

### 论文

## 丁基苯酞对蛛网膜下腔出血后脑血流的改善及血脑屏障的保护作用

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摘要:

侧脑室注入自体血液造成蛛网膜下腔出血模型,观察丁基苯酞(*dl*-NBP)对局部脑血流的改善作用及血脑屏障的保护作用。结果表明,*dl*-NBP 5~20mg·kg<sup>-1</sup>明显提高蛛网膜下腔出血后3h内尾状核的血流量,但无明显的剂量效应关系。0.25mg·kg<sup>-1</sup>的尼莫地平亦明显提高脑血流。并发现*dl*-NBP 10mg·kg<sup>-1</sup>及尼莫地平0.25mg·kg<sup>-1</sup>(分别于蛛网膜下腔出血后5min和3h)均能明显降低蛛网膜下腔出血6h后皮质组织中伊文氏蓝的摄取量,提示对血脑屏障有明显的保护作用。

关键词: 蛛网膜下腔出血 丁基苯酞 尼莫地平 脑血流 血脑屏障

### PROTECTIVE EFFECTS OF *DL*-3-*N*-BUTYLPHTHALIDE ON CHANGES OF REGIONAL CEREBRAL BLOOD FLOW AND BLOOD-BRAIN BARRIER AFTER SUBARACHNOID HEMORRHAGE

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Abstract:

Effects of *dl*-3-*n* butylphthalide(*dl*-NBP) on changes of regional cerebral blood flow (rCBF) and blood-brain barrier of rats subjected to subarachnoid hemorrhage (SAH) were investigated. Regional CBF was determined by hydrogen clearance method at 15 min before, 15 and 30 min thereafter once every 30 min up to 180 min after the beginning of SAH. The results showed that SAH produced a significant decrease in rCBF in caudate nucleus and blood-brain barrier damage which displayed increased extravasation of Evans blue to brain tissue. Both *dl*-NBP (5~20 mg·kg<sup>-1</sup> given intraperitoneally 5 min after the onset of SAH) and nimodipine (0.25 mg·kg<sup>-1</sup>) were shown to increase rCBF in caudate nucleus through 3 h of SAH. Moreover, *dl*-NBP 10 mg·kg<sup>-1</sup> and nimodipine 0.25 mg·kg<sup>-1</sup>, given 5 min and 3 h, respectively, after SAH, significantly reduced the brain extravasation of Evans blue 6 h after SAH, indicating that both *dl*-NBP and nimodipine has protective effects on blood brain barrier. These results suggest that *dl*-NBP has therapeutic effects on SAH.

Keywords: *dl*-3-*n*-Butylphthalide Nimodipine Regional cerebral blood flow Blood brain barrier Subarachnoid hemorrhage

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