

Contents

List of Contributors ix

Preface xvii

1 Inflammatory Conditions

- 1.1 **Isolated Vasculitis of the Central Nervous System** 1
Bora Korkmazer, Osman Kızılıkılıç
- 1.2 **Primary Systemic Vasculitis** 10
 - 1.2.a.1 **Giant Cell Vasculitis:**
Temporal Arteritis 10
Hrvoje Budinčević, Marija Sedlić, Marina Ikić Matijašević, Vedran Ostojić
 - 1.2.a.2 **Giant Cell Vasculitis:**
Takayasu Arteritis 17
Marialuisa Zedde, Rosario Pascarella
 - 1.2.b.1 **Necrotizing Vasculitis:**
Polyarteritis Nodosa (PAN) 24
Sezgin Sahin, Fatih Haslak, Kenan Barut, Ozgur Kasapcopur
 - 1.2.b.2 **Necrotizing Vasculitis:**
Churg–Strauss Syndrome (Eosinophilic Granulomatosis with Polyangiitis) and Stroke 28
Klearchos Psychogios
 - 1.2.c.1 **Granulomatous Vasculitis:**
Wegener Granulomatosis 34
Amra Adrovic, Mehmet Yıldız, Ayten Aliyeva, Ozgur Kasapcopur
 - 1.2.c.2 **Granulomatous Vasculitis:**
Lymphomatoid Granulomatosis 40

Phillip Ferdinand, Christine Roffe

- 1.2.d.1 **Vasculitis with Prominent Eye Movement: Susac Syndrome** 45
Bengi Gül Türk, Sabahattin Saip
- 1.2.d.2 **Vasculitis with Prominent Eye Movement: Vogt–Koyanagi–Harada Disease** 50
Cheryl Carcel
- 1.2.d.3 **Vasculitis with Prominent Eye Movement: Eales Disease** 54
Sabrina Anticoli, Francesco Motolese
- 1.2.d.4 **Vasculitis with Prominent Eye Movement: Cogan Disease** 60
Nikoloz Tsiskaridze, Alexander Tsiskaridze

1.3 Vasculitis Secondary to Systemic Disease

- 1.3.a **Systemic Lupus Erythematosus** 66
Vildan Yayla, Hacı Ali Erdoğan, İbrahim Acır
- 1.3.b **Behcet's Disease** 72
Uğur Uygunoğlu, Aksel Siva
- 1.3.c **Sjögren Syndrome** 79
Marilena Mangiardi, Sabrina Anticoli
- 1.3.d **Sarcoidosis** 85
Dilcan Kotan, Aslı Aksoy Gündoğdu

- 1.3.e **Inflammatory Bowel Disease** 92
Gökhan Kabaçam,
Merhmet Arhan, Murat
Törüner
- 1.3.f **Cerebral Amyloid Angiopathy-Related Inflammation** 99
Marialuisa Zedde, Rosario
Pascarella, Jacopo C. De
Francesco, Fabrizio
Piazza

2 Infectious and Postinfectious Vasculitis

- 2.1 **Meningovascular Syphilis** 107
Thierry Adoukonou
- 2.2 **Neuroborreliosis** 112
Zeljko Zivanovic, Nikola Boban,
Vladimir Galic
- 2.3 **Tuberculosis Meningitis** 119
Yared Z. Zewde, Seda Tadesse
- 2.4 **Bacterial Meningitis** 125
Marilena Mangiardi, Eytan Raz
- 2.5 **Neurocysticercosis** 132
Maria Cristina Bravi,
Alfano Guido
- 2.6 **Varicella-Zoster Virus-Related: Cytomegalovirus (CMV) and Herpes Infections** 137
Asma Akbar Ladak, Mohammad
Wasay
- 2.7 **HIV Infection** 141
Massimo Leone, Darlington Thole,
Fausto Ciccarelli, Maria Cristina
Marazzi
- 2.8 **Chagas Disease** 147
Vinícius Viana Abreu
Montanaro

