Acute and chronic effectiveness of ADDs in Patients with permanent HBP

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Introduction: Studies have reported that antiarrhythmic drugs can affect pacemaker parameters, but whether they have impact on parameters and conduction after His bundle pacing (HBP) is still lack of research. A prospective study to monitor the influence of antiarrhythmic drugs (ADDs) on pacing parameters and conductivity of His bundle during and after HBP, and assess the impact of drugs on the safety of His bundle pacing.

Methods: Patients (N=100) who met the pacing indication with QRS < 120ms were enrolled. Propafenone, lidocaine and adenosine were injected intravenously according to body weight immediately after implantation of 3830 lead in HBP. Betaloc, amiodarone and digoxin were taken orally for one month after operation. The parameters of bipolar pacing and sensing vector before and after treatment were measured, including threshold (pulse width 0.5/1.0ms), sensing and impedance, and His-V wave conduction (HVC) of His lead under 130 bpm pacing. Baseline data in Table 1.

Result: The results showed that there was no influence on the parameters of His lead before and after treatment according to body weight (P > 0.05), as shown in Table 2.

Conclusion: There is no influence on the parameters and H-V conduction of HBP before and after the use of antiarrhythmic drugs.