



Clinical Advances in Aortic Surgery

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Message from the Guest Editors

Aortic surgery has become one of the most rapidly evolving fields in cardiac surgery. Improved imaging modalities with high-resolution 4D MRI and ultra-sharp cardiac CT have joined forces with novel surgical strategies, including hybrid and complex custom-made endo- prosthetic approaches, to tackle the aortic disease burden. Tremendous surgical progress has led aortic surgery to become a lower risk intervention, allowing aortic arch surgery to be performed with continuous cerebral perfusion in normo- and mild hypothermia. The perioperative monitoring of evoked potentials reduces peripheral and visceral ischemia injuries and facilitates cerebral surveillance strategies during and rapidly after surgery. Fast-track protocols have recently been implemented in complex aortic operations, allowing earlier extubation and neuroradiological intervention in case of need. Finally, multimodal preoperative planning in dedicated aortic teams has been paired with fit-for-surgery pre-operative patients within training programs in order to further improve surgical outcomes. Your contributions in aortic surgery will promote clinical outcomes after aortic surgery beyond major breakthroughs.





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