

论著

环维黄杨星D对大鼠心脏功能及血压的作用

杨芳芳, 胡申江*

(浙江大学医学院附属第一医院, 浙江 杭州 310003)

收稿日期 2006-9-5 修回日期 网络版发布日期 2007-7-30 接受日期 2007-3-8

摘要 目的 观察环维黄杨星D (CVB-D) 对正常大鼠在体心脏功能和血压的调节作用。方法 雄性SD大鼠灌胃给予CVB-D $3.35 \text{ mg} \cdot \text{kg}^{-1} \cdot \text{d}^{-1}$, 分别于给药2, 4和6周后, 用血流动力学方法观察大鼠的收缩压、舒张压、左室收缩压 (LVSP)、左室舒张末压 (LVEDP)、左室压力最大变化速率 ($\pm dp/dt_{\max}$) 以及心率。结果 对照组相比, 灌胃给予CVB-D 6周后, 大鼠LVSP增高, 收缩压降低。而各时间点给药组LVEDP、 $\pm dp/dt_{\max}$ 、舒张压及心率均未发生明显改变。结论 CVB-D对在体大鼠有一定的增强心脏功能和降低主动脉压力效应, 同时不会引起心动过速。

关键词 [环维黄杨星D](#) [血流动力学](#) [心脏收缩](#)

分类号 [R972](#)

Effect of cyclovirobuxine-D on heart function and blood pressure of rats *in vivo*

YANG Fang-Fang, HU Shen-Jiang*

(The First Affiliated Hospital, School of Medicine, Zhejiang University, Hangzhou 310003, China)

Abstract

AIM To explore effects of cyclovirobuxine-D (CVB-D) on heart function and blood pressure of rats *in vivo*. **METHODS** CVB-D $3.35 \text{ mg} \cdot \text{kg}^{-1} \cdot \text{d}^{-1}$ was given (ig) to male SD rats for 2, 4 and 6 weeks, then proceeded *in vivo* hemodynamic measurements through right carotid artery. Left ventricular systolic pressure (LVSP), left ventricular end-diastolic pressure (LVEDP), maximal rate of rise and decline of left ventricular pressure ($\pm dp/dt_{\max}$), systolic blood pressure (SBP), diastolic blood pressure (DBP) and heart rate (HR) were detected by the Medlab 6 system. **RESULTS** No significant differences were observed in 2-week and 4-week groups. LVSP elevated notably in 6-week CVB-D group, while SBP decreased. LVEDP, $\pm dp/dt_{\max}$, DBP and HR stayed stable in two groups. **CONCLUSION** CVB-D can improve heart function and lower blood pressure, while not quickening the heart rate synchronously.

Key words [cyclovirobuxine D](#) [hemodynamics](#); [myocardial contraction](#)

DOI:

通讯作者 胡申江 s0hu0001@126.com

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(336KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ 本刊中 [包含“环维黄杨星D”的相关文章](#)
- ▶ 本文作者相关文章

- [杨芳芳](#)
- [胡申江](#)