

论文

眼针对大鼠脑缺血再灌注脑血流量及速度影响

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摘要:

目的 观察眼针对脑缺血再灌注模型(ICRI)大鼠脑皮层血流量及流速影响,探讨眼针治疗脑缺血性疾病的可能机制。**方法** 运用激光多普勒微循环测量仪检测缺血24 h模型大鼠大脑皮层组织血流量及血流速度;观察电镜下毛细血管管壁的结构变化。**结果** 模型组与眼针组大鼠大脑皮层组织血流量与血流速度分别为(63.28±8.84)、(169.38±19.89) PU和(18.98±6.75)、(57.43±28.84) mm/s,与模型组比较,眼针组大鼠大脑皮层组织的血流量明显升高、血流速度明显加快($P<0.01$);眼针组大鼠大脑皮层毛细血管的超微结构基本正常,模型组内皮细胞坏死、萎缩。**结论** 眼针能够增加ICRI模型大鼠脑皮层组织血流量,提高血流速度,改善毛细血管的内皮细胞结构。

关键词: 眼针 脑缺血再灌注模型(ICRI) 血流量 血流速度

Effect of eye acupuncture on cerebral blood flow and velocity in rats with ischemia-reperfusion

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Abstract:

Objective To observe the effect of eye acupuncture on cerebral blood flow and velocity in rats with cerebral ischemia reperfusion(ICRI)and to explore the mechanisms of eye acupunture treatment to cerebral ischencic diseases. **Methods** Laser Doppler microcirculation measurement instrument was used to measure blood flow and velocity of cerebnal cortex in rats 24 hours after cerebral ischemia.The structural changes in the capillary loops of the cortex was observed with electron microscope. **Results** The blood flow of cerebral cortex was 63.28±8.84 PU for ischemic model rats and 169.39±19.89 for the model rats with eye acupuncture,and the blood flow velocity was 19.98±6.75 mm/s for the model rats and 57.43±28.54 mm/s for the model rats with eye acupuncture,respectively,with significant defferences between the two groups($P<0.01$ for all).The ultrastructure of cerebral cortex capillary was normal for model rats with eye acupuntre but necrosis and atrophy of capillary endothelial cells were observed in cerebral ischemic model rats. **Conclusion** Eye acupuncture can increase blood flow and velocity of cortex tissue in rats with ICRI and improve ultrastructure of the capillary endothelial cells in rats with ICRI.

Keywords: eye acupuncture cerebral ischemia-reperfusion injury cerebral blood flow velocity of blood

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