

Evidence based medicine and statistics 1 (D012716)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size *(nominal values; actual values may depend on programme)*

Credits 3.0 **Study time** 75 h **Contact hrs** 40.0 h

Course offerings and teaching methods in academic year 2020-2021

A (semester 2)	(language of instruction unknown)	Gent	lecture	20.0 h
			guided self-study	7.5 h
			lecture: response lecture	2.5 h

Lecturers in academic year 2020-2021

Coorevits, Pascal	GE39	lecturer-in-charge
Meeus, Mira	GE37	co-lecturer
Van Oosterwijck, Jessica	GE37	co-lecturer

Offered in the following programmes in 2020-2021

	crdts	offering
Bachelor of Science in Rehabilitation Sciences and Physiotherapy	3	A

Teaching languages

Keywords

methodology
biostatistics
Evidence Based Medicine
introduction PubMed

Position of the course

In this course the basic principles of statistics and research methodology and their relevance and application in health care are explained.

Contents

Partim Introduction to EBM:

- Evidence Based Medicine
- Types of research designs
- Psychometric and measurement theory
- Basic principles of searching literature

Statistics 1

- Introduction to statistics
- Descriptive statistics
- Basic concepts of inferential statistics
- Introduction hypothesis tests

Initial competences

- Forknowledge is based on the endterms of the secondary school [mathematics]
- Passive use of English language
- General knowledge of the use of pc and internet

Final competences

- 1 Understand the importance and aim of Evidence Based Medicine
- 2 Reason the general principles of scientific research
- 3 Search efficiently scientific literature and reflect on the quality
- 4 Differentiate different study designs and types of bias
- 5 Knowing the foundations of descriptive statistics

- 6 The student has insight in the basic concepts of inferential statistics
- 7 The student is able to conduct basic hypothesis tests and can correctly interpret the results

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Guided self-study, lecture, lecture: response lecture

Learning materials and price

- Health Literacy. from reference to review. Mira Meeus & Nick Gebruers. Acco 2016 (+/- 50 euro)

References

- Inleiding in Evidence Based Medicine: Klinisch handelen gebaseerd op bewijsmateriaal. Scholten et al. BSL 2014

Course content-related study coaching**Evaluation methods**

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Written examination

Examination methods in case of periodic evaluation during the second examination period

Written examination

Examination methods in case of permanent evaluation**Possibilities of retake in case of permanent evaluation**

not applicable

Calculation of the examination mark

The final mark is the weighted average of the partim EBM (30%) and Statistics (70%). When the student has a score of less than 9/20 for any of the 2 separate components, the student can no longer pass the course. When the final mark is a value of 10 or more on 20, the final score will be reduced to 9/20.