



PRE-RESIDENCY RESEARCH FELLOWSHIP

Program Description

BIDMC Fellowship in Disaster Medicine

One Deaconess Rd, WCC2
Boston, MA 02215

+1 (617) 754-3470
vmoses@bidmc.harvard.edu



Beth Israel Deaconess
Medical Center



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

Fellowship in Disaster Medicine

BIDMC Fellowship in Disaster Medicine

Pre-Residency Research Fellowship

Introduction

In addition to the core activities described below, the fellow will complete the research curriculum as taught by the Director of Research, and write and submit at least one abstract to the Society of Academic Emergency Medicine or a major international conference. Fellows will also take a research project from project design-IRB approval-data collection and analysis-paper writing and to the point where it is ready to be submitted to a peer-reviewed journal. This program is geared towards the pre-residency fellow and has a 100% US residency placement record to date. Fellows will also have access to the full curriculum of the BIDMC Fellowship in Disaster Medicine.

BIDMC Fellowship in Disaster Medicine is designed to provide qualified fellows the opportunity to develop an expertise in the related fields of Disaster Medicine (DM) and Emergency Management (EM). This is accomplished through didactic lectures, seminars, readings, goal-related research in a specific area of DM and EM, and participation in hospital-based, local, regional, national, and international Disaster Preparedness agencies and response organizations.

The Fellow will also complete fieldwork-related research resulting in a thesis or publication. Upon completion of this Fellowship, fellows will be skilled in all aspects of the disaster cycle and have the ability to assume a leadership role on the local, regional, federal, or international level in the area of Disaster Medicine and Emergency Management.

CORE CURRICULUM

It is an expectation that all fellows will start the formal fellowship didactics on August 1st week, prepared to discuss and engage in academic content related to Disaster Medicine on the minimum level expected of an Emergency Medicine physician.

In addition fellows will be expected to:

- Complete basic online curriculum in both Disaster Medicine and Research
- Develop report writing skills utilizing electronic tools and databases
- Develop presentation skills both oral, poster and abstract
- Develop data analysis skills through appropriate use of descriptive statistics
- Develop critical analysis and appraisal skills to understand how to rapidly review information and summarize

To this end, all fellows are required to complete the following curriculum consisting of advanced reading, online coursework, and local rotations and preparing a research proposal for review in coordination with the Research Director. Specific reading, online curriculum and rotation requirements are as listed below. If you have any questions, please contact the fellowship directors directly.

FELLOWSHIP ONLINE CORE CURRICULUM

- Completion of all assigned modules via Moodle platform by end of year. Requirements will be specific to each module.

ONLINE TRAINING/RESOURCES

- Consolidated Research Safety Training at BIDMC
- MYPATH CITI research training at BIDMC
- Responsible Conduct of Research August Session
- BIDMC Research training: General Grant e-submission training course, which will specifically spend time discussing and going over step by step how to register and submit an NIH R01 application

- FEMA ICS 100, 200, 300, 700, 800
- FEMA Professional Development Series
- FEMA HVA course
Psychological First Aid
- UN Basic Security in the Field
- BestBets - Best Evidence Topics
- Delvalle Institute for Emergency Preparedness Courses

COURSEWORK AT DELVALLE INSTITUTE FOR EMERGENCY PREPAREDNESS

- Boston MRC Orientation and subsequent MRC trainings
- Basic / Advance Disaster Life support
- ChemPack Training program
- Emergency Operations Planning: Awareness
- Continuity of Operations Planning: Awareness
- Hazard Vulnerability Analysis Planning: Awareness
- Incident Management for Hospitals
- Mass Casualty Incident (MCI) Triage: Awareness
- Mass Dispensing Clinics: Just-in-Time Training (JITT)
- Module I: All Hazards Disaster Response and Protection for Healthcare Personnel
- Module II and III: Decontamination Modules
- CBRNE: Hazmat Training
- Shelter Operations
- MRC: Introduction to Disaster Behavioral Health Response
- Biological Hazards

