### Resident Levels of Care

**Section of Pulmonary, Critical Care and Sleep Medicine**

**Critical Care Medicine**

**Department of Medicine**

Resident Level: PGY IV

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**Core Competencies**

1. Medical Knowledge
2. Patient Care Skills
3. Practice-based learning
4. Interpersonal and communication skills
5. Systems-based practice
6. Professionalism

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**Direct Supervision:**
- The supervising physician is physically present with the resident and patient.

**Indirect Supervision:**
- With direct supervision immediately available—the supervision physician is physically within the hospital or other site of patient care, and is immediately available to provide Direct Supervision.
- With direct supervision available—the supervision physician is not physically present within the hospital or other site of patient care, but is immediately available by means of telephonic and/or electronic modalities, and is available to provide Direct Supervision.

**Oversight:**
- The supervision physician is available to provide review of procedures/encounters with feedback provided after care is delivered.

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**The Resident**

- The house officer performs emergency pericardiocentesis, thoracentesis 1,2,3,4,5,6
- Pleural biopsy 1,2,3,4,5,6
- Tube thoracostomy 1,2,3,4,5,6
- Therapeutic bronchoscopy 1,2,3,4,5,6
- Bronchoscopy with transbronchial biopsy 1,2,3,4,5,6*
- Inserts temporary transvenous pacemakers 1,2,3,6*
- Performs emergency cricothrotomy 1,2,3,4,5,6
- Performs upper gastrointestinal endoscopy, with feeding tube or PEG placement 1,2,3,4,5,6*
- Performs percutaneous tracheostomy 1,2,3,4,5,6*
- Performs extracorporeal life support 1,2,3,4,6*
- Places thoracic, pericardial, and abdominal catheters 1,2,3,4,5,6
- Provides advanced airway management 1,2,3,4,5,6

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**The Resident**

- Performs orotracheal and nasotracheal intubation 1,2,3,4,5,6
- Performs basic and advanced cardiac life support 1,2,3,4,5,6
- Manages mechanical ventilation in acute and chronic respiratory failure 1,2,3,4,5,6
- Orders continuous renal replacement therapies1,2,3,4,5,6*
- Performs electrical cardioversion 1,2,3,4,5,6
- Performs transcutaneous cardiac pacing1,2,3,4,5,6
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- Orders continuous sedative and analgesics in the critically ill 1,2,3,4,5,6
- Performs montiroed conscious and deep sedation for invasive procedures 1,2,3,4,5,6*
- Performs intravenous anesthetic induction for intubation 1,2,3,4,5,6
- Performs management of complex fluid and electrolyte disorders 1,2,3,4,5,6
- Performs intravenous thrombolytic therapy 1,2,3,4,5,6
- Orders appropriate pharmacologic

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**The Resident**

- Perform and documents history and physical examination 1,2,3,4,5,6
- Formulates differential diagnosis 1,2,3,4,5,6
- Obtains and documents informed consent 1,2,3,4,5,6
- Understands the role of the critical care physician as a consultant to other physicians 3,4,5,6
- Interprets hemodynamic parameters in critically ill patients 1,2,3,4,5,6
- Interprets chest and abdominal radiographs, and CT images of the brain, chest, and abdomen 1,2,3,4,5,6
- Interprets therapeutic drug levels for antibiotics and other drugs 1,2,3,4,5,6
therapy for management of circulatory shock and related disorders 1,2,3,4,5,6
- Orders enteral and parenteral nutrition during critical illness
- Understands drug dosing during continuous renal replacement therapies 1,2,3,4,5,6*
- Performs high-frequency ventilation 1,2,3,6*
- Performs central venous and pulmonary artery catheterization 1,2,3,4,6*
- Orders appropriate consults 1,2,3,4,5,6
- Performs arterial catheterization 1,2,3,4,5,6
- Performs diagnostic flexible fiberoptic bronchoscopy 1,2,3,4,6*
- Performs bedside sonography for focused echocardiography, TCD, vascular access and body cavity drainage 1,2,3,4,6*
- Performs bedside spectral EEG analysis for sedation and neurological management 1,2,3,4,5,6*
- Performs jugular venous bulb catheterization 1,2,3,4,5,6*

*A faculty physician, other than another resident, is physically present during the key portions of the procedure or is immediately available.