

**Preventive Medicine and Public Health**

Code: 102948  
ECTS Credits: 6

Degree	Type	Year	Semester
2502442 Medicine	OB	5	0

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

### Contact

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### Use of Languages

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: No  
Some groups entirely in Spanish: No

### Prerequisites

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### Objectives and Contextualisation

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### Competences

- Accept one's role in actions to prevent or protect against diseases, injuries or accidents and to maintain and promote health, on both personal and community-wide levels.
- Be able to work in an international context.
- Communicate clearly, orally and in writing, with other professionals and the media.
- Demonstrate basic knowledge of the Spanish health system, legislation on health and economic issues.
- Demonstrate knowledge of the national and international health organisations and the factors and circumstances affecting other healthcare systems.
- Demonstrate understanding of the factors that determine equality in access to health, their safety and quality.
- Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.

- Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
- Recognize the determinants of population health, both genetic and dependent on gender, lifestyle, and demographic, environmental, social, economic, psychological and cultural factors.
- Use information and communication technologies in professional practice.

## Learning Outcomes

1. Address health problems through collective interventions for the promotion, protection and prevention, and restoration of health and assess their impact.
2. Analyse the national and international systems of epidemiological surveillance.
3. Apply methodologies to identify determinants of gender and other factors associated with health inequalities in the design and interpretation of epidemiological studies and health programmes.
4. Assess the health needs of the population.
5. Be able to work in an international context.
6. Communicate clearly, orally and in writing, with other professionals and the media.
7. Describe health planning and administration at Spanish, European and regional level.
8. Describe the processes of health/illness and their determining factors from the population perspective.
9. Describe the role of vaccines in community health.
10. Differentiate between the factors associated with inequalities and, in particular, with gender issues in public health research and practice.
11. Differentiate between the levels of healthcare.
12. Enumerate the main world health problems and their preventive measures.
13. Evaluate the healthcare quality system and patient-safety strategies.
14. Explain the economic and social implications of medical intervention, using criteria of effectiveness and efficiency.
15. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
16. Identify principles of environmental health, workplace health and food health.
17. Identify the international health organisations at Spanish, European and regional level.
18. Identify the main activities of health promotion and disease prevention.
19. Interpret health indicators.
20. Interpret the processes of planning, scheduling and assessment in health programmes.
21. Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
22. Use information and communication technologies in professional practice.
23. Value the principles and apply the methods of preventive medicine and public health.

## Content

1. Introduction to Preventive Medicine and Public Health.
2. Health protection: environmental health
3. Specific health problems and preventive actions in communicable diseases.
4. Specific health problems and preventive actions in chronic diseases.
5. Health promotion.
6. Health system. Health management and evaluation.
7. International health

## Methodology

This Guide describes the contents, methodology and general rules of the subject, in accordance with the current curriculum. The final organization of the subject with respect to the number and size of groups, distribution in the calendar and dates of exams, specific criteria for evaluation and review of exams, will be specified in each of the Hospital Teaching Units (UDH), which will make it explicit through its web pages and the first day of class of each subject, through the professors responsible for the subject at the UDH.

For this course, the professors appointed by the Departments as responsible for the subject at the Faculty and the UDH level are:

Responsible department (s): Department of Pediatrics, Obstetrics and Gynecology and Preventive Medicine

Maria G Esteve Pardo

Responsible UDHSP Xavier Bonfill [xbonfill@santpau.cat](mailto:xbonfill@santpau.cat)

Responsible UDHVH Magdalena Campins [mcampins@vhebron.cat](mailto:mcampins@vhebron.cat)

Responsible UDGtIP Maria Esteve [mariaesteve.germanstrias@gencat.cat](mailto:mariaesteve.germanstrias@gencat.cat)

Responsible UDHPT Gemma Navarro [gnavarro@cspt.es](mailto:gnavarro@cspt.es)

In the current exceptional circumstances, at the discretion of the teachers and also depending on the resources available and the public health situation, some of the theoretical classes, practicals and seminars organized by the Teaching Units may be taught either in person or virtually.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
CLINICAL CASE SEMINARS (SCC)	32	1.28	6, 8, 10, 14, 15, 21, 5, 22
CLINICAL PRACTICES ASSISTANT (PCAh)	12.5	0.5	1, 2, 3, 13, 6, 9, 8, 7, 10, 11, 12, 14, 15, 17, 16, 18, 19, 20, 21, 5, 22, 23, 4
THEORY (TE)	23	0.92	1, 3, 9, 14, 17, 16, 18, 19, 20, 22, 4
Type: Autonomous			
THEORY LECTURE	75	3	1, 2, 3, 13, 6, 9, 8, 7, 10, 11, 12, 14, 15, 17, 16, 18, 19, 20, 21, 5, 22, 23, 4

