[gw22-e1044]

EFFICACIES OF ATRIAL SEPTAL PACING ON ATRIAL PREMATURE CONTRACTIONS AND ATRIAL TACHYCARDIA WITHIN FIRST YEAR

Guoping He, Bo Xu, Wenhua Li, Zhihong Qian *Department of Cardiology, Affiliated Wujin Hospital of Jiangsu University, Changzhou, China*

10.1136/heartjnl-2011-300867.522

Objective To explore efficacies of atrial septal pacing (ASP) on atrial premature contractions (APCs) and atrial tachycardia (AT) within first year.

Methods ASP were performed in 46 patients who received DDD (45 cases) or AAI (1 cases) pacemaker implantation. In all patients, 12-lead surface electrocardiogram and 24 h dynamic electrocardiogram (DCG) were recorded at preoperation and postoperation 1-week, 3-month and 12-month, respectively. P wave duration maximum (Pmax) was measured during sinus rhythm before pacemaker implantation and during ASP, respectively, and episodes of the APCs and AT were observed before pacemaker implantation and within first year after pacemaker implantation.

Results (1) Compared with those during sinus rhythm before pacemaker implantation, Pmax was significantly shorter during ASP (98.00±14.07 ms vs 76.00±14.59 ms, p<0.01). (2) Compared with those before pacemaker implantation, the episode times of APCs and the runs of AT monitored by DCG were significantly reduced at 12-month, 3-month and 1-week (all P0.05) and the episode cases of AT monitored by DCG was reduced too at 3-month after pacemaker implantation (p<0.05).

Conclusion ASP can significantly shorten interatrial conduction time and reduce the episodes of APCs and AT within first year after pacemaker implantation.