

Teaching Resource Pack

Statistics in Practice: Case Studies in Medicine

Teachers are free to reproduce these materials by any method. Electronic versions may be downloaded from

<http://www.cse.dmu.ac.uk/Courses/MScIDM/StatPack/>

and

<http://science.ntu.ac.uk/rsscse/schools/StatPack/>

Medicine now provides one of the largest application areas of statistical methods, the results of which affect the health and welfare of us all.

Whilst some of the more advanced statistical techniques are best presented as part of an undergraduate programme, many medical studies make extensive use of the methods found in post-16 courses in statistics.

This resource pack, prepared by staff from De Montfort University¹ at Leicester in collaboration with BASF Pharma² at Nottingham, provides examples of real medical datasets that may be used to illustrate a range of statistical topics found in the post-16 curriculum.

The Student Cards provide an overview of the subject area of medical statistics and three case studies linked to the issue of obesity.

The Teacher's Guide provides an indication of the analyses that students could be asked to complete in relation to each case study, together with outline solutions.

We hope that this resource pack will provide a valuable supplement to existing statistics teaching material and raise the awareness in schools and colleges of the subject area of medical statistics, which offers a range of interesting and challenging career opportunities.

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