



Bayesian Approaches to Clinical Trials and Health-Care Evaluation

David J. Spiegelhalter, Keith R. Abrams, Jonathan P. Myles

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DESCRIPTION

READ ALL ABOUT IT!

David Spiegelhalter has recently joined the ranks of Isaac Newton, Charles Darwin and Stephen Hawking by becoming a fellow of the Royal Society. Originating from the Medical Research Council's biostatistics unit, David has played a leading role in the Bristol heart surgery and Harold Shipman inquiries.

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The Bayesian approach involves synthesising data and judgement in order to reach conclusions about unknown quantities and make predictions. Bayesian methods have become increasingly popular in recent years, notably in medical research, and although there are a number of books on Bayesian analysis, few cover clinical trials and biostatistical applications in any detail. Bayesian Approaches to Clinical Trials and Health-Care Evaluation provides a valuable overview of this rapidly evolving field, including basic Bayesian ideas, prior distributions, clinical trials, observational studies, evidence synthesis and cost-effectiveness analysis.

Covers a broad array of essential topics, building from the basics to more advanced techniques.

- Illustrated throughout by detailed case studies and worked examples
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Includes exercises in all chapters

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Accessible to anyone with a basic knowledge of statistics

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Authors are at the forefront of research into Bayesian methods in medical research

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Accompanied by a Web site featuring data sets and worked examples using Excel and WinBUGS - the most widely used Bayesian modelling package

Bayesian Approaches to Clinical Trials and Health-Care Evaluation is suitable for students and researchers in medical statistics, statisticians in the pharmaceutical industry, and anyone involved in conducting clinical trials and assessment of health-care technology.

ABOUT THE AUTHOR

Sir David John Spiegelhalter, OBE FRS, is a British statistician and Winton Professor of the Public Understanding of Risk in the Statistical Laboratory at the University of Cambridge and a Fellow of Churchill College, Cambridge. Spiegelhalter is an ISI highly cited researcher.

Keith R. Abrams is the author of *Bayesian Approaches to Clinical Trials and Health-Care Evaluation*, published by Wiley.

Jonathan P. Myles is the author of *Bayesian Approaches to Clinical Trials and Health-Care Evaluation*, published by Wiley.

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