



## **TITLE: An Audit of Permanent Pacemaker Implantation Indications at National Hospital of Sri Lanka from 2018 – 2020**

**Name: Sandun Prabath**

**Affiliation: Senior Registrar- Institute of Cardiology- Colombo.**

**Country: Sri Lanka.**

**Email ID: [sandunprabath@gmail.com](mailto:sandunprabath@gmail.com)**

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### **ABSTRACT**

This audit was conducted by the cardiac-electrophysiology team of National Hospital of Sri Lanka (NHSL), aiming to improve the decision-making process for pacemaker implantations according to the 2018 ACC/AHA/HRS guidelines. This study analyses the appropriateness of pacemaker (PPM) prescription and proper selection of the chamber of pacing to detect any existing gap between the current practice of the institution and the latest evidence-based standards. A retrospective study which is based on the patients who had undergone first PPM implantation from 2018 to 2020. The data was collected from PPM registries and ward files. Data was recorded in information sheets and analyzed using SPSS v.25. Total population was 1160. Mean age was 67.25 years with 51.7% female population. Most frequent indication for pacing was AV conduction defects (52.2%) followed by sick sinus syndrome (SSS) (42.8%). Single Chamber Ventricular pacing (VVI) (73.4%), Single Chamber Atrial pacing (7%) and Dual Chamber pacing (19.7%) were noted. Majority (56.8%) patients with SSS had VVI pacing. The analysis identified 162 cases of ventricular pacing, which deviated from the guideline. This audit has shown the similar demographics and pacemaker indications in the study population, compared to the world literature. A higher number of unnecessary ventricular pacing has detected which highlighted the necessity of implementing relevant strategies in pacemaker implantation.

### **BIOGRAPHY**

Sandun Prabath has completed his MD in Medicine at Postgraduate Institute of Colombo in 2018. He has been trained in Institute of Cardiology, Colombo, as a senior Registrar and Currently in training as a Senior Clinical Fellow in University Hospital of Southampton, United Kingdom. Sandun has published several papers and currently actively involved in clinical research and audits.




International Conference on

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 [heart@scientexconferences.com](mailto:heart@scientexconferences.com)

 +1 (346) 3481205

**Presenter Name:** Sandun Prabath

**Mode of Presentation:** Oral.

**Contact number:** +447877888507



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