

Contents

1 Historical Perspective	1
José G. Merino and Vladimir Hachinski	
2 Neurovascular Geography and Mapping the Consequences of Its Injury	7
Ronald M. Lazar and Joanne R. Festa	
3 Ischemic and Intracerebral Hemorrhagic Stroke	19
Howard Kirshner and Victor Mark	
4 Cerebral Aneurysms and Subarachnoid Hemorrhage	49
John DeLuca and Charles J. Prestigiacomo	
5 Neuropsychological Effects of Brain Arteriovenous Malformations	59
Emily R. Lantz and Ronald M. Lazar	
6 Vascular Cognitive Impairment	75
David J. Libon, Catherine C. Price, Rodney A. Swenson, Dana Penney, Bret Haake, and Alfio Pennisi	
7 Vascular Dementia	87
Joel H. Kramer and Margaret E. Wetzel	
8 Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy (CADASIL) and Mitochondrial Encephalomyopathy Lactic Acidosis and Stroke-like Episodes (MELAS)	103
Sarah Benisty and Hugues Chabriat	
9 Carotid Artery Occlusion and Stenosis	115
Mohamad Chmayssani and Joanne Festa	
10 Cardiac Arrest	135
Chun Lim and Michael Alexander	
11 Congestive Heart Failure/Heart Transplant	151
Giuseppe Zuccalà, Giuseppe Colloca, and Matteo Tosato	

12	Cognition After Cardiac Surgery	163
	Ola A. Selnes and Rebecca F. Gottesman	
13	Pulmonary Disease and Lung Transplantation	177
	Donna K. Broshek, George W. Shaver, and Mark D. Robbins	
14	Diabetes and Hypertension	191
	Lenore J. Launer and Clinton Wright	
15	Neurovascular Consequences of Systemic Disease – Collagen Vascular Disease	203
	Stephen L. Holliday and Robin L. Brey	
16	Neurovascular Disease and Mood Disorders	221
	Maree L. Hackett and Craig S. Anderson	
17	Functional Imaging in Stroke Recovery	245
	R.S. Marshall	
18	Pharmacological Treatment for Cognitive Disorders of Neurovascular Origin	255
	Steven Flanagan and Wayne A. Gordon	
19	Neuropsychological Rehabilitation	281
	Gail A. Eskes and Anna M. Barrett	
	Index	307