice improvement
- To seek out and act on formative evaluation in daily practice

Interpersonal and Communication Skills:

The resident will demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families and health professionals. The resident will demonstrate the ability to:

- Communicate effectively with attending physicians, fellow residents and consulting services
- Communicate effectively with patients and their families as appropriate, and with appropriate supervision
- Work as an effective member of the critical care team, communicating clearly with all other members
- Perform accurate, timely and accurate documentation in the medical record

Professionalism:

The resident will demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. The resident is expected to:

- Demonstrate compassion, integrity, and respect for others
- Demonstrate responsiveness to patient needs that supersedes self-interest
- Demonstrate respect for patient privacy and autonomy
- Demonstrate accountability to patients, society and the profession
- Demonstrate sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities and sexual orientation

System-Based Practice:

The resident will demonstrate awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. The resident is expected to:

- Work effectively within the Legacy Health System and the Oregon Trauma System
- Demonstrate awareness of cost and benefit analysis in the care of injured patients
- Advocate for quality patient care and optimal patient care systems
- Strive to enhance patient safety through participation in quality care initiatives
- Participate in identification of system errors and potential solutions
- Participate in the quality program through participation and presentations in Trauma Admissions Conference

Trauma

PGY3/4

Goals and Objectives

Patient Care:

The resident will demonstrate the ability to:

- Evaluate, triage and treat newly injured patients to include those with single system injuries as well as those with complex, multiple injuries and co-morbidities
- Perform comprehensive and directed histories and physical examinations of critically ill and injured patients
- Establish diagnostic and therapeutic priorities for individual critically ill patients, and prioritize the issues of multiple patients
- Assess and manage with appropriate supervision:
 - Pain and sedation
 - Hemodynamic abnormalities and cardiac dysrhythmias
 - Respiratory insufficiency, including the use of advanced ventilator modalities
 - Nutritional support
 - Renal insufficiency
 - Infections
- Perform and instruct junior residents and mid-levels in the performance of
 - Central Venous Lines
 - Arterial Lines
 - Pulmonary Artery Catheterization
 - Tube Thoracostomy
 - Flexible Bronchoscopy
- Perform and assist in performance of
 - Basic and advanced airway interventions
 - Trauma Laparotomy to include evaluation and management of injuries of the spleen, liver, small and large bowel, stomach, diaphragm, vasculature, kidneys, bladder, pancreas, biliary tract and duodenum
 - Trauma and Resuscitative Thoracotomy/Sternotomy to include resuscitation from arrest/near arrest from penetrating and/or appropriate blunt injuries, evaluation and management of injuries of the lung, heart, esophagus, and vasculature
 - Exploration and management of penetrating injuries of the neck
 - Wound care including excisions, debridements, and split thickness skin grafts
 - Serial “wash-outs” for abdominal sepsis
 - Management of abdominal compartment syndrome including temporary abdominal closure
 - Management of flail chest/rib fractures to include open reduction and internal fixation
 - Level appropriate General Surgical Procedures performed on the Trauma Service including but not limited to:
 - Colectomy, e.g. diverticulitis
 - Exploration, enterolysis and/or resection for bowel obstruction
 - Thoracotomy/VATS for empyema
 - Cholecystectomy
 - Appendectomy
 - Surgical management of simple and complex soft tissue infections

Medical Knowledge:

The resident will demonstrate development of their understanding of

- Evaluation and management of the multiply injured patient
- Indications for and interpretation of invasive hemodynamic monitoring
- Evaluation and resuscitation for the various forms of shock, including the characteristics and use of vasoactive medications
- Advanced airway management
- Assessment and management of respiratory insufficiency to include
 - Indications for and management of noninvasive ventilation
 - Indications for and management of invasive mechanical ventilation to include advanced techniques of support including VDR, APRV, PC-IRV, Proning and ECMO
- Nutritional support of the critically ill: assessment, indications for enteral/parenteral support, evaluation, specialized formulations (renal, hepatic, immune modulating)
- Assessment and management of pain, agitation, delirium.
- Diagnosis and management of infections in critically ill patients
- Prophylaxis and management of venous thromboembolism
- Renal assessment and support
- Indications for and interpretation of invasive neurologic monitoring
- Diagnosis and management of abdominal compartment syndrome
- Pathophysiology, Evaluation and Management of injuries of
 - Brain and Spinal Cord
 - Pulmonary contusion and respiratory insufficiency
 - Heart and great vessels
 - Thoracic cage
 - Diaphragm
 - Intestinal tract
 - Pancreas and biliary tract
 - Liver
 - Spleen
 - Kidneys
 - Vasculature
 - Extremities and pelvis
 - Genitourinary system

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- Participate in identification of system errors and potential solutions
- Participate in the quality program through participation and presentations in Trauma Admissions and Morbidity and Mortality Conference