



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

First Steps in Data Analysis

1819-ProgettoVirgilio

Obiettivi

The course will deal with the implementation of the main tools of descriptive and inferential statistics used in real applications.

The software STATA will be used to analyse data sets to answer biological/clinical questions.

Contenuti sintetici

Session I

Review of the basic descriptive tools for the analysis of quantitative and qualitative random variables, tabular and graphical representations, calculation of summary indicators. Qualitative, quantitative and survival time variables.

The theoretical aspects are followed by practical application through the software Stata.

Session II

Introduction to the hypothesis testing in unpaired design studies for the comparison of the means of independent populations and independent proportions. The rationale of the calculation of the T test statistic and the chi square statistic on contingency tables is reviewed.

The theoretical aspects are followed by practical application through the software Stata.

Session III

Introduction to the hypothesis testing in paired design studies for the comparison of the means of dependent populations and of proportions. The rationale of the calculation of the paired T test statistic and the McNemar is reviewed.

The theoretical aspects are followed by practical application through the software Stata.

Session IV

Power and sample size in hypothesis testing. Theoretical concepts and implementation in the software Stata.

Programma esteso

Prerequisiti

Modalità didattica

Materiale didattico

Periodo di erogazione dell'insegnamento

Modalità di verifica del profitto e valutazione

Orario di ricevimento
