Pulmonary and Critical Care Medicine fellows spend a one-month rotation in the operating room. During this rotation, the fellow has the responsibility to manage all aspects of patients in the OR, with a particular focus on airway management, blood product administration, and pharmacology.

By the completion of this rotation, all fellows are expected to demonstrate the following competencies:

**Patient Care**

1. Perform a complete and thorough pre-operative assessment, with emphasis on the airway examination and anesthetic history.
2. Create an anesthetic plan, including type of anesthesia, appropriate monitors, intraoperative care, and appropriate post-anesthetic care.
3. Initiate relevant pre-operative laboratory evaluation and other diagnostic studies with an understanding of the tests to be ordered.
4. Appropriately and safely deliver the anesthetic.
5. Monitor and regulate body temperature in an anesthetized patient.
7. Understand basic pathophysiology of surgical diseases and begin to master the skills necessary to care for surgical patients under anesthesia.

**Medical Knowledge**

1. Understand, describe, and demonstrate basic knowledge in the following areas:
   a. Appropriate airway management techniques
   b. Indications, contraindications, and risks for vascular access
   c. Pharmacology of inhaled and intravenous anesthetics, analgesics, and neuromuscular blocking agents
   d. Pharmacology of vasopressors, inotrope, and chronotropic medications
   e. Depth and stages of anesthesia
   f. Physiologic responses to surgical stimulation
   g. Importance of patient positioning and temperature control
   h. Completing and understanding anesthetic records
   i. Indications, contraindications, and proper use of anesthetic monitors
   j. Basic surgical procedures

2. Perform, with supervision, simple procedures such as:
   a. Airway management, including but not limited to mask ventilation, direct laryngoscopy, placement of endotracheal tubes and laryngeal mask airways
   b. Placement of peripheral IV access lines
   c. Placement of oro- and nasogastric tubes
   d. Placement of arterial lines
   e. Delivery of monitored anesthesia care, general anesthesia, and regional anesthesia
Practice-based Learning and Improvement

1. Develop a personal program of self study and professional growth with guidance from the teaching staff and senior residents.
2. Utilize current literature resources to obtain up-to-date information in the care of surgical patients and practice evidence based medicine.
3. Participate in activities of the Department of Anesthesia, including teaching sessions and grand rounds.

Systems-based Practice

1. Understand and participate properly in the peri-operative process.
2. Understand how the health care organization affects anesthetic practice.
3. Demonstrate cost-effective health care.
4. Follow established practices, procedures, and policies of the Department of Anesthesia and UCSF affiliated hospitals.

Professionalism

1. Practice compassionate patient care maintaining the highest moral and ethical standards with a professional attitude.
2. Demonstrate understanding of the needs and feelings of others, including the patient’s family members, health care personnel, fellow house staff, and medical students.
3. Communicate and collaborate effectively in a team of health care providers.
4. Be self-aware and have knowledge of professional limits by practicing ongoing medical education and self-improvement.

Interpersonal Communication Skills

1. Clearly communicate the anesthetic plan with the attending anesthesiologist prior to the case.
2. Actively resolve any confusion, conflict, or questions by contacting the appropriate staff person.
3. Create and sustain a therapeutic and ethically sound relationship with the patients and their families.
4. Work effectively with other members of the medical team, including allied health care personnel, attending anesthesiologists, fellow house staff, and medical students.