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 Sheffield

Overview: Introduction to medical statistics for undergraduate (1st year) medical students. This is delivered through 7 lectures (equates to about 8 hours), and five 2-hour small group tutorial sessions. The content starts basic but goes through to concept and interpretation of linear regression. The main purpose is for them to be able to read and critique a journal article by the end of the course.

Type of students:

Medical ☒   Dental ☐   Biology ☐

Mathematics ☐   Other ☐ (please state:)

Estimated total number of students: 295

Academic years where medical statistics is taught: First

No. of estimated hours per academic year: 42

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	☒	☐	Mention normal distribution and reference ranges

Topic	Col1	Col2	Notes
Summary Statistics	☒	☒	
Concepts of population and sample	☒	☐	
Confidence intervals	☒	☒	
Hypothesis testing, p-values	☒	☐	
Comparing two means	☒	☐	
Comparing two proportions	☐	☐	
Linear regression	☒	☐	
Logistic regression	☐	☐	
Graphs	☒	☐	Additional self-study material, not delivered content
Survival analysis	☐	☐	
Multivariate analysis	☐	☐	
Critical appraisal	☒	☐	
Other (please state)	☒	☐	Study designs
Other (please state)	☐	☐	
Other (please state)	☐	☐	

*If applicable.

Assessment details: Numerous best single answer (multiple choice) questions that test their understanding, and a couple of short answer questions. These questions are built into another exam assessing medical aspects removed from statistics, so students do not have to do every question.

Computer package used:

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

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

Recommended literature : Swinscow TDV, Campbell MJ. Statistics at Square One, 10th Edition, 2002

Contact - administration

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Contact - tutors

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Other comments:

Information last up to date: 20/08/2019

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