



COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Program offering the course.	Pharmacology
(2) Department offering the program.	General surgery
(3) Department responsible for teaching the course.	Clinical Pharmacology
(4) Part of the program.	First Part Master degree General Surgery
(5) External evaluator(s)	Prof. Dr. Alaa Khalil Zagazig Faculty of Medicine
(6) Date of approval by the Department's council	27/5/2013
(7) Date of last approval of program specification by Faculty council	9/8/2016
(8) Course title.	Clinical Pharmacology
(9) Course code.	SUR 505
(10) Total teaching hours.	15

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

To enable the candidate to integrate the data of pharmacology properly in the daily practice of Surgery and to incorporate the data of commonly prescribed medications properly for the optimal management for the surgical patient.

Within the overall aim, the objectives of the Program are as follows.

1. Teaching the basic medical science related to Clinical surgical practice with concern to the pharmacological aspects of the medications used in the treatment of the surgical patient and their side effects.
2. Integrate different aspects of clinical pharmacology with other surgical factors that may affect the decision making in the management process.
3. Training the candidates for proper selection of antibiotics and analgesics in the optimal way to manage surgical patients.
4. Training the candidate how to search for the recent knowledge and how to apply this in his field.
5. Communicate and interpret data of different medications and how to reach to a conclusion about the most suitable drug for each surgical patient.
6. Provide the candidate with pharmacokinetics and pharmacodynamics basis of different medications used in surgery including anesthetic medications.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

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

A- Knowledge and Understanding

- A1. To recognize the basics of general pharmacology including the mechanism of action and molecular structure of each medication.
- A2. Recognize the essential adverse effects of commonly prescribed drugs as antibiotics, analgesics, H2 BLOKTERS, proton pump inhibitors , antiemetics, and corticosteroids.
- A3. Explain the basic concepts about pharmacologic management of circulatory disturbances as shock, edema, and hemorrhage.
- A4. Explain the basic concepts about the pharmacologic management of digestive diseases as peptic ulcer, cholecystitis, intestinal obstruction, pancreatitis, hemorrhoids, inflammatory bowel diseases and GI bleeding.
- A5. Explain the basic concepts about the pharmacologic management of vascular disorders as peripheral vascular diseases, limb ischemia, varicose veins, DVT.
- A6- Recognize the fundamentals of gene therapy and new types of targeted therapies.

2- Intellectual activities (I)

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

B- Intellectual skills

B1. Determine the proper medication and the proper dose and duration of therapy for different surgical conditions.

B2. selecting the most appropriate medication according to the patients' condition and co-morbidities so to avoid possible adverse effects of the medication.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
<ul style="list-style-type: none"> • General Pharmacology • Fluid therapy • Piles treatment • Upper GIT bleeding • Inflammatory bowel diseases • Medical treatment of cholecystitis • Treatment and complications of diabetes mellitus • Peripheral vascular diseases • Deep venous thrombosis • Medical treatment of acute pancreatitis • Gene therapy • Ischemia • Corticosteroids • Analgesics (opiate & non opiate) • Sedatives & muscle relaxants • Chemotherapy&Chemoprophylaxis • Hemostatics & anticoagulants • Diuretics • Parasympatholytics & parasympathomimetics 	15	None	None	None	15

(4) Teaching methods:

4.1. Lectures

Assessment methods:

5.1. written exam for assessment of knowledge and intellectual activities.

5.2. M.C.Q exam for assessment of understanding and intellectual activities.

Assessment schedule:

Final exam at the end of the first semester.

MCQ exam at the end of the first semester.

Percentage of each assessment to the total mark:

Written exam: 48 marks

M.C.Q: 12 marks.

Oral exam: 40 marks.

Other assessment without marks: logbook

(5) References of the course:

6.1. Hand books: Departmental book

6.2. Text books: Text Book of Pharmacology (Seth SD)

6.3. Journals:

6.4. Websites:

6.5. Others

(6) Facilities and resources mandatory for course completion:

Lecture halls

(7) Evaluation of Program's intended learning outcomes (ILOs):

Evaluator	Tools*	Signature
Internal evaluator (s) Prof.Dr. Mohamed Farid Prof.Dr.Mohamed Abdelwahab Prof.Dr. Moh. Diaa El-Zawahry	Focus group discussion Meetings	
External Evaluator (s) Prof.Dr. Alaa khalil	Reviewing according to external evaluator checklist report.	
Senior student (s)	none	
Alumni	none	
Stakeholder (s)	none	
Others	none	

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

We certify that all information required to deliver this program is contained in the above specification and will be implemented. All course specification for this program are in place.	
Program coordinator: Dr. Sameh Hany Emile Lecturer of General Surgery. Mansoura University	Signature & date:
Head of the department: Prof. Dr. Nazem Shams Professor of General and surgical oncology. Mansoura University	Signature & date:
Dean: Prof. Dr. El-Said Abdelhady	Signature & date:
Executive director of the quality assurance unit: Prof. Dr. Seham Gad El-Hak	Signature & date:

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