

论文

心喘灵(XC-1)及其衍生物XC-2对麻醉犬血流动力学的作用

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摘要:

本工作比较研究了心喘灵(XC-1)及其衍生物XC-2(8204)对麻醉开胸犬心脏血流动力学的作用。用递加剂量法静注心喘灵0.5,1.0,2.0和4.0 mg/kg,每二个剂量之间的间隔为5 min,给药后MAP和LVP下降,HR减慢,CI和SI增加,TPR降低,冠状、颈内和股动脉血流增加,血管阻力下降,±LVdp/dt max增加,而LV dp/dt/p改变不明显,LVW,CVP和MVO₂无明显变化。用同法静注同样剂量XC-2的作用和心喘灵相似,但较弱;一次静注5 mg/kg也出现柑似但较弱的作用。它们的作用是通过阻断α和β受体及直接扩张血管所引起。

关键词: 心喘灵(XC-1) XC-2(8204) 心脏血流动力学 器官血流

EFFECTS OF XINCHUANLING(XC-1)AND ITS DERIVATIVE XC-2 ON CARDIAC HEMODYNAMICS IN DOGS

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Abstract:

The effects of Xinchuanling (XC-1)and its derivative,XC-2(8204), on the cardiohemodynamics were examined in 16 anesthetized open chest dogs. XC-1 was administered repeatedly by vein at 5 minutes intervals at the doses of 0.5, 1.0, 2.0 and 4.0mg/kg. The MAP, LVSP, ±LV dp\dt_{max}, HR and TPR decreased, the CI and SI increased while no significant changes in LVP, CVP, ±LV dp/dt/p and MVO₂ were observed. The blood flow of the left circumflex coronary, internal carotid and femoral artery increased transiently and the vascular resistance of these arteries decreased. The cardiohemodynamics induced by successive doses of XC-2 (0.5,1.0,2.0 and 4.0 mg/kg) were similar to those seen with XC-1. Intravenous injection of XC-2(5mg/kg) produced similar but milder effects as compared with the effects of Successive dosing. The effects of the two compounds on cardiovascular system may be due to direct relaxation of the vessels and blocking of the α and β adrenoceptors.

Keywords: Cardiac Haemodynamics Blood Flow Xinchuanling(XC-1)Xinchuanling-2(XC-2)

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