



## Research Methods in Occupational Epidemiology (Monographs in Epidemiology and Biostatistics)

*By Harvey Checkoway, Neil Pearce, David Kriebel*

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**Research Methods in Occupational Epidemiology (Monographs in Epidemiology and Biostatistics)** By Harvey Checkoway, Neil Pearce, David Kriebel

This widely used text provides a clear and critical summary of research approaches to the epidemiological study of workplace hazards. It describes the historical development of occupational epidemiology, methods for characterizing occupational exposures, and techniques for designing and implementing epidemiologic studies in this area. The relative strengths and limitations of various study designs for investigating specific health outcomes are emphasized. Also included are more advanced discussions of statistical analysis, exposure and dose modeling, and subsequent applications of data derived from epidemiologic research, as in meta-analysis, pooled analysis, and statistical analysis, exposure and dose modeling, and risk assessment. Since the first edition was published 15 years ago, there have been numerous advances in epidemiologic methods to accommodate a broadened scope of investigations of occupational exposures and associated adverse health outcomes. Thus, in this Second Edition the authors have updated their discussions of methodology to include such topics as case-cohort and case-crossover designs and statistical analysis of repeated measures data, and have expanded the examples they use throughout the book to demonstrate the applications of these methods to a wide range of acute and chronic health outcomes. They have also added a new chapter on occupational health surveillance. Their text is unique for its strong emphasis on the definition and assessment of exposures, the application of quantitative exposure data to epidemiologic models, and the recognition that improvements in workplace risk identification and quantification will come from careful integration of these approaches. This fine volume will serve both as a textbook for courses on occupational epidemiology and as a practical handbook of the design, implementation, and evaluation of research in this field.

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**Research Methods in Occupational Epidemiology (Monographs in Epidemiology and Biostatistics)** By Harvey Checkoway, Neil Pearce, David Kriebel Bibliography

- Sales Rank: #1131942 in Books
- Published on: 2004-01-22
- Original language: English
- Number of items: 1
- Dimensions: 6.30" h x 1.30" w x 9.30" l, 1.50 pounds
- Binding: Hardcover
- 392 pages

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## **Editorial Review**

### **Review**

An easy-to-read, concise, and practical textbook is a valuable contribution to every field. The second edition of *Research Methods in Occupational Epidemiology* by Checkoway et al is such a good book. I will keep this book on my shelf as my first choice for issues on exposure..." --*Scandinavian Journal of Work, Environment & Health*

"I am unaware of any comparable books on the subject of occupational epidemiology that have been published in the past decade. This book is an excellent and comprehensive text and reference book and, like the first edition, it is quite suitable for both an introductory and an intermediate audience." --*American Journal of Epidemiology*

"...a wonderfully succinct and lucid text that is at the same time accessible to the novice reader and useful to the experienced practitioner. The authors have done a masterful job of improving this already outstanding book..." --*American Journal of Epidemiology*

"...the second edition of a textbook that has been regarded as the standard in occupational epidemiology during the last decade. I would certainly recommend this second edition of this book to anyone interested in occupational epidemiology." --*International Journal of Epidemiology*

### **From reviews of the first edition**

"An up-to-date presentation of research methods in occupational epidemiology is provided by this well-written and well-structured textbook...This excellent book is likely to become a standard reference text. All those engaged in occupational epidemiology should obtain a copy."--*International Journal of Epidemiology*

"A remarkably well-written, easy-to-read, concise synopsis of the whole range of methods used in occupational epidemiology. Many examples, tables, diagrams, with comprehensive summaries of statistical concepts and various methods used to model exposure and dose. A valuable reference for basic and intermediate work."--*APHA Occupational Health and Safety Newsletter*

"This book is a worthwhile introductory text to the emerging field of occupational epidemiology. It gives an

extensive discussion of the practical problems to be faced in planning and executing occupational studies, and will be of particular benefit to persons starting work in this field of study."--*Chronic Diseases*

#### About the Author

Harvey Checkoway is at University of Washington School of Public Health and Community Medicine. Neil E. Pearce is at Massey University Wellington Campus.

### Users Review

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