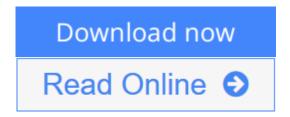# Statistics for Veterinary and Animal Science

By Aviva Petrie, Paul Watson

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Banish your fears of statistical analysis using this clearly written and highly successful textbook. *Statistics for Veterinary and Animal Science Third Edition* is an introductory text which assumes no previous knowledge of statistics. It starts with very basic methodology and builds on it to encompass some of the more advanced techniques that are currently used. This book will enable you to handle numerical data and critically appraise the veterinary and animal science literature. Written in a non-mathematical way, the emphasis is on understanding the underlying concepts and correctly interpreting computer output, and not on working through mathematical formulae.

Key features:

- Flow charts are provided to enable you to choose the correct statistical analyses in different situations
- Numerous real worked examples are included to help you master the procedures
- Two statistical packages, SPSS and Stata, are used to analyse data to familiarise you with typical computer output
- The data sets from the examples in the book are available as electronic files to download from the book's companion website in ASCII, Excel, SPSS, Stata and R Workspace formats, allowing you to practice using your own software and fully get to grips with the techniques
- A clear indication is provided of the more advanced or obscure topics so that, if desired, you can skip them without loss of continuity.

 New to this edition:

- New chapter on reporting guidelines relevant to veterinary medicine as a ready reference for those wanting to follow best practice in planning and writing up research
- New chapter on critical appraisal of randomized controlled trials and observational studies in the published literature: a template is provided which is used to critically appraise two papers
- New chapter introducing specialist topics: ethical issues of animal investigations, spatial statistics, veterinary surveillance, and statistics in molecular and quantitative genetics

- Expanded glossaries of notation and terms
- Additional exercises and further explanations added throughout to make the book more comprehensive.

Carrying out statistical procedures and interpreting the results is an integral part of veterinary and animal science. This is the only book on statistics that is specifically written for veterinary science and animal science students, researchers and practitioners.

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Statistics for Veterinary and Animal Science By Aviva Petrie, Paul Watson Bibliography

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- Dimensions: 9.70" h x .70" w x 7.50" l, .0 pounds
- Binding: Paperback
- 408 pages

Editorial Review

Review

"This book succeeds in this and represents an appropriate text for anyone wishing to understand or produce veterinary and animal science research." (*Veterinary Record*, 14 December 2013)

"Any who carry out or interpret statistical results in a veterinary practice will find this a powerful read, packed with ideas presented in a non-mathematical method clear of jargon but pertinent to any daily practice." (*Midwest Book Review*, 1 September 2013)

"This book offers a good introduction to the most important tests used in veterinary statistics. It provides readers with relevant information on appropriate tests, computer programs, and use of the data. All the data is current and a website provides updated information." (*Doody's*, 6 September 2013)

"It also seems likely that the third edition of the book will be positively received and meet with approval from those looking for an introduction to statistics for students taking degree programs in veterinary medicine and animal sciences. Although written primarily with students and practitioners of veterinary medicine in mind, Statistics for Veterinary and Animal Science also has much to offer students and researchers within other branches of the biological sciences." (*Aquaculture International*, 22 July 2013)

From the Back Cover

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This book is accompanied by a companion website:
www.wiley.com/go/petrie/statisticsforvets
The website includes:
• Data files which relate to some of the examples in the text. Each data file is provided for download in four different formats: ASCII, Excel, SPSS and Stata, allowing you to practice using your own software and fully get to grips with the techniques.
• Examples relating to the data files are indicated in the text using the following icon.

About the Author

Aviva Petrie, Head of Biostatistics Unit and Senior Lecturer, UCL Eastman Dental Institute, London; Honorary Lecturer in Medical Statistics, Medical Statistics Unit, London School of Hygiene and Tropical Medicine, UK. She is also author of a number of other books, including *Medical Statistics at a Glance*.

Paul Watson is a distinguished and well respected scientist in the field of Reproductive Biology, and is Emeritus Professor at the Royal Veterinary College, UK.

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