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[董莹](#) [马克宁](#) [卢晓维](#) [李兴志](#)

吉林大学第一医院康复疼痛科, 吉林长春, 130021

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摘要:

摘要目的: 通过观察热休克蛋白70(HSP70)在局灶性脑缺血中的表达, 探讨颈交感干离断(TCST)对局灶性脑缺血损伤的保护作用。方法: 建立大鼠永久的大脑中动脉闭塞(MCAO)模型, 以TCST模拟星状神经节阻滞(SGB), 以MCAO动物模型为基础, 观察TCST对其一般状态的影响; HE染色光镜观察各组大鼠术后不同时间点(术后第6、24、48及72小时)脑组织的形态学变化; 采用免疫组织化学方法检测脑组织的海马CA1区HSP70表达变化情况。结果: 颈交感干离断治疗可以显著改善局灶性脑缺血动物的一般状态, 改善缺血区的病理组织学变化。各组HSP70在局灶性脑缺血后第6小时表达开始增强, 第24小时达高峰, 后逐渐下降, 治疗组HSP70表达低于模型组。结论: TCST可以显著改善局灶性脑缺血动物的一般状态, 改善缺血区的病理组织学变化, 可以减少局灶性脑缺血后HSP70的表达, 具有神经保护作用。

关键词: [局灶性脑缺血](#) [颈交感干离断](#) [星状神经节阻滞](#) [热休克蛋白70](#)

Effects of transection of cervical sympathetic trunk on the expression of heat shock protein 70 and brain histopathology after focal ischemic damage in rats [Download Fulltext](#)

Dept. of Rehabilitation and Pain, The First Hospital of Jilin University, Changchun, 130021

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Abstract:

Abstract Objective: To study effects of transection of cervical sympathetic trunk(TCST) on the expression of heat shock protein 70(HSP70) and brain histopathology after focal ischemic damage in rats. Method: Ninety-six healthy Wistar rats (weight 250—300g) were recruited to establish the middle cerebral artery occlusion (MCAO) model by the ligation of right carotid artery. The focal ischemic brain tissues were sectioned and the cerebral pathological changes were observed at the 6thh, 24thh, 48thh, 72thh after MCAO respectively. The expressions of HSP70 in focal ischemic brain tissues at different time points after MCAO were assayed by immunohistochemistry. The neurological behavior defects of rats were assessed. Result: The expression of HSP70 was low in the common brain tissue. The expressions of HSP70 in the controlled and treatment group increased from the 6thh after MCAO, and reached their peaks at the 24thh after ischemia respectively. The expressions of HSP70 in treatment group were less than those in controlled group. Conclusion: TCST could lessen the neurological defects of animal models, ameliorate the pathological changes of ischemic brain tissues, reduce the expressions of HSP70. It possessed neuroprotective effect and was good for the rehabilitation of neurological function.

Keywords: [focal cerebral ischemia](#) [transection of cervical sympathetic trunk](#) [stellate ganglion block](#) [heat shock protein70](#)

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地址: 北京市和平街北口中日友好医院 邮政编码: 100029 电话: 010-64218095 传真: 010-64218095

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