# Contents

#### Introduction 1

## 1 Using Patients' Reports To Evaluate Medical Outcomes 3

by Floyd J. Fowler

Summary 3

Current Applications 5

Measuring Health-Related Quality of Life 9

Reliability and Validity 14

Issues 17

Conclusion 21

References 21

#### 2 Large Administrative Database Analysis 27

by Jeff Whittle

Summary 27

Descriptive Studies 31

Comparative Studies 37

Adjuncts to Other Research Methods 46

Other Issues 48

References 55

### 3 Large and Simple Randomized Trials 67

by Julie E. Buring, Michael A. Jonas, and Charles H. Hennekens

Summary 67

Principles of Large and Simple Trials 69

Other Applications of Large, Simple Trials 75

Impact of Large, Simple Trials on Clinical

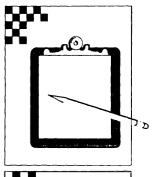
Practice 82

Limitations of Large, Simple Trials 83

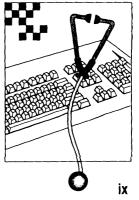
Additional Issues 84

**Conclusions 88** 

References 88







#### 4 Meta-Analysis 93

by Matthew P. Longnecker

Summary 93
Conducting a Meta-Analysis 97
Reliability and Validity 101
Issues and Controversies 102
Future Applications 109
Conclusion 110
References 111
Appendix 4-A 116

#### 5 Clinical-Economic Trials 125

by Neil R. Powe and Robert I. Griffiths
Summary 125
Methodological Considerations 131
Validity and Reliability 139
Future Prospects 142
References 145

