Contents

Preface		ix
Acknowled	gements	X
Notes on C	ontributors	xiii
Chapter 1	Publication Bias in Meta-Analysis Hannah R. Rothstein, Alexander J. Sutton and Michael Borenstein	1
PART A P	UBLICATION BIAS IN CONTEXT	9
Chapter 2	Publication Bias: Recognizing the Problem, Understanding Its Origins and Scope, and Preventing Harm Kay Dickersin	11
Chapter 3	Preventing Publication Bias: Registries and Prospective Meta-Analysis Jesse A. Berlin and Davina Ghersi	35
Chapter 4	Grey Literature and Systematic Reviews Sally Hopewell, Mike Clarke and Sue Mallett	49
PART B S	TATISTICAL METHODS FOR ASSESSING PUBLICATION BIAS	73
Chapter 5	The Funnel Plot Jonathan A.C. Sterne, Betsy Jane Becker and Matthias Egger	75
Chapter 6	Regression Methods to Detect Publication and Other Bias in Meta-Analysis Jonathan A.C. Sterne and Matthias Egger	99
Chapter 7	Failsafe N or File-Drawer Number Betsy Jane Becker	111
Chapter 8	The Trim and Fill Method Sue Duval	127

viii CONTENTS

Chapter 9	Selection Method Approaches Larry V. Hedges and Jack Vevea	145
Chapter 10	Evidence Concerning the Consequences of Publication and Related Biases <i>Alexander J. Sutton</i>	175
Chapter 11	Software for Publication Bias Michael Borenstein	193
PART C AD	VANCED AND EMERGING APPROACHES	221
Chapter 12	Bias in Meta-Analysis Induced by Incompletely Reported Studies Alexander J. Sutton and Therese D. Pigott	223
Chapter 13	Assessing the Evolution of Effect Sizes over Time Thomas A. Trikalinos and John P.A. Ioannidis	241
Chapter 14	Do Systematic Reviews Based on Individual Patient Data Offer a Means of Circumventing Biases Associated with Trial Publications? Lesley Stewart, Jayne Tierney and Sarah Burdett	26 1
Chapter 15	Differentiating Biases from Genuine Heterogeneity: Distinguishing Artifactual from Substantive Effects John P.A. Ioannidis	287
Chapter 16	Beyond Conventional Publication Bias: Other Determinants of Data Suppression Scott D. Halpern and Jesse A. Berlin	303
Appendices		319
Appendix A	Data Sets	321
Appendix B	Annotated Bibliography Hannah R. Rothstein and Ashley Busing	331
Glossary		347
Index		353