



Diagnosis and Treatment of Aortic Diseases

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Message from the Guest Editor

Dear Colleagues,

The aorta has a variety of unique characteristics compared to other arteries. Due to its large caliber, the aorta is subject to high hemodynamic stresses and rotational flows influenced by the aortic valve, aortic curvatures in all three planes of space, and the departure of multiple arterial branches. These constraints influence the development of pathologies that play a significant role in overall mortality: atherosclerosis of the aorta, which is responsible for a substantial portion of strokes and systemic embolisms, dissection, and hematoma of the aortic wall. The aortic wall is thus subject to intense remodeling, which is the starting point of these diseases, with the development of plaques, wall inflammation, or matrix alterations leading to zones of fragility. Imaging the aorta remains complex due to the difficulty of thoracic exploration, the thinness of the aorta wall, and the constant movements requiring tracking devices. The therapy is no simpler, as the complex surgery involves cardiac, thoracic[...]

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