

Pulmonary Levels of Care

| PROCEDURE/SKILL | LEVEL OF CARE | SUPERVISION | MILESTONES | MILESTONE LEVEL |
|--|---------------|-------------|------------------------------|-----------------|
| Pulmonary Artery Catheterization | PGY 4-6 | Direct | pc, mk | 2 |
| Therapeutic Flexible Fiberoptic Bronchoscopy | PGY 4-6 | Direct | pc, mk | 2 |
| Diagnostic Flexible Fiberoptic Bronchoscopy with Transbronchial Biopsy | PGY 4-6 | Direct | pc, mk | 2 |
| Endobronchial Stent Placement | PGY 4-6 | Direct | pc, mk | 2 |
| Endobronchial Cryotherapy | PGY 4-6 | Direct | pc, mk | 2 |
| Endobronchial Electrocautery | PGY 4-6 | Direct | pc, mk | 2 |
| Endobronchial Brachytherapy Catheter Placement | PGY 4-6 | Direct | pc, mk | 2 |
| Medical Thoracoscopy | PGY 4-6 | Direct | pc, mk | 2 |
| Placement of Pleur-X Catheters | PGY 4-6 | Direct | pc, mk | 2 |
| Monitored Conscious Sedation for Invasive Procedures | PGY 4-6 | Direct | pc, mk | 2 |
| Tube Thoracostomy | PGY 4-6 | Direct | pc, mk, pbli, ics, sbp, prof | 2 |
| Elective Cardioversion | PGY 4-6 | Direct | pc, mk | 2 |
| Whole Lung Lavage | PGY 4-6 | Direct | pc, mk | 2 |
| Order Continuous Renal Replacement Therapies | PGY 4-6 | Direct | pc, mk, pbli, ics, sbp, prof | 2 |
| Insert Temporary Transvenous Pacemakers | PGY 4-6 | Direct | pc, mk, pbli, prof | 2 |
| Perform Arterial Catheterization | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Perform Orotracheal intubation | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Perform basic and advances cardiac life support | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Perform emergency pericardiocentesis | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |

Pulmonary Levels of Care

| | | | | |
|--|---------|----------|------------------------------|---|
| Perform Thoracentesis | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Perform pleural biopsy | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Perform Pleurodesis | PGY 4-6 | Indirect | pc, mk | 2 |
| Management mechanical ventilation in acute and chronic respiratory failure | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Perform transcutaneous cardiac pacing | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Perform Oral/Nasal - Gastric intubation | PGY 4-6 | Indirect | pc | 2 |
| Perform and document H & P exams | PGY 4-6 | Indirect | pc, mk, pbli, ics, prof | 2 |
| Order & interpret findings of diagnostic tests (radiology, electrocardiographic, and laboratory) | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp | 2 |
| Formulate appropriate differential diagnosis | PGY 4-6 | Indirect | pc, mk | 2 |
| Obtain & Document Informed Consent | PGY 4-6 | Indirect | pc, mk, pbli, ics, prof | 2 |
| Request and Review Consultations | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Understand the Role of the Pulmonary and Critical Care Physician as a Consultant to Other Physicians | PGY 4-6 | Indirect | pc, mk | 2 |
| Perform management of complex fluid and electrolyte disorders | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp | 2 |
| Monitor vital signs and intake/output | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp | 2 |
| Interpret hemodynamic parameters in critically ill patients | PGY 4-6 | Indirect | pc, mk | 2 |

Pulmonary Levels of Care

| | | | | |
|--|---------|----------|------------------------------|---|
| Order transfusions of blood and blood products | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp | 2 |
| Order appropriate pharmacologic therapy for management of circulatory shock and related disorders | PGY 4-6 | Indirect | pc, mk | 2 |
| Order pay management therapy | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp | 2 |
| Order medications and monitor for their effects and for possible adverse reactions | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp | 2 |
| Order continuous sedation and analgesia in the critical ill | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Order Parenteral Nutrition during critical illness | PGY 4-6 | Indirect | pc, mk, pbli, ics, sbp, prof | 2 |
| Order intravenous thrombolytic therapy | PGY 4-6 | Indirect | pc, mk | 2 |
| Perform Intravenous anesthetic induction for intubation | PGY 4-6 | Indirect | pc, mk | 2 |
| Understand and practice sterile technique and scrub, gown, glove, and drape properly | PGY 4-6 | Indirect | pc, mk | 2 |
| Manage chest tubes and drains | PGY 4-6 | Indirect | pc, mk | 2 |
| Understand and practice universal infection control/safety precautions | PGY 4-6 | Indirect | pc, mk | 2 |
| Understand/utilize principles of mechanical ventilation | PGY 4-6 | Indirect | pc, mk, sbp | 2 |
| Understand the basic principles of anesthesia | PGY 4-6 | Indirect | pc, mk, ics, sbp | 2 |
| Assess preoperative risks and assign ASA classification | PGY 4-6 | Indirect | pc, mk | 2 |
| Interpret normal and common Abnormal findings on X-rays of Chest, CT scans of the Chest, MRI of the Chest, and Ventilation/Perfusion Scans | PGY 4-6 | Indirect | mk, pc, sbp | 2 |

Pulmonary Levels of Care

| | | | | |
|---|---------|----------|--------|---|
| Interpret Therapeutic drug levels for antibiotics and other drugs | PGY 4-6 | Indirect | pc, mk | 2 |
| Interpret Pulmonary Function Testing, including Spirometry, Lung Volumes, Diffusion Capacity, and response to Bronchodilators | PGY 4-6 | Indirect | pc, mk | 2 |
| Interpret Methacholine Testing | PGY 4-6 | Indirect | pc, mk | 2 |
| Interpret Cardiopulmonary Exercise Testing | PGY 4-6 | Indirect | pc, mk | 2 |
| Understand the basic fundamentals of Polysomnography interpretation | PGY 4-6 | Indirect | pc, mk | 2 |

| |
|--|
| KEY |
| * Supervision: |
| Direct -the supervising physician is physically present with the resident and patient. |
| *A faculty physician, other than another resident, is physically present during the key portions of the procedure or is immediately available. |
| Indirect -the supervising physician is physically within the hospital or other site of patient care and is immediately available to provide direct supervision. |
| Oversight - the supervising physician is available to provide review of procedures/encounters with feedback after care is provided. |
| **Core Competencies: |
| 1. Patient Care (PC) |
| 2. Medical Knowledge (MK) |
| 3. Practice-Based Learning & Improvement (PBL) |
| 4. Systems-Based Practice (SBP) |
| 5. Interpersonal & Communication Skills (IC) |
| 6. Professionalism (P) |