**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.

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

Institution : University of Oxford

**Bachelor of Medicine**: **Introduction to medical statistics** is taught as part of the B.M. in year 1 and 2. This is taught by a small group of statisticians from the Department of Primary Care Health Sciences and colleagues. The course consists of 8 teaching sessions usually 1 hour long. By the end of the course students are able to apply simple statistical techniques to data relevant to biological and clinical science and Understand, report and interpret the results as a preclinical scientist.

**M.Sc. Evidence Based Health Care:** modules in **Essential Medical Statistics** and **Statistics for Health Care Researchers.** We contribute two teaching modules, and many other lectures across the course, to the M.Sc. in Evidence Based Health Care. The courses are designed for health care professionals and graduate students who already have some research experience and an understanding of basic statistical principles, and who wish to develop their statistical expertise. Sessions are taught informally and interactively. They emphasise the practical application of statistical methods to real-life problems, rather than statistical theory. The sessions include time for students to explore and analyse using a variety statistical packages.

Type of undergraduate students:

Medical C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif Dental  Biology

Mathematics C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif Other  (please state:      )

Estimated total number of students: 150, per group when separated : 25

Academic years where medical statistics is taught: 1,2,3,4

No. 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 | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |  |
| Distributions | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |  |
| Summary Statistics |  | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |
| Concepts of population and sample | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |  |
| Confidence intervals | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |
| Hypothesis testing, p-values | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |
| Comparing two means | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |
| Comparing two proportions | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |
| Linear regression |  |  |  |
| Logistic regression |  |  |  |
| Graphs | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |  |
| Survival analysis |  |  |  |
| Multivariate analysis | C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif |  |  |
| Critical appraisal |  |  |  |
| Other (please state) |  |  |  |
| Other (please state) |  |  |  |
| Other (please state) |  |  |  |

\*If applicable.

Assessment details: **Introduction to medical statistics:** Students will be tested on statistics in the 1st BM Part A Examination. The examination is designed to test your ability to apply and interpret statistics.

**Essential Medical Statistics:** Assessment will be based on submission of a written assignment which should not exceed 4,000 words.

Computer package used:

Stata C:\Users\npidduck\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\UKGK866A\MC900072629[1].gif SPSS  StatsDirect  S-plus  R

NCSS  Matlab  Other , please state which :

Recommended literature :

*Contact - administration*

Name : Nicola Pidduck Position : Medical statistics administrator

Email :     nicola.pidduck@phc.ox.ac.uk

Address : The Department of Primary Care Health Sciences,

Radcliffe Observatory Quarter,

Woodstock Road,

Oxford,

OX2 6GG

*Tutors*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Department | Email | Address | Telephone Number |
| **Introduction to medical statistics** |  |  |  |  |
| Richard Stevens | PCHS |  |  |  |
| Rafael Perera | PCHS |  |  |  |
| James Halsey | CTSU |  |  |  |
| Emily McFadden | PCHS |  |  |  |
| Sarah Stevens | PCHS |  |  |  |
| Ben Cairns | CEU |  |  |  |
| **Essential Medical Statistics** |  |  |  |  |
| Richard Stevens | PCHS |  |  |  |
| Rafael Perera | PCHS |  |  |  |
| Bernie Higgins | Senior Lecturer in the Division of Mathematics & Statistics |  | University of Portsmouth |  |
| Jason Oke | PCHS |  |  |  |

Other comments:

Information last up to date: Click here to enter a date.

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