

Academic Year/course: 2022/23

25653 - Epidemiology and Public Health

Syllabus Information

Academic Year: 2022/23

Subject: 25653 - Epidemiology and Public Health

Faculty / School: 127 - Facultad de Ciencias de la Salud

Degree: 605 - Degree in Physiotherapy

ECTS: 6.0

Year: 3

Semester: First semester

Subject Type: Compulsory

Module:

1. General information

1.1. Aims of the course

The course and its expected results respond to the following approaches and objectives:

In the field of Health Sciences, public health constitutes one of its priority areas since, in order to influence the health of people and populations, it is essential to have a public health framework. The objectives pursued by the subject are the following:

General objective

Know and apply the basic instruments essential for the interpretation, control and evaluation of health problems of the population.

Specific objectives

- . Understand the population point of view versus the individual in health, and the determinants that influence it
- . Understand the importance of having information to be able to act on health problems
- . Know how to construct and interpret basic demographic indicators
- . Know the bases of the research methodology
- . Apply epidemiology to act on health problems
- . Knowing the Spanish health system the main interventions for public health problems
- . Know the main interventions for public health problems
- . Know and apply the main physiotherapy programs recommended in the population.

1.2. Context and importance of this course in the degree

The course and its expected results respond to the following approaches and objectives:

- Provide students with knowledge that helps them understand and apply research and intervention methods in health.
- Provide the necessary knowledge to participate in the development and evaluation of health strategies, plans and programs in the field of Physiotherapy.

These approaches and objectives are aligned with the following Sustainable Development Goals (SDG) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>) in such a way that, the acquisition of the results of learning the subject, provides training and competence to contribute to some extent to its achievement:

Objective 3: Health and well-being

Objective 4: Quality education

Objective 10: Reduction of inequalities.

1.3. Recommendations to take this course

Teachers: María José Iglesias Gozalo and Begoña Adiego Sancho

Attendance and participation in face-to-face sessions, carrying out scheduled work and individual study of the recommended documentation, is highly recommended in order to achieve the objectives.

Attendance to practical classes and seminars is compulsory.

Given the inclusive nature of this subject, it is recommended to have passed all the subjects of 1 and 2 year before taking Public Health.

2. Learning goals

2.1. Competences

After completing this course, the student will be more competent to

- Analyze the determinants of the health of the different population groups: socioeconomic, environmental, lifestyle, ...
- Analyze the applications of epidemiology in the practice of Physiotherapy and Public Health
- Recognize the development and use of certain study designs in the advancement of epidemiology
- Obtain and use epidemiological data and assess trends and risks for health decision making
- Assume their role in the actions of prevention and protection against diseases, injuries or accidents and maintenance and promotion of health, both at the individual and community level
- Recognize their role both individually and in multiprofessional teams, in providing health care as well as in health promotion interventions
- Know the organization of the Health System and the environments and conditions of the different health systems
- Recognize and enhance the role of the Physiotherapist in health promotion and disease prevention activities
- Know, critically assess and know how to use clinical and biomedical information sources to obtain, organize, interpret and communicate scientific and health information.

2.2. Learning goals

To pass this subject, the student must demonstrate the following results

- Understand the fundamental concepts related to health and disease
- Obtain, analyzes and uses epidemiological data and uses them to assess trends and risks that facilitate decision-making in health
- Know the health system and the role of the physiotherapist in it
- Learn about the main health problems related to physiotherapy in the fields of primary and specialized care
- Learn how to provide quality and effective physical therapy care.

2.3. Importance of learning goals

Physiotherapists need to have a basic command of the methodological tools that allow describing health and disease problems in the population and be able to design and guide the possible interventions to be carried out.

This subject contributes together with other competences acquired in different subjects of this degree and, especially in Research Methodology, to the training of students for the performance of the professional profile of the physiotherapist both in the clinical field and in the community, and public health

On the other hand, the learning results obtained by taking this subject of "Epidemiology and Public Health" contribute to the strengthening of generic or transversal skills of an instrumental type and, also to those referred to interpersonal relationship, which improves the comprehensive training of future graduates in Physiotherapy, as stated in Order CIN / 2135/2008.

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

GRADING SYSTEM

A single written exam will be carried out in relation to the contents of the face-to-face sessions of the subject

Description:

- 30 multiple choice questions (4 possible answers and only one correct) on the theoretical and practical contents of the face-to-face sessions.
- 10 multiple choice questions (4 possible answers and only one correct) in relation to the problems and cases under study of the subject.

If the minimum score required in the test is not exceeded, an evaluation of the same characteristics will be carried out in the September call.

Requirement level:

The final score of the exam must reach: 15 points out of 30 possible in the part corresponding to multiple choice questions and 5 points in the part corresponding to short questions.

In any case, both parts must be passed jointly and if only one of them is passed, the grade will not be kept for subsequent exam sessions.

