

论文

多培沙明对心肌缺血时大鼠心脏血液动力学的影响及其与非诺多泮和丙卡特罗效应的比较

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摘要:

用大鼠急性心肌缺血模型,研究新型多巴胺受体激动剂多培沙明(DPX)对急性心肌缺血时大鼠心脏血液动力学的影响,并与非诺多泮(FODA)和丙卡特罗(PCT)的效应作比较。结果表明,ivDPX可明显减轻缺血所致总外周阻力(TPR)和左室舒张末压的增高,+dp/dtmax的降低,而对平均动脉血压(MAP)无显著性影响。尽管FODA改善缺血所致TPR增高和心肌收缩力减弱的程度大于DPX,但它能明显降低MAP。提示DPX能明显降低TPR,轻度增加心肌收缩力改善心功能,而不降低MAP和不增加心肌耗氧量,因而用于缺血性心脏病的治疗可能有较好的应用前景。

关键词: 多培沙明 非诺多泮 丙卡特罗 心肌缺血 血液动力学

EFFECTS OF DOPEXAMINE ON CARDIAC HEMODYNAMICS DURING MYOCARDIAL ISCHEMIA IN RATS AND IN COMPARISON WITH FENOLDOPAM AND PROCATEROL

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Abstract:

The effect of dopexamine hydrochloride(DPX) on cardiac hemodynamics during acute myocardial ischemia(AMI) was studied in rats and compared with those of fenoldopam hydrochloride(FODA) and procaterol hydrochloride(PCT).The results showed that iv DPX remarkably attenuated the increases of total peripheral resistance(TPR) and left ventricular end diastolic pressure and the decreases of +dp/dt max caused by ischemia, while DPX showed no significant effect on mean arterial pressure(MAP). Although FODA was more potent than DPX in attenuating the increase of TPR and the decrease of myocardial contractility caused by ischemia, it significantly decreased MAP. The effects of PCT on all these variables were the smallest among the 3 agents.The results suggest that DPX has a better prospect in the treatment of ischemic heart disease in view of its actions of decreasing TPR, mild increase of myocardial contractility, without MAP decrease and myocardial oxygen consumption increase.

Keywords: Fenoldopam Procaterol Myocardial ischemia Hemodynamics Dopexamine

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