



元胡止痛胶囊镇痛作用及机制研究

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中文摘要:目的:探讨元胡止痛胶囊的镇痛作用及机制。方法:采用大鼠三叉神经性头痛模型、硝酸甘油致大鼠实验性偏头痛模型、小鼠热板法试验、大鼠福尔马林法观察药物对疼痛反应的影响;观察药物对小鼠自主活动的影响;对三叉神经模型大鼠脑内单胺类递质的影响;以及药物对血脑模型血液流变学的影响,分析药物的镇痛作用机制。结果:元胡止痛胶囊可延长三叉神经性头痛模型大鼠出现疼痛反应的潜伏期,减少疼痛持续时间;腹腔皮下注射硝酸甘油在不同时间内引起的大鼠血管性偏头痛引起的反应;提高热板实验中小鼠痛阈值;显著减少福尔马林慢性疼痛模型大鼠第2时相疼痛反应时间;可显著降低正常小鼠5 mm内的自主活动计数;对脑内5-HT含量降低有一定的提高作用;降低血脑模型大鼠全血粘度。结论:元胡止痛胶囊具有明显镇痛作用,其镇痛机制与镇静、调节脑内神经递质分泌、改善血液循环有关。

中文关键词:元胡止痛胶囊 镇痛 血液流变学

Analgesic effects and mechanism of Yuanhuzhentong capsule

Abstract:Objective: To study the analgesic effects and mechanism of Yuanhuzhentong capsule. Method: The rats trigeminal nerve headache model, the migraine model caused by nitroglycerin, and the mice hot plate test. The rat formalin test were used to evaluate the analgesic effects. The effects on mice automatic activities, the content of monoamine neurotransmitters in rats trigeminal nerve headache model and the hemorheology in model of blood stasis were investigated to analyze the analgesic effects. Result: Yuanhuzhentong capsule can prolong the latency of the rats trigeminal nerve headache model and reduce the duration of pain. It can relieve the reaction caused by nitroglycerin in different times and increase the threshold in mice hot plate test. It can decrease obviously the response time of the chronicity pain model rat caused by formalin in second phase and also decrease the counts of automatic activities in 5 min. It can increase the content of 5-HT and decrease blood viscosity in blood stasis model rats. Conclusion: The results indicated that Yuanhuzhentong capsule has obvious analgesic effects, and the mechanism concerns with the sedation, adjusting the secretion of NT in brain and improving the blood circulation.

keywords: Yuanhuzhentong capsule analgesic effects hemorheology

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