

Contents

Preface	V
Acknowledgments	VI
Glossary.....	VI
Abbreviations	VII
1 General	1
Clinical Presentation of Peripheral Arterial Occlusive Disease	1
Consultation with the Patient.....	4
Preparing the Patient	5
Radiation Protection	6
2 Material	7
Size Specifications for Cannulas, Guidewires, Catheters, and Sheaths	7
Cannulas	7
Guidewires	8
Sheaths.....	13
Angiography Catheters.....	16
Balloon Catheters.....	27
Stents.....	30
Contrast Agents.....	35
Medications	39
3 Methods	42
Retrograde Catheterization of the Common Femoral Artery.....	42
Antegrade Catheterization of the Common Femoral Artery.....	51
Crossover Catheterization.....	60
Access via the Brachial Artery	65
Venous Access.....	78
Angiography.....	80
Measuring Vessel Diameter	91
Percutaneous Transluminal Angioplasty.....	92
Stent Placement.....	93
Local Thrombolysis.....	97
Aspiration of Thrombus	105
Subintimal Recanalization.....	109
Atherectomy.....	111
Excimer Laser	112
Embolization.....	112
Extracting Foreign Bodies and Pull-Through Technique	117

4	Abdomen	121
	Renal Arteries.....	121
	Risks and Complications	122
	Abdominal Aorta and Bifurcation.....	139
	Iliac Arteries.....	147
5	Lower Extremities	159
	Common Femoral Artery.....	159
	Superficial Femoral Artery	159
	Deep Femoral Artery.....	177
	Peculiarities of the External Iliac Artery	153
	Aneurysms of the Iliac Arteries	156
	Combination with a Surgical Intervention.....	158
6	Upper Extremities	192
	Stenosis or Occlusion of the Left Subclavian Artery.....	192
	Dialysis Shunt.....	194
	Superior Vena Cava Syndrome.....	200
7	Other Endovascular Interventions	203
	Carotid Stents.....	203
	Endovascular Aortic Prostheses.....	204
	Arteriovenous Malformations.....	206
	Intestinal Bleeding.....	207
	Embolization of Solid Organs.....	208
	Transjugular Intrahepatic Portosystemic Shunt	209
	Inferior Vena Cava Filter	210
	Port Implantation	211
8	Complications	213
	Complications at the Arterial Access Site	213
	Complications at the Angioplasty Site	215
	Systemic Reactions	215
9	Recurrent Stenosis	217
	Pathogenesis	217
	Prophylaxis against Recurrence	217
10	Documentation and Postprocessing	219
	Index.....	221