



## **Educational Goals and Objectives for Rotations on: Medical Intensive Care Unit 1**

### **Educational Goal: Residents assigned to Critical Care rotations will**

- Show progressive ability to acutely manage the critically ill patient and be able upon graduation, to care for a critically ill patient for at least 24 hours as a hospitalist
- Senior residents (PGY 2 and PGY 3) will be effective supervisors of R1s in evaluation and management of patient care needs
- This chart details the minimum curricular goals for each year of residency

### **Patient Care: History Taking**

- PGY-1 Demonstrates the ability to obtain and document an accurate and complete history from patient, caretaker or outside resources with moderate input from faculty
- PGY-2 Demonstrates the ability to obtain and document an accurate and complete history from patient, caretaker or outside resources with occasional input from faculty
- PGY-3 Demonstrates the ability to obtain and document an accurate and complete history from patient, caretaker or outside resources independently

### **Patient Care: Physical Exam**

- PGY-1 Identifies major abnormalities in the physical exam, including exams in patients with altered consciousness with intense input from faculty
- PGY-2 Identifies major and subtle abnormalities in the physical exam with moderate input from faculty
- PGY-3 Independently carries out an accurate physical examination

### **Patient care: Medical Decision Making**

- PGY-1 Reliably recognizes critical illness and appropriately seeks assistance.
- Writes progress notes that identify important data and demonstrate thoughtful problem based assessment and plan.
- PGY-2 Reliably recognizes critical illness and can independently initiate management strategies. Ongoing management goals are correcting with moderate faculty input.
- PGY-3 Reliably recognizes critical illness and can independently initiate emergent and ongoing management strategies with minimal faculty input.
- Evaluation Methods:
  - Direct Observation during Bedside care of the patient (Mini Cex)



- Direct observation during presentations at multidisciplinary rounds (Mini Cex),
- Review of notes in EPIC EMR, End of rotation global assessment tool.

### **Patient Care: Procedural skills**

#### **PGY-1:**

- Masters the cognitive, counseling and technical skills for
  - Central line placement in at least one site (Internal Jugular, Subclavian, or Femoral)
  - Arterial line placement
  - Nasogastric tube placement.
  - ACLS and BLS
  - Initiation of ventilator management
- Interprets:
  - Blood Gases
  - CXR for evidence of pneumonia, and evaluation of Endotracheal and Central lines
  - Spinal Tap for evidence of meningitis
  - Pleural Fluid for evidence of complicated effusion and or empyema
  - Bronchoalveolar (BAL) sample differential
- Understands the indications for:
  - Lung Biopsy
  - Chest Tube in complicated lung infections
  - Emergent lung infections; Documents Appropriately

#### **PGY-2**

- Begins to demonstrate the cognitive, counseling and technical skills necessary for:
  - Endotracheal intubation
- Masters the cognitive, counseling and technical skills necessary for:
  - Central line placement in Internal Jugular, Subclavian, or Femoral
  - Lumbar puncture
  - Thoracentesis
  - Leading a rapid response and code blue teams
  - Management of ventilators
- Interprets:
  - Echo for pericardial effusion, left ventricular dysfunction, IVC variability to assess volume status
  - CT of chest, abdomen, pelvis and head for abnormality
- Achieves increasing independence in all procedures. Teach other procedures for which they have been signed off on.
- Evaluation methods: ABIM Procedure Log Completion followed by upload into Residency Management System

### **Patient Care: Consultation Process**

- PGY-1 Uses relevant questions to obtain consultation and follows up on recommendations.



- PGY-2 Coordinates consultation recommendations with medical team care.
- PGY-3 Critically analyses consultant recommendations and manages conflicting opinions.
- Evaluation Methods: End of Rotation Global Assessment.

### **Medical Knowledge:**

#### PGY-1

- Applies relevant clinical and basic science knowledge in the following common critical care conditions:
  - Acute respiratory failure secondary to obstructive lung disease, pulmonary infections, including tuberculosis and bacterial pneumonia, acute lung injury and ARDS, occupational and environmental lung disease, and iatrogenic respiratory diseases
  - Acute and severe organ failure, including renal, hepatic and coagulation failure
  - Sepsis, septic shock and multi-organ failure.
  - Severe electrolyte and endocrinologic disturbances/emergencies
  - Drug and alcohol overdose.
  - Severe gastrointestinal hemorrhage, upper and lower tract
  - Complications of HIV infection

#### PGY-2

- Demonstrates a progression in content knowledge and analytical thinking with well formulated differential diagnoses and management plans.

