This file has been cleaned of potential threats.	
To view the reconstructed contents, please SCROLL DOWN to next page.	



جامعة المنوفية/ كلية الطب قسم الصحة العامة وطب المجتمع

Evidence based medicine (Basics of medical research and Biostatistics) module

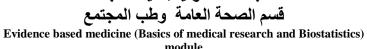




Evidence based medicine (Basics of medical research and Biostatistics) module

Study guide







Study guide

السيد الأستاذ الدكتور /عميد الكلية

تحية طيبة و بعد

نحيط سيادتكم علما بأن مجلس قسم الصحة العامة وطب المجتمع المنعقد بتاريخ ٢٠٢٣/٩/٣ قد قرر اعتماد study guide الخاص بموديول البحث العلمي لعام study guide

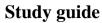
Module Title:	Evidence based medicine (Basics of medica research and Biostatistics) module	
Module Code:	EBM/BMR/B 2104	
Academic Year:	2023 /2024	
Semester:	Third semester	

MODULE CONTENTS

Content	Page
Module Specification: Administrative data of the module	3
Module Specification: General data and information of the module	4
Welcome message	5
Overall aims and learning outcomes of the module	6
Module Syllabus	8
Methods of teaching.	10
Assessment methods	11
Learning resources for the module.	13
	Module Specification: Administrative data of the module Module Specification: General data and information of the module Welcome message Overall aims and learning outcomes of the module Module Syllabus Methods of teaching. Assessment methods



جامعة المنوفية/ كلية الطب قسم الصحة العامة وطب المجتمع Evidence based medicine (Basics of medical research and Biostatistics) module



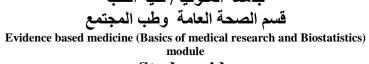


Module Specification

Module Identification:

Institution:	Menoufia Unive	rsity.	
College:	Faculty of Medic	cine.	
Midule Tille allu	Evidence based medicine (Basics of medical research and Biostatistics) module Code: EBM/BMR/B 2104		
	Name:	Dr. Asmaa Sharfeldin	
Module Coordinator	Office: ۲ مدرج الدور السادس		
	Office hours	one hour for lecture1.5 hour for practical session	
	Telephone	Mobile: 01004820099	
	e-Mail	asmaasharfeldin@gmail.com asmaasharfeldin@med.menofia.edu.eg	
Module members	Members of Community Medicine and Public Health Department		







Study guide

Module General Information:

Academic Year:	(2023/2024)			
Semester:	• First.	• First.		
	o Second.			
	One.			
Student Level	• Two.			
(Studying Year)	o Three.			
	O Four.			
	O Five.			
	O Six.			
Module Type:	○ Introductory.			
	• Core.			
	O Elective.			
	O Special.			
Module Duration:	8 Weeks			
Credit Hours:	2 Credit Hours.			
Contact hours	Lectures	Practical	Activities	
	12	18	27	
Pre-requisites (If any):	-			
Module Location/s:	Blended (Online platform on EKB for activity discussion, and faculty classrooms for lectures and practical)			



جامعة المنوفية/ كلية الطب قسم الصحة العامة وطب المجتمع Evidence based medicine (Basics of medical research and Biostatistics)



Study guide

Welcome Message:

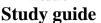
My dear students, you are welcome to the Evidence Based Medicine (Basics of medical research and biostatistics) module. This module is prepared in a manner that would prepare a scientific research -oriented physician capable of conducting different types of study designs and be aware of essential knowledge of biostatistics.

Module Coordinator
Dr. Asmaa Sharfeldin



جامعة المنوفية/ كلية الطب قسم الصحة العامة وطب المجتمع

Evidence based medicine (Basics of medical research and Biostatistics) module





Overall aims and learning outcomes of the module

At the end of the module the students enrolled should be able to:

I – Overall aims of Module:

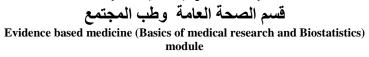
- **a.** To prepare a scientific research-oriented physician capable of implementing different designs of studies.
- **b.** To develop a graduate who is aware about importance of scientific research.
- **c.** To prepare a graduate who is aware about community problems need to beinvestigate.
- **d.** To develop a graduate who will apply the knowledge and skills learned, incommunity development and solving the community problems.
- e. To connect between medical statistics and its clinical application in thehospital.
- **f.** To identify evidence based medicine.

II - Intended Learning Outcomes:

Competency Area 1: The graduate as a health care provider.

