

论文
丝瓜叶成分对脑缺血大鼠学习记忆障碍及皮层体感诱发电位的影响

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摘要:

目的:研究丝瓜叶成分L-6a 和L-10 对脑缺血大鼠学习记忆障碍及皮层体感诱发电位(SEP) 的影响。方法:用脑缺血大鼠模型,侧脑室注射(icv)给药,以穿梭箱主动回避反应(AAR) 测定学习记忆行为;用SYD₄₂₂₈ 型生理实验系统测定皮层体感诱发电位。结果:L-6a 0-5 mg·kg⁻¹ 显著促进脑缺血大鼠AAR的获得;0-25 mg·kg⁻¹ 时,无明显影响;L-6a 0-5 及0-25 mg·kg⁻¹ 均显著延缓AAR的消退;脑缺血后,L-6a(0-5 mg·kg⁻¹) 也减缓SEP波幅下降及其潜伏期延长;脑缺血再通后,L-6a 和L-10(0-5 mg·kg⁻¹)均加大SEP振幅增高,缩短其潜伏期。结论:L-6a 有显著促进脑障碍大鼠脑功能恢复的作用。

关键词: 丝瓜叶成分(L-6a,L-10) 脑缺血 学习记忆 皮层体感诱发电位(SEP)

EFFECTS OF CONSTITUENTS L 6a and L 10 FROM LEAVES OF *LUFFA CYLINDRICA* ROEM ON DI SFUNCTION OF LEARNING MEMORY AND SEP OF CEREBRAL ISCHMEIA RATS

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Abstract:

To study the effects of the constituents L 6a and L 10 from leaves of *Luffa cylindrica* Roem on learning memory disfunction and seduce electric potential (SEP) in cerebral ischemia rats. METHODS: The learning memory behavior was determined by active avoidance response (AAR) in shuttle box and the seduce electric potential (SEP) in cortical body sensation region was measured by SYD₄₂₂₈ physiological experiment system in model of cerebral ischemia rat after injecting experimental drugs in cerebral ventricle (icv). RESULTS: Treatment with L-6a at dosage of 0.5 mg·kg⁻¹ obviously promoted acquirement of AAR in cerebral ischemia rats ($P<0.05$) and at doses of 0.5 and 0.25 mg·kg⁻¹ obviously postponed the fading away of AAR ($P<0.05$). Treatment with L-6a (0.5 mg·kg⁻¹) was shown to relief the descent of SEP wave amplitude and the prolongation of SEP latent period after cerebral ischemia ($P<0.05$). When blood was poured into brain again, both L-6a and L-10 were shown to markedly amplify SEP wave amplitude ($P<0.05$) and shorten latent period of SEP. CONCLUSION: L-6a was found to obviously promote recovery of cerebral disfunction in rats.

Keywords: cerebral ischemia learning memory seduce electric potential (SEP) constituents of *Luffa cylindrica* Roem (L-6a and L-10)

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