

Contents

Part I Introducing Chapters

Historical Background of Vascular Imaging	3
Anthony W. Stanson	
Current Classifications	7
Thara Larbi, Saloua Hamzaoui, Maya Abdallah, Mourad Ennafaa, Ali Harmel, Kamel Bouslama, Lotfi Hendaoui, and Skander M'rad	
Systemic Vasculitis: Anatomy and Histopathology	15
Ahlem Lahmar, Sabeh Mzabi-Regaya, Samir Boubaker, Nidhameddine Kchir, and Lotfi Hendaoui	
Immunological Aspects of Systemic Vasculitis	25
Melika Ben Ahmed and Hechmi Louzir	
Medical Imaging Investigation of Vasculitis	43
M. Habib Bouhaouala, Lotfi Hendaoui, Antony W. Stanson, and Francis Joffre	
Evaluation of Carotid Atherosclerosis and Inflammation by Contrast Enhanced Ultrasound	51
Joseph Shalhoub, David R. J. Owen, and Edward L. S. Leen	

Part II Vasculitis Involving Predominantly Large Vessels

Giant Cell Arteritis	63
Chad J. Fleming, Kenneth J. Warrington, James Glockner, Dylan V. Miller, Jeremy L. Friese, and Anthony W. Stanson	
Imaging Features of Takayasu Disease	93
Lotfi Hendaoui, Anis Askri, Maya Abdallah, Leila Charrada-Ben Farhat, A. Mourad Souissi, Skander Mrad, M. Habib Bouhaouala, and Anthony W. Stanson	
Cogan's Syndrome	123
Eric L. Matteson and Anthony W. Stanson	

Imaging Features of Behçet's Disease	137
Lotfi Hendaoui, Leila Charrada-Ben Farhat, M. Habib Bouhaouala, Saloua Hamzaoui, Nadida Dali, Anis Askri, Anissa Miaoui, Mondher Golli, Randa Salem, Rachid Mechmèche, Kaouthar Saadallaoui-Ben Hamida, and Skander Mrad	
Chronic Periaortitis (CP)	175
Nicolò Pipitone, Augusto Vaglio, Carlo Salvarani, and Anthony W. Stanson	
 Part III Vasculitis Involving Predominantly Medium Vessels	
Polyarteritis Nodosa (PAN)	189
Jeremy L. Friese, Kenneth J. Warrington, Dylan V. Miller, Steven R. Ytterberg, Chad J. Fleming, and Anthony W. Stanson	
Thromboangiitis Obliterans or Buerger's Disease	209
Alessandra Bura, Julien Auriol, Hervé Rousseau, and Francis Joffre	
Imaging of Kawasaki Disease	221
Anis Askri, Lotfi Hendaoui, Rachid Mechmeche, Nadia Siala, Sami Mourali, and Ahmed Maherzi	
Primary Central Nervous System Angiitis	229
M. Habib Bouhaouala, Olivier Naggara, Dorra Ghorbel, Akil Mestiri, J. François Meder, and Lotfi Hendaoui	
Mesenteric Inflammatory Veno-Occlusive Disease (MIVOD)	253
Julien Auriol, Lotfi Hendaoui, Anis Askri, and Francis Joffre	
 Part IV Vasculitis Involving Predominantly Small Vessels	
Imaging Features of Granulomatosis with Polyangiitis (Wegener's)	259
Stéphane Silvera, Estelle Palangié, Loïc Guillevin, Lotfi Hendaoui, and Paul Legmann	
Henoch-Schönlein Purpura	279
Leila Charrada-Ben Farhat, Lotfi Hendaoui, Anis Askri, Nadida Dali, Ali Harmel, and M. Habib Bouhaouala	
Churg-Strauss Syndrome	285
M. Habib Bouhaouala, Kamel Bouslama, Mehdi Charfi, Nadia Mhiri, M. Habib Ben Romdhane, Majed El Beji, and Lotfi Hendaoui	
Goodpasture's Disease	301
Tarek A. El-Diasty and Mohamed E. Abou El-Ghar	

Microscopic Polyangiitis	307
Yeon Joo Jeong, Man Pyo Chung, and Kyung Soo Lee	
 Part V Secondary Vasculitis	
Vasculitis Associated with Connective Tissue Disease	315
Nadia Mama-Larbi, Kalthoum Tlili-Graïess, Anis Askri, Ahmed Laatar, Amira Manamani, Leith Zakraoui, and Lotfi Hendaoui	
Vasculitis Associated with Infection, Malignant Tumors, Drugs, and Other Factors	327
Yeon Joo Jeong, Man Pyo Chung, and Kyung Soo Lee	
 Part VI Vasculitis in Children	
Classification of Childhood Vasculitis	341
Kalthoum Tlili-Graïess, Nadia Mama-Larbi, and Lotfi Hendaoui	
Common Childhood Vasculitis	347
Kalthoum Tlili-Graïess, Nadia Mama-Larbi, Sawssen Abroug, and Lotfi Hendaoui	
Central Nervous System Vasculitis in Children	383
Kalthoum Tlili-Graïess, Nadia Mama-Larbi, Nadine Girard, and Charles Raybaud	
 Part VII Vasculitis by Organ Systems	
Nervous System Vasculitis	415
M. Habib Bouhaouala, Mehdi Charfi, Wassim Saïd, Slim El Fourti, and Lotfi Hendaoui	
Cardiovascular System Vasculitis	425
M. Habib Bouhaouala, Dorra Ghorbel, Akil Mestiri, and Lotfi Hendaoui	
Respiratory Tract Vasculitis	435
M. Habib Bouhaouala, Ridha Charfi, Meher Abouda, Nadia Mehiri, Béchir Louzir, and Lotfi Hendaoui	
Digestive System Vasculitis	443
M. Habib Bouhaouala, Dorra Ghorbel, M. Hédi Doggui, and Lotfi Hendaoui	
Imaging of Renal Vasculitis	453
Olivier Hélénon, Dan Bensimhon, and Jean Michel Correas	
Oto-Rhino-Laryngologic System Vasculitis	459
M. Habib Bouhaouala, M. Slim El Fourti, Nadida Dali, and Lotfi Hendaoui	

Ophthalmic Vasculitis	465
M. Habib Bouhaouala, Lamia El Fekih, Mehdi Charfi, and Lotfi Hendaoui	
Musculoskeletal System Vasculitis	473
M. Habib Bouhaouala, Kaouthar Ben Hamida, Ahmed Laater, Hanène Kédadi, and Lotfi Hendaoui	
 Part VIII Auto Evaluation	
Self-Assessment Questions (Test)	479
Anthony W. Stanson, M. Habib Bouhaouala, Paul Legmann, and Lotfi Hendaoui	
Clinical Cases	485
Lotfi Hendaoui, M. Habib Bouhaouala, Anis Askri, Jean-François Paul, Paul Legmann, Amira Manamani, Leila Charrada-Ben Farhat, Francis Joffre, and Anthony W. Stanson	
Index	493