

UNIVERSITY OF MICHIGAN HEALTH SYSTEM · DEPARTMENT OF EMERGENCY MEDICINE
PEDIATRIC EMERGENCY MEDICINE FELLOWSHIP PROGRAM

Rotation:	Emergency Medicine Services (EMS)
Institution:	University of Michigan Health System
Duration:	One (1) Month or Requirements can be completed in Modules over 2 year training period
Fellow Training Year:	PD Trained Fellows (Year ½)
Supervising Faculty:	Stacy Noel, MD and Michele Carney, MD

BACKGROUND:

Emergency medical services (EMS) are a unique form of medicine and pediatric emergency physician must interact with the EMS of care almost daily. Pediatric EM physicians will be involved in EMS medical direction and/or education for the duration of their careers.

NOTE: THIS ADULT EMS CURRICULUM IS DESIGNED FOR THE PD-PEM FELLOW AS A LONGITUDINAL EXPERIENCE ENCOMPASSING APPROXIMATELY 160 HOURS. PEM FELLOWS ARE RESPONSIBLE FOR SCHEDULING ACTIVITIES, EVENTS AND RIDE ALONG CLINICAL EXPERIENCES ANY TIME FOLLOWING INITIAL ORIENTATION TO EMS BASE STATION (MAY ANNUALLY) AND THROUGHOUT THE SECOND YEAR OF TRAINING.

EDUCATIONAL GOALS:

1. Introduce PEM fellows to the challenges of providing high quality medical care in the often chaotic out of hospital environment. *Competencies: PC, SBP, IC, P*
2. Improve PEM fellows' understanding of EMS systems & operations. *Competencies: MK, PC, SBP*
3. Understand the role of the EM provider in the EMS System of care. *Competencies: PC, SBP, IC, P*
4. Promote a more collegial working relationship between PEM physicians and the EMS community of professionals caring for children in the pre-hospital arena. *Competencies: PC, SBP, IC, P*

EDUCATIONAL OBJECTIVES:

1. Learn about the structure of the general EMS Systems. *Competencies: PC, MK, SBP*
2. Develop an understanding of Michigan EMS systems (state and local) *Competencies: PC, MK, SBP*
3. Develop an understanding of legal authority in EMS system (including EMTALA) *Competencies: PC, MK, SBP*
4. Understand PEM physician's role within EMS system *Competencies: PC, MK, SBP*
5. Learn and participate in the process of EMS protocol development *Competencies: PC, MK SBP, IC, P*
6. Understand the functions of Medical Control Boards (local and regional) *Competencies: PC, MK, SBP*
7. Understand the different levels of care/organization of Medical Control within the EMS system *Competencies: PC, MK, SBP*
8. Develop an understanding of the Health EMS (HEMS) system in Michigan, overall review and oversight (<http://www.hems.org/>). *Competencies: PC, MK, SBP*
9. Develop an understanding of the role of EMS systems in Medical Incident Command and Mass Casualty Management *Competencies: PC, MK, SBP*
10. Learn principles of pre-hospital stabilization of injured patients *Competencies: PC, MK,*
11. Develop an understanding of medical triage and transport systems in the care of injured patients in the pre-hospital arena *Competencies: PC, MK, SBP*

Accreditation Council for Graduate Medical Education (ACGME) Core Competency Key:

PC = Patient Care; MK = Medical Knowledge; PBLI = Practice-Based Learning and Improvement; IC = Interpersonal and Communication Skills; P = Professionalism; SBP = Systems-Based Practice

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12. Learn the roles and responsibilities of pre-hospital personnel (EMT-B, EMT-P etc).
Competencies: PC, MK, SBP, P
13. Review and participate in quality improvement efforts with UMHS Survival Flight team case/run conferences. *Competencies: PC, SBP, P, IC, PBLI*

CURRICULUM REQUIREMENTS:

