Biostatistics

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Housekeeping

Announcements

- → Instructor: Miguel de Carvalho (Miguel.deCarvalho@ed.ac.uk)
- \hookrightarrow **Assessment**: 1 individual assignment (50%) + 1 exam (50%).

Assignment submission: 29 Nov. 2024 (noon). E-mail Miguel.deCarvalho@ed.ac.uk. Re: Biostatistics

Exam: 7 Dec. 2024 (10–12 pm): Departamento de Química e Bioquímica, sala 1.01

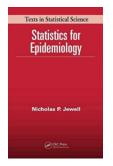
Resit exam: 13 Dec. 2024 (5:30 pm)

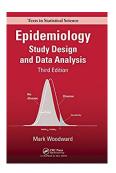
Remarks:

- Students can only improve their exam grade (and not the coursework grade).
- The coursework grade can only be used by those who achieved >= 30% in the Exam.
- Coursework grade remains valid for the resit exam (and it cannot be improved).
- The exam will consist 10 multiple-choice questions. We will deduct 0.5 points for every pair of wrong answers. You may bring two pages of personal notes to the exam.

Bibliography

Covers from amazon.co.uk







Software

 \hookrightarrow We will use R in this course.



Image from www.r-project.org

→ Rstudio is a nice and useful interface.



Scope

- → We will study a variety of concepts and techniques used in biomedical and epidemiological research.
- \hookrightarrow Topics to be covered may include:
 - Measures of disease occurrence and of disease-exposure association.
 - Study designs.
 - Stimation and inference for measures of association.
 - Causal inference, confounding, and interaction.



- Unconditional and conditional logistic regression.
- 6 Analysis of survival data.
- Diagnostic testing (if time permits).

