



COURSE SPECIFICATION

(Clinical Toxicology)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate Master degree of Forensic Medicine and Clinical Toxicology/ FNST 500
(2) Department offering the programme:	Forensic Medicine & Clinical Toxicology Department
(3) Department responsible for teaching the course:	Forensic Medicine & Clinical Toxicology Department.
(4) Part of the programme:	II,III,IV
(5) Date of approval by the Department`s council	25/7/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Clinical Toxicology
(8) Course code:	FNST 519 CT
(9) Total credit hours	14 hours (9 lectures and 4 practical & clinical)
(10) Total teaching hours:	255 Hours (135 h lectures and 120 h practical)

(B) Professional information

(1) **Course Aims:**

The broad aims of the course are as follows:

1. Prepare the candidate to acquire the knowledge, skill and attitude related to proper diagnosis and management of poisoned patient whether acute or chronic toxicity.
2. The curriculum enhance personal communication skills with much emphasis on leadership & decision making skills as well as informational technology orientation.

(2) Intended Learning Outcomes (ILOs):

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

- A1. Explain different toxidromes and discuss proper general management of toxicology patients
- A2. Describe toxicokinetics, mechanism of toxicity and toxic doses of common drugs, environmental, industrial and household toxins.
- A3. Describe clinical presentation of acute and chronic toxicity of common drugs, environmental, industrial, and household toxins.
- A4. Describe proper management of acute and chronic toxicity of common drugs, environmental, industrial, and household toxins
- A5. Discuss suggested mechanisms, clinical presentation and management of drug dependence

B- Intellectual skills

- B1:** Analyze data from history taking, clinical examination, laboratory and radiological investigations to reach proper diagnosis.
- B2:** Assess the risks in dealing with cases of occupational exposure, addiction and psychiatric disorders and follow physician-patient safety guidelines.
- B3. Differentiate between toxicological causes and non toxicological causes of different medical problems.
- B4. Retrieve, analyze, and evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

C- Professional/practical skills :

- C1. Take adequate history from patient or his relatives, perform proper clinical examination and interpret general and toxicological investigations in toxicology cases.
- C2. Implement first aid measures in emergency patient within proper time.
- C3. Determine proper admission and discharge criteria
- C4. Construct proper transfer report including all patients' data, treatment received, recommendation and cause of transfer
- C5. Construct proper medical request including specialty required, patient condition, cause and aim of the request.

D- Communication & Transferable skills

D1: Demonstrate compassion, integrity, and respect for all patient's rights and treat all patients equally regardless to their believes, culture and behavior.

D2: Communicate effectively with patients, families, and the public.

D3: Recognize one's own limitation of knowledge and skills and refer patients to appropriate specialized health facility at appropriate stage.

D4: Communicate effectively with physicians, other health professionals, and health related agencies.

D5: Maintain comprehensive, timely, and legible medical records, if applicable.

D6: Manage patient at proper time.

D7: Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or population-based care.

D8: Use recent information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

D9: Adopt principles of the lifelong learning needs.

D10. Perform self assessment for proper management of cases and evaluate the performance and reports of others in professional and ethical manner

(3) Course content:

a. Lectures:

Subjects	Hours
General Toxicology	15
Corrosives	10
Irritants	10
Co and phosphine inhalation	20
Insecticides and rodenticides	15
Plant poisons	10
Ethanol and methanol	25
Acetaminophen, salicylate, TCAs and anticonvulsants	10
Drug dependence	10
Botulism	4
Snake and scorpion bites	6
Total hours	135

b. Practical and clinical:

Subjects	Hours
General Toxicology	10
Corrosives	15
Irritants	10
Co and phosphine inhalation	12
Insecticides and rodenticides	15

Plant poisons	15
Ethanol and methanol	13
Acetaminophen, salicylate, TCAs and anticonvulsants	15
Drug dependence	6
Botulism	4
Snake and scorpion bites	5
Total hours	120

(4) Teaching methods:

4.1: Lectures.

4.2: Case scenarios, essay preparation & discussion.

4.3: Clinical and practical.

4.4: Discussion of toxicology case reports (Recorded in poisoning unit-Mansoura Emergency Hospital)

(5) Assessment methods:

5.1: Written exam & MCQ for assessment of A1-A5, B1-B4

5.2 Objective structured clinical exam & Case report/specimen demonstration for assessment of B1-B4, C1-C5., D1-D10

5.3: Structured oral exam for assessment of B1-B4, D1-D10.

Assessment schedule:

Final exam at 36th month of admission to Master degree with total of 600 marks

Percentage of each Assessment to the total mark:

Written exam (two papers) & MCQ: 300 marks represent 50%

Objective structured clinical exam & case report/specimen demonstration: 150 marks represent 25%

Structured oral exam: 150 marks represent 25%

Other assessment without marks: Logbook activities

(6) References of the course:

Text books:

- Critical Care Toxicology-Diagnosis and Management of the Critically Patients, Jeffery Brent.

- Clinical management of poisoning and drug overdose, Haddad and Winchester`s.

(7) Facilities and resources mandatory for course completion:

Lecture halls and data show.

Poisoning unit

Grand rounds

Course coordinator: Prof. Dr. Sahar Abdelaziz El Dakroory

Prof. Dr. Amal Abd El- Salam Al Bakary

Dr. Manar Adel Helmy

Head of the department: Prof. Dr. Sahar Abdelaziz El Dakroory

Date: