

Toxicology – ROTATION SPECIFIC OBJECTIVES
Pediatric Emergency Medicine Subspecialty Residency - University of Calgary

At the completion of training, the resident will have acquired the following competencies and will function effectively as:

Medical Expert

- Be familiar with the following toxidromes:
 - Sympathomimetic
 - Sedative
 - Hypnotic
 - Opiate
 - Anticholinergic
 - Cholinergic
 - Serotonergic
- Be familiar with a general approach to the poisoned patient with particular knowledge of the principles of acute supportive care, identification, decontamination, elimination, and antidote therapy.
- Recognize and manage:
 - acute intoxication/withdrawal and
 - unknown ingestions
- Have an understanding of the presenting features, management and natural history of the following ingestions:
 - acetaminophen
 - anticholinergics
 - clonidine
 - caustics
 - carbon monoxide and cyanide
 - cyclic antidepressants and SSRIs
 - cardiovascular agents (beta blockers, digoxin, calcium channel blockers)
 - drugs of abuse
 - ethanol and the toxic alcohols
 - envenomations
 - hydrocarbons
 - iron and heavy metals
 - methemoglobinemia
 - opioids
 - organophosphates
 - oral hypoglycemic agents
 - plants
 - salicylates
 - sympathomimetics

Communicator:

- Discuss appropriate information with patients/families and/or the health care team.
- Establish good rapport with referring physicians and provides comprehensive and clear advice to referring health care professionals.

Collaborator:

- Be aware of the professional resources available for the poisoned patient (i.e. the local poison centre).
- Consult effectively with other physicians and health care professionals.
- Contribute effectively to other interdisciplinary team activities.
- At the completion of training, the resident will have acquired the following competencies and will function effectively as:
 - Facilitate learning of patients, medical trainees/students and other health professionals

Leader:

- Capable of planning for the equipment and supply needs necessary for an ED to manage a poisoned patient.
- Utilize resources effectively to balance patient care, learning needs, and outside activities.
- Utilize information technology to optimize patient care, life-long learning and other activities.

Health Advocate:

- Identify the important determinants of health affecting patients.
- Understand various approaches to health care advocacy and policy change.
- Recognize and respond to those issues where advocacy is appropriate.

Scholar:

- Develop, implement and monitor a personal continuing education strategy.
- Critically appraise sources of medical information.

Professional:

- Deliver highest quality care with integrity, honesty and compassion.
- Exhibit appropriate personal and interpersonal professional behaviors.
- Practice medicine ethically consistent with obligations of a physician.