

## **Implantation experience of defibrillators and cardiac resynchronization therapy: The National Institute of Cardiovascular Diseases (NICVD), device registry 2017-2018**

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### **Abstract**

**Introduction:** The incidence of heart failure and sudden cardiac death is increasing at an alarming rate all around the globe and same is the case of Pakistan. It has increased the rate of heart failure, arrhythmia, and sudden cardiac death, morbidity and mortality have also been increased resulting in frequent emergency department visits. Sudden cardiac death (SCD) is an important cause of death in adult and young patients. Over the past years, the rate of implantable cardiac defibrillator (ICD) implantation is increased dramatically all over the world. **Methods:** This is a single center registry of NICVD, Karachi includes patients from May 2017 to June 2018, admitted through emergency or outpatient department and were diagnosed as a case of heart failure, survival of sudden cardiac death or cardiomyopathies. All cases are included on the base of ACC/AHA guidelines of device-based therapy. **Results:** A total of 930 patient were included in this registry. Out of this biventricular pacing devices, CRTD were 216 (28.0%) and CRT P were 54(5.8%). Single ICD were 422(45.0%) and dual ICD were 238(25.0%). Majority of patients were of ischemic cardiomyopathy that comes up to 726(78.06%) and non-ischemic cardiomyopathy were 204(21.93 %). **Conclusion:** This report gives an overview of the clinical practice and device implantation. Heart failure patients are increased over the period of time, and the common cause according to this report is ischemic cardiomyopathy. High energy devices were used more for primary prevention.

### **Biography:**

Dr. Abdul Mueed, have completed fellowship in cardiology from college of physician and surgeon of Pakistan in 2016, and than second fellow ship in cardiac electrophysiology in 2019. Age 35. Have also presented in APHRS Bangkok 2019. Currently working as assistant professor, in National Institute of Cardiovascular Diseases, Tando Muhammad Khan.

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