COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate M Sc program of Internal medicine
(2) Department offering the programme:	Internal medicine
(3) Department responsible for teaching the course:	Internal medicine department
(4) Part of the programme:	Elective course , Second part (third semester)
(5) Date of approval by the Department`s council	1/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Evidence based medicine course for internal medicine
(8) Course code:	MED510ebm
(9) Total teaching hours:	15 hours

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

Train candidates to practice the skills involved in evidence-based medicine including clinical question formation and acquisition of medical evidence from the literature. Review and develop critical appraisal skills and application of available evidence to patient care and medical education.
Provide interactive experience with a variety of evidence-based resources.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1. List the definition of evidence based medicine.
A2. Explain what evidence based medicine really mean.
A3. List the steps of evidence based practice.
A4. Describe how to formulate a clinical question .
A5. Outline the levels of evidence and the grades of recommendation.
A6. Outline the information resources for searching for evidence.
A7. Describe the different types of study designs .
A8. Recall descriptive and inferential statistics.
A9. Recall the historical background of evidence based medicine
A10. Recall the glossary of terms used in evidence based medicine

B- Intellectual skills:

B1. Formulate a clinical question using PICO format.
B2.appraise an article on therapy regarding validity .
B3.interpret the results of a therapy trials regarding the risk reduction and number needed to treat.
B4.differentiate between the levels of evidence and choose the most appropriate type of study to answer the clinical question.
B5.analyse the results of a diagnosis article and critically appraise it.
B6.critically appraise a meta-analysis paper.
B7. Evaluate the results of studies regarding its applicability on their patients.
B8. Evaluate the practice guidelines and decide if it is applicable to the type of patients they encounter.
B9. Interpret statistical methods and significance measures.

C- Professional/practical skills

By the end of the course , the candidate will be able to:

C1.perform a computer search for evidence for a formulated clinical question.
C2. Write a CAT report
C3- Calculate the absolute risk and relative risk reduction as well as the number needed to treat for a therapy article .
C4. Calculate the sensitivity , specificity , odd's ratio and predictive value for a diagnostic study.
C5. Perform statistical analysis .
C6. Acquire computer and internet searching skills.
C7. Acquire and consolidate computer and internet navigation skills.

D- Communication & Transferable skills

D1.Respect the role of other members in the healthcare team accepting principles of collective responsibility and consulting colleagues when appropriate.
D2. Identify his own strengths, weaknesses and learning needs and be prepared to continuous medical education.
D3. Accept the uncertainity in some aspects and be able to search and gain information
D4.master information technology in health science and other aspects.
D5. Be prepared for life long learning through the concept of evidence based medicine.
D6. Accept the changes in health sciences as well as other aspects and be prepared to cope with.

(3) Course content:

The course fulfils 1 credit hour through fourth semester including the following topics:

Subjects	Lectures	Seminars	Practical	Total teaching hours	Credit Hours
Introduction to evidence based medicine: history, definitions & steps of EBM.	1			1	1 credit hour
Formulation of clinical questions: PICO	1	1		2	
Searching for evidence and EBM resources	1		1	2	
Levels of evidence and types of studies	1			1	
Critical appraisal of a therapy paper	1		1	2	
Critical appraisal of a diagnosis paper	1		1	2	
Critical appraisal of meta-analysis paper	1		1	2	
Applying the evidence , assessment and conclusions	1			1	
Evidence based guidelines	1			1	
				15	

(4) Teaching methods:

4.1: Lectures with power point presentations and discussions.

4.3: Problem solving case scenarios .

4.4:Seminars and presentation of solved case scenarios by the postgraduate students.

4.5. Workshops for searching skills and critical appraisal skills.

(5) Assessment methods:

Assessment schedule:

I. Continous assessment after completion of the course:

An MCQ exam is done each semester at the end of the course

II. Final exam :

Assessment 1: Written exam (short essay questions and case scenarios). (20 marks)

Assessment 2: an oral exam (20 marks)

Other assessment without marks:

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

(6) References of the course:

Lecture notes

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

Course coordinator: Professor Omayma Saleh

Head of the department: Professor Salah Elgamal

Date: 1/ 2016