



## Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science)

By David Collett

Download now

Read Online →

**Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science)** By David Collett

**Modelling Survival Data in Medical Research** describes the modelling approach to the analysis of survival data using a wide range of examples from biomedical research.

Well known for its nontechnical style, this third edition contains new chapters on frailty models and their applications, competing risks, non-proportional hazards, and dependent censoring. It also describes techniques for modelling the occurrence of multiple events and event history analysis. Earlier chapters are now expanded to include new material on a number of topics, including measures of predictive ability and flexible parametric models. Many new data sets and examples are included to illustrate how these techniques are used in modelling survival data.

Bibliographic notes and suggestions for further reading are provided at the end of each chapter. Additional data sets to obtain a fuller appreciation of the methodology, or to be used as student exercises, are provided in the appendix. All data sets used in this book are also available in electronic format online.

This book is an invaluable resource for statisticians in the pharmaceutical industry, professionals in medical research institutes, scientists and clinicians who are analyzing their own data, and students taking undergraduate or postgraduate courses in survival analysis.

↓ [Download Modelling Survival Data in Medical Research, Third ...pdf](#)

 [Read Online Modelling Survival Data in Medical Research, Thi ...pdf](#)

# Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science)

*By David Collett*

**Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science)** By David Collett

**Modelling Survival Data in Medical Research** describes the modelling approach to the analysis of survival data using a wide range of examples from biomedical research.

Well known for its nontechnical style, this third edition contains new chapters on frailty models and their applications, competing risks, non-proportional hazards, and dependent censoring. It also describes techniques for modelling the occurrence of multiple events and event history analysis. Earlier chapters are now expanded to include new material on a number of topics, including measures of predictive ability and flexible parametric models. Many new data sets and examples are included to illustrate how these techniques are used in modelling survival data.

Bibliographic notes and suggestions for further reading are provided at the end of each chapter. Additional data sets to obtain a fuller appreciation of the methodology, or to be used as student exercises, are provided in the appendix. All data sets used in this book are also available in electronic format online.

This book is an invaluable resource for statisticians in the pharmaceutical industry, professionals in medical research institutes, scientists and clinicians who are analyzing their own data, and students taking undergraduate or postgraduate courses in survival analysis.

**Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science)** By David Collett **Bibliography**

- Sales Rank: #169351 in Books
- Brand: imusti
- Published on: 2014-12-04
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 6.25" w x 1.25" l, .0 pounds
- Binding: Hardcover
- 548 pages

 [Download Modelling Survival Data in Medical Research, Third ...pdf](#)

 [Read Online Modelling Survival Data in Medical Research, Thi ...pdf](#)

**Download and Read Free Online Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett**

---

## **Editorial Review**

### Review

"Now in its third edition, Collett's book provides a comprehensive overview of survival analyses and extensions. The book has been expanded considerably; it has increased to 532 pages from the 395 pages in the second edition. Most notably, Collett has expanded his chapter on the Cox regression model and added more information on extensions to standard survival analyses such as frailty models, competing risks, multiple events, and event history modeling...A strength of this book is the author's emphasis on diagnostics and model-checking and the integration of thorough references to other works so the reader can seek more background or additional information as necessary. As Collett describes it, he is aiming his writing at an intermediate level. This book is quite well written and straightforward to follow, but does require some statistics background of the reader...this book is definitely worth a look for anyone who teaches or conducts survival analyses. It is an excellent resource for applied statisticians and biostatisticians, and has strong potential as a textbook for upper-year statistics undergraduate or graduate-level courses in survival analysis."  
?Bethany J. G. White, The University of Western Ontario, in *The American Statistician*, March 2016

"The third edition of Dave Collett's book enhances its position as a superb introduction to the area of survival analysis for medical statisticians, academic statisticians, their students, and statistically aware medical practitioners. It is easy to read and has clear explanations and enough mathematical material to satisfy the statistician but not too much that it would deter others. The extra material added since the second edition keeps this book at the forefront."

?**Dr. Trevor Cox**, Director of Statistics, Cancer Research UK Liverpool Cancer Trials Unit

"This is an excellent book, which should appeal to anyone involved in quantitative medical research or research training. Earlier editions have already established this remarkable book as a standard reference to one of the most important topics in medical research: survival analysis. In the latest edition, the author has widened the scope of his coverage of the subject far beyond the standard Cox analysis that still dominates the medical literature. He does this with the same lucid style and systematic harmonization of theory and practice as before. The key equations are provided, but not allowed to distract the practitioner. Examples are used both to explain all the important concepts and methodologies and to motivate the theory."

?**Mark Woodward**, Professor of Statistics and Epidemiology, Nuffield Department of Population Health, University of Oxford

"Dr. Collett has provided an invaluable resource for all students of biostatistics and epidemiology, whether new learners or long-time professionals in the field. He covers the fundamentals of survival analysis by providing thorough treatments of the theory and underpinnings of the concepts while making the material accessible to the reader by providing numerous real-world examples that nicely illustrate the concepts. In addition, he covers many recent additions to the field ensuring that the text is up to date and relevant to today's practicing biostatistician. Dr. Collett's text will be an indispensable resource to all who are charged with drawing proper inference from survival data."

