**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 Bristol

Overview: The majority of statistics is taught in the first year, in the “Clinical Epidemiology” course. This is taught entirely as tutorials, by approximately 10 different tutors, with 10 tutorials and a handbook which contains all course materials and tutorial questions. In the fourth year the students are taught public health and evidence-based medicine, which includes research design, some statistical concepts, and interpretation of results from published papers.

Type of undergraduate students:

Medical x Dental  Biology

Mathematics  Other  (please state:      )

Estimated total number of students: 240, per group when separated: 15

Academic years where medical statistics is taught: 1 (plus some in yr 4 but there is critical appraisal and research design, not purely statistics)

No. estimated hours per academic year: 20

**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.**

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| Subject | Concept | Calculations/equations\* | Descriptions/comments |
| Types of variable | x |  |  |
| Distributions | x |  | Only the Normal distribution |
| Summary Statistics | x |  |  |
| Concepts of population and sample | x |  |  |
| Confidence intervals | x | x |  |
| Hypothesis testing, p-values | x | x |  |
| Comparing two means | x | x |  |
| Comparing two proportions | x | x |  |
| Linear regression | x |  |  |
| Logistic regression |  |  |  |
| Graphs | x |  |  |
| Survival analysis |  |  |  |
| Multivariate analysis |  |  |  |
| Critical appraisal | x |  |  |
| Bias | x |  |  |
| Confounding | x |  |  |
| Concepts of risk ratio, risk difference and odds ratio | x | x |  |

\*If applicable.

Assessment details: **An assessment which the students carry out over 4 weeks (including the Christmas holidays), plus an end-of-year exam.**

Computer package used:

Stata  SPSS  StatsDirect  S-plus  R

NCSS  Matlab  Other , please state which : None

Recommended literature :

**Essential Medical Statistics – Kirkwood and Sterne**

*Contact - administration*

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*Contact - tutors*

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Other comments:

Information last up to date: 01/05/2013

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