



## MD-HPLC联用研究中药苏合香对西药舒必利脑药和血药浓度的影响

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**中文摘要:**目的:为了观察中药苏合香对联用西药舒必利血药与药浓度的影响,探讨苏合香开窍作用与增加胃肠屏障与血脑屏障通透性的关系,并研究苏合香与舒必利联用的相互作用。方法:大鼠连续口服用药1周后,进行脑部与颈部安装探针手术,平衡1 h后,利用血微透析法与脑微透析法分别在(30,60,90,120,150,180 min)各时间段采集大鼠右心房内血液与脑海马组织中的透析液,利用反相高效液相色谱系统检测样品中舒必利的含量,利用统计学方法比较2组给药后脑中及血液中的舒必利含量。结果:舒必利合用苏合香组的大鼠脑中和血中舒必利浓度明显高于单用舒必利组,单用舒必利组大鼠血中和脑中舒必利的浓度比值为1:0.2,舒必利与苏合香合用组血脑比增加为1:0.3,与单用舒必利组相比,舒必利与苏合香合用组的舒必利浓度上升39%,血液度上升69%。结论:苏合香能够明显增加舒必利在大鼠脑中和血中的浓度,说明苏合香能够促进舒必利透过胃肠屏障与血脑屏障,该研究从药理学角度揭示了苏合香“开窍”的机制是促进了胃肠屏障及血脑屏障通透性增加。

中文关键词: [苏合香](#) [舒必利](#) [微透析](#) [胃肠屏障](#) [血脑屏障](#) [高效液相色谱](#)

### Effect of storax on concentration of sulphiride in brain and blood by MD-HPLC

**Abstract: Objective:** To observe the effect of traditional Chinese medicine storax on the concentration of combined western medicine sulphiride in brain and blood, discuss the effect of storax in inducing resuscitation and increasing the permeability of the gastrointestinal barrier (GB) and the blood-brain-barrier (BBB), and explore the interaction between storax and sulphiride. **Method:** Rats were orally administered with the drugs for one week, probes were implanted in their brains and necks by surgery. After balance for 60 min, brain microdialysis and blood microdialysis were adopted for collect dialysates from blood in right atrum and cerebral hippocampus at time periods of 30, 60, 90, 120, 150, 180 min. The concentration of sulphiride in the samples was detected by RP-HPLC. Statistical approaches were adopted to compare the contents of sulphiride in brain and blood of the two groups. **Result:** The sulphiride combined with storax group showed a significant higher concentration of sulphiride than the pure sulphiride group. The pure sulphiride group showed a concentration ratio between sulphiride in brain and blood of 1:0.2; while the sulphiride combined with storax group increased the concentration ratio between sulphiride in brain and blood to 1:0.3. Compared with the pure sulphiride group, the sulphiride combined with storax group showed an increase of concentration by 39% in brain and 69% in blood. **Conclusion:** Storax can notably increase the concentration of sulphiride in rat brain and blood, indicating that it can increase the permeation of sulphiride through gastrointestinal barrier and BBB. This study reveals the mechanism of storax in inducing resuscitation by promoting the permeation through gastrointestinal barrier and BBB.

**keywords:** [storax](#) [sulpiride](#) [microdialysis](#) [gastrointestinal barrier](#) [blood-brain barrier](#) [HPLC](#)

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