MANDATORY LOCAL ROTATIONS

- BIDMC Emergency Management: Attend meetings, hospital drills
- Boston EMS: 1 ALS, 2 BLS ride-along, minimum
- Boston C-Med: 1 Day in communications center
- LMA Emergency Management Committee: Attend meetings, plan and attend drills
- MGH Emergency Management
- Cataldo EMS: 1 - 2 ALS ride-alongs (minimum), 1 day in emergency operations

- Childrens Critical Care Transport: 1 ride-along, minimum
- New England Patriots coverage: Mass gathering planning and response
- Boston Red Sox coverage: Mass gathering planning and response
- RI-1 DMAT: Join training drills, participate in local deployments
- DHHS Region 1: Attend meetings and drills
- STRATUS: Develop Disaster simulation modules

READING MATERIALS

TEXTBOOK READING

- Ciottone's Disaster Medicine, 2016
- Pocket Guide to Teaching for Medical instructors, 2nd edition BMJ
- The Pocket Guide to Critical Appraisal - BMJ
- Medical Statistics at a Glance, Petrie & Sabin, 2009
- Unofficial Guide to Medical Research, Audit and Teaching
- Emergency Medicine Journal, Research Series (online)
- Emergency Medicine Journal, Statistics Series (online)

ONLINE DOCUMENTS

- The Sphere Handbook
- MSF Clinical Guidelines
- Joint Commission Standards (related to hospital disaster management)
- Hospital Safety Index - A guide in how to evaluate a hospital systems readiness for disaster
- Institute of Medicine: Crisis Standards of Care: A Systems Framework for Catastrophic Disaster Response, 2012

ADDITIONAL RESOURCES

TEXTBOOKS

- Disaster Medicine, Koenig and Schultz
- Disaster Medicine, Burstein and Hogan
- Improvised Medicine: Providing care in Extreme Environments, Iserson
- Emergency War Surgery 2014, US Office of the Surgeon General/US Army

POPULARLY REFERENCED BOOKS ON DISASTER MEDICINE

- Where There is No Doctor, Werner
- The Hot Zone, Preston
- 3/11, Disaster and Change in Japan, Samuels
- Five Days at Memorial, Fink

VIDEO

- Seconds From Disaster, National Geographic

OTHER OPPORTUNITIES FOR PRE-RESIDENCY RESEARCH FELLOWS

MASTER OF SCIENCE IN HEALTHCARE EMERGENCY MANAGEMENT

The Master of Science in Health Emergency Management, a jointly sponsored Master degree by the BIDMC Fellowship in Disaster Medicine, Worcester Polytechnic Institute, and Anna Maria College, is comprised of 42 credits with an interdisciplinary approach that integrates technology, clinical practices and emergency and disaster medicine with engineering, ethics and computation. The program follows a hybrid model, incorporating both didactic and hands-on educational offerings for degree completion, and can be completed in one year. Through simulations and theory-based coursework, fellows will be prepared to design and build a holistic assessment of the community and deliver a sustainable, ethics-based response and recovery.

As a graduate student in Health Emergency Management fellows will:

- Acquire the skills, training, drill/exercise and theory necessary for responding to and managing health emergencies and disasters. Focus areas include:
 - College and School Safety
 - Aerospace and Transportation
 - Natural and Man-made Disaster
 - Sport and Marathon
 - Industry and Commerce
- Learn how to effectively engage and communicate with the public and with local, state, federal, faith-based and community leaders concerning the response and recovery process in health emergency and disaster events.

COMBINED PRE-RESIDENCY RESEARCH FELLOWSHIP IN DISASTER MEDICINE AND MASTER DEGREE IN HEALTHCARE EMERGENCY MANAGEMENT

Designed for the highly motivated student who is looking to maximize the pre-residency year, this combined program is an accelerated combination of the Pre-Residency Research Fellowship and the Master Degree programs. The Fellow will receive the full academic offerings of both programs, and upon successful completion will earn both the Fellowship diploma and the Master Degree diploma.