

# Focused Advanced Specialty Track

## CRITICAL CARE

Director: Adam Laytin, MD  
Assistant Professor  
Emergency Medicine and Anesthesiology & Critical Care Medicine

Number of residents you can accommodate: 2

Available faculty mentors:

Jed Wolpaw, MD MEd  
Laeben Lester, MD  
Lee Goeddel, MD MPH

Are you willing to have your track combined with another one?

Yes, with approval

Sponsoring Institution: Johns Hopkins Hospital

### Program Curriculum

#### Goal

The purpose of the critical care FAST is to familiarize the resident with the care of critically ill patients in both the acute (emergency department) setting as well as in the intensive care unit.

#### Objectives

1. Direct patient care of the critically ill: The majority of the educational experience will be provided by the mentored evaluation and treatment of patients in the SICU/WICU with participation in twice daily teaching and work rounds with faculty. This will include 3 blocks of critical care time as a senior resident/acting fellow.
2. Increased medical knowledge as it pertains to the care of the critically ill:  
By the completion of the year, the trainee will be expected to be able to discuss in detail as well as demonstrate incorporation into practice, the following elements:
  - Cardiovascular Physiology, Pathology, Pathophysiology, and Therapy
  - Respiratory Physiology, Pathology, Pathophysiology, and Therapy
  - Renal Physiology, Pathology, Pathophysiology, and Therapy
  - Central Nervous System Physiology, Pathology, Pathophysiology, and Therapy
  - Metabolic and Endocrine Effects of Critical Illness
  - Infectious Disease Physiology, Pathology, Pathophysiology, and Therapy
  - Physiology, Pathology, Pathophysiology, and Therapy of Acute Hematologic and Oncologic Disorders
  - Physiology, Pathology, Pathophysiology, and Therapy of Acute Gastrointestinal,
  - Genitourinary Disorders
  - Environmental Hazards

- Immunology and Transplantation K, Trauma
  - Monitoring, Bioengineering, Biostatistics
  - Ethics
  - Administration
  - Pharmacology
3. Practice-based learning: The resident will be expected to identify specific learning needs associated with each patient encounter or activity which will be met with further reading or discussion. They will be expected to provide evidence for clinical decision-making based on current best practice.
  4. Didactic lectures: Formal and informal didactic discussions will be provided on important issues in diagnosis and management of the critically ill patient. Attendance at related medical and surgical conferences will be encouraged.
  5. Core readings: The faculty has put together a core article set of seminal reading in the critical care literature which is provided to each resident.
  6. Conferences, journal clubs: The resident on the SICU/WICU rotation will prepare two 45 minute presentation on issues in critical care and present to the ICU faculty and fellows, Attendance is expected at weekly research conferences, journal clubs and monthly M&M and PI conferences
  7. Clinical or epidemiological research projects: Residents will be encouraged to lead or contribute to basic science and clinical research or performance improvement projects which may be published for a