

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 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:

B 1: 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

Topic	Theoretical hours	Laboratory/ Practical	Total

1 -medical statistics (definition function),Types and collection of data	1	.5	1.5
2 -Sampling technique	1	1	2
3 -Methods of representation of data, tests of significance	1	1	2
4- statistical analysis of association	1	.5	1.5
5- general epidemiology, diseases Burden	1	.5	1.5
6 - surveillance system	1	1	2
7- screening system	1	1	2
8-study design	1	1	2
9 - research method	1	1	2
10 -Environment and liver	1	1	2
11_ nutrition and liver	1	1	2

Total hours	11	9	20
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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