

DR. SOMNATH DEY

Senior Consultant - Interventional Cardiology

Qualification

MBBS (2000) | MD - Anaesthesiology (2012) | DM - Cardiac Anaesthesiology (2015)

Overview

Dr. Somnath Dey, Senior Consultant in the Department of Cardiology at Manipal Hospitals, E.M. Bypass, Kolkata, brings over two decades of expertise in cardiac anaesthesiology and perioperative care. With an MBBS (2000), MD in Anaesthesiology (2012), and DM in Cardiac Anaesthesiology (2015), Dr. Dey is adept at managing high-risk cardiovascular and thoracic procedures, ensuring optimal patient outcomes. His clinical proficiency encompasses pre-anaesthetic assessments, ASA and EUROScore risk grading, and perioperative anaesthetic management for complex cardiac surgeries such as Off-Pump and On-Pump Coronary Artery Bypass Grafting (CABG), valve replacements (MVR, AVR, DVR), mitral and aortic valve repairs, and congenital heart defect corrections, including ASD, VSD, TOF, TGA, and Ebstein anomaly surgeries. His extensive experience in paediatric cardiac surgery and catheterisation lab procedures, such as high-risk cases like TAVR, EVAR, Leadless Pacemaker, BMV, Device Closure (ASD, VSD, PDA etc) primary & complex angioplasty, device closures, and ICD implantation, further solidifies his expertise. Dr. Dey is highly skilled in transesophageal and transthoracic echocardiography,

proficient in all 28 basic and special TEE views, and adept at diagnosing and managing cardiac pathologies before and after surgical interventions. Additionally, he specialises in vascular and thoracic surgeries, utilising one-lung anaesthesia techniques for lobectomy, pneumonectomy, segmentectomy, and VATS procedures. His expertise in general anaesthesia covers advanced airway management, fiberoptic bronchoscopy, laryngoscopy, endotracheal intubations, and the use of specialised tubes like double-lumen, RAE, and Combitubes. He is overall in charge of all cardiac ICUS for provide intensive care in pre- and post-procedures. Dr. Dey is proficient in regional anaesthesia techniques, including lumbar and thoracic epidural blocks, spinal and combined spinal-epidural blocks, caudal epidural blocks, and peripheral nerve blocks for the head, neck, and extremities. His mastery in total intravenous anaesthesia (TIVA), rapid sequence intubation, and critical care management of ventilated patients ensures seamless perioperative care, particularly for patients with comorbidities like hypertension, diabetes, obesity, and chronic obstructive airway disease. He has proficiency in ECMO services, Impella and IABP procedures.

Languages Spoken

- English
- Bengali
- Hindi

Awards & Achievements

- Gold medal in Psychiatry (R.G.Kar Medical College, Kolkata in 2000)
- Secure First position in free paper competition at 6th Perioperative TEE Workshop of PGIMER,Chandigarh in 2011.

- Awarded Observership in Cardiac Anaesthesia by PGIMER,Chandigarh in 2015 in Advance Cardiac Centre, PGIMER, Chandigarh, India.

Talks & Publications

- Fenestration- Integrating Wings Into the Atrial Septal Occluder for Navigating a Challenging
- Terrain. A Singhi, S D ey et al.Sept 2023 cureus 15(9),DOI:10.7759/cureus.45260
- Challenges in Device Closure of Secundum Atrial Septal Defect in Older Patients in Their Fifth Decade and Beyond.
- A Singhi, S Dey et al. February 2022, cureus 14(2),DOI:10.7759/cureus.22480
- Challenges in balloon pulmonary valvotomy for severe pulmonary stenosis presenting with cyanosis and ventricular dysfunction. A Singhi, S Dey et al. January 2022
- Journal of Indian College of Cardiology 12(3):139DOI:10.4103/jicc.jicc_46_21
- Left bundle branch pacing in hypertrophic cardiomyopathy-a novel approach. • S Patra, S Dey et al. December 2021 American Journal of Cardiovascular Disease 11(6):710-713
- Percutaneous coronary intervention in chronic total occlusion of anomalous right coronary artery: an onerous journey.
- S Patra, S Dey et al. October 2021American Journal of Cardiovascular Disease 11(5):624-627 •
- Cardiac resynchronization therapy left ventricular lead through middle cardiac vein: A feasibility study
- with short-term follow-up.
- A Pande, S Dey et al. HeartIndia9154-678733 185113 May 2021
- The Emerging Role of Gut Microbiota in Cardiovascular Diseases The Emerging Role of Gut Microbiota in

Cardiovascular Diseases.

- D Kumar, S Dey et al. Indian Heart Journal. April 2021,/doi.org/10.1016/j.ihj.2021.04.008
- To evaluate the long-term clinical outcomes and trends in present usage of thrombosuction in STEMI patients undergoing primary PCI.
- D Kumar, S Dey et al. Indian Heart Journal 72:S2,Nov 2020,DOI:10.1016/j.ihj.2020.11.017
- Procedural safety and outcome of ultrathin strut stents (30 mm) - A retrospective real world study.
- S Patra, S Dey et al.American Journal of Cardiovascular Disease, August 2020 10(3):182-188
- Long-term clinical outcomes of thrombus aspiration in STEMI patients undergoing primary percutaneous coronary intervention.
- D Kumar, S Dey et al. American Journal of Cardiovascular Disease 10(2):117-123, Jun 2020
- An Unusual Cause of Cardiac Tamponade During Cardiac Catheterization Study. D Das, S Dey et al. Case Reports in Cardiology. Volume 2014, Article ID 65259