

Focused Advanced Specialty Track

DIVISION OF SPECIAL OPERATIONS (DSO)

Director: Nelson Tang, MD, FACEP

Associate Professor and Vice Chair for Operational Medicine

Director, Center for Law Enforcement Medicine and Tactical Medicine Fellowship

Department of Emergency Medicine

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Area(s) of concentration (must select one primary):

- Emergency Medical Services (EMS)
- Tactical Emergency Medicine
- Wilderness Medicine/Search & Rescue

Number of residents you can accommodate: 1 to 4

Available faculty mentors:

Matthew Levy, DO

Michael Millin, MD

Nelson Tang, MD

Asa Margolis, DO

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

- Administration
- Research
- Disaster
- International

Sponsoring Institution: Johns Hopkins Hospital (Primary)

What other institutions participate in the Program:

- Johns Hopkins LIFELINE Critical Care Transport Program
- United States Secret Service, Emergency Services Section
- Howard County Department of Fire Rescue Services
- Maryland State Police, Tactical Medical Unit
- Maryland Institute for Emergency Medical Services Systems (MIEMSS)

Program Curriculum

Goal

The goal of the Division of Special Operations (DSO) FAST is to teach the fundamentals of the specialty of pre- and out-of-hospital medicine and to prepare the resident for further education and development as an operational physician and/or medical director. Secondly, the FAST aims to expose trainees to multiple specialty aspects of operational medicine.

Objectives

1. By the completion of the DSO FAST the resident will have a fundamental understanding of the diagnosis and management of critical disease states in the pre-hospital and out-of-hospital environment including but not necessarily limited to: airway management, respiratory failure, life threatening arrhythmias, STEMI, shock, stroke, and multisystem trauma.
2. By the completion of the DSO FAST the resident will have a fundamental understanding of EMS system design and the relationship of the EMS system to the overall emergency care system especially as related to the following diseases: STEMI, stroke, and multisystem trauma.
3. By the completion of the DSO FAST the resident will understand the differences as well as the strengths and weaknesses of both direct and in-direct medical direction.
4. If specifically selected as a direct area of concentration, residents in the DSO FAST may have the unique opportunity to gain meaningful understanding through direct involvement of highly specialized aspects of prehospital medicine to include Tactical Emergency Medicine, Wilderness Medicine, and Search & Rescue.
5. By the completion of the DSO FAST the resident will have had the opportunity to participate in direct medical direction through communication devices (i.e. radio, cell phone, etc.) and direct observation of prehospital providers in the field.
6. By the completion of the DSO FAST the resident will have had the opportunity to participate in in-direct medical direction through protocol development and continuous quality improvement (CQI) activities (i.e. chart review, education, and review on consult tapes).
7. By the completion of the DSO FAST the resident will have an understanding of local, state and national EMS system development.
8. By the completion of the DSO FAST the resident will have an understanding of the importance of prehospital research and have the opportunity to participate in either clinical or administrative research.

Opportunities available to residents

1. Field Opportunities
 - Public safety 9-1-1 EMS
 - Critical care inter-facility transport
 - Mass gathering medical support
 - Tactical operations (selected, conditional)
2. Educational
 - Core content EMS Conferences (Fellowship curriculum)
 - National EMS Medical Directors Course (NAEMSP)
 - Tactical medic training & recertification courses
3. Teaching
 - EMT/Paramedic initial certification courses
 - EMT/Paramedic provider recertification courses
 - EMS Continuing Education seminars
 - Clinical precepting of operational medical personnel (i.e. ED or field environment)
4. Primary Research
 - Evidence based practices in EMS
 - Safety in the Critical Care Transport environment
 - Curriculum development in Tactical Medicine
 - Advances in Tactical Emergency Casualty Care
 - Physician education in EMS

- Mass gathering event medicine

5. Writing/Publications:

- See above

Possible Future Projects

DSO FAST trainees will meet with FAST Director and/or faculty mentor immediately upon selection to declare the intended area of training concentration, identify at least one research area of interest and formulate an action plan to ensure completion of all educational objectives by the end of their training.

(Updated NT 05/15/2019)