



Quality Assurance Unit



Tanta University
Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

**Clinical toxicology for Forensic
medicine Clinical toxicology**

Master Degree

FMCT 8008

2016-2017

Clinical toxicology for Forensic medicine Clinical toxicology Master Degree Course
Specifications

University: Tanta Faculty: Medicine Department: Forensic Medicine and Clinical Toxicology

1) administrative Information

1- Course Title: Clinical toxicology for Forensic medicine Clinical toxicology Master Degree

2-Department offering the program: forensic Medicine and Clinical Toxicology Department

3-Department responsible for the course: forensic Medicine and Clinical Toxicology Department

4- Course coordinator: Prof. Dr. Eman moustafa. Professor of Forensic Medicine and Clinical Toxicology, Faculty of medicine, Tanta University

5-Course code: FMCT 8008

6- Level: second part

7- No. of Credit / taught hours:

Lectures: 4/60

Practical & clinical: 3/90

Total: 7/150

8-Authorization date of course specification: 5/1/2016.

2) Professional Information

1 – Overall Course aims

To provide the trainee with knowledge, skills and attitude that qualify him to perfect management of patient suffering from acute and chronic toxicity including addiction in ethical and professional manner

2 – Intended learning outcomes (ILOs):

a-knowledge and understanding:

By the end of the course graduate should be able to:

- a.1-discuss the basic theories and principles of poisoning regarding diagnosis, management, control, and prevention.
- a.2- Demonstrate the ethical and legal principles of medical practice.
- a.3- List the principles of quality assurance in medical practice.

b-intellectual skills

By the end of the course, graduates should be able to:

- b.1- Analyze and Prioritize the medical problems.
- b.2- Solve common medical problems related to toxicities.
- b.3- demonstrate related medical topics in medical journals for researchers in endemic and infectious diseases.
- b.4- evaluate risks in poisoning management practice.
- b.5- Make professional medical decisions according to available information in particular situations.

c-professional &practical skills

By the end of the course, students should be able to:

- c.1- Evaluate clinical data of a given case in provisional sheet, develop a management plan for clinical case.
- c.2- select a real time qualitative and quantitative toxicology laboratory analysis.
- c.3- perform common investigation reports related to specialty .
- c.4- Write a referring medical report about clinical case , reflecting its diagnosis and management plan , and respecting medicolegal aspects.

d-general transferable skills

By the end of the course, student should be able to:

- d.1- Communicate effectively with his colleagues and patients.
- d.2- Apply self evaluation and specify his medical educational needs.
- d.3- Use different learning resources to get knowledge and information.
- d.4- Manage time and practice team working through collaboration with other specialties to get proper diagnosis of a given case.
- d.5-manage a medical team in patient care wards.
- d.6- Perform continuous medical education

3) -Course contents

Introduction	Total lectures' credit hours	Total Practical/clinical 's credit hours
- Strategies for poison prevention & non toxic ingestions.	0.5/7.5	0.5/15
- Basic principles of pharmacokinetics and pharmacodynamics of drugs at toxic levels as well as all other toxins.		
General approach to the poisoned patient	Total lectures' credit hours	Total Practical/clinical 's credit hours
- Emergency management including first aid and CPR and emergency, antidotes administration , clinical evaluation, decontamination, supportive therapy and disposition	1.5/22.5	1.5/45
- Toxicology screening role of clinical laboratory		
- Electrocardiographic manifestations of toxic agents		
- Special considerations in pregnancy, pediatric and geriatric poisoning.		
- Hemoglobin toxins		
- Acid-base balance in the poisoned patient		
- Anion and osmolar gaps		

Medical toxicology	Total lectures' credit hours	Total Practical/clinical's credit hours
- Analgesics & anti-inflammatory	2/30	1/30
- Cardiac drugs		
- Antihistamines		
- anticholinergics		
- Muscle relaxers		
- Hypoglycemic agents		
- Anticoagulants		
- Theophylline		
- Isoniazid and antimicrobials		
<u>Total credit/actual hours</u>	<u>4/60</u>	<u>3/90</u>

4) Teaching and learning methods

4.1 Lectures. (a1-a3,b1,b2,b4, c1,d2,d6)

4.2 Seminars. (a1-a3,b1-b4, c1, c4, d1-d3,d6)

4.3 Clinical training in poison control center and casualty units in Emergency Hospital. (b1-b5, c1-c4,d1,d2, d4-d6)

4.4 Laboratory training in the clinical toxicology laboratories. (c2, c3 ,d1-d3,d6)

4.5 Problem based learning.(a2,b1, b2, b4, b5, c1, c3, c4, ,d2,d4,d6)

4.2 Self learning. (a1-a3,b1-b4, d2,d3,d6)

5) Student Assessment:

At the end of each semester:

1. Log book: at least 75% of attendance.
2. End of semester exam: at least C⁻ is required.
3. It is a part of the final exam.

At the end of the first part:

1. Written exam to assess (a1- a13, b1-b5)
2. Practical & clinical exam to assess(c1-c4)
3. Oral exams to assess (b1-b5)
4. Log book activity assignment to assess (d1-d6)

6) Weighing of assessments in the final exam:

Written examination	210
Clinical examination:	70
Practical examination:	50
Oral examination:	60
Semester work	Formative only
Total	390

7) List of references:

7.1 Text books

- Emergency toxicology.
- Critical care toxicology.
- Poisoning and drug overdose.
- Goldfrank's manual of toxicologic emergency.
- Parikh's text book of jurisprudence and toxicology.

7.2 Periodicals and web sites

- Journal of applied toxicology.
- Journal of toxicology and environmental health.
- Journal of occupational medicine and toxicology.
- Journal of toxicology – an open access

8) Other resources/ facilities required for teaching and learning to achieve the above ILOs

- Laboratory equipments for toxin screenings.
- Extension of poison control center in emergency hospital to ensure good clinical training for clinical toxicology.
- Chemicals for laboratory tests.
- Availability of models for training on life support measures in poisoning.

9) We certify that all of the information required to deliver this course is contained in the above specifications and will be implemented.

We verify that the above course and the analysis of students and external evaluator opinions are accurate.

Course coordinator

Name.....signature.....Date.....

Head of department

Name.....signature.....Date.....

Head of quality assurance unit:

name.....signature.....Date.....