

**Pulmonary/Critical Care Medicine - LEVELS OF CARE**

<b>Procedure</b>	<b>level of care / fellowship year</b>	<b>supervision: ds-direct supervision; is-indirect supervision</b>	<b>milestones</b>	<b>milestone level</b>	<b>competency: PC-patient care; MK-medical knowledge; sbp-system based practice; pbli-practice based learning &amp; improvement; prof-professionalism; ICS-interpersonal &amp; communication</b>
Pulmonary Artery Catheterization	1-3	ds	pc, mk	2	pc, mk
Therapeutic Flexible Fiberoptic Bronchoscopy	1-3	ds	pc, mk	2	pc, mk
Diagnostic Flexible Fiberoptic Bronchoscopy with Transbronchial Biopsy	1-3	ds	pc, mk	2	pc, mk
Endobronchial Stent Placement	1-3	ds	pc, mk	2	pc, mk
Endobronchial Cryotherapy	1-3	ds	pc, mk	2	pc, mk
Endobronchial Electrocautery	1-3	ds	pc, mk	2	pc, mk
Endobronchial Brachytherapy Catheter Placement	1-3	ds	pc, mk	2	pc, mk
Medical Thoracoscopy	1-3	ds	pc, mk	2	pc, mk
Placement of Pleur-X Catheters	1-3	ds	pc, mk	2	pc, mk
Monitored Conscious Sedation for Invasive Procedures	1-3	ds	pc, mk	2	pc, mk
Tube Thoracostomy	1-3	ds	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Elective Cardioversion	1-3	ds	pc, mk	2	pc, mk
Whole Lung Lavage	1-3	ds	pc, mk	2	pc, mk
Order Continuous Renal Replacement Therapies	1-3	ds	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Insert Temporary Transvenous Pacemakers	1-3	ds	pc, mk, pbli, prof	2	pc, mk, pbli, prof
Perform Arterial Catheterization	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Perform Orotracheal intubation	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Perform basic and advances cardiac life support	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Perform emergency pericardiocentesis	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Perform Thoracentesis	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Perform pleural biopsy	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Perform Pleurodesis	1-3	is	pc, mk	2	pc, mk

Management mechanical ventilation in acute and chronic respiratory failure	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Perform transcutaneous cardiac pacing	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Perform Oral/Nasal - Gastric intubation	1-3	is	pc	2	pc
Perform and document H & P exams	1-3	is	pc, mk, pbli, ics, prof	2	pc, mk, pbli, ics, prof
Order & interpret findings of diagnostic tests (radiology, electrocardiographic, and laboratory)	1-3	is	pc, mk, pbli, ics, sbp	2	pc, mk, pbli, ics, sbp
Formulate appropriate differential diagnosis	1-3	is	pc, mk	2	pc, mk
Obtain & Document Informed Consent	1-3	is	pc, mk, pbli, ics, prof	2	pc, mk, pbli, ics, prof
Request and Review Consultations	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Understand the Role of the Pulmonary and Critical Care Physician as a Consultant to Other Physicians	1-3	is	pc, mk	2	pc, mk
Perform management of complex fluid and electrolyte disorders	1-3	is	pc, mk, pbli, ics, sbp	2	pc, mk, pbli, ics, sbp
Monitor vital signs and intake/output	1-3	is	pc, mk, pbli, ics, sbp	2	pc, mk, pbli, ics, sbp
Interpret hemodynamic parameters in critically ill patients	1-3	is	pc, mk	2	pc, mk
Order transfusions of blood and blood products	1-3	is	pc, mk, pbli, ics, sbp	2	pc, mk, pbli, ics, sbp
Order appropriate pharmacologic therapy for management of circulatory shock and related disorders	1-3	is	pc, mk	2	pc, mk
Order pay management therapy	1-3	is	pc, mk, pbli, ics, sbp	2	pc, mk, pbli, ics, sbp
Order medications and monitor for their effects and for possible adverse reactions	1-3	is	pc, mk, pbli, ics, sbp	2	pc, mk, pbli, ics, sbp
Order continuous sedation and analgesia in the critical ill	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Order Parenteral Nutrition during critical illness	1-3	is	pc, mk, pbli, ics, sbp, prof	2	pc, mk, pbli, ics, sbp, prof
Order intravenous thrombolytic therapy	1-3	is	pc, mk	2	pc, mk
Perform Intravenous anesthetic induction for intubation	1-3	is	pc, mk	2	pc, mk
Understand and practice sterile technique and scrub, gown, glove, and drape properly	1-3	is	pc, mk	2	pc, mk
Manage chest tubes and drains	1-3	is	pc, mk	2	pc, mk

Understand and practice universal infection control/safety precautions	1-3	is	pc, mk	2	pc, mk
Understand/utilize principles of mechanical ventilation	1-3	is	pc, mk, sbp	2	pc, mk, sbp
Understand the basic principles of anesthesia	1-3	is	pc, mk, ics, sbp	2	pc, mk, ics, sbp
Assess preoperative risks and assign ASA classification	1-3	is	pc, mk	2	pc, mk
Interpret normal and common Abnormal findings on X-rays of Chest, CT scans of the Chest, MRI of the Chest, and Ventilation/Perfusion Scans	1-3	is	mk, pc, sbp	2	mk, pc, sbp
Interpret Therapeutic drug levels for antibiotics and other drugs	1-3	is	pc, mk	2	pc, mk
Interpret Pulmonary Function Testing, including Spirometry, Lung Volumes, Diffusion Capacity, and response to Bronchodilators	1-3	is	pc, mk	2	pc, mk
Interpret Methacholine Testing	1-3	is	pc, mk	2	pc, mk
Interpret Cardiopulmonary Exercise Testing	1-3	is	pc, mk	2	pc, mk
Understand the basic fundamentals of Polysomnography interpretation	1-3	is	pc, mk	2	pc, mk
Telemedicine	1-3	is	pc, mk	2	pc, mk