
Contents

Foreword	VII
Frank J. Veith	
Preface	IX
Germano Melissano, Roberto Chiesa	
Endorsment Marfan Foundation	XI
Endorsment VASCern	XIII
1. Thoughts of an aortic dissection “survivor”	5
Timo Söderlund	
2. An introduction to Type B aortic dissection	11
Germano Melissano	
3. The true stories of Type B aortic dissection	23
Edited by Daniele Mascia, Alessandro Grandi	
4. The clinical presentation of Type B aortic dissection	35
Germano Melissano, Daniele Mascia, Alessandro Grandi, Renata C. Castellano	
5. Introduction, true stories and clinical presentation of Type A aortic dissection	39
Martin Czerny, Bartosz Rylski	
6. Clinical and molecular genetics of thoracic aortic aneurysm and dissection	49
John A. Elefteriades, Adam J. Brownstein, Bulat A. Ziganshin	
7. DISSECT: a new nomenclature to help facilitate the assessment of aortic dissection in the endovascular era	81
Michael D. Dake, Benedetta Enrico	
8. The European Reference Network in the field of the vascular rare diseases	89
Alessandro Pini, Gabriella Tognola, Alessia Paglialonga, Marine Hurard, Raffaella Gaetano, Guillaume Jondeau	
9. Pharmacological treatment of aortic dissection	99
Arturo Evangelista, Jose F. Rodriguez-Palomares	
10. Aortic dissection in pregnancy	109
James H. Black, III, Bryan A. Ehlert	
11. Surgical treatment of acute Type A aortic dissection: Houston experience	117
Joseph S. Coselli, Ourania Preventza, Alfred S. Song, Kim I. de la Cruz	

12. Open surgical management of patients undergoing operation for Type A aortic dissection: Moscow experience	129
Leo A. Bockeria, Vladimir A. Mironenko, Sergey V. Rychin	
13. Acute aortic dissection in patients with bicuspid aortic valve	147
Christian D. Etz, Josephina Haunschmid	
14. When and how to replace the aortic arch for Type A dissection	159
Roberto Di Bartolomeo, Alessandro Leone, Luca Di Marco, Davide Pacini	
15. Treatment options for aortic arch dissecting aneurysm in patients with previous surgery for acute Type A aortic dissection	167
Anthony L. Estrera, Akiko Tanaka	
16. Endovascular treatment of residual arch dissection after open repair of Type A aortic dissection	179
Marcelo Ferreira, Eduardo Rodrigues, Diego Ferreira, Rodrigo Cunha, Guilherme Bicalho	
17. Aortic intramural hematoma and penetrating atherosclerotic ulcer	193
Worawong Srisatkorn, Wanchai Wongkornrat, Teerawoot Jantarawan	
18. Type B aortic dissection complicated by visceral ischemia	205
Santi Trimarchi, Hector W.L. de Beaufort, Arnoud V. Kamman	
19. Post-dissection and degenerative thoracoabdominal aortic aneurysms	213
Michael J.H.M. Jacobs, Barend Mees, Noud Peppelenbosch, Geert Willem Schurink	
20. Dissection true stories; options for the management of non-A, non-B Type aortic dissection	219
Nicholas J.W. Cheshire, Ulrich P. Rosendahl	
21. When TEVAR fails: secondary interventions and direct false lumen adjuncts	225
Joseph V. Lombardi, Marissa Famularo	
22. Evolution in endovascular treatment of Type B aortic dissection	231
Ali Azizzadeh, Wande B. Pratt, Anthony L. Estrera, Hazim J. Safi	
23. The PETTICOAT concept for endovascular treatment of Type B aortic dissection	241
Luca Bertoglio, Germano Melissano, Enrico Rinaldi, Andrea L. Kahlberg Sthefano Atique Gabriel, Roberto Chiesa	
24. The STABILISE concept of eliminating dissection and obtaining a uniluminal aorta	253
Peter J. Mossop	
25. Treatment option for chronic Type B aortic dissection	263
Eric L.G. Verhoeven, Athanasios Katsargyris, Kyriakos Oikonomou, Hozan Mufty, George Kouvelos	
26. Maintaining durability following TEVAR for chronic Type B aortic dissection	271
Matt Thompson, Benjamin O. Patterson	

27. Planning endovascular repair of chronic aortic dissections with fenestrated and branched endografts	277
Gustavo S. Oderich, Mauricio S. Ribeiro, Giuliano de A. Sandri	
28. Chronic aortic dissection: how to deal with the false lumen in chronic aortic dissection	297
Tilo Kölbel, Fiona Rohlfss	
29. False lumen embolization in aortic dissection	305
Tara M. Mastracci	
30. Distal stent graft-induced new entry	313
Chun-Che Shih, Hung-Lung Hsu	
31. Open surgical treatment of chronic Type B aortic dissection (dissecting aneurysms)	321
Roberto Chiesa, Germano Melissano, Andrea L. Kahlberg, Enrico Rinaldi, Sara Spelta, Alessandro Grandi, Domenico Baccellieri	
32. Use of deep hypothermic circulatory arrest for Type B dissecting aneurysm	339
Laurent Chiche, Thibault Couture, Philippe Tresson, Julien Gaudric, Fabien Koskas, Edouard Kieffer [†]	
33. Hybrid treatment of aortic dissection with or without endograft false lumen intentional placement	349
William J. Quinones-Baldrich, Taimur Saleem	
34. The sandwich technique in Type B aortic dissection	357
Armando C. Lobato, Luciana Camacho-Lobato	
35. Spinal cord vascularization	365
Germano Melissano, Roberto Chiesa, Christian Etz, Randall B. Griep	
36. Anesthetic management of patients undergoing operation for Type A aortic dissection	379
George Silvay, John G. Augoustides	
37. Anesthetic management of patients undergoing open or endovascular procedures for Type B aortic dissection	399
Monica De Luca, Fabrizio Monaco, Salvatore Sardo, Marina Pieri, Silvio Magrin, Alberto Zangrillo	
38. Intravascular ultrasound is essential for the endovascular management of aortic dissection	411
Benjamin W. Starnes	
39. Transesophageal echocardiography in the management of patients undergoing procedures for Type B aortic dissection	417
Fabrizio Monaco, Monica De Luca, Salvatore Sardo, Guglielmo Cornero, Cristina Mattioli, Alberto Zangrillo	
40. Experimental and clinical evidence supporting septectomy in the primary treatment of acute Type B thoracic aortic dissection	433
Juan Carlos Parodi, Ramon Berguer	