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Berlin Heart EXCOR Ventricular Assist Device in Paediatric Heart Failure – A Narrative Review of the Literature

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Hear Failure is one of the common cause of morbidity and mortality in childhood. The incidence of heart failure in United States is about 550000 and prevalence is more than 6 million and around 11000 to 14000 children hospitalised every year. There are several advances in the management of heart failure in Paediatric population. One such intervention is The Berlin Heart Paediatric EXCOR Ventricular Assist Device which was first used in a 8 year old boy with coarctation of Aorta presented with left ventricular failure and Tachyarrythmias using 50 ml adult size. The device was first approved for use in united states by 2017. This system incorporates para corporeal pulsatile membrane and silicone pumps and a specialized pneumatic system and considered as a bridge to orthotopic heart transplantation. The Berlin Heart EXCOR can be used either Left ventricle Assist Device (LVAD), Right Ventricular Assist Device (RVAD) or Biventricular Assist Device (BVAD). The system uses CARMEDA Bioactive Surface which is coated with heparin reduce thrombus formation and clinically proven thromboresistant surface. Over 2500 devices are implanted all over the world till now. The PubMed database and Google scholar search was performed using the terms “ventricular assist device”, and “Berlin Heart EXCOR”. The narrative review was performed by analysing 30 articles. The aim of this article to review the Investigational Data Exemption (IDE) study, post approval surveillance study, adverse events and antithrombotic protocols of Berlin Heart EXCOR Paediatric Device.

Biography

Dr. Kruthiga Rajasekaran was graduated from Annamalai university in 2020. She completed her MBBS degree at Rajah Muthiah Medical college. She is actively involved in many conferences and workshops during her academic years and loves Volunteering, involved in environmental activities like Swachh Bharath campaign, Rally for Rivers and Fundraising for Spinal Muscular atrophy patients. She is currently working on pursuing her paediatric residency in United States.

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