3 Hypercoagulable Causes of Stroke

- 3.1 **Antiphospholipid Antibody Syndrome** 151
Luana Gentile, Danilo Toni
- 3.2 **Hyperhomocysteinemia** 157
Maria Cristina Bravi, Sabrina
Anticoli
- 3.3 **Hyperviscosity Syndrome** 162
Francesca Romana Pezzella, Kateryna
Antonenko, Larysa Sokolova
- 3.4 **Disseminated Intravascular Coagulation and Moschkowitz Syndrome** 168
Kateryna Antonenko, Valeria Caso,
Andrea Blass, Andrea Fiacca
- 3.5 **Immunoglobulin A Vasculitis (Henoch Schönlein Purpura)** 174
Sarah M. Heldner, Barbara Goeggel
Simonetti, Mirjam R. Heldner
- 3.6 **Stroke Associated With Cancer** 179
Christine Kremer, Olof Gråhamn

4 Drug-Related Stroke

- 4.1 **Medication-Related Stroke** 185
Francesca Romana Pezzella, Sabrina
Anticoli, Antonella Urso
- 4.2 **Illicit-Drug-Related Stroke** 190
Francesca Romana Pezzella, Marilena
Mangiardi

5 Hereditary and Genetic Causes of Stroke

- 5.1 **Genetic Collagen Disorders** 199
 - 5.1.a **Ehlers–Danlos Syndrome** 199
Pietro Caliandro, Giuseppe
Reale, Aurelia Zauli

5.1.b Marfan Syndrome 206 Turgay Demir, Filiz Koç	5.3.d Tangier Disease 267 Fatih Süheyl Ezgü
5.1.c Fibromuscular Dysplasia 212 Otgonbayar Luvsannorov, Baigali Gongor	5.3.e Organic Acid Disorders 271 Cristina Tiu, Vlad Eugen Tiu, Elena Oana Terecoasă
5.1.d Neurofibromatosis Type 1 220 Zuhal Yapıcı, Çağla Turan, Oğuzhan Obuz	6 Rare Causes of Cardioembolism
5.1.e Hereditary Hemorrhagic Telangiectasia 228 Paola Santalucia, Mariangela Piano	6.1 Paradoxical Embolism: Patent Foramen Ovale 281 Hrvoje Budinčević, Petra Črnac Žuna, Edvard Galić, Vida Demarin
5.2 Genetic Small-Vessel Diseases 234	6.2 Infective Endocarditis 287 Filipa Dourado Sotero, Diana Aguiar de Sousa
5.2.a Cerebral Autosomal Dominant (Recessive) Arteriopathy with Subcortical Infarcts and Leukoencephalopathy: CADASIL and CARASIL 234 Yasemin Akıncı, Adnan I. Qureshi	7 Vasospastic Conditions and Other Vasculopathies
5.2.b Retinal Vasculopathy with Cerebral Leukoencephalopathy and Systemic Manifestations (RVCL-S) 240 Janika Körv	7.1 Reversible Cerebral Vasoconstriction Syndrome 293 Dejana R. Jovanović, Predrag Stanarčević
5.3 Genetic Metabolic Diseases 246	7.2 Eclampsia and Strokes during Pregnancy and Postpartum 299 Dejana R. Jovanović
5.3.a Fabry Disease 246 Natan M. Bornstein, Yasemin Akıncı, Derya Uludüz	7.3 Migraines and Migraine-Like Conditions 305 Yagmur Turkoglu Comert, Peter J. Goadsby
5.3.b Mitochondrial Diseases 253 Füsun Ferda Erdoğan, Duygu Kurt Gök, Halil Dönmez, İzzet Ökçesiz	8 Other Non-inflammatory Vasculopathies
5.3.c Menkes Disease 262 Linda Azevedo Kauppila, Mariana Fonseca, Ana Catarina Fonseca	8.1 Moyamoya Disease 309 Bojana Žvan, Marjan Zaletel
	8.2 Cerebral Amyloid Angiopathy 314 Matija Zupan

- 8.3 **Dolichoectasia and Fusiform Aneurysms** 321
Jernej Avsenik, Bojana Žvan
- 8.4 **Carotid Artery Dissection** 326
Füsun Mayda Domaç, Mustafa Ülker
- 9 Venous Occlusive Conditions**
- 9.1 **Cerebral Venous Sinus Thrombosis** 331
Taşkın Duman, Derya Uludüz

- 10 Bone Disorders and Stroke**
- 10.1 **Bone Disorders** 336
Milija Mijajlovic, Vuk Aleksic, Natasa Stojanovski, Natan M. Bornstein
- 10.2 **Eagle Syndrome** 343
Anita Arsovská, Vida Demarin, Patrik Michel

Index 349