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Implementation of Conduction System Pacing in Modern Electrostimulation: A Nationwide Overview

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Introduction: Conduction system pacing (CSP)—encompassing His-bundle pacing (HBP) and left bundle branch area pacing (LBBAP)—has emerged as a physiological alternative to traditional right ventricular pacing and cardiac resynchronization therapy.[1,2] This study aims to evaluate the current adoption, center participation, and implementation landscape of CSP across cardiac pacing centers in Croatia.

Methods: A national survey/registry analysis was conducted across all active cardiac electrophysiology and device centers in Croatia. We assessed center-level data regarding total pacemaker implantation volumes, adoption rates of CSP modalities, institutional capabilities, and procedural experience.

Results: A total of 17 centers actively perform cardiac pacemaker implantations in Croatia. Of these, 11 centers (65%) have initiated, partially integrated or completely integrated conduction system pacing into their clinical practice. LBBAP represents the predominant CSP technique adopted across centers, driven by superior sensing parameters and lower acute/chronic lead dislodgement rates compared to HBP.

Conclusion: Conduction system pacing has seen steady adoption across Croatia, with nearly two-thirds of active device centers incorporating CSP into standard patient care. Continued national registry monitoring and standardized training programs will be key to further optimizing CSP delivery and expanding higher access across all Croatian centers.

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