

A Brief Report for Continuing Pharmacotherapy Education (CPHE) Programme on "Therapeutic Medical Devices in Cardiac Surgery"

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Organized by: Dept. of Pharmacy Practice, JSS College of Pharmacy, Ooty

Venue: Seminar Hall, JSS College of Pharmacy, Ooty.

Date: 22.02.2024

Time: 03.00 PM – 05.15 PM

Speaker: Dr. Bellipady Shyam Prasad Shetty
Deputy Director-Clinical Services, JSS Hospital, Mysuru
Prof. & Head, Dept of Cardiothoracic & Vascular Surgery
JSS Medical College, Mysuru.

The Continuing Pharmacotherapy Education (CPHE) Programme on "Therapeutic Medical Devices in Cardiac Surgery" was conducted by Dr. Bellipady Shyam Prasad Shetty on 22.02.2024 at Seminar Hall, JSS College of Pharmacy, Ooty. The seminar aimed to provide insights into the advancements and applications of therapeutic medical devices in cardiac surgery, focusing on their role in improving patient outcomes and enhancing surgical procedures.

Dr. Bellipady initiated the seminar with an overview of cardiac surgery, emphasizing its significance in treating various heart conditions, including coronary artery disease, valvular heart disease, and congenital heart defects and also explained the significance and history of Heparin & Warfarin. The presenter introduced various therapeutic medical devices commonly used in cardiac surgery, including TTK Chitra™ heart valve, calcified Aortic valve, ST Jude, Porcine Valve, ONYX Valve, Polymer valve, Tubular Pericardial valve, Allo Graft, Star Edwards valve, Types of Artificial Valves like Mechanical Valves and Bioprosthetic Valves, Bioprosthetic sutureless valve, Atrial Septal defect Closure Devices, ICD, Implantable Cardioverter-Defibrillator, Impella Device Right, Impella Device Left, Biventricular Assist Device, HeartMate 3, Jarvik 2000 LVAD, Carmat Artificial Heart, ABIOCOR Total Artificial Heart and also emphasized the Importance of organ donation.

Dr. Bellipady elaborated on the applications and benefits of therapeutic medical devices in cardiac surgery. He discussed how these devices help in restoring normal heart function, improving blood circulation, preventing arrhythmias, and reducing the risk of heart failure. Additionally, Dr. Bellipady addressed the challenges associated with therapeutic medical devices in cardiac surgery, including device-related complications, cost considerations, and the need for continuous innovation. He also discussed future directions in research and development aimed at further enhancing the effectiveness and safety of these devices.

The seminar provided valuable insights into the role of therapeutic medical devices in modern cardiac surgery. Attendees gained a deeper understanding of the various devices used, their applications, and benefits, as well as the challenges and future prospects in this rapidly evolving field. The speaker also highlighted the role of Clinical Pharmacists in Cardiac Surgeries. At the end of the programme, students clarified their doubts about various cardiac problems, treatment strategies used in hospitals for selecting suitable medical devices for individual patients, etc. Around 95 students participated and benefitted from this Continuing Pharmacotherapy Education (CPHE) Programme.

