



The Evaluation of Surrogate Endpoints (Statistics for Biology and Health)

Tomasz Burzykowski, Geert Molenberghs, Marc Buyse

Download now

[Click here](#) if your download doesn't start automatically

The Evaluation of Surrogate Endpoints (Statistics for Biology and Health)

Tomasz Burzykowski, Geert Molenberghs, Marc Buyse

The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) Tomasz Burzykowski, Geert Molenberghs, Marc Buyse

Both humanitarian and commercial considerations have spurred intensive search for methods to reduce the time and cost required to develop new therapies. The identification and use of surrogate endpoints, i.e., measures that can replace or supplement other endpoints in evaluations of experimental treatments or other interventions, is a general strategy that has stimulated both enthusiasm and skepticism. Surrogate endpoints are useful when they can be measured earlier, more conveniently, or more frequently than the 'true' endpoints of primary interest. Regulatory agencies around the globe, particularly in the United States, Europe, and Japan, are introducing provisions and policies relating to the use of surrogate endpoints in registration studies. But how can one establish the adequacy of a surrogate? What kind of evidence is needed, and what statistical methods portray that evidence most appropriately? This book offers a balanced account on this controversial topic. The text presents major developments of the last couple of decades, together with a unified, meta-analytic framework within which surrogates can be evaluated from several angles.

Methodological development is coupled with perspectives on various therapeutic areas. Academic views are juxtaposed with standpoints of scientists working in the biopharmaceutical industry as well as of colleagues from the regulatory authorities. Tomasz Burzykowski is Assistant Professor of Biostatistics at the Limburgs Universitair Centrum in Belgium. Dr. Burzykowski has published methodological work on the analysis of survey data, meta-analyses of clinical trials, and validation of surrogate endpoints. He is a co-author of numerous papers applying statistical methods to clinical data in different disease areas (cancer, cardiovascular diseases, dermatology, orthodontics). Geert Molenberghs is Professor of Biostatistics at the Limburgs Universitair Centrum in Belgium. Dr. Molenberghs published methodological work on surrogate markers in clinical trials, categorical data, longitudinal data analysis, and on the analysis of non-response in clinical and epidemiological studies. He serves as Joint Editor for Applied Statistics (2001-2004) and is President of the International Biometric Society (2004-2005). He was elected Fellow of the American Statistical Association and received the Guy Medal in Bronze from the Royal Statistical Society. Marc Buyse founded the International Drug Development Institute in 1991. He is Past President of the International Society for Clinical Biostatistics, Past President of the Quetelet Society, and Past Board Member of the Society for Clinical Trials. He is currently the Executive Director of IDDI (International Drug Development Institute) and Associate Professor of biostatistics at the Limburgs Universitair Centrum, Center for Statistics, Diepenbeek, Belgium. He has published extensively in the fields of biostatistics and oncology. His research interests include meta-analysis, surrogate endpoints, statistical detection of fraud, and the design and statistical analysis of clinical trials. From the reviews: 'A strength of this book is its comprehensive and up-to-date presentation of issues pertinent to the evaluation of surrogate endpoints...This book makes an important contribution to the clinical trials literature...' Journal of Biopharmaceutical Statistics, 2006 'Many of the chapters deal with real-life data examples and studies involving surrogate outcomes, many written by authors who were directly involved in these studies...The editors have written nice background sections...until a more concise manuscript on this topic is written, this book will remain the most important resource for biostatisticians and researchers in this area.' Debajyoti Sinha for the Journal of the



[Download The Evaluation of Surrogate Endpoints \(Statistics ...pdf](#)



[Read Online The Evaluation of Surrogate Endpoints \(Statistic ...pdf](#)

Download and Read Free Online The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) Tomasz Burzykowski, Geert Molenberghs, Marc Buyse

From reader reviews:

Elizabeth Hager:

Do you have favorite book? Should you have, what is your favorite's book? Reserve is very important thing for us to understand everything in the world. Each publication has different aim or perhaps goal; it means that publication has different type. Some people really feel enjoy to spend their time for you to read a book. They are really reading whatever they take because their hobby is reading a book. Why not the person who don't like examining a book? Sometime, person feel need book once they found difficult problem or maybe exercise. Well, probably you will need this The Evaluation of Surrogate Endpoints (Statistics for Biology and Health).

Maureen Daniels:

This The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) book is absolutely not ordinary book, you have it then the world is in your hands. The benefit you have by reading this book is actually information inside this e-book incredible fresh, you will get info which is getting deeper you actually read a lot of information you will get. This specific The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) without we recognize teach the one who looking at it become critical in imagining and analyzing. Don't be worry The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) can bring when you are and not make your carrier space or bookshelves' turn out to be full because you can have it inside your lovely laptop even phone. This The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) having great arrangement in word and layout, so you will not really feel uninterested in reading.

John Dame:

Here thing why this particular The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) are different and reputable to be yours. First of all reading a book is good however it depends in the content of computer which is the content is as scrumptious as food or not. The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) giving you information deeper and different ways, you can find any publication out there but there is no guide that similar with The Evaluation of Surrogate Endpoints (Statistics for Biology and Health). It gives you thrill studying journey, its open up your own eyes about the thing that will happened in the world which is perhaps can be happened around you. It is possible to bring everywhere like in park your car, café, or even in your means home by train. If you are having difficulties in bringing the paper book maybe the form of The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) in e-book can be your option.

David Murray:

As a university student exactly feel bored in order to reading. If their teacher requested them to go to the library or even make summary for some publication, they are complained. Just minor students that has

reading's heart and soul or real their interest. They just do what the instructor want, like asked to the library. They go to presently there but nothing reading significantly. Any students feel that studying is not important, boring along with can't see colorful photographs on there. Yeah, it is to get complicated. Book is very important for you. As we know that on this era, many ways to get whatever we wish. Likewise word says, ways to reach Chinese's country. Therefore , this The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) can make you truly feel more interested to read.

Download and Read Online The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) Tomasz Burzykowski, Geert Molenberghs, Marc Buyse #TCGD1Y9PAIJ

Read The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) by Tomasz Burzykowski, Geert Molenberghs, Marc Buyse for online ebook

The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) by Tomasz Burzykowski, Geert Molenberghs, Marc Buyse Free PDF d0wnl0ad, 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 The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) by Tomasz Burzykowski, Geert Molenberghs, Marc Buyse books to read online.

Online The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) by Tomasz Burzykowski, Geert Molenberghs, Marc Buyse ebook PDF download

The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) by Tomasz Burzykowski, Geert Molenberghs, Marc Buyse Doc

The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) by Tomasz Burzykowski, Geert Molenberghs, Marc Buyse Mobipocket

The Evaluation of Surrogate Endpoints (Statistics for Biology and Health) by Tomasz Burzykowski, Geert Molenberghs, Marc Buyse EPub