



EMBARGOED UNTIL 20th NOVEMBER 2022 1730HRS SGT

Left Bundle Pacing/His Bundle Device Check – Tips and Tricks

Context:

There has been a recent growing body of evidence for physiologic pacing, that includes His-bundle pacing (HBP) and left bundle branch (LBB) pacing in clinical practice. In this session, Ms Dana Goldense shared on key tips and tricks on conduction system pacemaker device check, ongoing areas of research related to the topic and the yet still many unknowns.

Summary:

Ms Dana Goldense opened the talk emphasising on the important device parameters during pacemaker check with the primary objective in obtaining the most physiologic QRS with acceptable capture thresholds. She shared that left bundle area leads may have an above average impedance due to deep septal location, and how 12 lead electrocardiogram may indicate optimal lead placement by demonstrating incomplete or pseudo right bundle branch block (RSR¹), predominantly positive QRS in inferior leads, left ventricular activation time (LVAT) of <80 ms (<100 ms in pre-existing left bundle branch block).

Ms Dana Goldense then highlighted capture thresholds and battery longevity issue, especially in His pacemakers. She went on to discuss unique clinical circumstances related to implantation of HBP and LBP devices as an alternative to biventricular pacing, and illustrate the role of conduction system pacing in achieving cardiac resynchronisation.

Lastly, Ms Dana Goldense's presentation touched on ongoing areas of research in conduction system pacing, such as trials that looked at comparing HBP and LBP with biventricular devices in heart failure patients, and unknown areas related to long term valvular interactions with device leads, longevity data and extraction considerations.

Message:

This session summarised important areas of conduction system pacemaker device check and the emerging role of conduction system pacing in cardiac resynchronisation therapy.

Session details:

Symposium 34 Left Bundle Pacing/His Bundle Device Check – Tips and Tricks (Sunday 20th November 2022 13.00-14.10 pm SGT)

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