



## COURSE SPECIFICATION

# Faculty of Medicine- Mansoura University

# (A) Administrative information

Ph.D degree of clinical pharmacology
Clinical pharmacology department
Clinical pharmacology department
First part
10/7/2016
9-8-2016
Bioassay
CPHARM 606 BA
15
1

# (B) Professional information

### (1) Course Aims.

The broad aims of the course are.

 Acquire knowledge related to drug screening and bioassay of, to enhance future drug development and clinical trials.

## (2) Intended Learning Outcomes (ILOs):

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

## A- Knowledge and Understanding

- 1. Summarize how to screen for agonist and antagonist activity of drugs.
- 2. Name physiological salt solutions, units, levers and methods of collection of blood samples
- 3. Describe Screening methods for serotonergic, histaminic & antihistaminic activity.
- 4. Study experimental models for Screening of analgesic, anti-inflammatory, antidepressant, anticonvulsant, anti-parkinsonian, anti-alzheimer activity and local anesthetic drugs.
- 5. Outline experimental models for Screening of anti-diabetic, anti-hypertensive and antitumor activity.
- 6. Discuss acute and chronic toxicity studies in animals.

## B- Intellectual skills

1. Evaluate early phase studies of drug action in animals.

# (3) Course content.

Topics	Lectures	Laboratory
Types, methods and conditions of bioassay	1	_
(Biological variability)		
Animal toxicity assay.	1	-
Physiological salt solutions, units, levers.	1	
Standard techniques of drug injection and collectio		-
blood samples.		
Bioassay of agonists and antagonists	1	-
Screening for drugs treating peptic ulcer	1	_
Screening for histamine & antihistaminics	1	-
Screening for analgesics and	1	_
anti-inflammatory		
Screening for antidepressants	1	-
Screening for serotonin& antipsychotics	1	_
Screening for anticonvulsants & antiparkinsonins	1	_
Screening for local anesthetics	1	_

Screening for antialzheimer	1	-
Screening for antidiabetics	1	-
Screening for Diuretics & antihypertensive	1	-
Screening for chemotherapy	1	_
Total teaching hours:	15	-

### (4) Teaching methods.

4.1. Lectures.

### (5) Assessment methods.

5.1. - Written exam for assessment of knowledge & intellectual ILOs.

5.2. – MCQ exam at the end at the semester for assessment of knowledge & intellectual ILOs

Assessment schedule.

الدرجة تمريري	الاختبار		المقرر
۱۰۰	۸.	اختبار تحريري مدته ثلاث ساعات	المعايرة الحيوية
	۲.	اختبار MCQ	

#### (6) References of the course.

6.1. Text books.

Experimental pharmacology and therapeutics.

6.2: Journals:

Pharmacological reviews, ..... etc

#### (7) Facilities and resources mandatory for course completion.

- Computer labs with open access to medical research databases
- Upgraded library

- Induction course introducing study skills.
- Candidate's logbook.
- Internet with a wide range of learning support material.

Course coordinators.

- Prof. Dr. Hussein Mahmoud El Beltagy
- Prof. Ali Gaballa
- Prof. Dr. Mohamed-Hesham Daba
- lecturer. Mohamed abo el kheir
- Assisstant lecturer. Hanan Eisa

Head of the department.

Prof. Dr. Hussein Mahmoud El Beltagy