P5.2 Statistics for Medicine

Massimo Borelli

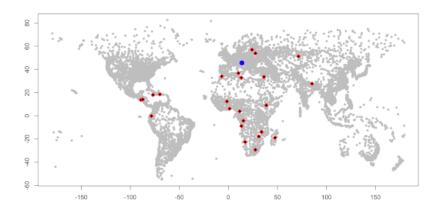
Master of Advanced Studies in Medical Physics







- 1 Welcome, introduction and objectives
 - Information about our Course

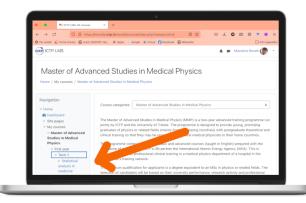


ictpmmp.weebly.com

- free copy of the Lecture Notes
- all the slides
- my address and my e-mail
- homeworks (for the final exam)
- other didactical materials



moodle.ictp.it



brief Syllabus

- O Descriptive Statistics
- Probability and Medicine
- Sampling and Inference
- the linear model
- the generalized linear model



goal to achieve at the end of the course

- to be able to summarize a dataset, by means of properly choosen indicators
- to be able to provide basic statistical inference, choosing the proper regression model
- to be able to properly interpret the frequentist and bayesian reporting

THE Abdus Salam INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS
MASTER OF ADVANCED STUDIES IN MEDICAL PHYSICS

Homework #1

Student name: Name Surname

Course: Statistics for Medicine (P5.2) – Professor: Massimo Borelli Due date: date to decide, 2020

Ouestion

Search and read the paper by Mara Severgnini, Mario de Denaro et al., entitled In vivo dosimetry and shielding disk alignment verification by EBT3... (PMID 25679150). Import the data of their Table 1 (page 118) in R, or into R Commander, and provide the proper descriptive statistics

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About the exam

- 'homework' assignments
- final exam
 - median vote of the homeworks

Safety, first





my advice: to study and to work together

