

Contents

About the authors	vi
Acknowledgements	vii
Additional online material	viii
1 Statistics for health care research	1
2 The statistical approach: when should it be applied?	9
3 Measuring, sampling and error	16
4 Questionnaires	25
5 The studies	36
6 Descriptive statistics	44
7 Displaying data	55
8 Lies, damned lies and statistics	67
9 An introduction to hypothesis testing	82
10 Distributions and probabilities	89
11 Making predictions	99
12 Testing for differences between means	108
13 Errors and ANOVAs	125
14 Not normal	139
15 Non-parametric tests	149
16 Tests for association: chi-square	165
17 Tests for association: correlation and regression	175
18 How big a sample: power analysis	195
19 Analysing data from systematic reviews	203
20 Choosing test statistics	209
Appendix 1 The common symbols and abbreviations used in statistics	211
Appendix 2 A guide to critically analysing statistics	213
Appendix 3 Statistical tables	215
Appendix 4 Answers to exercises	224
Glossary	232
References	237
Index	240