



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

<input type="checkbox"/> Programme offering the course:	Postgraduate M Sc program of family medicine
<input type="checkbox"/> Department offering the programme:	Internal medicine, Obstetrics and gynecology, pediatrics, general surgery, Public health, psychiatry , dermatology, ophthalmology , ENT, clinical pharmacology and clinical pathology (Multidiciplinary)
<input type="checkbox"/> Department responsible for teaching the course:	Internal medicine department
<input type="checkbox"/> Part of the programme:	Second part (second, third and fourth semesters)
<input type="checkbox"/> Date of approval by the Department`s council	25/7/2016
<input type="checkbox"/> Date of last approval of programme specification by Faculty council	9/8/2016
<input type="checkbox"/> Course title:	Internal medicine course for family medicine (including emergencies and geriatrics)
<input type="checkbox"/> Course code:	FAM510
<input type="checkbox"/> Total teaching hours:	210

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

The objective of this course is to update primary care practitioners in current thinking about various diagnostic and therapeutic challenges commonly encountered in clinical practice. The course aim to provide them with the knowledge and skills necessary to become competent in the diagnosis and management of internal medicine conditions of the adult and geriatric population to be able to implement what they have learned into their daily practice.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

- A1. Describe the Principles of complete history taking and physical examination of the adult patients .
- A2. Recall the normal anatomy and physiology of adults.
- A3. Recognize the causes, pathophysiology, and clinical manifestations of common medical conditions including cardiovascular, gastrointestinal , endocrinal, renal ,hematological , musculoskeletal, infectious and pulmonary disorders that may be encountered to the family physician in routine setting.
- A4. Recall the management of common medical disorders of the adult patients seen by the family physician.
- A5. Identify the dangerous signs (red flags) and when referral to a specialty is indicated.
- A6. Identify the clinical manifestations and initial management of common medical emergencies that could be encountered by

B- Intellectual skills:

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

- B1. Take a comprehensive history for adult and elderly patients presented with common medical complaints
- B2. use proper consultation skills during patients' interviews.
- B3. Select appropriate investigations for cost effective health care.
- B4. . Analyze and interpret the laboratory and radiological findings and correlate the findings with the clinical findings.
- B.5 apply rational treatment strategies and utilize effective methods for rationalizing administration for drugs.
- B 6. Develop a rational plan of care for his patient including identification and reduction of risk.
- B7. Identify emergency medical conditions presented to the family physician and Integrate and efficiently utilize various resources for the management of these cases.
- B8..Appropriately refer patients for secondary and tertiary care when indicated.
- B9. Recognize the importance of time in early detection of diseases and identification of risk factors.
- B10. Apply evidence based medicine principles in clinical decisions and balance between clinical judgments and evidence-based practice guidelines.

C- Professional/practical skills

- C1- obtain a properly conducted history taking.
- C2- Perform clinical examination of patients with common medical problems encountered to the family physician.
- C3- appropriately perform clinical assessment of patients with emergency conditions.
- C4- Perform and interpret ECG.
- C5- Interpret radiological and routine laboratory findings.
- C6- perform paracentesis abdominis.
- C7- Perform immediate life support measures including cardiopulmonary resuscitation when indicated.
- C8- Properly use nebulizers and inhalers.
- C9-appropriate diagnosis and management of common geriatrics problems including : Urinary incontinence, falls, Alzheimer and dementia, nutritional problems as well as abnormal presentation of common diseases in the elderly).
- C10 - Apply infection control measures during care for patients.

D- Communication & Transferable skills

- D1. Recognize that good medical practice depends on partnership between doctors patients.
- D2. Respect dignity, privacy and rights of patients.
- D3. Commit to provide equal health care services to all patients.
- D4. Be able to work effectively within multidisciplinary teams to request appropriate investigations and initiate management for acute emergency cases.
- D5. Respect the role of other members in the healthcare team accepting principles of collective responsibility and consulting colleagues when appropriate.
- D6. Identify his own strengths, weaknesses and learning needs and be prepared to continuous medical education.

