

Contents

Part I State of the Art

1	Radio-Anatomy of the Thoracic Aorta. 3D Imaging of the Aorta (CT, MRI and 3D Rotational Angiography)	3
	J. C. van den Berg	
2	Embryology and Congenital Abnormalities of the Aorta	21
	J. P. Guibaud, X. Roques	
3	Hemodynamics of Aortic Dissection	27
	C. Elkins, M. D. Dake	
4	Transesophageal Echocardiography for Diagnosis and Treatment of Aortic Diseases	33
	P. Massabau	
5	Biomarkers in Acute Aortic Syndrome . . .	55
	G. Pepe, B. Giusti, M. C. Porciani, M. Yacoub	
6	Medical Aspect of the Aortic Diseases: the Follow-Up and its Warnings	71
	G. Jondeau, G. Delorme, O. Milleron, J. Wilson	
7	Spinal Cord Protection for Descending Aortic Surgery. Clinical and Scientific Basis for Contemporary Surgical Practice	81
	A. Anyanwu, D. Spielvogel, R. Griep	

Part II Anaesthesia for Aortic Surgery

8	Deep Hypothermia and Circulatory Arrest	101
	P. J. A. van der Starre	
9	Anaesthetic Management of the Endovascular Thoracic Aorta	109
	G. Meites, M. Sellin	

Part III Treatment of Thoracic Degenerative Aortic Aneurysms

10	Surgical Treatment	115
	H.-J. Schäfers	
11	The New Wave of Elephant Trunk Technique	125
	M. Karck, N. Khaladj	
12	Management of the Horizontal Aorta with the Inoue Branched Stent-Graft	133
	K. Inoue, H. Hosokawa, K. Abe, T. Kimura	
13	Distal Aortic Perfusion and Selective Visceral Perfusion	141
	C. C. Miller, A. L. Estrera, T. T. T. Huynh, E. E. Porat, H. J. Safi	
14	Femoral Bypass and Hypothermia for the Treatment of Thoracoabdominal Aneurysms	153
	R. S. Mitchell	
15	Branched Stent-Graft Systems and Less Invasive Combined Surgical and Endovascular Treatment for Descending Thoracic Aortic Aneurysms	157
	K. Ivancev, B. Koul	

Part IV Dissection

- 16 Pathophysiology of Aortic Dissection . . . 165
A. Evangelista, T. González-Alujas
- 17 Surgical Treatment of Acute Type
B Dissection 175
M. Schepens, K. Dossche
- 18 Surgical Treatment of Chronic Descending
Aortic Dissection 181
M.J. Jacobs
- 19 Endovascular Therapy
for Aortic Dissection 189
D.S. Wang, M.D. Dake
- 20 The Use of Endografts to Treat Chronic
Descending Thoracic Aortic Dissections . . 199
N. Kato, T. Shimiono, T. Hirano
- 21 Problems Encountered During
and After Stent-Graft Treatment
of Aortic Dissection 209
J.Y. Won, D.Y. Lee
- 22 Medical Treatment or Endovascular
Stent-Graft Treatment for Acute Aortic
Syndrome 223
C.A. Nienaber
- 23 Physiopathology of Ischemic Complications
of Aortic Dissections 239
D.M. Williams, B. Peynircioglu
- 24 Endovascular Treatment of the
Complications of Aortic Dissection:
Fenestration and Stenting 247
J.P. Beregi, P. Asseman, A. Prat, F. Thony,
V. Gaxotte, C. Lions, Z. Negaiwi,
S. Willoteaux

Part V Infections

- 25 Thoracic Infectious Aortitis 255
M. Revest, P. Jégo
- 26 Is There a Place for Endovascular
Treatment in Thoracic or Thoraco-
abdominal Mycotic Aneurysms? 267
L. Labrousse, O. Pellerin, D. Carmi,
M. Sapoval

Part VI Aortic Hematoma and Ulcers

- 27 Intramural Aortic Hematoma and Aortic
Ulcers, Physiopathology and Natural
History 277
I. Vilacosta, J. Ferreirós, A. Bustos,
J.A. San Román, P. Aragoncillo
- 28 The Current Optimal Imaging Modality
for Evaluating Acute Aortic Syndromes . . 289
F. Thony, P. Otal, L. Boyer
- 29 Management of Aortic Hematomas
and Ulcers: Evaluation Scoring 297
J.-F. Heautot, V.T. Dinh, B. de Latour,
J.-P. Verhoye
- 30 Endograft Management of Aortic
Hematomas and Ulcers 301
D.M. Williams, B. Peynircioglu

Part VII Aortic Injury

- 31 Traumatic Aortic Rupture 311
R. Fattori, D. Pacini
- 32 Surgical Treatment of an Acute Isthmus
Traumatic Rupture 319
T. Langanay, B. de Latour, A. Leguerrier
- 33 Acute Traumatic Aortic Rupture:
Stent-Graft Repair 331
H. Rousseau, J.P. Bolduc, C. Dambrin,
B. Marcheix, G. Canevet, B. Leobon,
C. Cron, P. Otal, J.M. Bartoli, G. Fournial
- 34 Surgical Treatment and Endovascular
Issue in the Traumatic Rupture
of the Descending Aorta 341
P. Leprince, P. Cluzel, A. Pavie
- 35 Classification and Decision Algorithm
of Posttraumatic Chronic Lesions
of the Isthmus and the Descending
Thoracic Aorta 345
P. Verhoye, B. de Latour, C. Kakon,
J.-F. Heautot

Part VIII
Congenital Diseases of the Thoracic Aorta

- 36 Neonatal and Early Childhood Thoracic
Aorta Abnormalities and Their Current
Surgical Treatment 353
F.G. Lacour-Gayet, J.H. Artrip
- 37 Endovascular Treatment Strategies
for Coarctation of the Aorta 363
J.F. LaDisa, C.A. Taylor, J.A. Feinstein
- 38 Current Multicentric Studies and Those
to Plan for the Descending Thoracic
Aortic Diseases 377
H. Rousseau, J.P. Bolduc, F. Joffre

Part IX
Conclusions

- 39 Ten Years to Come 381
P. Verhoye, F. Heautot, A. Leguerrier
- Subject Index 385

Thoracic Aortic Diseases

Rousseau, H.; Verhoye, J.-P.; Heautot, J.-F. (Eds.)

2006, XVII, 387 p., Hardcover

ISBN: 978-3-540-25734-9