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

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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 ICa,L were recorded by using whole cell patch clamp technique.

Results we observed an increase in the APD 50, APD90 and ICa,L in Ald group, I–V curve of ICa,L.

Conclusions Aldosterone on cardiocytes increase in the APD and ICa,L which may contributes to cardiac arrhythmia.