Statistics teaching within UK degree programmes in Medicine and allied health sciences, including through undergraduate and postgraduate entry schemes and intercalation

Note. This particular form is not for inclusion of details of statistical teaching in Masters and PhD programmes.

Institution: University of Aberdeen

Overview:

Statistics teaching by the Medical Statistics team focuses on postgraduate taught and PhD students.

We run one course for undergraduate medical students, delivered between 3rd and 4th year medicine. This is what is detailed below.

Type of students:

Medical ✓ Dental ☐ Biology ☐

Mathematics ☐ Other ☐ (please state:)

Estimated total number of students: 200

Academic years where medical statistics is taught: 3rd/4th

No. of estimated hours per academic year: 8

Please add fields to the table below, where necessary, to reflect missing subjects. This can easily be achieved by right-clicking in the last row and choosing the option 'insert' to insert individual rows. You can in turn copy-paste the content from an existing row and edit the subject name to suit your purposes.

Subject	Concept	Calculations/equations*	Descriptions/comments
Types of variable	☒	☒	
Distributions	☒	☒	Normal, binomial
Summary Statistics	☒	☒	

Topic			Notes
Concepts of population and sample	☒	☒	Use RSS penguin task as activity, sampling variation
Confidence intervals	☒	☒	
Hypothesis testing, p-values	☒	☒	
Comparing two means	☒	☒	Do live t-test, by randomly assigning 20 students to two groups and using playing cards as change in bp
Comparing two proportions	☒	☒	
Linear regression	☐	☐	
Logistic regression	☐	☐	
Graphs	☐	☐	
Survival analysis	☐	☐	
Multivariate analysis	☐	☐	
Critical appraisal	☒	☐	
Probability	☒	☒	Simple examples, multiplication rule
Standard Normal and z-scores	☒	☒	
ANOVA	☒	☒	
Non-parametric tests	☒	☒	
Chi-squared tests	☒	☒	
Relative risks and odds ratios	☒	☒	

*If applicable.

Assessment details: **Multiple choice exam – assesses definitions (e.g. what is p-value), concepts and students are given several results / baseline tables from real publications. The questions test their interpretation and understanding of the results.**

Computer package used:

Stata ☐   SPSS ☐   StatsDirect ☐   S-plus ☐   R ☐

NCSS ☐   Matlab ☐   Other ☐, please state which : NONE

Recommended literature :

Medical Statistics at a Glance – A Petrie & C Sabin

Contact - administration

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Contact - tutors

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Other comments:

Information last up to date: 07/08/2019

Please return to Margaret MacDougall at Margaret.MacDougall@ed.ac.uk