
Contents

Part I Before the Operating Room

1 Tactical Combat Casualty Care.....	3
Frank K. Butler Jr. and Russ S. Kotwal	
2 Combat Triage and Mass Casualty Management.....	17
Jayson D. Aydelotte, John J. Lammie, Joseph G. Kotora Jr., Jamie C. Riesberg, and Alec C. Beekley	
3 Initial Management Priorities: Beyond ABCDE.....	39
Daniel Grabo and Alec C. Beekley	
4 Damage Control Resuscitation	57
Jacob R. Peschman, Donald H. Jenkins, John B. Holcomb, and Timothy C. Nunez	
5 To Operate or Image? (Pulling the Trigger).....	77
Matthew J. Martin and James W. Davis	
6 Ultrasound in Combat Trauma	89
Michael D. Perreault, Jason D. Bothwell, and Benjamin Harrison	

Part II To the Operating Room

7 The Bowel: Contamination, Colostomies, and Combat Surgery.....	111
Robert B. Lim, Eric Keith Johnson, and Scott R. Steele	
8 Liver and Spleen Injury Management in Combat.....	131
Brian Eastridge, Lorne H. Blackbourne, Katherine M. McBride, and James R. Dunne	
9 Pancreatic and Duodenal Injuries (Don't Mess with the...).....	147
Matthew T. Hueman and Thomas M. Scalea	
10 Operative Management of Renal Injuries	169
Carlos V.R. Brown and Joseph M. Galante	

11 Major Abdominal Vascular Trauma	185
Niten Singh, David R. King, and David V. Feliciano	
12 To Close or Not to Close: Managing the Open Abdomen.....	203
Amy Vertrees, Craig D. Shriver, and Ali Salim	
13 Dismounted Complex Blast Injury Management	221
Travis M. Polk, Matthew J. Martin, and Matthew J. Eckert	
14 Thoracic Approaches and Incisions	239
Jeffrey A. Bailey, Philip S. Mullenix, and Jared L. Antevil	
15 Lung Injuries in Combat.....	261
Matthew J. Martin, Michael S. Meyer, and Riyad Karmy-Jones	
16 Diagnosis and Management of Penetrating Cardiac Injury	281
Daniel G. Cuadrado and Kenji Inaba	
17 Thoracic Vascular Injuries: Operative Management in “Enemy” Territory	297
Joseph J. DuBose, Timothy K. Williams, and Benjamin Starnes	
18 Chest Wall and Diaphragm Injury.....	313
Alec C. Beekley, Matthew D. Tadlock, and William B. Long	
19 Soft Tissue Wounds and Fasciotomies.....	329
Mark W. Bowyer, Peter Rhee, and Joseph J. DuBose	
20 Extremity Fractures and the Mangled Extremity.....	353
Brandon R. Horne, R. Judd Robins, and George Velmahos	
21 Traumatic Amputations.....	371
Eric G. Puttler, Stephen A. Parada, Brandon R. Horne, R. Judd Robins, and James C. Krieg	
22 Peripheral Vascular Injuries	385
Robert Jason Thomas Perry and Charles J. Fox	
23 The Neck	403
John S. Oh and Demetrios Demetriades	
24 Genitourinary Injuries (Excluding Kidney).....	423
Jack R. Walter and Andrew C. Peterson	
25 Neurosurgery for Dummies.....	441
Hans Bakken and Alex B. Valadka	
26 Traumatic Brain Injury and Neurocritical Care	459
Stacy Shackelford, Peter Rhee, and Bellal Joseph	
27 Spine Injuries	471
Matthew J. Martin, Ryan Gocke, and John G. DeVine	

28	Face and Head (Non-ocular) Injury	487
	Nici Eddy Bothwell	
29	Managing Eye Trauma in the Combat Environment	505
	Morohunranti O. Oguntoye and Robert A. Mazzoli	
30	Burn Care in the Deployed Setting.....	521
	Gary Vercruysse	
31	The Pediatric Patient in Wartime.....	543
	Lucas P. Neff, Philip C. Spinella, Kenneth S. Azarow, and Mubeen A. Jafri	

Part III Postoperative Principles and Miscellaneous Topics

32	The Combat Hospital ICU	565
	Kevin K. Chung and Matthew J. Eckert	
33	Postoperative Resuscitation	581
	Richard Nahouraii, Martin Schreiber, and Andrew C. Bernard	
34	TEG/ROTEM-Driven Resuscitation in Trauma	595
	Hunter B. Moore, Eduardo Gonzalez, and Ernest E. Moore	
35	Monitoring	611
	Jay A. Johannigman, Alec C. Beekley, and Timothy A. Pritts	
36	Ventilator Management: A Practical Approach to Respiratory Failure in Combat Casualties.....	631
	Anita A. Shah, Paul B. Kettle, and Alexander S. Niven	
37	Practical Approach to Combat-Related Infections and Antibiotics.....	647
	Heather C. Yun and Clinton K. Murray	
38	Patient Transfer, En Route Care, and Critical Care Air Transport Team (CCATT)	659
	Raymond Fang	
39	The Homefront: Role 4 and 5 Care	677
	Warren C. Dorlac and Carlos J. Rodriguez	
40	Active Shooter and Intentional Mass Casualty Events.....	699
	Alexander L. Eastman and Matthew L. Davis	
41	Tactical Emergency Casualty Care (TECC): Principles and Practice	711
	Geoff Shapiro, Babak Sarani, and E. Reed Smith	
42	Humanitarian and Local National Care	727
	Matthew J. Eckert, James Sebesta, and Sherry M. Wren	

43	Expectant and End-of-Life Care in a Combat Zone.....	749
	Robert M. Rush, Matthew J. Martin, and Christine S. Cocanour	
44	Trauma System Development and the Joint Trauma System.....	761
	Kirby R. Gross, Brian Eastridge, Jeffrey A. Bailey, and M. Margaret Knudson	
45	The Next Generation of Hemorrhage Therapy.....	775
	Vahagn C. Nikolian and Hasan B. Alam	
46	Resident Readiness and Training the Surgeon for Battlefield Care	787
	Jennifer M. Gurney, Daniel W. Nelson, and C. William Schwab	
47	The Deployed Advanced Care Provider.....	807
	Zaradhe M.S. Yach, Jonathan R. Van Horn, Matthew J. Eckert, and Matthew J. Martin	
48	Military-Civilian Collaboration for National Preparedness During Peace and War.....	823
	Kyle N. Remick, Eric Elster, and Raquel C. Bono	
49	Battlefield Resuscitation of the Future.....	841
	Matthew J. Martin, Hasan B. Alam, Jeremy G. Perkins, and Todd E. Rasmussen	
50	Non-Conventional Forward Surgical Elements	855
	Matthew J. Eckert, Matthew J. Martin, and Steven A. Satterly	
	Appendix A Improvise, Adapt, Overcome: Field Expedient Methods in a Forward Environment.....	869
	Appendix B Burn Charts and Orders.....	877
	Appendix C Resources, References, and Readiness.....	885
	Appendix D CBRNE Primer for Surgeons	889
	Suggested Reading	891
	Index.....	893

<http://www.springer.com/978-3-319-56779-2>

Front Line Surgery

A Practical Approach

Martin, MD, FACS, M.J.; Beekley, MD, FACS, A.C.; Eckert,
M.J. (Eds.)

2017, XXXVI, 909 p. 381 illus., 264 illus. in color.,

Softcover

ISBN: 978-3-319-56779-2