

CONTENTS

Foreword	vii
Preface	xiii
Contributors	xvii
How to Use This Book	xxi

Part 1

The Basics: Using the Medical Literature

1A	Introduction: The Philosophy of Evidence-Based Medicine	3
1A1	Finding the Evidence	13
1B	Therapy and Harm: An Introduction	49
1B1	Therapy	55
1B2	Harm	81
1C	The Process of Diagnosis	101
1C1	Differential Diagnosis	109
1C2	Diagnostic Tests	121
1D	Prognosis	141
1E	Summarizing the Evidence	155
1F	Moving From Evidence to Action	175

Part 2

Beyond the Basics: Using and Teaching the Principles of Evidence-Based Medicine

2A	Expanded Philosophy of Evidence-Based Medicine	
	Parallel but Separate Goals—Evidence-Based	
	Practitioners and Evidence-Based Care	205
	Criticisms of Evidence-Based Medicine	211

2B	Therapy and Harm	
	Why Study Results Mislead—Bias and Random Error	223
	Outcomes of Health Services	233
2B1	Therapy and Validity	
	Surprising Results of Randomized Controlled Trials	247
	The Principle of Intention-to-Treat	267
	N of 1 Randomized Controlled Trials	275
	Computer Decision Support Systems	291
2B2	Therapy and Understanding the Results	
	Quality of Life	309
	Hypothesis Testing	329
	Confidence Intervals	339
	Measures of Association	351
2B3	Therapy and Applying the Results	
	Applying Results to Individual Patients	369
	Example Numbers Needed to Treat	385
	Surrogate Outcomes	393
	Drug Class Effects	415
	Qualitative Research	433
2C	Diagnosis	
	Clinical Manifestations of Disease	449
	Measuring Agreement Beyond Chance	461
	Clinical Prediction Rules	471
	Examples of Likelihood Ratios	485
2D	Prognosis	
	Regression and Correlation	517
2E	Summarizing the Evidence	
	Publication Bias	529
	Fixed-Effects and Random-Effects Models	539
	Evaluating Differences in Study Results	547
	When to Believe a Subgroup Analysis	553
2F	Moving From Evidence to Action	
	Incorporating Patient Values	567
	Recommendations About Screening	583
	Grading Recommendations—A Qualitative Approach	599
	Grading Recommendations—A Quantitative Approach	609
	Economic Analysis	621
	Clinical Utilization Review	645
	Appendix	659
	Glossary	665
	CD-ROM Installation Instructions	695
	Index	697