Evaluation criteria:

Multiple choice questions answered incorrectly will subtract 0.25 points from the overall exam grade.

Weighting on the final grade of the subject

The exam grade must reach at least 5 points.

The qualification of this test will suppose 60% of the global qualification of the subject.

In the exercises, reports and individual or group work, the capacities to consult the bibliography and web pages relevant to the subject will be evaluated; information search, information processing and argumentation; as well as individual or group defense.

When the student chooses to be assessed by continuous assessment, to pass the subject it will be necessary:

- Present work and presentations at the designated time
- Attend all seminars and practices (you can only skip attending one session).
- Obtaining 50% of the maximum weighting both in the exam, as in the exercises / reports and in the small group work (it may be possible to compensate obtaining at least 45% in one of them, if in the rest it exceeds the fifty%).

Tests for non-face-to-face students or those who appear in other calls different from the first

Students who do not attend the proposed training activities, as well as those who do not agree with the grade obtained, may take a final exam that will include the entire subject (theory, practices and other training activities). This will consist of a written exam with 10 free text answer questions referring to the theoretical and practical contents of the subject and which will allow to verify that the expected learning results have been achieved.

Grading system:

After weighing according to the criteria indicated and according to the Regulations for the Evaluation of Learning Standards of the University of Zaragoza, the results obtained by the student will be graded according to the following numerical scale from 0 to 10, with an expression of one decimal:

0-4.9: F
5-5.4: E
5.5-5.9: D
6-6.9: C
7-8.9: B
9-9.9: A

The mention of A+ may be awarded to students who have obtained a grade equal to or greater than 9.0. Their number may not exceed five percent of the students enrolled in the corresponding academic year.

The evaluation activities that refer to non-objective aspects will be assessed through the rubric publicly exposed to the students at the beginning of the course.

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

After completing this course, you will be able to

- Obtain and use epidemiological data and assess trends and risks to inform health decision-making
 - Know the national and international health organizations, as well as the environments and conditions of the different health systems
 - Know, critically assess and know how to use information sources to obtain, organize, interpret and communicate scientific, health, social and social information, preserving the confidentiality of the data.
- It is highly recommended that students have reviewed, in the first weeks of the course, the subject "Research Methodology". On the other hand, attendance and participation in scheduled face-to-face sessions is recommended, as well as carrying out the planned individual assignments. In previous courses, learning and the achievement of results have been seen as highly favored as a result of monitoring the planned activities.

4.2. Learning tasks

The learning process designed for this subject is based on the following activities:

- Participative face-to-face classes in groups. 3 sessions will be held, 2 days a week, according to the schedule provided by the Faculty.
- Practical classes and face-to-face seminars in small groups. In the 10 practical sessions that the students enrolled in the subject must carry out, problem solving and case studies are used as the main teaching methodology.
- Small group work. Estimated time of dedication by the student: 21 hours. Long essay on a topic of interest in which special attention will be paid to the analysis and synthesis of the referenced readings, the scientific rigor of the contents, the coherence of the expression and the bibliographic citations used.
- Personal study.

4.3. Syllabus

PROGRAM

Module I: Epidemiology and Research Methodology in Physiotherapy

1. Health and Disease. Determinants of Health. Concept and applications of epidemiology
2. Frequency measures in epidemiology
3. Partnership measures and potential impact
4. Descriptive and cross-sectional studies
5. Cohort studies
6. Case-control studies
7. Intervention studies
8. Studies on diagnostic tests
9. Bibliographic search and review of the scientific literature

Module II. Health Services and Management. Health programs

10. Health care. Social system and health system
11. Spanish health system. Features and organization
12. Information systems in health management

Module III: Prevention of Health Problems of interest in Physiotherapy

13. Changes in the frequency of illness. Main causes of death and disease
14. Epidemiology and prevention of communicable diseases
15. Epidemiology and prevention of noncommunicable diseases.

4.4. Course planning and calendar

The key dates of the subject are **January 23 for the ordinary call and June 23 for the extraordinary call**. All information can be found, from the beginning of the academic **course 2022-23**, on the Faculty website and in the ADD of the subject.

Theoretical Classes: They will be held at the time and classroom assigned by the Center. The oral presentation sessions of the presentations that the students will make will be scheduled at the beginning of the course, during the theoretical classes / seminars.

Practical Classes: the groups and the calendar will be held in accordance with the organization provided by the Center.

The hours of tutoring will be indicated at the beginning of the course and will be available, with the rest of information of

interest, in the ADD of the subject. It is a compulsory subject that is taught in the third year of the Degree in Physiotherapy.

4.5. Bibliography and recommended resources

THE UPDATED BIBLIOGRAPHY OF THE SUBJECT IS CONSULTED THROUGH THE WEBSITE OF THE LIBRARY

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=25653>

Websites:

Throughout the course, and in each of the topics, the recommended websites and resources will be indicated to facilitate trustworthy websites that allow reviewing the different contents of the subject

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