

**COURSE DATA****Data Subject**

<b>Code</b>	42684
<b>Name</b>	Protocols of research and scientific publication
<b>Cycle</b>	Master's degree
<b>ECTS Credits</b>	3.5
<b>Academic year</b>	2022 - 2023

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. Period</b>
2124 - M.U. en Salud pública y gestión sanitaria 12-V.1	Faculty of Pharmacy and Food Sciences	1 First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
2124 - M.U. en Salud pública y gestión sanitaria 12-V.1	1 - Methodology in public health	Obligatory

**Coordination**

<b>Name</b>	<b>Department</b>
MARTIN MORENO, JOSE MARIA	265 - Prev. Medicine, Public Health, Food Sc., Toxic. and For. Med.

**SUMMARY**

This course aims to provide the student the knowledge, skills and attitudes required to rigorously design and disseminate a research study, focusing in four main related issues. First, the relevance and originality of a research topic on the basis of existing scientific knowledge on this subject (literature search). Secondly, the study methodology including a proper description of hypothesis and objectives, design and general methods of research, the variables of interest, tools necessary to collect the relevant information in fieldwork, strategies needed to address potential limitations in the implementation and interpretation of the results of the study, and ethical issues that may affect the research in all its phases (research protocols). Thirdly, the implementation and dissemination of the study so that this can influence decision-makers and stakeholders identified as potential beneficiaries of the research process and its results (dissemination of research studies). And finally, the rigorous presentation of the study in proper media to the scientific community, including conferences and scientific journals (scientific publication). The course will also address the basics of the scientific method, the needs of research in the field of public health and healthcare management and opportunities for funding of research in our context.



## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

### Other requirements

Not recommended

## OUTCOMES

## LEARNING OUTCOMES

This course will train the student to design and disseminate properly research studies in the field of public health and health services management, considering research as an essential part of professional practice in this field. Contents and skills worked in this course will also be very useful for the planning and development of the *Trabajo de Fin de Master*.

## DESCRIPTION OF CONTENTS

### 1. Research basics

Introduction to the scientific method.  
Qualities of the researcher.  
Centers and structures in public health research in Spain.  
Sources of research financing.  
Research priorities in public health.

### 2. Rationale of the study: bibliographic search

The research question.  
The search question.  
Sources of bibliographic information in public health: scientific journals, bibliographic repertories. Other information resources: statistical bases and official records, reports, grey literature.

### 3. Research protocols

Rationale and justification of the study. Formulation of hypotheses and objectives. Setting of the study. Methodological design. Types of variables. Characterization of the variables of interest. Field work: studies based on primary data. Studies based on secondary data. Validity of the measurement tools. Forecast of limitations in the study. Ethical aspects of research. Time schedule. Composition of a research team. Design of a research budget.

**4. Research transfer**

Concept and types of research transfer. Identification of the audiences of interest. Elaboration of the messages to be disseminated. Alliances and messengers for the transfer. Methods for research transfer. Evaluation of research transfer.

**5. Scientific publication: scientific journals**

Types of scientific papers. The original article: structure, content (title, signature, summary, keywords, introduction, methods, results, discussion, references, other sections). How to choose a journal for publication. How to prepare and submit a manuscript for publication. The publishing process: editorial process, external review of manuscripts, decision criteria. Ethical issues in scientific publishing (authorship, repeated publication, conflict of interest).

**6. Oral presentations of research**

Congresses and scientific meetings in the field of public health. Preparation of a summary for a presentation at a scientific meeting. Preparation of oral communication for a scientific meeting: organization of the contents, format. Preparation of a poster or poster for a scientific meeting. Oral presentations: what to do for a good presentation (before, during and after).

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	28,00	100
Attendance at events and external activities	2,00	0
Development of group work	14,00	0
Study and independent work	10,00	0
Readings supplementary material	5,00	0
Preparation of evaluation activities	10,50	0
Preparing lectures	9,00	0
Preparation of practical classes and problem	4,00	0
<b>TOTAL</b>	<b>82,50</b>	

**TEACHING METHODOLOGY**

Theoretical and participative lessons



Reading and discussion of documents

Resolution of practical cases

Problem solving

Supervised work in computer classroom

Supervised work in groups

Projects development

Seminars

Individual tutoring

## EVALUATION

Theory assessment. Minimum weight: 40% Maximum Weight: 40%

Practicum Test. Minimum weight: 30%. Maximum weight: 30%

Assessing individual work, minimum Weighting: 5% Maximum Weight: 15%

Assessing group work. Minimum weight: 5% Maximum Weight: 15%

Attendance and participation in lectures. Minimum weight: 5% Maximum Weight: 15%

Attendance and participation in practical lessons. Minimum weight: 5% Maximum Weight: 15%

Delivery of practical work. Minimum weight: 5% Maximum Weight: 15%

## REFERENCES

### Basic

- Guía para hacer búsquedas bibliográficas. Instituto de Ciencias de la Salud; 2012. Disponible en: [http://ics.jccm.es/uploads/media/Guia\\_para\\_hacer\\_busquedas\\_bibliograficas.pdf](http://ics.jccm.es/uploads/media/Guia_para_hacer_busquedas_bibliograficas.pdf)
- Rodríguez del Águila MM, Pérez Vicente S, Sordo del Castillo L, Fernández Sierra MA. Cómo elaborar un protocolo de investigación en salud. Med Clin (Barc). 2007;129(8):299-302.
- Jiménez Villa J, Argimon Pallàs JM, Martín Zurro A, Vilardell Tarrés M. Publicación científica biomédica. Cómo escribir y publicar un artículo de investigación. Barcelona: Elsevier España; 2010.



### Additional

- Mohamed M. F. Fathalla. A Practical Guide for Health Researchers. WHO Regional Publications Eastern Mediterranean Series 30. Cairo: World Health Organization; 2004. Disponible en: <http://applications.emro.who.int/dsaf/dsa237.pdf>
- Bosch F, Mabrouki K, coordinadores. Redacción científica en biomedicina: lo que hay que saber. Cuadernos de la Fundación Dr. Antonio Esteve n. 9. Barcelona: Fundación Dr. Antonio Esteve; 2007. Disponible en: <http://www.esteve.org>
- Serés E, Rosich L, Bosch F, coordinadores. Presentaciones orales en biomedicina. Cuadernos de la Fundación Dr Antonio Esteve n. 20. Barcelona: Fundación Dr. Antonio Esteve; 2010. Disponible en: <http://www.esteve.org>
- Khoury MJ, Gwinn M, Ioannidis JPA. The Emergence of Translational Epidemiology: From Scientific Discovery to Population Health Impact. Am J Epidemiol. 2010;172:517524.
- Reardon R, Lavis J, Gibson J. From Research to Practice: A Knowledge Transfer Planning Guide. Toronto: Institute for Work and Health; 2006. Disponible en: [http://www.iwh.on.ca/system/files/at-work/kte\\_planning\\_guide\\_2006b.pdf](http://www.iwh.on.ca/system/files/at-work/kte_planning_guide_2006b.pdf)