Key	competency	Module ILOs
1.9	Retrieve, analyze, and evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).	 1.9.1. Define sources of data collections and different sampling techniques 1.9.2. Identify different types of data and convert it from type to type 1.9.3. Modulate different types of samples and define its proper use 1.9.4. Conclude a proper information and introduce beneficial recommendation for the problem solving. 1.9.5. Create practical solutions for the community problems. 1.9.6. Retrieve information and able to use the recent information and communications technologies. 1.9.7. Think and respond properly when solving public health problems, appropriately address different problems. 1.9.8. Effectively manage time and resources and set priority





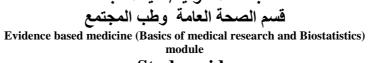


Study guide

Competency Area 6: The graduate as a lifelong learner and researcher.

Key cor	npetency	Module ILOs
6.8	Critically appraise research studies and scientific papers in terms of integrity, reliability, and applicability.	 6.8.1 Define research and list its components 6.8.2 Formulate a research question about a certain problem. 6.8.3 Criticize different research
6.9	Analyze and use numerical data including the use of basic statistical methods.	6.9.1 Define statistics, its functions and describe different types of data 6.9.2 Define morbidity, mortality and
		fertility indices 6.9.3 Identify test of significance appropriate of each type of data
		6.9.4 Demonstrate ethical relationship with faculty and staff members.6.9.5 Choose the best study design for
		the research objectives. 6.9.6 Differentiate between different types of study designs and their
		assumptions. 6.9.7 Minimize research bias and follow research ethics.
6.10	Summarize and present to professional and lay audiences the findings of relevant research and scholarly inquiry.	 6.10.1 Define different methods of data presentation; also describe different shapes of distribution of data 6.10.2 Acquire the skills to present data in its different forms (tabular, graphical and mathematical) 6.10.3 Express freely and adequately themselves by improving descriptive capabilities and communication skills







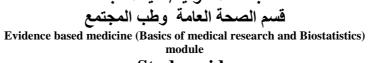
Study guide

E. Module Syllabus:

Lectures table

عضو هيئة	الموعد	الموضوع	اليوم
التدريس			,
أ.د/ داليا السيد	١-١٢ م	Research	الأحد
			9/4 \$
د. يسرا الغلبان	11,0_1.,0	Study design	الثلاثاء
	ص	(cross-sectional, case	9/77
		control, cohort)	
د. شیماء یحیی	17,0_11,0	Study design	الأحد
	م	(clinical trial, risk	1 - / 1
		management, bias)	
أ.د/ هبة علام	11,0_1.,0	Data&	الثلاثاء
	ص	Sampling	1 • / 1 •
د. عزيزة البدري	٥,٩_٥ ١٢,٥	Data presentation	الأحد
د. نهاد بدر		Normal distribution	1./10
		curve	
		Tests of significance	
أ.د/ زينب قاسمي	11,0_1,0	Vital statistics	الثلاثاء
د. شیماء شریف	ص	Hospital statistics	1 • / 4 1
د. غدیر ماهر	۹ - ۱ ص	Evidence based	السبت
		medicine	11/2







Study guide

Practical table

الهيئة المعاونة	الموعد	الموضوع	اليوم
ط. أسماء	۲٫۰_۱ م	Research	الأحد
ط.آية			9/4 £
ط. ابتسام	١-١١,٥	Study design	الثلاثاء
,		(cross-sectional, case	9/47
		control, cohort)	
ط. جهاد	٥,٢-١٢ م	Study design	الأحد
		(clinical trial, risk	1 • / 1
		management, bias)	
ط. سارة	٥,١١_١ م	Data	الثلاثاء
		Sampling	1 • / 1 •
ط. خلود	٥,٢١٥,٥ م	Data presentation	الأحد
			1./10
ط. سارة	٥,١١٥,٥ م	Normal distribution	الثلاثاء
		curve	1 - / 4 1
		Tests of significance	
		Hospital statistics	
ط. أنغام	٥,١١_٥,٢م	Vital statistics	السبت
			11/2
ط. فاطمة	11,0_1.	Evidence based	الثلاثاء
	ص	medicine	11/12
ط. مروة	١١,٥_١،	Revision	الاحد
	ص		11/19



Evidence based medicine (Basics of medical research and Biostatistics)







Teaching Methods

The following teaching / learning methods are used to promote better understanding:

- **Interactive Lectures/online**
- **Small Group Sessions**
- **Seminars**
- **Team-Based Learning**
- **Practical sessions**
- **Self-directed learning**
- **Interactive lectures:** In large group, the lecturer introduces a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients' interviews, exercises, etc. Students are actively involved in the learning process.
- Small group session: This format helps students to clarify concepts acquire skills or attitudes. Sessions are structured with the help \ \of specific exercises such as patient case, interviews or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials and self study. The facilitator role is to ask probing questions, summarize, or rephrase to help clarify concepts.
- **Practical Sessions**: Basic clinical practical sessions are scheduled for student learning. The practical teaching is conducted using:
- Clinical rounds
- Simulated patients
- Web based video and Multimedia applications
- Problem solving
- Self-directed learning: Students' assume responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from Learning Resource Center, teachers and resource persons within and outside the college. Students can utilize the time within the college scheduled hours of self-study.



