

Contents

List of Contributors viii

Foreword xi

Preface xiii

Section 1: Injuries

- 1 **Head Injury** 1
Demetrios Demetriades and Elizabeth R. Benjamin
- 2 **Facial Injury** 24
David Beversluis, Tamara Chambers, and Edward J. Newton
- 3 **Neck Injury** 42
Demetrios Demetriades and Lydia Lam
- 4 **Thoracic Injury** 70
Demetrios Demetriades and Peep Talving
- 5 **Abdominal Trauma** 102
Demetrios Demetriades and Kenji Inaba
- 6 **Musculoskeletal Injury** 136
Carl R. Chudnofsky and Edward J. Newton
- 7 **Spinal Injuries** 181
Mark J. Spoonamore and Demetrios Demetriades
- 8 **Burn Injuries** 210
Alexandra Lacey, Andrew Tang, Demetrios Demetriades, and Warren Garner
- 9 **Soft Tissue Injuries** 226
Demetrios Demetriades, Elizabeth R. Benjamin, and Marko Bukur
- 10 **Extremity Compartment Syndrome** 238
Elizabeth R. Benjamin and Demetrios Demetriades
- 11 **Ballistics** 247
Ramon Cestero, David Plurad, and Demetrios Demetriades
- 12 **Trauma in Pregnancy** 263
Alessandra Conforto and Elizabeth R. Benjamin
- 13 **Pediatric Trauma** 269
Priti Rawani-Patel and Demetrios Demetriades
- 14 **Geriatric Trauma** 277
Elizabeth R. Benjamin and Matthew Wiepking

- 15 **Disaster Medicine** 282
Joel Lombardi, Tiffany M. Abramson, and Edward J. Newton

Section 2: Procedures

- 16 **Central Venous Access** 295
Meghan Lewis and Andrea Austin
- 17 **Intraosseous Access Techniques** 304
Angelica Loza-Gomez and Aaron Strumwasser
- 18 **Cricothyroidotomy** 312
Morgan Schellenberg and Demetrios Demetriades
- 19 **Thoracostomy Tube Insertion** 320
Demetrios Demetriades and Elizabeth R. Benjamin
- 20 **Emergency Room Resuscitative Thoracotomy** 328
Demetrios Demetriades and Elizabeth R. Benjamin
- 21 **Resuscitative Endovascular Occlusion of the Aorta (REBOA)** 335
Elizabeth R. Benjamin and Kazuhide Matsushima
- 22 **Diagnostic Peritoneal Aspiration** 342
Demetrios Demetriades and Damon Clark
- 23 **Tourniquet Application for Extremity Bleeding Control** 345
Joelle Getrajdman and Kenji Inaba
- 24 **Splinting** 348
Carl R. Chudnofsky
- 25 **Ultrasound in Trauma** 358
Thomas Mailhot and Kazuhide Matsushima

Index 367