

论文

中国萝芙木碱Verticillatine对麻醉狗和猫心功能与血流动力学的影响

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摘要:

Verticillatine(Vt)0.5~1.0mg/kg iv,能使麻醉狗的血压下降,心率减慢,cl, LVSP LV dp/dt max, LVWI,TPR降低,作用随剂量增加而加强。冠脉阻力稍降低,但心肌氧利用率和氧耗减少。颈内动脉和股动脉血流增加,阻力减少。给麻醉猫iv Vt和六羟季铵1.0 mg/kg后,BP,LVP和LV dp/dt max降低,但LV dp/dt/p和LVEDP无明显变化。说明Vt能降低心脏后负荷,对前负荷无明显影响。

关键词: 中国萝芙木碱 血流动力学 血流量 六羟季铵

EFFECTS OF VERTICILLATINE ON THE CARDIAC HEMODYNAMICS IN ANESTHETIZED DOGS AND CATS

ZENG Gui-Yun and; KAO Shi-Jia

Abstract:

Verticillatine (Vt) is a new alkaloid isolated from *Rauwolfia verticillata* (Lour) Bail. In the present study the haemodynamic effects of Vt was investigated and compared with those of hexamethonium (C₆). In anesthetized dogs. intravenous injection of Vt (0.0.5~1.0 mg/kg)induced a dose-dependent decrease of SBP, DBP, HR, CI, LVSP, LV dp/dt_{max} LVWI and TPR. The coronary blood flow and coronary artery resistance were slightly reduced, while the blood flow of the internal carotid artery and femoral artery increased and their vascular resistance lowered. After injection, of Vt (1 mg/kg), a decrease of myocardial extraction of oxygen and myocardial oxygen, consumption were observed. In anesthetized cats, following intravenous injection of Vt and C₆ (2 mg/kg), the BP, LVSP and LVdp/dt_{max} were all decreased, but the LVdp/dt/p, CVP and LVEDP did not change. The effects of Vt were stronger and the duration of action was shorter than those of C₆. These results indicate that Vt may have beneficial hemodynamic effects for the treatment of hypertension.

Keywords: Hexamethonium, Hemodynamics Blood flow Verticillatine

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