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 Nottingham

Overview: The BMedSci at Nottingham takes place over 3 years, with 50% of the third year taken up by a research dissertation. Students receive 9 hours of lectures on study design, epidemiology and statistics in year 1 within large system based modules. They also take an Evidence Based Medicine module in year 3, where statistical methods (basic tests through to logistic regression) are taught alongside research ethics, systematic reviewing and critical appraisal (9 hours total). There is also an optional year 3 module to accommodate 16 students, which covers advanced statistical techniques (linear, logistic regression and meta-analysis) and two optional modules on critical appraisal and writing up work for publication in years 2 and 3 where statistical issues are covered.

Type of students:

Medical ☒   Dental ☐   Biology ☐

Mathematics ☐   Other ☐ (please state:)

Estimated total number of students: 260

Academic years where medical statistics is taught: 1 and 3

No. of estimated hours per academic year: 6 hours (18 if optional modules included)

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	☒	☐	
Summary Statistics	☒	☐	
Concepts of population and sample	☒	☐	
Confidence intervals	☒	☐	
Hypothesis testing, p-values	☒	☒	Self-completed SPSS practical
Comparing two means	☒	☒	Self-completed SPSS practical
Comparing two proportions	☒	☒	Self-completed SPSS practical
Linear regression	☒	☒	Self-completed SPSS practical
Logistic regression	☒	☒	Practical only within optional module
Graphs	☒	☐	
Survival analysis	☐	☐	
Multivariate analysis	☐	☐	
Critical appraisal	☒	☒	Practical only within optional module
Other (please state) Meta-analysis	☒	☒	Practical only within optional module
Other (please state) Screening and diagnostic tests	☒	☐	
Other (please state) Communication of risk	☒	☐	

*If applicable.

Assessment details: **Multiple choice exam – where students are given several results / baseline tables from real publications and the questions test their interpretation and understanding of the results**

The Evidence based medicine module is assessed via an exam containing MCQs and related formats. The module containing advanced statistics is assessed by providing Students a data set in Stata upon which short answer questions are provided. Our critical appraisal module is assessed via oral presentation.

Computer package used:

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

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

Recommended literature: Essential Medical Statistics (2nd edition) Kirkwood B & Sterne J.

Contact - administration

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Other comments:

Information last up to date: 10/09/2019

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