

Special Issue

Mechanism, Diagnosis, and Treatment of Aortic Diseases: 2nd Edition

Message from the Guest Editor

Many diseases can occur in the aorta. Examples of such diseases are aneurysms, dissections, stenoses/occlusions and aortitis. Each disease has its own pathomechanism, predisposing factors, clinical and radiological characteristics, and therapeutic approaches. Computed tomography (CT) angiography, magnetic resonance angiography, ultrasound and, in special cases, positron emission tomography (PET) and PET-CT play a key role in establishing diagnosis and assessing therapeutic efficacy. Due to the complexity of aortic diseases, the optimal therapy, which may be pharmacological, endovascular, open surgery or a combination thereof, is usually decided by a multidisciplinary team. As a result of intensive experimental and clinical research, much has been unveiled in recent years about the pathomechanism of and predisposing factors for aortic diseases, but many questions remain unanswered. Our goal is to provide a comprehensive overview of the results of genetic, immunological, vascular, radiological and surgical research related to the pathomechanism, diagnosis and therapy of aortic diseases.

Guest Editor

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