

CONTENTS

About the Authors	xi
Acknowledgments	xiii
Foreword	xv
Introduction	xix
Part I Magnitude, Concepts, and Epidemiology of Unintentional and Intentional Injury.....	1
Chapter 1 The Importance of the Injury Problem: Magnitude, Cost, and Preventability	3
What This Chapter Is About	3
Introduction	3
Magnitude	12
Costs	15
Preventability	17
Conclusion	20
Chapter 2 Conceptual and Historical Underpinnings of Injury and Injury Prevention	25
What This Chapter Is About	25
Introduction	26
High Points in the Conceptual Evolution of Injury ..	28
Injury Biomechanics	29
Injury Prevention	31
Intent	35
Conclusion	36
Appendix 2-A: Overview of Landmark Injury Prevention, US, 1937–2004	39
Chapter 3 Epidemiology of Injury	49
What This Chapter Is About	49
Introduction	49
What Is Epidemiology?	51
Data	55
Methodology	59

	Selecting a Study Design	63
	Conclusion	65
	Appendix 3-A: External Cause of Injury	
	Mortality (ICD-9)	71
	Appendix 3-B: External Cause of Injury	
	Mortality (ICD-10)	73
Chapter 4	Unintentional Injury	77
	What This Chapter Is About	77
	Introduction	78
	Motor Vehicle Injuries	79
	Falls	83
	Poisonings	84
	Fires and Burns	85
	Drowning	86
	Asphyxiation	86
	Sports and Recreational Injuries	87
	Occupational Injury	88
	Conclusion	89
	Appendix 4-A: Injury-Related Year 2010	
	Objectives: Unintentional Injury Prevention	97
Chapter 5	Intentional Injury	101
	What This Chapter Is About	101
	Introduction	101
	Self-Inflicted Violence	103
	Homicide	106
	Nonfatal Assaultive Violence	108
	Intimate Partner Violence and Sexual Assault	109
	Child Abuse	112
	Elder Abuse	114
	The Interrelationship of Types of Violence	115
	Epidemiology	116
	Approaches to Solutions	120
	Conclusion	131
	Appendix 5-A: Injury-Related Year 2010	
	Objectives: Violence and Abuse Prevention	147

Part II	
Chapter 6	Basic Concepts of Injury Prevention 151
	Injury Prevention: General Principles 153
	What This Chapter Is About 153
	Introduction 154
	General Principles of Injury Prevention 156
	Implementation 158
	Conclusion 163
Chapter 7	Injury Prevention: Educational Strategies 167
	What This Chapter Is About 167
	Introduction 168
	Conceptual Principles 169
	Techniques for Educating and Persuading 171
	Who Are We Educating? 174
	When and How to Use Educational Strategies: A Balanced Approach 178
	Evaluating Results 183
	Conclusion 185
Chapter 8	Injury Prevention: Environmental Modification 193
	What This Chapter Is About 193
	Introduction 193
	Modifying the Environment 195
	Examples 196
	The Role of Public Health Professionals 203
	Conclusion 208
Chapter 9	Injury Prevention: The Role of Law 211
	What This Chapter Is About 211
	Introduction 211
	The Number and Variety of Injury Prevention Laws 212
	State Police Power 213
	Federal Authority 217
	The Nature of Injury Prevention Laws 217
	Validity of Injury Prevention Laws 220
	Other Objections to Injury Prevention Laws 225
	Public Health Practitioners and the Law 227
	Tort Law 230
	Conclusion 232

Part III	Practical Knowledge, Skills, and Strategies	237
Chapter 10	Injury Prevention: The Role of Public Agencies	239
	What This Chapter Is About	239
	Introduction	240
	The State Players	241
	The Federal Players	257
	Conclusion	275
Chapter 11	Developing a Public Health Agency Injury Program: A Systems Approach	285
	What This Chapter Is About	285
	Introduction	286
	Getting On The Agenda	289
	Starting Up: The Importance of the Lead Agency	298
	Critical Factors	303
	Conclusion	315
	Appendix 11-A: Developing a State Injury Prevention Plan: The Process	319
Chapter 12	Injury Surveillance: A 10-Step Plan	323
	What This Chapter Is About	323
	Introduction	323
	What Data Do You Need?	324
	Step 1: Define the Objectives for the Injury Surveillance System	325
	Step 2: Form a Data Committee	328
	Step 3: Identify Existing Data Sources	329
	Step 4: Determine the Strengths and Limitations of Each Data Source	350
	Step 5: Conduct Preliminary Data Analysis	355
	Step 6: Reevaluate Objectives for the Surveillance System Based on Steps 3 through 5	355
	Step 7: Consider Linking Information from Existing Data Sources	356
	Step 8: Perform Validation Studies to Evaluate the Injury Surveillance System	358
	Step 9: Develop a Dissemination Plan for Sharing Data	359
	Step 10: The Surveillance to Action and Funding	360

Conclusion	361
Appendix 12-A: An Injury Surveillance Example	369
Chapter 13	
Real World Evaluation Techniques	373
What This Chapter Is About	373
Introduction	374
Evaluation Steps	376
Constraints on “Perfect” Evaluation	394
Conclusion	396
Appendix 13-A: An Evaluation Case Study	401
Chapter 14	
Injury Prevention: Opportunities and Barriers	409
What This Chapter Is About	409
Introduction	410
Funding Limitations	411
Organizational Difficulties	415
Turf Battles	417
Scientists, Policymakers, and Myths	418
Economic and Political Aspects of Injury Prevention	420
Sustainability of Injury Prevention Programs	425
Advocacy	427
Communicating With Lawmakers	431
Examples	437
Conclusion	445
Conclusion	451
Appendix A—Injury-Related Web Sites	453
Index	469