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**摘要:**

环维黄杨星D(CVB-D)对 $\text{CaCl}_2\text{-Ach}$ 诱发小鼠在体心房纤颤和乌头碱、哇巴因或肾上腺素所致豚鼠离体心房纤颤,有明显的剂量依赖性抑制作用,且作用强度与胺碘酮(Ami)相似。CVB-D $0.3\sim100\mu\text{mol}\cdot\text{L}^{-1}$ 降低离体右心房自律性。对离体左心房,CVB-D $0.3\mu\text{mol}\cdot\text{L}^{-1}$ 抑制肾上腺素引起的异常自律性,延长有效不应期和动作电位时程,降低兴奋性;高浓度时,可降低 $V_{\max}$ ,延长冲动传导时间。Ami $0.3\sim30\mu\text{mol}\cdot\text{L}^{-1}$ 有相似的电生理作用,但对 $V_{\max}$ 无明显的影响。提示CVB-D可试用于心房纤颤的患者。

关键词: 环维黄杨星D 胺碘酮 心房纤颤 动作电位

### ANTI ATRIAL FIBRILLATION EFFECTS OF CYCLOVIROBUXINE D AND ITS ELECTROPHYSIOLOGICAL MECHANISM STUDIED ON GUI NEA PIG ATRIA

YX Wang; YM Zheng; YH Tan and BH Sheng

**Abstract:**

Cyclovirobuxine-D (CVB-D) was shown to produce significant and dose dependent protective effects against atrial fibrillation induced by  $\text{CaCl}_2\text{-Ach}$  in mice. On atrial fibrillation induced by aconitine, ouabain or adrenaline in isolated guinea pig atria, the effects of CVB-D were similar to those of amiodarone. CVB-D  $0.3\sim100\mu\text{mol}\cdot\text{L}^{-1}$  was shown to depress the automaticity of the isolated guinea pig right atria. In isolated left atria, CVB-D  $0.3\mu\text{mol}\cdot\text{L}^{-1}$  was found to inhibit the abnormal automaticity elicited by adrenaline, to prolong the duration of action potential and effective refractory period and to reduce excitability. At high concentration ( $30\mu\text{mol}\cdot\text{L}^{-1}$ ), CVB-D was also found to decrease the maximal velocity of depolarization ( $V_{\max}$ ) and to elongate the conduction time of initiation. Amiodarone  $0.3\sim30\mu\text{mol}\cdot\text{L}^{-1}$  was shown to closely resemble CVB-D in electrophysiology without effect on  $V_{\max}$ .

Keywords: Amiodarone Atrial fibrillation Action potential Cyclovirobuxine-D

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