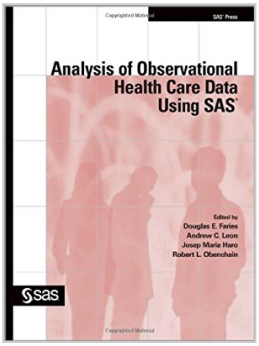

Analysis of Observational Health Care Data Using SAS

By Douglas Faries, Robert Obenchain, Josep Maria Haro, Andrew C. Leon

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This book guides researchers in performing and presenting high-quality analyses of all kinds of non-randomized studies, including analyses of observational studies, claims database analyses, assessment of registry data, survey data, pharmaco-economic data, and many more applications. The text is sufficiently detailed to provide not only general guidance, but to help the researcher through all of the standard issues that arise in such analyses. Just enough theory is included to allow the reader to understand the pros and cons of alternative approaches and when to use each method. The numerous contributors to this book illustrate, via real-world numerical examples and SAS code, appropriate implementations of alternative methods. The end result is that researchers will learn how to present high-quality and transparent analyses that will lead to fair and objective decisions from observational data.

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Editorial Review

Review
"Analysis of Observation Health Care Data Using SAS should be a required reference book available to health outcomes, economics, and epidemiology researchers at all levels, whether they are graduate students or experienced analysts. It contains much practical wisdom; describes the techniques, standards, and pitfalls of analyzing real world data; as well as provides actual computer code that should be immediately useful to analysts of 'real world' health care data. It even has references to publications that have applied such methods. This is a long awaited and much needed book, and I am hopeful that it will serve as a general guidance to improve the quality of research using observational data." --Howard G. Birnbaum, PhD, Principal, Analysis Group, Inc.

"This book, which is a collection of articles by experts, serves a vital need for a good general book on the subject of observational studies in medicine. The randomized control trial is not the only method of analysis, but observational studies have their special problems. This book concentrates on method such as propensity scoring and instrumental variables, pointing out the advantages and disadvantages of each. The technical level varies from chapter to chapter, but is generally fairly accessible. The chapters all have extensive references, and each has copious SAS code, with comments and output, to illustrate key ideas. If you analyze observational data in the medical field, you will want this book." --Peter Flom, Independent Statistical Consultant, Peter Flom Consulting, LLC

About the Author
Douglas E. Faries is Senior Research Advisor at Lilly USA, where he oversees statistical design and analysis support for Health Outcomes Research, including retrospective claims data analyses and prospective observational studies. A SAS user for more than twenty years, he received his Ph.D. in Statistics from Oklahoma State University and his M.S. in Mathematics from Western Illinois University. Dr. Faries is a member of the American Statistical Association and the International Society of Pharmacoeconomic and Outcomes Research.

A SAS user since 1986, Robert Obenchain is Principal Consultant at Risk Benefit Statistics LLC in Carmel, Indiana; Research Fellow at the National Institute of Statistical Sciences in Research Triangle Park, North Carolina; and Adjunct Professor in Biostatistics at Indiana University Medical School in Indianapolis. Previously, Dr. Obenchain worked for thirty-seven years as a professional statistician in the telecommunications (Bell Labs) and pharmaceutical industries (Eli Lilly and Glaxo) doing data analyzes, statistical computing, and methods development. He received his Ph.D. in mathematical statistics from the University of North Carolina at Chapel Hill.

Josep Maria Haro is Director of the Saint John of God Research and Teaching Foundation in Barcelona, Spain, which promotes and manages the research of two hospitals, the pediatric Hospital Sant Joan de Déu and the San Joan de Déu-Serveis de Salut Mental, which specializes in treatment of mental health issues. He earned an M.D. from the University of Barcelona, a Master's in Public Health from Johns Hopkins University, and a Ph.D. from University Autonoma in Barcelona. A SAS user since 1990, Dr. Haro is widely published and is a member of International Federation of Psychiatric Epidemiology, the European Congress of Neuropsychopharmacology, the Schizophrenia International Research Society, and the Catalan Psychiatric Society (SCP).

Andrew C. Leon was Professor of Public Health and of Biostatistics in Psychiatry at Weill Cornell Medical College in New York City. He was a member of the American College of Neuropsychopharmacology, the American Statistical Association, the International Biometric Society, the International Society for CNS Clinical Trials and Methodology, the International Statistical Institute, and the Society for Clinical Trials. Dr. Leon received his Ph.D. in Educational Psychology from City University in New York. Dr. Leon was published in many medical journals, including the American Journal of Psychiatry and the Journal of Clinical Psychiatry.

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