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论文

右旋糖酐与氟碳乳剂稀释血液对心肌缺血时全血粘度与侧支循环影响的比较

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摘要:

用麻醉开胸狗对比观察了低分子右旋糖酐与氟碳乳剂稀释血液对急性心肌缺血时全血粘皮与侧支血流量变化的影响。结果表明,氟碳乳剂稀释血液除具有与右旋糖酐稀释血液相同的降低全血粘度、增加侧支血流量、提高缺血区心肌供血量/需血量比值等作用外,还可使血氧分压与活性氧明显增加,因而使缺血区心肌供氧量增加。

关键词: 右旋糖酐 氟碳乳剂 心肌缺血 全血粘度 侧支循环

A COMPARATIVE STUDY OF THE EFFECTS OF HEMODILUTION WITH DEXTRAN AND FLUOROCARBON EMULSION ON THE CHANGES IN BLOOD VISCOSITY AND COLLATERAL FLOW DURING MYOCARDIAL ISCHEMIA

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Abstract:

A comparative study of the effects of hemodilution with dextran and fluorocarbon emulsion-Ⅲ (FCE-Ⅲ, 20% perfluorotripropylamine) on the changes in blood viscosity and collateral flow following coronary occlusion was performed on 14 anesthetized open-chest dogs. The results showed that, after hemodilution with FCE-Ⅲ, the blood viscosity was decreased by 41%, erythrocyte aggregating index decreased by 26.9% and collateral blood flow and supply/demand ratio increased significantly. These changes were the same as those resulted from hemodilution with dextran. In addition, hemodilution with FCE-Ⅲ exclusively increased PO_2 and dissolved oxygen and so increased oxygen supply to the ischemic myocardium.

Keywords: Fluorocarbon emulsion (FCE) Myocardial ischemia Blood viscosity Collateral blood flow Dextran

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1. 许丹枫;徐丽珠;林大锴;沙逸仙;贺玉珍;于海妮;竺安.临床用右旋糖酐的结构测定[J]. 药学学报, 1986,21(3): 204-207
2. 周如真;耿培侃.激光小角光散射仪测定右旋糖酐分子量[J]. 药学学报, 1989,24(8): 637-640
3. 王树岐;程玉华.弹性蛋白酶化学修饰的研究[J]. 药学学报, 1987,22(2): 126-129

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