



## Heart Failure

### TOTALLY EPICARDIAL CARDIAC RESYNCHRONIZATION THERAPY CONCOMITANTLY WITH CORONARY ARTERY BYPASS GRAFTING IN PATIENTS WITH ISCHEMIC HEART FAILURE: THREE-YEAR RESULTS OF RESCUE STUDY

Oral Contributions

West, Room 2006

Saturday, March 09, 2013, 8:00 a.m.-8:15 a.m.

Session Title: Resynchronization Therapy and Right Ventricular Function

Abstract Category: 17. Heart Failure: Therapy

Presentation Number: 906-3

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**Background:** Epicardial implantation of cardiac resynchronization therapy (CRT) system during coronary artery bypass grafting (CABG) may be an additional treatment method, which will lead to an improvement of left ventricle (LV) systolic function and dyssynchrony in patients with ischemic heart failure.

**Methods:** One hundred and seventy eight consecutive patients with severe ischemic heart failure and LV dyssynchrony were randomized in two groups: CABG alone (n=87) and epicardial CRT implantation during CABG (n=91). The primary end point of the study was comparison of mortality between two groups at 3 year of follow-up.

**Results:** In CABG group 27 patients (31%) died at 3-year follow compared with 14 (15.4%) in CABG+CRT group (Log-Rank test,  $p=0.01$ ). In Cox regression analysis, LV dyssynchrony [HR 2.634 (1.206-5.751),  $P = 0.015$ ] was identified as the independent predictor of all-cause death and heart failure hospitalization.

**Conclusions:** Epicardial implantation of a CRT system concomitantly with CABG improves LV systolic function and is associated with low mortality in long-term follow up compared with CABG alone in ischemic heart failure patients with LV dyssynchrony.

