

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

Rotation:	Medical Toxicology and Poison Control
Institution:	Detroit Medical Center, Children's Hospital of Michigan, Poison Control Center
Duration:	One (1) Month
Fellow Training Year:	PD and or EM trained fellows (Year 1)
Supervising Faculty:	Cynthia Aaron, MD

EDUCATIONAL GOALS:

1. To develop an awareness of the services of the Poison Control Center and how it operates to meet the needs of the public and the medical community. *Competencies: SBP, P*
2. To develop the skills required to recognize and manage both acute and chronic poisonings in adults and children. *Competencies: MK, PC*
3. To understand the role of the ED provider in conjunction with the Poison Control center in the care of patients presenting with acute intoxications. *Competencies: PC, SBP*

EDUCATIONAL OBJECTIVES:

1. To become familiar with reference resources, evaluate their merit and help develop approaches for responses to both telephone and patient consultation. *Competencies: PC, SBP, PBLI, P, IC*
2. To become familiar with the epidemiology of poisoning and the role of various agencies in the management, prevention, and treatment of poisoning. *Competencies: MK, SBP, PBLI*
3. To develop the skills necessary to counsel patients and families regarding poison prevention in the home environment. *Competencies: PC, P, PBLI, IC*
4. To participate in other roles of the poison control center including community outreach and drug abuse education. *Competencies: P, PBLI, IC*
5. To understand the pathophysiology induced by selected toxins. *Competencies: MK, PC*
6. To develop a basic understanding of toxicokinetics. *Competencies: MK*
7. To predict and recognize the clinical manifestations of specific poisonings. *Competencies: MK, PC*
8. To understand the rationale behind the various methods of decontamination enhanced elimination, and antidote utilization. *Competencies: MK, PC*
9. To understand the appropriate utilization of the toxicology laboratory. *Competencies: MK, PC, SBP*
10. To develop clinical skills required to recognize both occupational and environmental poisoning. *Competencies: MK, PC, SBP*
11. Fellows are expected to achieve competence in Patient Care, Medical knowledge, Practice Based Learning, Professionalism, Interpersonal Skills and system Based Practice as they apply to the practice of Toxicology.

DESCRIPTION OF CLINICAL EXPERIENCE:

1. The student will meet daily with the medical director or toxicology attending/fellow(s) and review important exposures that are being managed through the poison control center.
2. Daily inpatient rounds will be made on poisoned patients in the DMC hospitals and the trainee will accompany the medical director, toxicology fellows or clinical consultants when consultations are being provided.
3. The trainee will explore the poison center literature on the epidemiology and dynamics of poisoning as well as the implications of specific chronic exposures. The trainee will have direct exposure to calls made to the center and understand the need for home care versus physician

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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evaluation.

- The trainee will be given the opportunity to participate in a field trip
 - Length: One (1) month
 - Days/week: Five (5) + One (1) Weekend
 - Hours/week: Approximately 40
 - Nights call/month: Day call only until 7 p.m.; One weekend call
 - Evaluation: Written exam 30%, Oral 50%, Written project 20%
 - Elective offered: August, September or October, November, January, February, April
 - Maximum number: No maximum

CLINICAL ROLES/RESPONSIBILITIES BY LEVEL OF TRAINING:

Pediatric Emergency Medicine fellows rotating in Toxicology are all primarily pediatric trained. They will function in an Emergency Medicine PGY 1 role while rotating on Toxicology months. Responsibilities will include consulting on patients admitted to the Detroit Medical Center (DMC) Hospitals by phone and/or with the toxicology rounding team for poisoning related medical problems. Fellows are supervised by qualified DMC toxicology staff in compliance with UMHS Supervision Guidelines. Fellows are required to be in compliance with UMHS/GME/Fellowship Program Duty Hour Reporting policies while on this rotation.

DESCRIPTION OF DIDACTIC EXPERIENCE:

- Daily didactic sessions (including formal lectures and case presentations) will be held to discuss toxicological topics in depth. Fellows are released to attend Wed PEM conference series weekly (1/2 day). Fellows are also released ½ day once/month on Tuesday/Thursday to attend track programs as determined by schedule timing/track assignment.
- The fellow will either
 - Develop a presentation on a topic of interest related to medical toxicology
 - Create a case report on an interesting patient, exposure pattern, etc.
 - Do an evaluative study on a function of the Poison Control Center with guidance from the medical director

Recommended reading material

Current materials are provided to the student via the WSU School of Medicine Website.

EVALUATION PROCESS:

Fellows are evaluated using tools based on the six core competencies completed in writing by DMC toxicology faculty after rotation via written evaluation tool and test performance results. Fellows likewise evaluate their experiences after this rotation as well. Evaluations are forwarded to the Program Director

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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 the overall rotation will meet with the PD for remediation work plan, including timetable for reevaluation, UMHS notifications as required by GME and will repeat this 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 MedHub files regularly and at least monthly.

LOCATION

Regional Poison Center
4707 St. Antoine
Suite 302
Detroit, MI 48201-1427

WHERE TO PARK?

Park in the Hutzell Deck. Enter through the Old Hutzell Hospital. Walk directly to the back and take the elevator to the 3rd floor. The Regional Poison Center is opposite that bank of elevators.

CONTACT INFO

Office # (313) 993-8791
E-Mail: caaron@dmc.org

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Revised	06/2005		11/2008			07/2011	12/09/2011
Initial(s)	MN	MN	MN	MN	MN	CA/MN/sb	sb