



EMBARGOED UNTIL 20th NOVEMBER 2022 1730HRS SGT

Performance of Model 3830 Left Bundle Branch Area Pacing : Results from CareLink and Registration Data

Context:

Nowadays, as increasing number of patients with pacing induced cardiomyopathy in conventional right ventricular pacing, the conduction system pacing (CSP) like left bundle branch area pacing (LBBAP) and his- bundle pacing (HBP) are adopted as preferred pacing system . In view of the high pacing output issue with HBP, LBBAP has emerged as the most favourable CSP than HSP and apical /septal pacing.

Summary:

The study demonstrated that LBBAP leads had mean pacing output $2.1\pm 0.5V$ at $0.4\pm 0.1ms$, and mean pacing capture threshold (PCT) was $0.88\pm 0.32V$ at 6 months. At 24 months, LBBAP leads remained active 95.3% than HBP or apical/septal leads. In this registry, Medtronic Model 3830 leads were analysed and assigned to a LBBAP, HBP or apical /septal pacing. The PCT was determined and analysed by Dr Jordana Kron and colleagues at Virginia Commonwealth University USA.

Message:

LBBAP leads had a low PCT and reasonable sensed amplitude at implant, and electrical performance remained stable over follow up 24 months than HBP or apical/septal leads. Therefore, LBBAP lead with Model 3830 is a viable alternative to HBP or RVP.

Session details:

(e.g. Oral presentation – Cardiac Implantable Electronic Devices 5: Sunday 20th November 2022 1-2 pm SGT)

Author:

Dr Mon Ei Ei Moe

National Heart Centre Singapore

Press contact:

Ms Felicia Teng

secretariat@aphrs2022singapore.com