Contents

List of contributors page vii

Section 1 Early life trauma: impact on health and disease

Part 1 Childhood trauma: epidemiology and historical themes 3

1 The history of early life trauma and abuse from the 1850s to the current time: how the past influences the present 3
Martin J. Dorahy, Onno van der Hart and Warwick Middleton

2 The epidemiology of early childhood trauma 13
Karestan C. Koenen, Andrea L. Roberts, Deborah M. Stone and Erin C. Dunn

3 Historical themes in the study of recovered and false memories of trauma 25
Constance J. Dalenberg and Kelsey L. Paulson

4 Early trauma, later outcome: results from longitudinal studies and clinical observations 33
Nathan Szajnberg, Amit Goldenberg and Udi Harari

Part 1 synopsis 43
Alexander McFarlane

Part 2 The effects of life trauma: mental and physical health 48

5 Attachment dysregulation as hidden trauma in infancy: early stress, maternal buffering and psychiatric morbidity in young adulthood 48
Jean-François Bureau, Jodi Martin and Karlen Lyons-Ruth

6 Towards a developmental trauma disorder diagnosis for childhood interpersonal trauma 57
Bessel A. van der Kolk and Wendy d’Andrea

Part 2 synopsis 67

7 Complex adult sequelae of early life exposure to psychological trauma 69
Julian D. Ford

8 The relationship of adverse childhood experiences to adult medical disease, psychiatric disorders and sexual behavior: implications for healthcare 77
Vincent J. Felitti and Robert F. Anda

Part 2 synopsis 88
Alicia F. Lieberman

Section 2 Biological approaches to early life trauma

Part 3 The impact of early life trauma: psychobiological sequelae in children 95

9 Juvenile stress as an animal model of childhood trauma 95
Gal Richter-Levin and Shlomit Jacobson-Pick

10 Lateral asymmetries in infants’ regulatory and communicative gestures 103
Rosario Montirosso, Renato Borgatti and Ed Tronick

11 Neurobiology of childhood trauma and adversity 112
Martin H. Teicher, Keren Rabi, Yi-Shin Sheu, Sally B. Seraphin, Susan L. Andersen, Carl M. Anderson, Jeewook Choi and Akemi Tomoda

12 The neurobiology of child neglect 123
Michael D. De Bellis

13 Early life stress as a risk factor for disease in adulthood 133
Philip A. Fisher and Megan Gunnar

Part 3 synopsis 142
Allan N. Schore
## Part 4 The impact of childhood trauma: psychobiological sequelae in adults  148

### 14 Early life stress and psychiatric risk/resilience: the importance of a developmental neurobiological model in understanding gene by environment interactions  148

Kelly Skelton, Tamara Weiss and Bekh Bradley

### 15 The neuroendocrine effects of early life trauma  157

Jamie L. LaPrairie, Christine M. Heim and Charles B. Nemeroff

### 16 Long-lasting effects of childhood abuse on neurobiology  166

J. Douglas Bremner, Eric Vermetten and Ruth A. Lanius

### 17 Biological framework for traumatic dissociation related to early life trauma  178

Christian Schmahl, Ruth A. Lanius, Clare Pain and Eric Vermetten

### 18 Neurobiological factors underlying psychosocial moderators of childhood stress and trauma  189

Fatih Ozbay, Vansh Sharma, Joan Kaufman, Bruce McEwen, Dennis Charney and Steven Southwick

### Part 4 synopsis  200

Sonia J. Lupien

### Section 3 Clinical perspectives: assessment and treatment of trauma spectrum disorders

### Part 5 Assessment of the impact of early life trauma: clinical science and societal effects  207

John Briere and Monica Hodges

### 19 Assessing the effects of early and later childhood trauma in adults  207

John Briere and Monica Hodges

### 20 Memory and trauma: examining disruptions in implicit, explicit and autobiographical memory  217

Melody D. Combs and Anne P. DePrince

### 21 Scientific progress and methodological issues in the study of recovered and false memories of trauma  225

Constance J. Dalenberg and Oxana G. Palesh

### 22 The psychosocial consequences of organized violence on children  234

Felicia Heidenreich, Mónica Ruiz-Casares and Cécile Rousseau

### Part 5 synopsis  242

David Spiegel

### Part 6 Strategies to reduce the impact: clinical treatment  247

### 23 The role of mentalizing in treating attachment trauma  247

Jon G. Allen, Peter Fonagy and Anthony Bateman

### 24 Pragmatic approaches to stage-oriented treatment for early life trauma-related complex post-traumatic stress and dissociative disorders  257

Richard J. Loewenstein and Victor Welzant

### 25 Cognitive-behavioral treatments for post-traumatic stress disorder  268

Kathleen M. Chard and Amy F. Buckley

### 26 Emotions and emotion regulation in the process of trauma recovery: implications for the treatment of post-traumatic stress disorder  278

Anthony Charuvastra and Marylene Clotire

### 27 Psychodynamic psychotherapy: adaptations for the treatment of patients with chronic complex post-traumatic stress disorder  286

Clare Pain, Ruth A. Lanius, Pat Ogden and Eric Vermetten

### Part 6 synopsis  295

Tal Astrachan, Carla Bernardes and Judith Herman

### Epilogue  300

### Index  303

Color plates are situated between pages 108 and 109.