

	<b>Department of Biomedical Sciences Physiotherapy Degree Programme Statistics Syllabus</b>
--	---

<b>Academic year 2020-2021. Academic term: first and second semester of the first year. Course coordinator: Dr Emanuela Morengi</b>
---

<b>MEDICAL STATISTICS AND EPIDEMIOLOGY (6 ECTS)</b>
---

<b>Dr Emanuela Morengi</b>	Degree in Mathematics from the University of Milan. PhD in Medical Statistics at the University of Milan Adjunct professor at Humanitas University since 2016 Biostatistician at Istituto Clinico
--------------------------------	--

**7. The Gaussian distribution**

**8. Statistical tests**

characteristics of a statistical test

definition Type I and Type II errors, and sample size

definition of p-value

**9.**

special characters.

PubMed: structure and main features, how to use it, search strategies: free-word search or using index terms.

Thesaurus. PubMed: MeSH

### 3) **Using Pubmed. Source retrieval.**

PubMed: simple and advanced search functions, managing results, My NCBI. How to read and write a bibliographic citation.

Retrieving sources: searching and downloading a full text from PubMed, the Document Delivery services, searching and downloading a full text from the Humanitas OPAC.

### 4) **Resources for clinical practice and bibliographic managers**

PEDro: structure and main features, how to use it.

Cochrane Library and UpToDate: structure and main features.

How to manage information: bibliography managers

### 5) **Practical application on clinical cases**

Design and development of a literature search on PubMed based on clinical questions proposed by the lecturer.

Analysis and oral presentation of an article selected from the literature search.

**Examination for the Statistics course.** Written examination with both statistics exercises and multiple-choice questions on how to keep up to date with science. Oral examination of statistics for those who pass the written part and presentation of a bibliographical research carried out by consulting the main biomedical databases regarding a clinical question posed by the lecturer. (Chairman of the Examination Committee: Dr Manuela Morenghi)