1. Didactic
 - a) Directed readings from Kuehl AE: *Prehospital Systems and Medical Oversight*, Dubuque, 2002, Kendall-Hunt Publishing Co. Chapters 1-3, 6-7, 10-12, 17-18, 23, 25, 27
 - b) Ludwig & Fleischer: 2006 Edition: Chapter 7
 - c) Base Station Overview (May of PEM 1 fellow year of training): Lowell/CD Module 1 hr
 - d) Telephone Triage (Referrals, Medical direction of flight/EMS): (Nypaver PowerPoint)
2. Clinical Experience:
**Requirement is to complete a total of 8 shifts.*
 - a) Ambulance ride-along - 4 (8-10hr shift)
 - b) Survival Flight ride-along - 4 (10-12hr shift)
 - Sit with dispatch in off hours/downtime
 - c) Communications Center Observation Shift (Min 2 hours)
 - UMHS SF Dispatch
 - Washtenaw City Emergency Operations CTR
3. Teaching
 - a) **Fellows are required to do 2 of the following (Min 8 hours):**
 - Participate in local ALS or BLS course as instructor
 - Participate in local PEPP course as instructor
 - Participate in local EMS CME as instructor
 - Participate in UMHS Survival Flight inservice course as instructor
 - Participate in local community/fire station inservice
 - Participate in community/school based AED education instruction program
4. Administration
 - a) **Attend at least (1) each of these EMS meetings:**
 - SF Rounds/QA: Contact Paul Mazurek RN or Dr. Mark Lowell for current schedule and please let Lowell know when you are coming so that Adult/Peds cases can be grouped for presentation.
 - HVA Run Q/A: Please contact Stacey Noel MD for schedule.
5. Washtenaw County Emergency Management/Operations Center (Attend one each):
 - a) EMSC-State meetings Lansing/MI : Scheduled with Dr. Stacey Noel
 - b) Region 2 South Bioterrorism Meeting : Scheduled with Dr.'s Lozon/Bradlin

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6. UMHS Dept. of EM Hazmat Drill (One event)
 - a) UMHS Dept. of EM Disaster Drill/Practice Event: Stacey Babcock/Jennifer Gegenheimer Holmes
7. Peds EM Conference Series: Focused Mentoring Session/Bioterrorism (attend once during training): Lozon/Bradin

EVALUATION PROCESS:

Fellows are evaluated using tools based on the six core competencies completed in writing by the EMS rotation supervisor using input from affiliated EMS staff/providers and faculty after rotation via the UMHS MedHub online evaluation system. Fellows likewise evaluate their experiences after this rotation as well. Evaluations are forwarded to the Program Director and made available in aggregate to individual fellows via the MedHub system at all times. Formal review of fellow’s evaluations occurs at quarterly PD/Fellow meetings.

FEEDBACK MECHANISMS:

Specific problems or notations of excellence identified through verbal or written communication to the Program Director regarding the fellow are immediately brought to the attention of the involved fellow. Fellows receiving an overall poor performance grade (less than satisfactory evaluation for rotation) are notified immediately and meet with the PD. Fellows who receive notation for improvement in some areas (but pass the overall rotation) are given a work plan for educational intervention with specific timeline for completion and reevaluation. Fellows who do not pass an overall rotation will meet with the PD for remediation work plan, including timetable for reevaluation, UMHS notifications as required by GME and repeat the rotation. Monthly evaluations are placed in the fellow’s file and are available for review at any time by the fellow, but are also reviewed during quarterly meetings with the PD. Fellows are encouraged to review their evaluations on MedHub regularly and at least monthly.

WHO TO CONTACT TO SCHEDULE YOUR SURVIVAL FLIGHT SHIFTS?

Please contact Paul Hyssong via e-mail @ physsong@med.umich.edu to schedule your Survival Flight shifts.

WHO TO CONTACT TO SCHEDULE YOUR HVA SHIFTS?

Please contact Randy Bloom at HVA to schedule your HVA Shifts.

Office # (734) 477-6344
 E-Mail: rbloom@hva.org

Reviewed		06/2008		06/30/2009	4/2011		
Revised	06/2006		11/2008		4/2011	07/05/2011	12/09/2011
Initial(s)	MN	MN	MN	MN	MN	sb	sb