GW23-e2433  
**EFFECTS OF ALDOSTERONE ON L-TYPE CALCIUM CHANNEL AND ELECTROPHYSIOLOGICAL FEATURES ON CARDIOCYTES**

doi:10.1136/heartjnl-2012-302920a.251

Cheng Mian, Zhang Cuntai. Department of Geriatrics, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology

**Objectives** to investigate the effect of aldosterone on L-type calcium channel and electrophysiological features on cardiocytes.

**Methods** Single ventricular myocytes were isolated by enzymatic dissociation method. Isolated adult rat ventricular myocytes exposed for 48 h to aldosterone 100 nmol/l, APD and $I_{Ca,L}$ were recorded by using whole cell patch clamp technique.

**Results** we observed an increase in the APD 50, APD90 and $I_{Ca,L}$ in Ald group, I-V curve of $I_{Ca,L}$.

**Conclusions** Aldosterone on cardiocytes increase in the APD and $I_{Ca,L}$ which may contributes to cardiac arrhythmia.