(3) Course content:

The course fulfils 4 credit hours of theoretical teaching + 1 credit hour of clinical teaching in internal medicine department + 2 credit hours of field training in family health centers through second , third and fourth semesters including the following topics:

History taking and clinical examination of the adult and elderly patients
Pathogenesis, clinical manifestations, investigations and management of common medical conditions including :

- **GIT and hepatic disorders** (jaundice, hepatitis, Liver cirrhosis, dysphagia , GERD, peptic ulcer ,Abdominal pain, IBD, IBS, constipation & diarrhoea)
- **CVS disorders** (HTN, IHD, Heart failure, A F , infective endocarditis)
- **Endocrinal and metabolic disorders** (DM , obesity & metabolic syndrome, thyroid , adrenal , lipid disorders)
- **CNS disorders** (headache, Coma, TIA, stroke, epilepsy, MS, peripheral neuropathy)
- **Respiratory disorders** (bronchial asthma, COPD, pneumonia, TB, bronchial carcinoma)
- **Blood diseases** (anaemias, bleeding tendency, leukemia, lymphoma)
- **Urinary tract infections and renal failure**
- **Rheumatologic disorders** (OA, gout, osteoporosis, RA, SLE, back pain)
- **Infections and Pyrexia of unknown origin (PUO).**

Common medical emergencies diagnosis and management including acute chest pain, comas, dyspnea, convulsions, anaphylaxis, poisoning and cardiac life support.

Recognition of dangerous signs (red flags) , when referral is indicated.

Basic evidence based medicine principles and application of evidence based guidelines.

Interpretation of laboratory results, ECG, and radiologic findings.

Common geriatrics problems including :

Urinary incontinence, falls, Alzheimer and dementia, nutritional problems, temporal arteritis, Parkinson's disease and abnormal presentations of common diseases in the elderly.

Procedural skills:

Cardiopulmonary resuscitation

ECG

IV fluids and injections

Paracentesis abdominis

X ray and lab interpretation

Use of inhalers and nebulizers

Subjects	Lectures /week	Clinical / Practical /week	Field training at Family health centers	Total teaching hours /week	Credit Hours
<p><u>Module 1: Internal medicine (1)</u> Endocrinal and metabolic disorders (DM , obesity & metabolic syndrome, thyroid , adrenal , lipid disorders) CNS disorders (headache, Coma, TIA, stroke, epilepsy, MS, peripheral neuropathy) <u>General internal medicine including Evidence based medicine</u> principles and application of evidence based guidelines <u>Common geriatrics problems including</u> : Urinary incontinence, falls, Alzheimer and dementia, nutritional problems, temporal arteritis, Parkinson’s disease and abnormal presentations of common diseases in the elderly.</p>	2	2	4	8	
<p><u>Module 2: Internal medicine (2)</u> GIT and hepatic disorders (jaundice, hepatitis, Liver cirrhosis, dysphagia , GERD, peptic ulcer ,Abdominal pain, IBD, IBS, constipation & diarrhoea) Blood diseases (anemia, bleeding tendency, leukemia, lymphoma) Rheumatologic disorders (OA, gout, osteoporosis, RA, SLE, back pain)</p>	1	2	2	5	

Module 3: Internal medicine (3)	1	2			
CVS disorders (HTN, IHD, Heart failure, AF , infective endocarditis)					
Respiratory disorders (bronchial asthma, COPD, pneumonia, TB, bronchial carcinoma)			2	5	
Urinary tract infections and renal failure					
Infections and Pyrexia of unknown origin (PUO).					
Total teaching hours	60	30	120		4 theoretical 1 clinical 2 field

(4) Teaching methods:

- 4.1: Lectures with power point presentations and discussions.
- 4.2: Interactive bedside teaching with clinical case presentations of difficult and interesting cases and group discussions
- 4.3: Problem solving case scenarios (commentary) .
- 4.4: Seminars and presentation of an essay by the postgraduate students.
- 4.5. Workshops and training courses for procedural skills.
- 4.6. Attendance of activities in the department including thesis discussion, conferences , clinical rounds, outpatient clinics , procedures ...with both senior staff and junior staff

(5) Assessment methods:

Assessment schedule:

I. Continous assessment after completion of each module :

An MCQ exam is done each semester at the end of each module and the sum of the 3 exams equal 20% of the written final exam.

II. Final exam :

- Assessment 1: Written exam (short essay questions and case scenarios= 200 marks).
(For assessment of knowledge and intellectual skills)
- Assessment 2: Clinical exam (an OSCE exam = 200 marks)
(for assessment of practical and communication skills)

Other assessment without marks:

Log book for assessment of the attendance and activities throughout the course.

(6) References of the course:

Lecture *notes*

Practice Guidelines For Family Physicians

Kumar and Clark : Clinical medicine (last edition)

Internet based resources (, websites e.g. Pubmed, MDconsult , emedicine , tripdatabase ...

(7) Facilities and resources mandatory for course completion:

Candidates and their learning are supported in a number of ways:

Presence of data show and computer facilities

Presence of skill lab

Course coordinator: Professor Omayma Saleh

Head of the department: Professor Salah Elgamal

Date: 25 / 7/ 2016