



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Clinical nephrology, dialysis and			
	renal transplantation (MD)			
	NEPH610			
(2) Department offering the programme.	Internal medicine Department:			
	Nephrology unit			
(3) Department responsible for teaching the	Internal medicine Department:			
course:	Nephrology unit			
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(4) Part of the programme.	First part (Semester 1)			
(5) Date of approval by the Department's				
council	5/11/2014			
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(6) Date of last approval of programme	010			
specification by Faculty council	9/8/2016			
(7) Course title:	Evidence-based medicine, critical appraisal			
	of clinical research			
(8) Course code:	NEPH610EB			
(9) Total teaching hours.	15 (1 credit hour)			

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(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

- Provide knowledge about study design and how to run one and develop updated concepts about medical biostatistics.
- Emphasize on critical appraisal of clinical research and identification of different types of bias and how to avoid.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

- A 1 Recall the basics of study design and how to run a randomized clinical trial
- A 2 Show sufficient knowledge of basics of medical biostatistics
- A 3 Correlate between evidence based medicine and best practice in nephrology
- A 4 Identify different types of bias and how to nullify
- A 5 Identify how to critically appraise clinical research

B- Intellectual skills

- B1 Analyze and perform appropriate learning activities and prepared to be able to transform these activities through teaching.
- B2 systematically analyze practice using *quality improvement methods* , and implement changes with the goal of practice improvement.
- B3 run scientific research and formulate scientific papers.
- B4 locate, appraise, and assimilate evidence from scientific studies related to their patient's health problems, i.e. adopt an *evidence based approach*.

C- Professional/practical skills

D- Communication & Transferable skills

(3) Course content: Compulsory

Lectures: 1 hour/week(15 weeks)

Course title	Code	Lectures Hours/	Seminars Hours/	Total	Total Teaching	Credit Hours
		week	week		Hours	
Evidence-based medicine, critical appraisal of clinical	NEPH610EB	1	0	1	15	1
Research						
Study design						
How to carry a randomized clinical trial						
Medical biostatistics: how to select a proper statistical test?						
Medical biostatistics: pitfalls in Medical biostatistics						
How to test the diagnostic performance o a new diagnostic						
Modality						
Bias						
Making evidence-based decisions						
Evidence-based practice: toward clinical outcomes						
Evidence-based medicine: guidelines development						
Critical appraisal of clinical research						
Critical appraisal of nephrology guidelines						

(4) Teaching methods:

- 4.1:lectures with power point presentations and discussions
- **4.2: Seminars**
- 4.3: Problem solving case scenarios

(5) Assessment methods.

5.1:written exam

5.2: online MCQ exam(20% of written exam degrees)

Course	Assessment	Marks
Evidence-based medicine and	Written exam (1.5 hours)	40
critical appraisal of research	MCQs exam	10

Assessment schedue:

First part examination, 6 months from admission to the program:

Assessment 1: Written exam

Assessment 2: Online MCQ exam

Other assessment without marks: logbook

(6) References of the course.

Textbooks

• Essential Evidence-Based Medicine ,Second Edition, 2010 by Dan Mayer, MD

Periodicals

- Journal of Medical Statistics and Informatics
- (7) Facilities and resources mandatory for course completion.
 - Lecture halls
 - Intranet with a vast learning material
 - Program specification and handbooks
 - Candidates logbook
 - A very rich library and computer laboratories

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Course coordinator:

- Prof. Mohammed Sobh (General supervisor)
- Prof. Hussein Sheashaa (Academic guide)

Head of the department.

Prof. Salah El Gamal

Date: 5/11/2014