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电针刺激对血管性痴呆大鼠学习记忆能力及大脑NO含量的影响 [点此下载全文](#)

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摘要:

目的: 观察电针刺激对血管性痴呆(VD)大鼠学习记忆能力及大脑氧化亚氮(NO)含量的影响。进一步讨论针灸治疗VD的机制, 为临床推广和显示中医治疗VD的优势提供有力的实验依据。方法: 实验中采取4-血管阻断法制备VD模型, 用Morris水迷宫测定大鼠学习记忆能力, 并用分光光度比色法测定其大脑中NO的含量。结果: 模型大鼠表现明显的学习记忆障碍, 在水迷宫实验中, 其潜伏期显著延长, 在原平台象限跨越平台次数与其余三个象限无显著差异; 其大脑NO水平明显升高。而电针组潜伏期较模型组明显缩短, 相同时间内跨越原平台次数明显多于其余三个象限; 其大脑NO含量较模型组大鼠显著降低。结论: 电针刺激能改善VD大鼠学习记忆能力, 并能显著降低其大脑NO含量, 具有逆转缺血性脑损伤后NO含量升高所致神经元损害过程, 可能最终减少血管性痴呆的发生。

关键词: [电针](#) [学习记忆能力](#) [氧化亚氮](#)

The influences of electro-acupuncture on learn and memory abilities and nitric oxide in cerebrum of vascular dementia rats [Download Fulltext](#)

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Abstract:

Objective: To observe the effect of electro-acupuncture on learn and memory abilities and nitric oxide in cerebral vascular dementia(VD) rats. Method: The VD rats were modeled with method of global ischemia reperfusion with 4 vascular occlusions(4-vo). Morris water tests were used for behavioral study. The nitric oxide in brain tissue was measured with spectrophotometry. Result: The model group animals needed more escape time than the control group, and they did not swim longer in platform quadrant crossing than in the others in the Morris water tests. The content of nitric oxide in cerebrum was higher than the others. In electro-acupuncture group, the animals cut the escape time mostly and they swam more times in platform quadrant crossing than in other three quadrants. The content of nitric oxide in cerebrum was obviously decreased. Conclusion: Electro-acupuncture can improve learn and memory ability, and it can also inhibit the increase of the nitric oxide in cerebrum which was concerned with the process of the damage of nerve cells of VD model rats, so it can reduce the occurrence of vascular dementia.

Keywords: [electro-acupuncture](#) [learn and memory abilities](#) [nitric oxide](#)

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