## Assessment

1. Objective written tests. There will be two partial exams that can release a part of the subject. The teaching team of each Teaching Unit will establish the questions and subjects included, the final grade and the percentage in the final grade (between 30-45% each test).
2. Final test of recovery: Students who have not passed the course through continuous assessment may be submitted to a final test of recovery. The methodology of the examination may be different from that used in the previous evaluations. Students who have failed any of the objective written tests, those not submitted to the previous evaluations and those who wish to improve the grade may take this test; in the latter case the note of the recovery test will be the one that will prevail
3. Practical exercises, clinical practices, presentation of works. The realization of a work, the presentation and discussion of clinical cases and other activities carried out by the students, the percentage of the final grade,

which will be established by the teaching team of each Teaching Unit (up to 30%)

Exam review system. The review of exams will be done individually with the student, upon request within the deadlines that are communicated.

Expression of the result of the evaluations: Numerical note with a decimal, from 0 to 10. Qualitative qualification: suspense, approved, remarkable, excellent, MH.

Students who do not show up for the evaluation tests and / or those who do not present the work are considered non-evaluable.

At the discretion of each UD, attendance and participation in classes and seminars may be evaluated with a maximum score of 10% of the grade.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Attendance and participation in class and seminars / Defense oral works	30%	3.5	0.14	6, 8, 15, 21, 5, 22, 23
Objective test of multiple choice	60-95%	4	0.16	1, 2, 3, 13, 9, 7, 10, 11, 12, 14, 17, 16, 18, 19, 20, 4

## Bibliography

### Bibliografía

#### Bibliografía específica

- Hernández-Aguado I., Lumbreras Lacarra B. Manual de Epidemiología y Salud Pública para Grados en Ciencias de la Salud. 3ª ed. Madrid: Editorial Médica Panamericana, 2018.
- Piédrola Gil G. Medicina preventiva y salud pública. Fernández-Crehuet J, Gestal JJ, Delgado M, Bolúmar F, Herruzo R, Serra L, Rodríguez F. (edit), 12ª ed. Barcelona: Elsevier España, 2015
- Sierra A, Sáenz MC, Fernández-Crehuet J, et al., eds. Medicina Preventiva y Salud Pública. 12ª edición Barcelona: Elsevier Masson, 2015

#### Bibliografía de consulta

- Detels R, Beaglehole T, Lansang MA, Gulliford M, eds. Oxford Textbook of Public Health. 6ª edición. 3 vols. Oxford: Oxford University Press, 2015
- Gray M. Evidence-Based Health Care and Public Health: How to Make Decisions About Health Services and Public Health. 3rd. ed. Toronto: Elsevier Limited, 2009.
- Novick LF, Morrow CB, Mays GP. Public Health Administration: Principles for Population-based Management (2nd ed). Jones and Bartlett Publishers Inc, 2007.
- Pencheon D, Guest C, Melzer D, Muir Gray JA, eds. 3ª ed. Oxford Handbook of Public Health Practice. Oxford: Oxford University Press, 2013.
- Porta M, Last JM (eds.). A Dictionary of Public Health. Second Edition. New York: Oxford University Press, 2018.
- Wallace RB, eds. Maxcy Rosenau-Last Public Health and Preventive Medicine. 15ª ed. New York: McGraw-Hill, 2008

## Recursos d'Internet

- Manual de vacunacions. Agència de Salut Pública de Catalunya. [http://salutpublica.gencat.cat/ca/ambits/promocio\\_salut/vacunacions/Manual-de-vacunacions/](http://salutpublica.gencat.cat/ca/ambits/promocio_salut/vacunacions/Manual-de-vacunacions/)
- Vacunación en grupos de riesgo de todas las edades y en determinadas situaciones. Ministerio de Sanidad Consumo y Bienestar Social. <https://www.mscbs.gob.es/profesionales/saludPublica/prevPromocion/vacunaciones/VacGruposRiesgo/Vi>
- Departament de Salut, Generalitat de Catalunya: <http://www.gencat.cat/salut/>
- Ministerio de Sanidad y Política Social: <http://www.msc.es/>
- Centers for Disease Control and Prevention, CDC: <http://www.cdc.gov/>
- Travelers' Health, CDC: <https://wwwnc.cdc.gov/travel>
- Morbidity and Mortality Weekly Report, MMWR: <http://www.cdc.gov/mmwr/>
- Emerging Infectious Diseases, EID: <http://www.cdc.gov/ncidod/eid/>
- Organització Mundial de la Salut, OMS: <http://www.who.int/>