## Contents

<table>
<thead>
<tr>
<th>Acknowledgments</th>
<th>page ix</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of Contributors</td>
<td>xi</td>
</tr>
<tr>
<td>1 Disaster Mental Health Research: Exposure, Impact, and Response</td>
<td>1</td>
</tr>
<tr>
<td>Yuval Neria, Sandro Galea, and Fran H. Norris</td>
<td></td>
</tr>
</tbody>
</table>

### PART ONE: CONCEPTS

| 2 Disaster Mental Health Research: Past, Present, and Future | 7 |
| Beverley Raphael and Paul Maguire |
| 3 The Experience of Disaster: Trauma, Loss, Adversities, and Community Effects | 29 |
| Fran H. Norris and Leslie H. Wind |

### PART TWO: PSYCHOPATHOLOGY AFTER DISASTERS

| 4 Anxiety Disorders and PTSD | 47 |
| Alexander C. McFarlane, Miranda Van Hooff, and Freya Goodhew |
| 5 Physical Health Problems after Disasters | 67 |
| C. Joris Yzermans, Bellis van den Berg, and Anja J. E. Dirkzwager |
| 6 Substance Use and Misuse after Disaster Prevalences and Correlates | 94 |
| Peter G. van der Velden and Rolf J. Kleber |
| 7 Depression and Prolonged Grief in the Wake of Disasters | 116 |
| Shira Maguen, Yuval Neria, Lauren M. Consolcenti, and Brett T. Litz |
| 8 What is Psychopathology after Disasters? Considerations about the Nature of the Psychological and Behavioral Consequences of Disasters | 131 |
| Robert J. Ursano, Carol S. Fullerton, and David M. Benedek |

### PART THREE: VULNERABILITY AND RESILIENCE

| 9 Resilience after Disaster | 145 |
| George A. Bonanno and Sumati Gupta |
| 10 Social and Cognitive Frameworks for Understanding the Mental Health Consequences of Disasters | 161 |
| Charles C. Benight, Roman Cieslak, and Edward Waldrep |
| 11 Distinctions that Matter: Received Social Support, Perceived Social Support, and Social Embeddedness after Disasters | 175 |
| Krzysztof Kaniasty and Fran H. Norris |
PART FOUR: SPECIAL GROUPS

12 Women and Disasters 203  
Rachel Kimerling, Katelyn P. Mack, and Jennifer Alvarez

13 Child Mental Health in the Aftermath of Disaster: 218  
A Review of PTSD Studies  
Christina W. Hoven, Cristiane S. Duarte, J. Blake Turner, and Donald J. Mandell

14 Disaster Mental Health in Older Adults: 233  
Symptoms, Policy, and Planning  
Joan M. Cook and Diane L. Elmore

15 The Effects of Disaster on the Mental Health of 264  
Individuals with Disabilities  
Laura M. Stough

16 Factors Associated with Exposure and Response to 277  
Disasters among Marginalized Populations  
Alesia O. Hawkins, Heidi M. Zinzow, Ananda B. Amstadter, Carla Knett Danielson, and Kenneth J. Ruggiero

17 Journalism and Media during Disasters 291  
Elana Newman, Bruce Shapiro, and Summer Nelson

18 Uniformed Rescue Workers Responding to Disaster 302  
Shannon E. McCaslin, Sabra S. Inslicht, Clare Hemp-Haase, Claude Chemtob, Thomas J. Metzler, Thomas C. Neylan, and Charles R. Marmar

PART FIVE: INTERVENTIONS AND HEALTH SERVICES

19 Mental Health Treatments in the Wake of Disaster 321  
Richard A. Bryant and Brett T. Litz

20 Evidence-Based Long-Term Treatment of Mental 336  
Health Consequences of Disasters among Adults  
JoAnn Difede and Judith Cukor

21 Mental Health Care for Children in the Wake of Disasters 350  
Jessica Mass Levitt, Kimberly Eaton Hoagwood, Lindsay Greene, James Rodriguez, and Marleen Radigan

22 Utilization of Mental Health Services after Disasters 366  
Jon D. Elhai and Julian D. Ford

PART SIX: CASE STUDIES

Natural Disasters 387

23 The Mental Health Impact of the Southeast Asia Tsunami 387  
Barbara Lopes Cardozo, Frits van Griensven, Warunee Thienkrupa, Benjaporn Panayayong, M. L. Somchae Chakkraband, and Prawate Tantipiwatanaskul

24 Advances in Our Understanding of Earthquake 396  
Trauma and Its Treatment: a Self-Help Model of Mental Health Care for Survivors  
Metin Başoğlu, Ebru Şalcıoğlu, and Maria Livanou
Contents

25 Hurricane Katrina 419
   Ronald C. Kessler, Sandro Galea, Michael J. Gruber,
   Nancy A. Sampson, Maria Petukhova, and Philip S. Wang

Technological Disasters 441
26 The Long-Term Mental Health Impacts
   of the Chernobyl Accident 441
   Evelyn J. Bromet and Johan M. Havenaar
27 The Exxon Valdez Oil Spill 454
   Lawrence A. Palinkas
28 Enschede Fireworks Disaster 473
   Peter G. van der Velden, C. Joris Yzermans, and Linda Grievink

Mass Violence 497
29 Eyewitness to Mass Murder: Findings from Studies of
   Four Multiple Shooting Episodes 497
   Carol S. North and Richard V. King
30 The Oklahoma City Bombing 508
   Betty Pfefferbaum, Phebe Tucker, and Carol S. North
31 The Terrorist Attacks of September 11, 2001, in New York City
   Charles DiMaggio and Paula Madrid
32 The Psychological Consequences of the London Bombings 538
   Neil Greenberg, G. James Rubin, and Simon Wessely
33 Psychological Responses to Terrorism in Israel: 2000–2004 558
   Arieh Y. Shalev and Yael L. E. Errera

PART SEVEN: QUESTIONS AND DIRECTIONS
34 Methodological Challenges in Studying the Mental Health
   Consequences of Disasters 579
   Sandro Galea and Andrea R. Maxwell
35 Disaster Mental Health Research: Current State,
   Gaps in Knowledge, and Future Directions 594
   Yuval Neria, Sandro Galea, and Fran H. Norris

Index 611