

Course Unit	nit Epidemiology of Physical Activity			Field of study	Health Sciences			
Master in	Physical Exercise and Health			School	School of Education			
Academic Year	2023/2024	Year of study	1	Level	2-1	ECTS credits	6.0	
Туре	Semestral	Semester	2	Code	6125-520-1203-00-23			
Workload (hours)	162	Contact hours	I IV IF			E - OT - Fieldwork; S - Seminar; E - Place	5 O -	
Name(s) of lecturer(s) Vitor Pires Lones								

Learning outcomes and competences

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

 1. Understand and apply concepts/methodologies related to the epidemiological research of the relationship between physical activity and health among children, adults and seniors
- Develop skills of scientific analysis and design of different epidemiological studies relating physical activity and health.
 Apply knowledge of key aspects of physical activity epidemiology surveillance by intervening in planning, evaluation and decision making: school context and life course epidemiology

Prerequisites

Not applicable

Course contents

Epidemiology and Physical activity epidemiology. Physical activity assessment (exposure). Prospective evolution of the physical activity recommendations Physical activity and cardiovascular disease risk factors management

Course contents (extended version)

- Epidemiology
 : historical perspective
 basic concepts (frequency measures, association measures, impact measures, bias and confounding
- types of studies (advantages and disadvantages)
- Physical activity epidemiology
 definition and evolution of the research field since the start

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 3. Physical activity definitions and evolution of the associations with different health outcomes
 dimensions of physical activity, exercise and fitness level
 4. Physical activity assessment (exposure)
 methods, advantages, limitations
 different levels of approaching (different ages, small/large samples, prevention and treatment)
 5. Descriptive epidemiology of (in)activity
 USA, Europe, Portugal
 6. Prospective evolution of the physical activity recommendations
 7. Physical activity and cardiovascular disease risk factors management
 data analysis and discussion

Recommended reading

- Gordis L. (2009). Epidemiology. 4 ed. Philadelphia: Elsevier Saunders
 Dishman RK, Washburn RA, Heath G. (2004). Physical activity epidemiology. Champaign: Human Kinetics
 Lee IM, Blair SN, Manson JE, et al (2009). Epidemiologic methods in physical activity studies. New York: Oxford University Press
 Montoye HJ, Kemper HCG, Saris W, Washburn RA. (1996) Measuring Physical Activity and Energy Expenditure. Champaign: Human Kinetics
 Blair SN et al. (2011). A tribute to Professor Jeremiah Morris: the man who invented the field of physical activity epidemiology. Ann Epidemiol. 20: 651–60

Teaching and learning methods

1. Description of the contents orally and through multimedia; 2. Research work, analysis and discussion of scientific manuscripts; 3. Application of the knowledge acquired in the theoretical lectures and practices, completing worksheets and participation in intervention programs. Inverted classroom teaching method may be adopted in some subjects

Assessment methods

- Continuous evaluation (Regular, Student Worker) (Final)
 Development Topics 50% (Preparation of a work of literature review)
 Intermediate Written Test 50% (written test)
 Examination (Regular, Student Worker) (Supplementary, Special)
 Final Written Exam 50% (written test)
 Development Topics 50% (Preparation of a work of literature review (will be considered the work done during the classes))

Language of instruction

Portuguese

Electronic validation

	Licetionic validation					
	Vítor Pires Lopes	Pedro Miguel Monteiro Rodrigues	Pedro Miguel Queirós Pimenta Magalhaes	Carlos Manuel Costa Teixeira		
1	30-01-2024	25-02-2024	26-02-2024	27-02-2024		