UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Survival Analysis Methods for Clinical Research

2324-1-129R001-BIO.21

Titolo

Survival Analysis Methods for Clinical Research

Docente(i)

Laura Antolini

Lingua

English

Breve descrizione

-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
- Power and sample size calculation
- Fully parametric regression model
- Semi-parametric regression model

Assessment method: Written exam in Lab in Monza

CFU / Ore

2 / 8 + 8

Periodo di erogazione

- standard classes: 18 19 20 26 March, 8 April from 11 to 13, Room 2 Building Kytos Monza (Vedano al Lambro)
- elearning classes: 15 February 10-13, 21 March 2024 10-13 individual study and Quiz

Sustainable Development Goals