قسم الصحة العامة وطب الـ

Evidence based medicine (Basics of medical research and Biostatistics)







Assessment of Module Outcomes

Methods of Student Assessment

A. Attendance criteria:

The minimum acceptable attendance is 75%, otherwise students failing toreach that percentage will be prevented from attending the final examination.

B. Types of Assessment:

- 1-Formative assessment exam (an online Quiz exam): Once at end of the 6th week of the clinical round.
- 2-Summative examination (written exam): at the end of the semester for all students.
- 3-Participation in the activities through: criticizing a published paper.

C- Summative Assessment methods:

- **→** 40% final written exam at the end of the semester
- O Include problem solving, multiple choice questions, give reason, matching, extended matching, complete and compare.
- ➤ 30% final practical exam at the end of the semester
- > 30% Regular evaluation including
- o 10% Online exam at the end of the module and periodicals including, multiple choice questions.
- o 10% Attendance and behaviour
- o 10% Participation in activities and research.
 - ✓ **FEEDBACK:** From the students and faculty to further improve the module.

Weighing of Assessment:

Method of Assessment	Marks	Percentage
Final Written exam.	20	40%
Final Practical exam.	15	30%
Activities	15	30%
Total	50	100%

Grading for module by GPA System:

The Percentage	Symbol	Grade
≥85%	A	Excellent.
75-84 %	В	Very Good
65 - 74 %	С	Good.
60 - 64 %	D	Passed.
< 60 %	F	Failed.
	W	Withdrawn



جامعة المنوفية/ كلية الطب قسم الصحة العامة وطب المجتمع

Evidence based medicine (Basics of medical research and Biostatistics) module



Study guide

Final Examination Description:

Examination		Description	Marks
Final examination	Written	written paper	20
Final examination	Practical	 Identification slides identification points for slides, definitions, enumerate and complete 	15
Periodical exa	mination	MCQs (online quiz)	5

Student Attendance Policy

- Attendance of students is mandatory for all sessions of the module. An unexcused absence is considered a breach of professional responsibility and conduct. The student's absence affects not only himself but also the others in his group whom rely on each other to generate ideas, share knowledge, and participate in problem solving.
- It is understood that unforeseen circumstances can arise. Therefore, a student will be allowed to sit for the end-module exam if his total attendance is 75% or more (with unexcused absence),
- If the total percentage of the student's attendance (with unexcused absence) during any given module is less than 75%, he is considered failed in that module and he has the right to attend the resit exam. Therefore, if his total attendance is less than 50%, he is considered failed and he has to repeat the whole module (study and exams).
- For any accepted emergency excuse that interferes with the student sitting for the end-module exam (*or part of it*), an alternative exam will be provided to him within the same academic year to attend.



جامعة المنو فية/ كلية الطب قسم الصحة العامة وطب المجتمع

Evidence based medicine (Basics of medical research and Biostatistics)

Study guide

Reset Examination Policy

- Those who fail in the module assessment will have to appear in the reset exam for the module/s he failed in at the end of the same year.
- The student who fails in the reset exam in any module/s has to repeat the year and enroll in that module/s when offered and take all required assessments (except for short modules carry maximum 2 credit hours where he can carry it with him for only one academic year).
- Those who fail in any module for the fourth time i.e. after repeating the year will be referred to the Faculty Board with appropriate recommendation from the module committee for giving him a last chance or not to attend the exam once more.

VI. List of references and resources:

- Course handout.
- Essential Books:
 - Department book
 - Maxy of public health
- Websites: www.Medscape.com
- **Recommended books**

Publications of national and international public health organization; EMOHP, WHO, CDC and APHA

VII- Facilities required for teaching and learning:-

- 1-Faculty Lecture halls
- 2-Faculty library for textbooks & electronic library for web search.
- 3-Audiovisual aids as boards, data show and computers

منسق الموديول

د أسماء شرف الدين

رئيس القسم أ.د/ محمود أبوسالم