

Course specification of Statistics, Epidemiology and medical ethics for Hepatology medicine master

A- Administrative Information
Course Title: Statistics, Epidemiology and medical ethics
Code: UNI700
Department giving the course: Community medicine and public health department
Program on which the course is given: Master degree for all specialities
Department offering the Program: All departments of National liver Institute.
Academic level: 1st part
Date of specification/revision: 2011
Date of approval by Departmental and Institute Council: 2011

B- Professional Information
1 – Overall aims of course:
1 - To advance acquisition of basic knowledge of epidemiology .
2- To acquire practical skills relevant to further public health practice and basic of primary health care related to hepatology medicine such as:
   a- Using epidemiology and biostatistics
   b- Applying basics of health economics,
   c- Detection and investigation and anticipation of important public health problems affecting liver (communicable, non communicable and nutrition),
   d- Work effectively within a team.
   e- Acquiring capabilities of successful communication with community leader and health team
4- Identify and review relevant laws and regulations regarding health system in Egypt.
5- Recognize ethical, cultural, and social issues related to a particular health problem.
6- Plan for appropriate use of available resources.
7- Design and conduct an epidemiological study.
8- Design and operate a surveillance system.
9- Select and conduct appropriate statistical analyses.
10- Design and conduct an outbreak or cluster investigation.
11- Apply the principles of clinical preventive medicine of hepatic diseases.
2- Intended learning outcomes of course (ILOs)

a- Knowledge and Understanding:
By the end of the course the post graduate will be able to:
A1: Demonstrate prevalent health problems related to hepatology medicine.
A2: Illustrate different healthcare programs related to hepatology medicine.
A3: Describe various epidemiological strategies and appropriate statistical test.
A4: Identify environmental variables affecting liver.
A5: Identify nutritional assessment in variable liver diseases.

b- Intellectual skills
By the end of the course the post graduate will be able to:
B1: Integration of resources for program implementation.
B2: Translation of epidemiological findings into recommendations for a specific intervention.
B3: Communicate ideas effectively.

c- Professional and practical skills
By the end of the course the post graduate will be able to:
C1: Assess and respond to individual and population health hazards.
C2: Formulate policy for a given health issue.
C3: Design, implement and evaluate health services for both individuals and populations.
C4: Use objective, measurable criteria such as epidemiological impact and cost effectiveness.
C5: Design epidemiological research.
C6: Analyze statistical data

d- General and transferable skills
By the end of the course the post graduate will be able to:
D1: Express freely and adequately themselves by improving descriptive capabilities and communication skills.
D2: Demonstrate ethical relationship with staff members.
D3: Develop attitudes that will maximize their educational experiences.
D4: Think and respond properly when solving public health problems appropriately address different problems.

3- Contents

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<th>Topic</th>
<th>Theoretical hours</th>
<th>Laboratory/Practical</th>
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4– Teaching and learning methods
4.1 Lectures for knowledge and understanding -
4.2 Regular scientific seminars
4.3 Problem Based Learning
4.4 Tutorials for open case discussion

5- Student assessment methods
5.1 Written Exam to assess (a1, a2, a3, a4, a5, a6, a7, a8, b2, d1, c6, c7,)
5.2 Oral Exam to assess (a1, a2, a3, a4, a5, a6, a7, a8, b2, b3, c1, c2, c3, c4, d1, d2, d3)
5.3 Log Book to assess (b1, b2, b3, c1, c2, c3, c4, c5, c6, c7, d3, d4)

Assessment schedule:
One written exam 3hr in Statistics, Epidemiology and medical ethics(150 mark) + oral exam (50 mark)

Weighting of assessments
Final written examination: 75%
Oral examination: 25%
Total: 100%
Any formative only assessments:

6- List of references
6.1- Course notes
books authorized by department
6.2- Essential books (text books)
Maxey Rosenau text book (Wallace Ed.) the statistical part.
6.3- Recommended books
Publications of national and international public health organization; EMOHP, WHO, CDC and APHA
6.4- Periodicals, Web sites, etc
Pubmed website
WHO website

7- Other Resources / Facilities required for teaching and learning to achieve the above ILOs
- Overhead projectors
- Computers and Data show

*We certify that all of the information required to deliver this course is contained in the above specification and will be implemented*

*Course coordinator:*
*Name: Dr. Wessam Saber*