

Course Unit	Epidemiology and Public Health		Field of study	-	
Bachelor in	Pharmacy		School	School of Health	
Academic Year	2023/2024	Year of study	3	Level	1-3
Type	Semestral	Semester	1	ECTS credits	5.0
Code	9549-803-3102-00-23				
Workload (hours)	135	Contact hours	T -	TP 45	PL 15
			TC -	S -	E -
			OT 7,5	O -	

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Maria Cristina Martins Teixeira

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. To understand the scope of public health and the role of this multidisciplinary science in improving the community health.
2. To understand the role of public health within the National Health Service in Portugal.
3. To read health status indicators and to understand such indicators as a result of interaction effects between the various levels of health determinants based on eco-epidemiology models.
4. To understand the role of health status and health determinants surveillance in improving public health intervention.
5. To understand the approach for assessing determinants of health and disease within specific populations.
6. To estimate and to read measures of occurrence of disease, as well as, the measures of association and measures of impact.
7. To describe the design of epidemiologic studies foreseeing their application, their strengths and their limitations.

Prerequisites

Before the course unit the learner is expected to be able to:
none

Course contents

Public Health: goal, scope and history. Public Health in Portugal. Eco-epidemiology in understanding the public health intervention. Measures of frequency of disease. Design of epidemiologic studies. Causal inference from epidemiological studies

Course contents (extended version)

1. Public Health: goal, scope and history.
 - Public Health as a multidisciplinary science in improving community health.
 - Key domains of public health: health promotion health protection, health prevention.
 - The historical experience of health and illness from a population perspective.
 - Alma-Ata Declaration and Ottawa Charter in shaping public health views.
2. Public Health in Portugal.
 - National Health Service in Portugal: history and organization.
 - Public Health within the National Health Service in Portugal.
3. Eco-epidemiology and chinese boxes paradigm in understanding the public health intervention
4. Measures of frequency of disease.
 - Mortality rates. Crude and specific rates.
 - Prevalence. Incidence. Risk.
 - Standardized mortality rates.
5. Design of epidemiologic studies.
 - Epidemiologists Studies: transversal lines, case-control, coorte, clinical and ecological assay.
 - Strengths and limitations of each study design.
 - Measures of association and impact.
6. Deriving inferences from epidemiologic studies.
 - Random error and bias. Confounding and interaction
 - Causality criteria

Recommended reading

1. Gordis, L. (2010). Epidemiologia. Lusodidacta
2. Stanhope, M. , Lancaster, J. (2011). Enfermagem de Saúde Pública. Lusodidacta
3. JacGerstman, B. (2003) Epidemiology kept simple. Wiley-Liss

Teaching and learning methods

Theoretical-practical lessons are brief expositions of study subject with interactive methodology. Tutorial classes are based on the search of answers for proposal questions or discussion of scientific papers. The individual work of the pupil is based on working sheets about study subject.

Assessment methods

- Final written exam-100% - (Regular, Student Worker) (Final, Supplementary, Special)

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

Maria Cristina Martins Teixeira	Teresa Isaltina Gomes Correia	Ana Maria Nunes Português Galvão	Adília Maria Pires da Silva Fernandes
21-11-2023	22-11-2023	22-11-2023	23-11-2023