

Public Health and Preventive Medicine; Code: PM 806C

A- Basic Information

Programme(s) on which the course is given:	Bachelor of Pharmacy (Pharm D clinical)
Department responsible for offering the course:	Microbiology & Immunology
Department responsible for teaching the course:	Microbiology & Immunology
Academic year:	Level four – spring semester (2023/2024)
Course title and code:	Public Health and Preventive Medicine, PM 806C
Prerequisite:	Bacteriology and Mycology
Credit hours:	Lectures: 2, Practical: 0, Total: 2
Course Coordinator:	Dr. Yomna Nagy

B- Professional Information

1 - Overall Aim of the Course

This course aims at understanding all scientific disciplines required for health education and promotion directed to the community health, preventive medicine levels, public health indicators. How epidemiology acts as the bases of public health actions will be taught, epidemiologic triangle, epidemiological studies, role of epidemiologist. Detailed scientific information and practices programs will be provided for control of communicable diseases, nosocomial infections, immunization and immunobiologic agents, different types, compositions, uses, of vaccines (stand alone and combined vaccines), control of non-communicable diseases, improving mental, social, environmental, occupational, geriatric and family health, use of sufficient and balanced food and nutrition, supplying safe drinking water, treating and disposing wastes and proper intervention during disasters.

2 - Course Learning Outcomes

Domain 1: Fundamental knowledge

The students should be able to:

Program key elements	Course Learning Outcomes
1.1.1.1 Explain the basic knowledge of micro-organisms, infectious/non-infectious diseases, bioinformatics, biotechnology, and epigenetics.	1-1-1- 1 Demonstrate understanding of knowledge of epidemiology of infectious and non-infectious diseases, nosocomial infections, mental health and mental retardation and bioterrorism
1.1.2.1 Utilize genetic, microbial, and epidemiological terms in pharmacy practice.	1.1.2.1 Utilize the proper microbial and epidemiological terms, abbreviations, and symbols in pharmacy practice.
1.1.6.1 Make use of scientific literature to enhance professional decision in production of high-quality medicine	1-1-6-1 Utilize epidemiological information to enhance professional decision.
1.1.7.1 Critically analyze issues influencing patient health care.	1-1-7-2 Identify and critically analyse newly emerging infectious diseases influencing public health care.

Domain 2: Professional and ethical practice

The students should be able to:

Program key elements	Course Learning Outcomes
2.1.1 Implement the role of all members of the health care professional team based on the professional structure regarding their legal responsibilities & authorities in compliance with pharmaceutical legislations.	2-1-1 Perform responsibilities and authorities in compliance with the legal and professional structure and role of all members of the health care professional team.
2.5.2 Restore, clarify & critically assess pharmaceutical information needed in pharmacy profession.	2-5-2 Retrieve, interpret, and critically evaluate microbial and pharmaceutical information needed in pharmacy profession.

Domain 3: Pharmaceutical care

The students should be able to:

Program key elements	Course Learning Outcomes
3.1.2.1 Follow the fundamentals of public health to select the proper method for infection control.	3.1.2.1 Apply the principles of public health and pharmaceutical microbiology to select and assess proper methods of infection control.
3.2.6 Raise clinical awareness of common health risks of drug misuse and abuse.	3.2.6 Maintain public awareness on social health hazards of drug misuse and abuse

Domain 4: Personal practice

The students should be able to:

Program key elements	Course Learning Outcomes
4.1.2 Reclaim and critically analyze data, solve problems, and work efficiently in a team.	4-1-2 Retrieve and critically analyze public health information, identify and solve problems, and work autonomously and effectively in a team.
4.2.1 Communicate efficiently with healthcare team, patients, and communities both verbally and in-writing	4-2-1 Demonstrate effective communication skills verbally, non-verbally, and in writing with professional health care team, patients, and communities.

3- Course Contents

Week	Lectures	
	Topic	Credit hrs. (2)
1	General introduction to public health, Epidemiology	2
2	Control of acute communicable disease	2
3	Epidemiology and control of non infectious diseases	2

4	Occupational diseases. Sexually transmitted diseases.	2
5	Mental health, mental retardation.	2
6	Midterm exam	
7	Nosocomial infections, Family health	2
8	Food microbiology. Microbiology of milk	2
9	Smoking, Disaster PH.	2
10	Water supply and sanitation- Waste disposal.	2
11	Zoonosis- Bioterrorism- Formative assessment	2
Total		20
15	Written exam	

4- Teaching and Learning Methods:

- 4.1- Lectures (tools: board, projector).
- 4.2- Written essays (library, internet).
- 4.3- Team working

5- Student Assessment Methods:

Written Midterm exam	To assess	The ability of students to follow-up the course subjects.
Written final exam	To assess	The overall outcomes.
Oral exam	To assess	The ability of students in expressing and presenting their knowledge clearly and in systematic approach.

