Evidence Synthesis for Decision Making in Healthcare (Hardback)

By Alexander J. Sutton, Keith R. Abrams, A. E. Ades

John Wiley and Sons Ltd, United States, 2012. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. In the evaluation of healthcare, rigorous methods of quantitative assessment are necessary to establish interventions that are both effective and cost-effective. Usually a single study will not fully address these issues and it is desirable to synthesize evidence from multiple sources. This book aims to provide a practical guide to evidence synthesis for the purpose of decision making, starting with a simple single parameter model, where all studies estimate the same quantity (pairwise meta-analysis) and progressing to more complex multi-parameter structures (including meta-regression, mixed treatment comparisons, Markov models of disease progression, and epidemiology models). A comprehensive, coherent framework is adopted and estimated using Bayesian methods. Key features: * A coherent approach to evidence synthesis from multiple sources. * Focus is given to Bayesian methods for evidence synthesis that can be integrated within cost-effectiveness analyses in a probabilistic framework using Markov Chain Monte Carlo simulation. * Provides methods to statistically combine evidence from a range of evidence structures. * Emphasizes the importance of model critique and checking for evidence consistency. * Presents numerous worked examples, exercises and solutions drawn from a variety...

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