?**Jon J. Snyder**, PhD, Director of Transplant Epidemiology, Minneapolis Medical Research Foundation

"As a master's student in biostatistics, with a medical background, I missed having a good reference book for survival analysis that is interlarded with clinical examples. Albeit too late for my studies, I was glad to see

the appearance of the first edition of this book. It has been a good friend since that time and the second edition?again full of examples of medical data?fulfilled all expectations. ... this newest edition remains fresh as a daisy and will certainly join its older brothers in my bookcase."

?**Jacqueline M. Smits**, MD, PhD

**Praise for the Second Edition:**

Collett has succeeded admirably in updating the first edition of his book ... [This book] has numerous, carefully worked, real-data examples. There is enough new material in the second edition to justify its purchase by someone who already owns the first edition.

?*Journal of the American Statistical Association*, Sept. 2004, Vol. 99, No. 467

this text is a fine example of technical writing and remains highly recommended for both students and researchers requiring an introduction to survival analysis in a medical context.

?*Journal of the Royal Statistical Society*, Issue 167 (4)

... a well written practical guide with a demonstration of SAS software to perform survival analysis. ... It can be used as a textbook in a graduate-level survival analysis course ... .

?*Journal of Statistical Computation & Simulation*, Vol. 74, No. 5, May 2004

It is thorough and authoritative, covers all essential theory and contains many practical tips.

?*Journal of the Royal Statistical Society*, Vol. 157

**Praise for the First Edition:**

... a useful book that has particular merit for the applied statistician. Chapters 1-6 and 11 alone supply a wonderful introduction to survival analysis. The mathematical statistician unfamiliar with survival analysis who desires to become quickly abreast will also gain much from the book.

?*Journal of the American Statistical Association*

Students found the presentation of the material and examples to be very helpful ... an excellent book ... I highly recommend this book for practising statisticians engaged in analysing univariate survival data. ... This book will not only serve the statistical practitioner in the medical and pharmaceutical research areas well, but will be a convenient text for the lecturer aiming to include a useful applied component into a post-graduate statistics or operational research degree course.

?*Journal of the Royal Statistical Society*

The book would be a popular text for courses and a well-thumbed addition to any medical statistician's collection. It is sufficiently general to be of interest to industrial statisticians concerned with lifetime testing but the focus is clearly on survival of patients under treatment.

?*The Statistician*

About the Author

**David Collett**, PhD, associate director of statistics and clinical studies, NHS Blood and Transplant, Bristol and visiting professor of statistics, Southampton Statistical Sciences Research Institute, University of Southampton, UK

## **Users Review**

### **From reader reviews:**

#### **Rodney Bryant:**

Book is written, printed, or created for everything. You can understand everything you want by a book. Book has a different type. To be sure that book is important issue to bring us around the world. Alongside that you can your reading proficiency was fluently. A guide Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) will make you to be smarter. You can feel considerably more confidence if you can know about everything. But some of you think that will open or reading a new book make you bored. It isn't make you fun. Why they could be thought like that? Have you looking for best book or suited book with you?

#### **Kimberly Kiser:**

Reading a book tends to be new life style with this era globalization. With reading through you can get a lot of information that can give you benefit in your life. Together with book everyone in this world may share their idea. Publications can also inspire a lot of people. A great deal of author can inspire their very own reader with their story or even their experience. Not only the storyline that share in the ebooks. But also they write about the data about something that you need case in point. How to get the good score toefl, or how to teach your kids, there are many kinds of book which exist now. The authors nowadays always try to improve their expertise in writing, they also doing some investigation before they write on their book. One of them is this Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science).

#### **Raymond Albanese:**

Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) can be one of your starter books that are good idea. Many of us recommend that straight away because this guide has good vocabulary that could increase your knowledge in vocab, easy to understand, bit entertaining but nonetheless delivering the information. The copy writer giving his/her effort to put every word into satisfaction arrangement in writing Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) nevertheless doesn't forget the main stage, giving the reader the hottest in addition to based confirm resource information that maybe you can be certainly one of it. This great information could drawn you into completely new stage of crucial contemplating.

#### **Jill Weber:**

Do you like reading a guide? Confuse to looking for your selected book? Or your book had been rare? Why so many issue for the book? But any people feel that they enjoy with regard to reading. Some people likes looking at, not only science book but also novel and Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) or others sources were given expertise for you. After you know how the good a book, you feel desire to read more and more. Science e-book was created for teacher or even students especially. Those ebooks are helping them to put their knowledge. In various other

case, beside science reserve, any other book likes Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) to make your spare time much more colorful. Many types of book like this.

**Download and Read Online Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett #3FH6W7ER90U**



## **Read Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett for online ebook**

Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett Free PDF download, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett books to read online.

### **Online Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett ebook PDF download**

**Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett Doc**

**Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett Mobipocket**

**Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett EPub**

**3FH6W7ER90U: Modelling Survival Data in Medical Research, Third Edition (Chapman & Hall/CRC Texts in Statistical Science) By David Collett**