Assessment Schedule

Assessment 1	Periodic exams	Week 6
Assessment 2	Oral exam	Week 15
Assessment 3	Final written exam	Week 15

Weighting of Assessments

Periodical examination	15 %
Final-term Examination	75 %
Oral Examination	10 %
Practical Examination	--- %
Other types of assessment	--- %
Total	100 %

6- List of References

Course notes

Lecture notes of public health prepared by the instructors.

Essential books (textbooks)

- Public health & Preventive medicine; 14th edition; Eds. Robert B. Wallace, Bradley N. Doebbeling (1998).
- Oxford Textbook of Public Health; 4th edition; Eds. Roger Detels, James MacEwen, Robert Beaglehole and Haizo Tanaka (2002)

Recommended books

- Public health & Preventive medicine; 14th edition; Eds. Robert B. Wallace, Bradley N. Doebbeling (1998).
- Oxford Textbook of Public Health; 4th edition; Eds. Roger Detels, James MacEwen, Robert Beaglehole and Haizo Tanaka (2002)

Periodicals, Web sites, ...etc

- Publichealthy.com
- www.ncbi.nlm.nih.gov

7- Facilities Required for Teaching and Learning

Modern libraries, audiovisual tools, chemicals, cooperative assistants, glassware and instruments, study halls, data show, and Internet

Course Coordinator: Dr. Yomna Nagy

Yomna Nagy

Head of Department: Assoc. Prof. Dr. Sarra Ebrahim Saleh

Sarra Saleh

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Course Plan & Matrix

Course Contents		Program key elements	Course learning outcomes	Teaching and learning methods	Student assessment methods
Week # 1	General introduction to public health, Epidemiology	1-1-1-1 3-2-6 4-1-2 4-2-1	1-1-1-1 3-2-6 4-1-2 4-2-1	Lectures Open discussion	Written Oral
Week # 2	Control of acute communicable disease	1-1-1-1 1-1-2-1 2-5-2 3-1-2-1	1-1-1-1 1-1-2-1 2-5-2 3-1-2-1	Lectures Open discussion	Written Oral
Week # 3	Epidemiology and control of non infectious diseases	1-1-1-1 1-1-2-1 3-2-6 4-1-2 4-2-1	1-1-1-1 1-1-2-1 3-2-6 4-1-2 4-2-1	Lectures Open discussion brain storming Assignments	Written Oral
Week # 4	Occupational diseases, Sexually transmitted diseases.	1-1-7-1 3-2-6 4-1-2 4-2-1	1-1-7-1 3-2-6 4-1-2 4-2-1	Lectures Assignments	Written Oral
Week # 5	Mental health, mental retardation	1-1-7-2 3-2-6	1-1-7-2 3-2-6	Lectures Open discussion brain storming	Written Oral
Week # 6	Midterm				
Week # 7	Nosocomial infections, family health	1-1-1-1	1-1-1-1	Lectures Open discussion brain storming Assignments, Self-learning	Written Oral
Week # 8	Food microbiology. Microbiology of milk	1-1-1-1 1-1-2-1 3-1-2-1 3-2-6	1-1-1-1 1-1-2-1 3-1-2-1 3-2-6	Lectures Assignments	Written Oral

Week # 9	Smoking, Disaster PH	1-1-1-1	1-1-1-1	Lectures	Written Oral
Week # 10	Water supply and sanitation. Waste disposal.	2-1-1	2-1-1	Lectures	Written Oral
Week # 11	Zoonosis- Bioterrorism Formative assessment	1-1-2-1 1-1-7-2 3-1-2-1 3-2-6 4-1-2 4-2-1	1-1-2-1 1-1-7-2 3-1-2-1 3-2-6 4-1-2 4-2-1	Lectures Assignments	Written Oral
Week # 15	Final Exam				

In case of emergency or necessity, the study will be converted into recorded and interactive lectures.

تم الاعتماد فى (محضر مجلس قسم الميكروبيولوجيا والمناعة)
جلسة رقم (6) بتاريخ 14 / ٢ / 2024