UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Medical Statistics

2627-1-I0105D002-I0105D00203

Aims

The course aims to provide students with the main elements of descriptive statistics. The student will be able to calculate the main descriptive indexes and to appreciate the characteristics of a sample by descriptive statistics and plots. The student will be able to interpret percentiles and to calculate specific probabilities from Gaussian distribution.

Contents

Methods for data description.

Detailed program

MEDICAL STATISTICS - Quantitative-qualitative variables. Series in statistics. Graphical representation of a distribution. Position index of a distribution. Index of dispersion of a distribution. Scatter diagrams. Index association between two quantitative values. Reliability of a measure, random and systematic errors. Index of precision and accuracy. Definition of Gaussian density. Approximation of a histogram using the Gaussian distribution. Definition of standardized Gaussian density and uses. Basic concepts of regression and correlation.

Prerequisites

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Teaching form

Lectures and exercises: 8 2-hour lectures conducted in in-presence delivery mode in the initial part that is aimed at engaging students interactively in the later part.

Textbook and teaching resource

Marc M. Triola, Mario F. Triola, Jason Roy. Fondamenti di statistica per le discipline biomediche. Pearson, seconda edizione, 2022.

Semester

first year- first semester

Assessment method

Final written test including:
-2 exercises to test the ability of the student in the application of statistics
-8 questions with closed answer to evaluate the preparation on the overall program

Office hours

On request by email

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY