DR. THIRUTHANI KUMARAN M

Lead Consultant - Robotic and Minimally Invasive Cardiothoracic Vascular Surgery

Qualification

MBBS | DNB (General Surgery) | DrNB (Cardiothoracic Surgery) | MNAMS | FICS | Fellowship in Advanced Adult Cardiac Surgery (Toronto General Hospital, Canada)

Overview

Dr. Thiruthani Kumaran M is a distinguished cardiac surgeon in Bengaluru, specialising in adult cardiac surgery, minimally invasive procedures, and robotic cardiac surgery. He is currently practising as a Lead Consultant - Robotic and Minimally Invasive Cardiothoracic Vascular Surgery at Manipal Hospital Old Airport Road, Bengaluru, and brings over 18 years of extensive clinical experience in complex and high-risk cardiac surgery, advanced heart failure management, mechanical circulatory support, and heart and lung transplantation. Dr. Thiruthani has performed more than 10,000 open cardiac procedures, over 2,000 minimally invasive surgeries, and more than 300 robotic operations. Known for managing high-risk and redo cases and serving as a designated proctor for robotic cardiac surgery (Intuitive / Da Vinci Robo) in India, Dr Kumaran is recognised among the best cardiac and robotic heart surgeons in Old Airport Road, Bangalore. Dr Kumaran completed his undergraduate medical education (MBBS) at Kasturba Medical College (KMC), Mangalore. He completed his General Surgery

postgraduate training at St. Martha's Hospital, Bengaluru, where he was awarded Best Outgoing Postgraduate Resident, and earned his Diplomate of National Board (DNB) in General Surgery. He completed his super-speciality cardiothoracic surgery training at the Sri Sathya Sai Institute of Higher Medical Sciences (SSSIHMS), Bengaluru, obtaining the DrNB in Cardiothoracic Surgery. Dr Kumaran subsequently spent two years as a Clinical Fellow in Advanced Adult Cardiac Surgery and Heart & Lung Transplant Surgery at Toronto General Hospital's Peter Munk Cardiac Centre in Canada, where he was honoured as Fellow of the Year – Cardiac Surgery (2019). He also completed specialised fellowship training in minimally invasive and robotic cardiac surgery at the University of Chicago Medicine, Chicago, and Emory University, Atlanta, USA. At Manipal Hospital Old Airport Road, Dr Thiruthani Kumaran M provides comprehensive surgical management across adult cardiac surgery, minimally invasive cardiac surgery, and heart failure treatments. As a top robotic cardiac surgeon in Old Airport Road, Bangalore, his surgical repertoire encompasses coronary artery bypass grafting (CABG) with total arterial revascularisation, high-risk CABG in patients with severe left ventricular dysfunction, complex combined CABG and valve procedures, mitral and aortic valve repair and replacement, septal myectomy, and valve-sparing aortic root replacements. He also manages advanced end-stage heart failure through heart and lung transplantation, as well as mechanical circulatory support systems including Left Ventricular Assist Devices (LVAD), RVAD, BiVAD, and Extracorporeal Membrane Oxygenation (ECMO). His pioneering milestones include performing India's first complex minimally invasive cardiac surgery using the Left Anterior Mini-Thoracotomy (LAMT) approach and conducting a heart transplant in a one-year-old child. A committed researcher and academician, Dr Kumaran has authored numerous scientific publications in peer-reviewed journals. He holds memberships and fellowships in leading professional organisations, including Fellow of the International College of Surgeons (FICS), Member of the National Academy of Medical

Sciences (MNAMS), International Society for Heart and Lung Transplantation (ISHLT), Indian Association of Cardiothoracic Surgeons (IACTS), Indian Society of Heart and Lung Transplantation (INSHLT), Society for Heart Failure and Transplantation (SFHFT), International Society for Minimally Invasive Cardiothoracic Surgery (ISMICS), and the Society of Minimally Invasive Cardiovascular and Thoracic Surgery – India (SMICTSI). Fluent in English, Kannada, Tamil, and Hindi, Dr Kumaran combines extensive operative precision with clear diagnostic communication, structured surgical planning, and dedicated postoperative care.

