

基础医学

川芎嗪对犬急性肺栓塞后血液流变学的影响

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摘要:

目的 探讨川芎嗪对犬急性肺栓塞(APE)后血液流变性的改善作用。方法 随机将成年健康杂种犬30只分为对照组和治疗组。复制犬APE模型, 治疗组于肺栓塞0.5h后开始以200mL/h速度静滴川芎嗪注射液5mg/kg(溶于5%葡萄糖注射液中), 对照组同时段静滴等量5%葡萄糖注射液。取T1-7 7个时相, 抽静脉血检测全血黏度、还原黏度、红细胞比积、刚性指数及聚集指数等血液流变学指标。结果 犬APE后全血黏度及还原黏度明显升高, 红细胞比积缓慢增大, 红细胞刚性指数和聚集指数升高。川芎嗪注射液可降低全血黏度及还原黏度, 对红细胞比积增大、刚性指数和聚集指数的升高有抑制作用。结论 犬APE后血液流变学发生变化, 川芎嗪可以改善血液流变学指标。

关键词: 狗; 肺疾病, 阻塞性; 血液流变学; 川芎嗪; 动物模型

Influence of ligustrazine therapy on hemorheology after acute pulmonary embolism-An experimental study in canis familiaris

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Abstract:

Objective To investigate the influence of ligustrazine on hemodynamic changes after the acute pulmonary embolism(APE) in canis familiaris. Methods 30 canis familiaris were randomly divided into 2 groups: the control group and the therapeutic group. The model of acute pulmonary embolism was established by injecting sludged blood into the pulmonary artery. Ligustrazine(5mg/Kg) was injected into vein in the therapeutic group with 200ml/h speed 30 minutes after the injection of sludged blood. 5%Glucose was used in the control group the same way as the therapeutic group. Seven phases were set: 15minutes before the injection, 0.5hour, 1hour, 2 hours,4 hours,8 hours and12 hours after the injection, recorded as T1,T2,T3, T4, T5, T6 and T7 respectively. The hemodynamics data were observed. Results Hemodynamic changes were observed after the establishment of acute pulmonary embolism model in canis familiaris. The circumfusion insufficiency of lung microcirculation could result in increases in the blood viscosity, the restore viscosity, the hematocrit, erythrocyte rigidity index and erythrocyte aggregation index. Ligustrazine could decrease the blood viscosity and the restore viscosity, and restrict the hematocrit, erythrocyte rigidity index and erythrocyte aggregation index. Conclusion Ligustrazine can improve hemodynamic changes after APE in canis familiaris.

Keywords: Dogs; Lung diseases, obstructive; Hemorheology; Ligustrazine; Models animal

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