



COURSE SPECIFICATION

Clinical Chemistry

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	MD Degree of Histology & Cytology
(2) Department offering the programme.	Histology and Cell Biology Department
(3) Department responsible for teaching the course.	Clinical pathology
(4) Part of the programme.	Second part
(5) Date of approval by the Department`s council	3-5-2016
(6) Date of last approval of programme specification by Faculty council	8-9-2016
(7) Course title.	Clinical chemistry
(8) Course code.	HIST 602 CC
(9) Credit hours.	2
(10) Total teaching hours.	30

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows.

The aim of this course is to prepare the candidate to be professional in the field of clinical chemistry through increasing his/ her awareness about.

1. The laboratory data of normal human and different pathological conditions
2. The significance of laboratory data in diagnosis of many diseases.

(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

- A 1- Recognize the basic physiology of the renal function
Identify the basic categories of renal diseases (glomerunephritis, acute and chronic renal failure, and uremic syndrome)
- A 2- Recognize the laboratory analytic methods for the assessment of renal function
- A 3- Discuss the aetiology of liver diseases and the causes of hepatocellular injury
- A 4- Describe the dynamics of the liver enzymes and their clinical utility
- A 5- Know the liver nonenzymes analysis as albumin, ammonia, bile acids, urea, cholesterol.
- A 6- Recognize the clinical manifestation of pancreatic disorders and its diagnostic methodologies
- A 7- Discuss physiology, biosynthesis and metabolism of hormones secreted from adrenal gland.
Know the definition, classification, biochemistry and distribution of tumor markers
- A 8- Identify the pathophysiology of congestive heart failure and myocardial infarction
- A 9- Recognize the utility of different markers of coronary artery diseases.

B1 Integrate basic laboratory data used to assess different diseases as cardiac, kidney, liver, gastrointestinal diseases.

B 2 Analyze laboratory data of normal human.

(3) Course content.

Subjects	Lectures	Clinical	Laboratory	Seminars	Total Teaching Hours
1- Renal function tests		-----	-----	-----	6
• Glomerular	3				
• Tubular	3				
2- liver function tests		-----	-----	-----	6
• aetiology of liver diseases	2				
• actual liver function	2				
• hepatocellular injury	2				
3- pancreatic disorders	4	-----	-----	-----	18
4- adrenal gland	5				
5- tumor markers	4				
6- Markers of coronary artery diseases.	5				

(4) Teaching methods.

4.1. Lectures

4.2. Self learning (internet search for specific topics)

(5) Assessment methods.

Written exam (80%) = 40 marks

MCQ exam (20%) = 10 marks

Total. 50 marks

(6) References of the course.

6.1. Hand books: Guide to clinical pathology book.

6.2. Text books: Tietz textbook of clinical chemistry and molecular diagnosis.

6.3. Journals: Clinical Chemistry Journal.

(7) Facilities and resources mandatory for course completion.

Data show for power point presentations

Library

Computers

Course coordinator: Dr. Shireen Mazroa

Assistant coordinator: Dr. Walaa Hamed

Head of the department: Prof Dr. Salwa Gawish

Date: