

Special Issue on  
**Minimal-Invasive Treatment of Structural Heart Diseases**

# CALL FOR PAPERS

Cardiovascular and cardiac diseases are the leading causes of death in all developed countries. In response to this need and the growing numbers of elderly patients, new minimal-invasive therapies and endovascular techniques have been developed in modern cardiac surgery and cardiology. Stent technologies evolved, port-access surgery or percutaneous mitral valve repair emerged, and off-pump coronary artery bypass grafting has been investigated, but the most important and ground-breaking technology was the introduction of off-pump transcatheter aortic valve implantation (TAVI) for the treatment of aortic stenosis. Since the first TAVI procedure in 2002, transcatheter aortic valve implantation is now routinely performed. Moreover, this technology brought cardiologists and cardiac surgeons closer together and the concepts of “heart-teams” have been inaugurated, focusing on determining the right treatment for each patient, which definitively benefits the care of the individual patient.

Not only can heart valves now be treated by minimal-invasive treatment but also new techniques and devices to treat aortic disease have been introduced into clinical practice. These techniques promise to further reduce mortality and morbidity in acute aortic syndromes. To put it succinctly, all these new endovascular and minimal-invasive techniques are increasingly recognized as valid alternative management options for a variety of conditions, and it is anticipated that the current trend towards minimally-invasive techniques will continue in the future, with moves towards increasingly complex endovascular techniques and hybrid interventions.

Potential topics include but are not limited to the following:

- ▶ Minimal-invasive cardiac surgery
- ▶ Transcatheter aortic valve implantation
- ▶ Off-pump cardiac surgery
- ▶ Stent grafting
- ▶ Minimal-invasive mitral valve repair
- ▶ New devices in cardiology and cardiac surgery
- ▶ Minimal-invasive treatment of atrial fibrillation
- ▶ New treatment options in aortic surgery
- ▶ Modern imaging (3D or CT) in cardiology and cardiac surgery
- ▶ Transplantation
- ▶ Treatment of heart-failure

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/bmri/cardiology/mitsd/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

**Lead Guest Editor**

Daniel Wendt, West German Heart and Vascular Center, Essen, Germany  
*daniel.wendt@uk-essen.de*

**Guest Editors**

Matthias Thielmann, West German Heart and Vascular Center, Essen, Germany  
*matthias.thielmann@uk-essen.de*

Carlos Mestres, Cleveland Clinic, Abu Dhabi, UAE  
*carlosamestres@gmail.com*

Thierry Folliguet, Université de Lorraine, Nancy, France  
*t.folliguet@chru-nancy.fr*

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