DR. MANASMUKUL DUTTA

Consultant - Cardio Thoracic & Vascular Surgeon

Qualification

MBBS | MCh (Cardiothoracic & Vascular Surgery) | DNB (General Surgery) | MS (General Surgery) | MRCS (Part A), Royal College of Surgeons, Edinburgh

Overview

Dr. Manasmukul Dutta is an experienced Cardio Thoracic & Vascular Surgeon with advanced expertise in adult cardiac surgery, minimally invasive cardiac surgery, robotic-assisted cardiac procedures, coronary artery bypass surgery, valvular heart disease, aortic surgery, heart failure surgery and heart transplantation. He is currently associated with Manipal Hospital, Delhi, where he plays a key role in delivering comprehensive surgical care for patients with complex cardiovascular diseases. Having undergone rigorous super-specialty training at the prestigious All India Institute of Medical Sciences (AIIMS), New Delhi, Dr.Manas has developed extensive proficiency in managing the entire spectrum of cardiac surgical disorders. His clinical practice encompasses coronary artery disease, valvular heart disease, aortic aneurysms and dissections, heart failure, post-myocardial infarction mechanical complications and redo cardiac surgeries. He has significant experience in both conventional and advanced cardiac surgical techniques, enabling him to offer individualized treatment strategies tailored to each patient’s condition. At Manipal Hospital,

Delhi, Dr.Manas has been actively involved in the development and expansion of advanced cardiac surgical services. He has gained extensive experience in minimally invasive and robotic-assisted cardiac surgery, including minimally invasive valve repair and replacement procedures, minimally invasive multivessel coronary artery bypass surgery, and MIDCAB (Minimally Invasive Direct Coronary Artery Bypass) procedures. His commitment to adopting modern surgical technologies allows patients to benefit from smaller incisions, reduced postoperative pain, faster recovery, and excellent clinical outcomes. Dr. Manas has substantial expertise in coronary artery bypass grafting (CABG), including off-pump and complex coronary revascularization techniques. He is experienced in managing high-risk cardiac patients, including those with severe ventricular dysfunction, complex multivessel coronary artery disease, and advanced heart failure. His surgical interests also extend to valve repair and replacement surgery, aortic surgery, left ventricular aneurysm repair, and the management of post-infarction ventricular septal defects. A notable aspect of his professional career has been his involvement in advanced heart failure and transplant programs. At Manipal Hospital, he contributed to establishing the Heart Failure and Heart Transplant Program and participated as a key member of the team that performed the hospital’s first successful heart transplant. Previously, during his tenure at AIIMS and Medanta, he was actively involved in multiple heart transplant procedures, ventricular assist device implantations, and the management of critically ill cardiac patients requiring advanced mechanical circulatory support. Dr. Manas has completed his MCh in Cardiothoracic and Vascular Surgery from AIIMS, New Delhi, following his MS and DNB qualifications in General Surgery. His strong foundation in general surgery, combined with advanced training in cardiac surgery, has equipped him with comprehensive operative and perioperative management skills. Throughout his career, he has managed patients across outpatient, inpatient, intensive care, and emergency settings, ensuring continuity of care from diagnosis through

recovery. Known for his meticulous surgical technique, compassionate patient care, and collaborative approach, Dr. Manas believes in transparent communication and evidence-based decision-making. He works closely with cardiologists, intensivists, anesthesiologists, and rehabilitation specialists to achieve optimal outcomes for patients undergoing cardiac surgery.

Field of Expertise

- Minimally Invasive Cardiac Surgery (MICS)
- Robotic-Assisted Cardiac Surgery
- Coronary Artery Bypass Grafting (CABG)
- Off-Pump Coronary Surgery
- MIDCAB (Minimally Invasive Direct Coronary Artery Bypass)
- Valve Repair and Valve Replacement Surgery
- Aortic Surgery
- Redo Cardiac Surgery
- TAVI, Mitraclip
- Heart Failure Surgery
- Heart Transplantation
- Left Ventricular Aneurysm Surgery
- Post-Myocardial Infarction Mechanical Complications
- Extra-corporealmembrane oxygenation (ECMO) - Mechanical Circulatory Support

Languages Spoken

- English
- Hindi
- Bengali
- Marathi
- Kannada

Awards & Achievements

- Extensive experience in complex and high-risk cardiac surgical procedures.
- Specialized in heart transplantation and advanced heart failure surgery.
- Expertise in ventricular assist device (VAD) implantation.
- Skilled in complex valve surgeries and aortic surgeries.
- Experienced in performing redo cardiac operations.
- Proficient in robotic-assisted minimally invasive cardiac surgery.
- Played a key role in developing a Heart Failure and Transplant Program.
- Participated in the first successful heart transplant at his institution.
- Contributed to national and international scientific publications.
- Invited as faculty speaker at academic and medical forums.
- Actively involved in advancing robotic cardiac surgery techniques.
- Specialized in minimally invasive valve surgery.
- Expertise in total arterial coronary artery bypass grafting (CABG).
- Dedicated to advancing modern and contemporary cardiac surgical techniques.

Talks & Publications

- Actively involved in academic and scientific activities.
- Regular speaker at national and regional conferences, workshops, and CME programs.
- Special interest in heart transplantation.
- Expertise in robotic cardiac surgery.

- Specialized in minimally invasive cardiac surgery.
- Focused on total arterial coronary artery bypass grafting (CABG).
- Contributed to multiple national and international publications.
- Involved in research initiatives in coronary revascularization.
- Research expertise in advanced heart failure management.
- Contributed to studies in cardiac transplantation.
- Experienced in complex cardiac surgery research and innovation.
- Committed to advancing cardiovascular surgical care through research, education, and innovation.