

## Description

The goal of this rotation is to provide the student with exposure to Emergency Medical Services (EMS), disaster preparedness, and various aspects of prehospital care. Students will ride along with local EMS agencies and interfacility transport units. During these experiences, they will assist prehospital providers in caring for patients, complete online learning activities, and observe physician interactions with EMS systems, including QA/QI processes and training of prehospital providers. The student will also participate in special events medical standbys that may occur during their time with the rotation. There will be didactic lectures, required reading, and online interactive activities for the student to use as supplemental learning.

## Objectives

1. Familiarize the learner with prehospital medical skills including intravenous access, medication administration, orthopedic immobilization, cardiopulmonary resuscitation (CPR), basic life support (BLS), advanced cardiac life support (ACLS)
2. Familiarize the learner with fire department-based EMS structure and command systems through didactic lectures, online resources, and field experience
3. Familiarize the learner with various levels of EMS providers and the scope of practice for each level of provider
4. Expose the learner to EMS prehospital provider care through field experiences with the Baltimore City Fire Department, Baltimore County Fire Department, Maryland ExpressCare, and other EMS/critical care transport operational programs teaching the student how to:
  - a. Obtain a complaint-specific history and physical in a prehospital patient with an undifferentiated illness or injury
  - b. Recognize seriously ill patients and learn how to treat immediate life threats
  - c. Understand the prehospital management of medical and trauma patients prior to their arrival to the emergency department and how prehospital care is guided by Maryland's statewide EMS protocols
  - d. Formulate a differential diagnosis and management plan for prehospital patients
  - e. Develop skills on how prehospital clinical information is presented to receiving facilities
5. Expose the learner to EMS administration through ride-alongs with Baltimore County EMS Supervisors and learn how medical oversight is provided to prehospital providers
6. Expose the learner to EMS command systems and dispatch through Maryland Institute for Emergency Medical Services Systems (MIEMSS)
7. Learn how disaster management and mass casualty incidents are coordinated by EMS providers
8. Familiarize the learner with the Incident Command System (ICS) and the National Incident Management System (NIMS) by using the Federal Emergency Management Agency (FEMA) online independent study modules