

DR. ABHISHEK ROY

Consultant - Interventional Cardiology

Qualification

MBBS | MD (Internal Medicine) | DrNB (Interventional Cardiology)

Overview

Dr. Abhishek Roy is a distinguished expert serving as a Consultant in the Department of Interventional Cardiology at Manipal Hospitals, EM Bypass. Dr. Roy holds an MBBS from Nilratan Sircar Medical College and Hospital, Kolkata. He later pursued his postgraduation MD in Internal Medicine from the same institution. Dr. Roy further obtained his DrNB in Interventional Cardiology from the NH - Rabindranath Tagore International Institute of Cardiac Sciences, Kolkata. He also has a post-graduate programme he earned from Johns Hopkins University School of Medicine and MESF. With extensive experience in both Elective and Emergency Cardiac Procedures, Dr. Roy has performed a wide spectrum of Interventional Cardiology procedures. These include Complex Coronary Angioplasties (Bifurcation, CTO, Calcified Lesions), IVUS/OCT/FFR-guided Angioplasty, and Primary Angioplasty. Dr. Roy is also an expert in performing advanced heart procedures, such as Balloon Mitral Valvotomy, Left Atrial Appendage Closure, Rotablation, etc. Additionally, Dr. Roy carries out Device Implantation procedures like Automatic Implantable Cardioverter-Defibrillator (AICD), Cardiac Resynchronization Therapy (CRT), and Conduction System Pacing. He

is also proficient in performing several emergency interventions like Temporary Pacemaker Insertion, IABP, and Pericardiocentesis. Dr. Roy is always passionate about combining the latest treatments into his clinical practice. Dr. Roy also made significant contributions to academics and research. He has authored and published several research articles in reputed national and international journals. Notable ones include the European Heart Journal, PLOS ONE, and journal of the Indian Medical Association. He has also presented over 20 scientific papers at major Cardiology conferences. Moreover, Dr. Roy has written book chapters on topics like Artificial Intelligence and Cardiology, as well as on Peripartum Cardiomyopathy. With his dedication to both clinical excellence and academic advancement, Dr. Roy has earned recognitions and felicitations throughout his career. He was the first runner-up for the 'Young Investigators Award at the European Society of Cardiology (ESC), Asia. He also won for presenting an outstanding research abstract at the American College of Cardiology (ACC) Middle East Conference in 2021. His patient-centred care and commitment to using the latest advancements make him a highly respected member of the Interventional Cardiology team.

Field of Expertise

- Coronary Angiography (both Radial and Femoral Access)
- Graft, Renal, and Peripheral Angiography
- Simple and Complex Coronary Angioplasty (including left main, bifurcation, Chronic Total Occlusion (CTO), calcified lesions)
- Primary and Rescue Angioplasty
- Intravascular Ultrasound (IVUS), Optical Coherence Tomography (OCT), and Fractional Flow Reserve (FFR) - Guided Angioplasty
- Graft, Renal, and Peripheral Angioplasty
- Rotablation, Orbital Atherectomy, and Intravascular Lithotripsy
- Single and Dual Chamber Permanent Pacemaker Implantation

(Right Ventricular Apical and Septal Pacing)
- Single and Dual Chamber Automated Implantable Cardioverter Defibrillator (AICD) Implantation
- Cardiac Resynchronization Therapy with or without Defibrillator (CRT-P/D)
- Conduction System Pacing Electrophysiological (EP) Study
- Balloon Mitral Valvuloplasty
- Left Atrial Appendage Closure
- Emergency Pericardiocentesis, Temporary Pacemaker Insertion, and Intra-Aortic Balloon Pump (IABP) Support
- Transcatheter Aortic Valve Replacement (TAVR)

Languages Spoken

- English
- Bengali
- Hindi

Awards & Achievements

- Young Investigator Award – 1st Runner Up, ESC Asia with APSC & AFC, 2022.
- Abstract Winner Award, ACC Middle East, 2021.

Talks & Publications

- Cangrelor: From Bench to Bedside – Bengal Heart Journal, 2022.
- MicroRNA 155:145 Ratio as a Marker of Atherogenic Tilt Manifested Across Different Age Groups and Risk Factor Profiles – European Heart Journal, February 2022.
- Comparing the Effectiveness Of High-Dose Atorvastatin And

Rosuvastatin Among Patients Undergone Percutaneous Coronary Interventions: Non-Concurrent Cohort Study In India – PLOS ONE, May 19, 2020.

- Rare Case Of Familial Restrictive Cardiomyopathy: A Case Report – Journal Of The Indian Medical Association, July 2018.
- Systemic Lupus Erythematosus Presenting With Posterior Reversible Encephalopathy Syndrome: An Unusual Case - IOSR Journal Of Dental And Medical Sciences, September - October 2012.
- Differential Expression Of Highly Sensitive C-Reactive Protein In Patients Of Coronary Artery Disease With And Without Traditional Cardiovascular Risk Factors – Abstract Accepted For Presentation In ACC.23/WCC, 2023.
- Differential Expression Of TLR4 In Patients Of Coronary Artery Disease With And Without Traditional Cardiovascular Risk Factors – 1st Runner
- Up, Young Investigator Award Competition, ESC Asia 2022 With APSC & AFC.
- Differential Expression Of TLR4 In Patients Of Coronary Artery Disease With And Without Traditional Cardiovascular Risk Factors – Abstract
- Accepted For Young Investigator Award Competition, ESC Asia 2022, With APSC & AFC.
- Highly Sensitive C-Reactive Protein Level And Toll-Like Receptor 4 Expression Disconnect In Predicting the Total Burden Of Traditional Risk Factors For Coronary Artery Disease – Abstract Accepted As A Poster In ACC Middle East 2022 Together With The 13th Emirates Cardiac Society Congress.
- Artificial Intelligence In Cardiology – Presented In Update In Cardiology, CSI, 2022.
- Left Atrial Appendage Closure In Rheumatic Mitral Stenosis – Presented In EIICCON, 2022.
- Fibrotic Interatrial Septum In A Case Of Balloon Mitral

Valvotomy – Presented In CSI NIC, 2022.

- MicroRNA 126 As A Surrogate Marker For Primary Prevention Of Atherosclerotic Cardiovascular Disease Across Different Age Groups In
- Susceptible Population – Abstract Accepted For Best Poster Session In ACC.22, 2022.
- Microrna 155:126 Ratio As A Marker Of Clinically Manifest Atherosclerosis Across Different Age Groups And Risk Factor Profiles – Abstract Accepted For Presentation In ACC.22, 2022.
- Expression Of Microrna 155 As A Biomarker Of Significant Coronary Artery Disease In Young – Abstract Accepted For Poster Presentation In TCT 2022.
- MicroRNA 155:145 Ratio As A Marker Of Atherogenic Tilt Manifested Across Different Age Groups And Risk Factor Profiles – Abstract Accepted For Presentation In ESC Asia 2021.
- MicroRNA 126 As A Surrogate Marker For Primary Prevention Of Atherosclerotic Cardiovascular Disease Across Different Age Groups In Susceptible Populations – Abstract Accepted For E-Poster – ACC Middle East, 2021.
- Expression Of MicroRNA 145 Across Age And Risk Factor Profiles And Its Correlation With Severity Of Coronary Artery Disease – Abstract Accepted For Oral Presentation – Asian Pacific Society Of Cardiology, 2021.
- A Patient With Restrictive Ventricular Inflow – Presented In Ezecho, 2018.