

Topical Collection

New Techniques in Robotic Surgical Management of Mitral Valve Repair

Message from the Collection Editors

Robotic cardiac surgery was developed to offer the least invasive approach to managing a diverse array of cardiac conditions. It now encompasses mitral valve surgery, coronary revascularization, arrhythmia surgery, pacing lead implantation, congenital cardiac operations, cardiac tumour resections and diaphragmatic pacing. However, the adoption of robotic technology in the current clinical practice is not as widespread as initially anticipated, due to several negative drivers and constraints. There is a lack of robust evidence and a paucity of information from randomized controlled trials to support the wider application of robotic interventions within the current surgical climate.

The future of robotic cardiac surgery depends on a united multidisciplinary dialogue between patients, cardiologists and surgeons to deliver these innovative procedures for appropriately selected individuals, with the primary aim of delivering the highest quality of care for cardiac patients.

Collection Editors

Dr. Thierry Folliguet

Dr. Stepan Cerny

Dr. Fabien Doguet

Dr. Johannes Bonatti



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Journal of Clinical Medicine
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcm@mdpi.com

mdpi.com/journal/

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