Fellowship & Membership

- Memberships: International Society for Heart and Lung Transplantation (ISHLT)
- Indian Association of Cardiothoracic Surgeons (IACTS)
- Indian Society of Heart and Lung Transplantation (INSHLT)
- Society for Heart Failure and Transplantation (SFHFT)
- International Society for Minimally Invasive Cardiothoracic Surgery (ISMICS)
- Member of the society of minimally invasive cardiovascular and thoracic surgery- India (SMICTSI)
- Member – National Academy of Medical Sciences (MNAMS)
- Fellow – International College of Surgeons (FICS)
- Additional Training/ Fellowships: Advanced Adult Cardiac Surgery & Heart-Lung Transplantation – Toronto General Hospital
- The Peter Munk Cardiac Centre, Canada
- Minimally Invasive & Robotic Cardiac Surgery – University of Chicago Medicine, USA
- Advanced Robotic Cardiac Surgery – Emory University, Atlanta, USA

Field of Expertise

- Coronary Artery Bypass Grafting (CABG) including Total Arterial Revascularization
- High-risk CABG in severe left ventricular dysfunction
- Mitral and Aortic Valve Repair & Replacement
- Complex CABG with valve procedures
- Septal Myectomy
- Advanced Heart Failure Surgery
- Heart & Lung Transplantation
- Mechanical Circulatory Support (LVAD, RVAD, BiVAD, ECMO)
- Minimally Invasive & Robotic Cardiac Surgery

Languages Spoken

- English
- Kannada
- Tamil
- Hindi

Awards & Achievements

- Best Outgoing Postgraduate Resident – General Surgery, St. Martha's Hospital, Bengaluru
- Fellow of the Year – Cardiac Surgery (2019), Toronto General Hospital, Canada
- Trail Blazing Indian Cardiac Care Leader – ET Indian Cardiac Care Innovation Summit, 2024, Bengaluru
- Most Trusted Robotic Cardiac Surgeon in Bengaluru – 2026
- Mumbai Health Summit January 2026 Performed India's first complex minimally invasive cardiac surgery using the Left

Anterior Mini-Thoracotomy (LAMT) approach
- Performed India's youngest Heart transplant in a 1-year old child

Talks & Publications

- Neethling E, Moreno Garijo J, Mangalam TK, Badiwala MV, Billia P, Wasowicz M, Van Rensburg A, Slinger P. Intraoperative and early postoperative management of heart transplantation: anesthetic implications. Journal of Cardiothoracic and Vascular Anesthesia. 2020;34(8):2189–2206. doi:10.1053/j.jvca.2019.09.037
- Damodaran S, Joshi SS, Kumar VS, Natarajan P, Patangi SO, Kumaran T. COVID convalescence—A boon or bane in cardiac surgery? A “second hit” hypothesis. Journal of Cardiothoracic and Vascular Anesthesia. 2021;35(11):3315–3318. doi:10.1053/j.jvca.2020.10.021
- Kasturi S, Kumaran T, Shetty V, Punnen J, Subramanya S, Raghuraman B, Parachuri VR, Shetty DP. Oversized donor heart transplantation: clinical experience with an underestimated problem. Indian Journal of Thoracic and Cardiovascular Surgery. 2021;37(6):631–638. doi:10.1007/s12055-021-01200-6
- Kumaran T, Damodaran S, Singh AP, Kanchi M. Intraoperative cardiac arrest due to allergic acute coronary syndrome (Kounis syndrome) triggered by cephalosporin. Annals of Cardiac Anaesthesia. 2023;26(2):219–222. doi:10.4103/aca.aca_302_205
- Anakaputhur Rajan VK, Kaskar A, Selvam S, Rao R, Mehra S, Kumaran T, Shetty V. Aortic valve replacement in small aortic root: bileaflet mechanical valve is superior to monoleaflet mechanical valve. Indian Journal of Thoracic and Cardiovascular Surgery. 2023;39(5):1–9. doi:10.1007/s12055-023-01520-9

- Natarajan P, Rajadhyaksha NR, Samy NM, Govind SC, Rajadhyaksha MN, Gunaseelan V, Kumaran MT. New insights into right ventricular dysfunction in COVID-19. Journal of Cardiac Critical Care. 2022;1(3):128–134. doi:10.5005/jp-journals-10089-004
- Robotic-assisted mitral valve replacement – CTSNet: Click Here
- Procedure video: Click Here
- India's first complex heart surgery using the left anterior mini-thoracotomy approach at Narayana Health City, Bengaluru – Business News Matters: Click Here
- One year-old undergoes heart transplant in Bengaluru – The Hindu: Click Here
- Podcast on treatment for myocardial bridge at University of Chicago, USA: Click Here