

Course Unit	Scientific Communication in Health		Field of study	Health	
Master in	Applied Health Sciences - Biotechnology		School	School of Health	
Academic Year	2023/2024	Year of study	1	Level	2-1
Type	Semestral	Semester	1	ECTS credits	3.5
Code	5055-669-1103-00-23				
Workload (hours)	94,5	Contact hours	T -	TP -	PL -
			TC -	S -	E -
			OT -	O -	42

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) Juliana Almeida de Souza

### Learning outcomes and competences

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

1. Identify the main sources of scientific information in the area of Health Sciences;
2. Perform and interpret the results of a bibliographic search in PubMed and Web of Knowledge, and other data bases and interfaces for searching;
3. Identify the specific characteristics of the different dissemination ways of scientific knowledge;
4. Characterize the stages through which a scientific paper should pass until be published;
5. State criterias for choosing a journal for publication of a scientific paper;
6. Show skills of oral and written communication.

### Prerequisites

Before the course unit the learner is expected to be able to:

1. Have computer skills in the user's perspective;
2. Have basic language skills in English.

### Course contents

Research, organize and disseminate scientific knowledge.

### Course contents (extended version)

1. Literature review and bibliographical research on sources of information for health sciences;
2. Selecting and evaluating the quality of sources of information;
3. Interpretation and writing of scientific information;
4. Presentation and dissemination of scientific data and texts;
5. Informatic tools at the service of scientific literature:
  - Tools for research of scientific information;
  - Tools for treatment of scientific data;
  - Tools for organization of scientific data;
6. Scientific journals to publish scientific papers:
  - Characteristics of scientific journals: aim and scope, frequency, metrics, indexing . . .
  - Definition and utility of impact factor and other bibliometric indexes of scientific journals;
  - Criteria for selecting scientific journals to publish scientific papers;
7. Tools to support the research and treatment of scientific data:
  - Research - Mendeley, EndNote. . .
  - Data treatment - GraphPad, Meta-Essentials. . .

### Recommended reading

1. STROBE Initiative (2008). The Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) statement: guidelines for reporting observational studies. J Clin Epidemiol 61(4): 344-9.
2. Moher D, Liberati A, Tetzlaff J & Altman DG. The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097.
3. Mitchell, J. A. , Thomson, M. , & Coyne, R. P. (2017, January 25) APA citation. How and when to reference. Retrieved from <https://www.howandwhentoreference.com/APAcitation>
4. Van Rhee, H. J., Suurmond, R., & Hak, T. (2015). User manual for Meta-Essentials: Workbooks for meta-analysis (Version14) Rotterdam, The Netherlands. [www.erim.eur.nl/research-support/meta-essentials](http://www.erim.eur.nl/research-support/meta-essentials)

### Teaching and learning methods

Interactive discussion, excercising and performance and presentation of a critical analysis of a scientific article will be privileged, allowing the acquisition of research, analysis and synthesis of information and communication skills. Classes taught by videoconferencing in partnership with the Instituto Politécnico da Guarda, throug Professor Márcio Rodrigues.

### Assessment methods

- Evaluation of Learning Skills - (Regular, Student Worker) (Final, Supplementary, Special)
- Presentations - 100% (Critical analysis of a scientific article in the form of a poster)

### Language of instruction

Portuguese, with additional English support for foreign students.

### Electronic validation

Juliana Almeida de Souza	Ana Maria Geraledes Rodrigues Pereira	Luis Migue Fernandes Nascimento	Adília Maria Pires da Silva Fernandes
15-01-2024	16-01-2024	16-01-2024	16-01-2024