UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Survival Analysis Methods for Clinical Research

2526-1-129R001-BIO.21

Title

Survival Analysis Methods for Clinical Research

Teacher(s)

Laura Antolini

Language

English

Short description

-Main Topics

- Review of basics in probability calculus: conditional probability, joint probability, total probability rule, product rule
- Definition of survival time variabile and related time functions: incidence probability, survival probability, hazard rate
- Features of survival data: censoring, truncation, competing risks, end-point definitions
- Nonparametric estimation of time functions including competing risks

- Nonparametric tests for the comparison of time functions including competing risks
- Fully parametric regression model
- Semi-parametric regression model

Assessment method: Written exam in Lab in Monza

CFU / Hours

1 / 8

Teaching period

- standard classes: 19, 20, 26, 27 January from 16 to 18, online in my webex room https://unimib.webex.com/meet/laura.antolini
- individual study and Quiz (first paragraph)

Sustainable Development Goals