#### PGY-3

- Understanding and application of medical literature related to common medical conditions.
- Evaluation Methods:
  - Resident and Attending Review of Written Documentation, End of Rotation Global Assessment Tool
  - Interpersonal Skills and Communication

#### PGY-1

- Effectively establishes rapport with patients and families and initiates communication with them on a regular basis.
- Presents on rounds in an organized and articulate fashion.
- Appropriately communicates with other MICU professionals.
- Functions as an effective team member.
- Demonstrates solid fundamental communications skills in areas such as data gathering, building rapport (communicating with empathy skills), educating using heart – head – heart model, educates using culturally sensitive methods and utilizing teach back.
- Negotiating simple decisions with families.

#### PGY-2



- Effectively carries out difficult patient and family discussions, such as end of life care decisions with moderate faculty input.
- Provides teaching and feedback to more junior team members on their communication styles.
- Functions as an effective team leader.
- Demonstrates skills in giving bad news, determining the goals of care for patients who are not doing well, taking about resuscitation preferences, conducting a family meeting with the attending present, navigating conflicts with families inconsistently well.

PGY-3 Able to deal with the most challenging patients and families.

- Coordinates team communication to optimize patient care.
- Functions as an effective team leader.
- Demonstrates mastery of the PGY 1 and PGY 2 communication skills but not acts as a leader in teaching and coaching junior residents and students.
- Demonstrates ability to discuss foregoing life-sustaining treatment and the dying process with families and patients.
- Evaluation Methods:
  - Mini Cex
  - End of Rotation Global Assessment Tool

### Practice Based Learning and Improvement

PGY-1

- Effective and efficient pre-rounding.
- Seeks and accepts feedback from team about patient care, organization and presentations.
- Learns basic EBM principles, article review and interpretation.
- Understands limits of own knowledge, and seeks help.
- Reviews autopsies (if done) to understand illness and care of critically ill pts.
- Demonstrates improvement in clinical management by continual improvement over all Ward months.
- Facilitate learning of students and peers.

PGY-2

- Understands EBM principles, and begins to utilize relevant research to support decision-making.
- Identifies knowledge deficiencies and seeks to correct them.
- Demonstrate EBM based independent research and preparation when teaching junior colleagues or peers.

PGY-3

- Familiar with the current literature on the most common MICU conditions. Appropriately integrates EBM with expert opinions and professional judgment.
- Able to utilize and suggest data-driven modifications to protocols.
- Able to systematically compare personal practice patterns to larger populations and seek to improve disparities in own patient care.
- Ability to accurately self-assess skills and performance.
- Evaluation Methods: End of Rotation Global Assessment Form



## Professionalism

### PGY-1

- Identifies Ethical Issues
- Strives for patient care and knowledge excellence.
- Reliably accomplishes assigned tasks.
- Demonstrates integrity.

### PGY-2

- Identifies Ethical Issues and the resources available to solve them.
- Strives for patient care and knowledge excellence.
- Reliably identifies and accomplishes necessary tasks.
- Demonstrates integrity.

### PGY-3

- Identifies Ethical Issues and solves them using the available resources.
- Strives for patient care and knowledge excellence.
- Reliably identifies and accomplishes necessary tasks.
- Provides counseling on professionalism issues for more junior team members.
- Demonstrates integrity.
- Sets a tone of respect and collegiality for the team.
- Evaluation Methods:
  - Conference Attendance and Completion of Online learning modules with SCCM
  - End of Rotation Global Assessment Tool

## Systems Based Practice

### PGY-1

- Effectively communicates with nurses and other professionals to optimize patient care.
- Writes effective notes.
- Appropriately transitions patients to the next level of care.
- Uses strategies to obtain information from other practitioners about patients' current health.
- Reflects on healthcare provided, and has awareness of cost effective practices.

### PGY-2

- Provides effective MICU Consultations and appropriately arranges for transfer of patients to the MICU.
- Participate in activities designed to optimize the MICU System.
- Develops advocacy strategies for patients with access to health care issues.
- Understands and moderately practices cost effective care of patients and selective test ordering.

### PGY-3

- Meets PGY1 and PGY2 goals and instructs junior team members on optimizing care at transition points.
- Initiates and participates in activities designed to optimize the MICU System.
- Consistently advocates for patients, insures appropriate referrals and progress notes accurately reflect care.
- Develops systems designed to optimize follow-up.



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- Assumes leadership role in management of complex care plans.
- Practices cost effective care of patients and selective test ordering.
- Evaluation Methods:
  - 360 degree evaluations
  - End of Rotation Global Assessment Tool