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头穴丛刺对脑梗死大鼠脑内MMP-9变化的影响 [点此下载全文](#)

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摘要:

目的:通过观察头穴丛刺对脑梗死大鼠梗死灶周围基质金属蛋白酶-9(MMP-9)变化的影响,探讨头穴丛刺治疗脑梗死的作用机制。方法:将雄性Wistar大鼠60只随机分为模型组、头穴丛刺组各25只,假手术组10只,右颈内动脉插入线栓法建立大鼠大脑中动脉闭塞(MCAO)模型。参照Bederson评分标准,每组于术后第24小时、第3天、第7天、第14天、第21天各时间点进行行为学评分。结果:头穴丛刺组治疗第7天、第14天、第21天,大鼠的行为学评分较术后第24小时、第3天有较大改善,并明显优于模型组($P<0.05$)。头穴丛刺组及模型组在术后第24小时、第3天梗死灶周围MMP-9阳性细胞明显增多,第7天后均回落,在上述三个时间点比较,头穴丛刺组MMP-9表达水平低于模型组,两组比较有显著性意义($P<0.01$)。平均光密度值的比较与MMP-9阳性细胞数比较在头穴丛刺组和模型组间呈明显正相关。结论:头穴丛刺可明显改善脑梗死大鼠的神经功能,其机制可能是头穴丛刺降低早期梗死灶周围MMP-9的表达,从而减轻脑梗死早期血管源性脑水肿及脑组织的炎性损伤。

关键词: [头穴丛刺](#) [脑梗死](#) [基质金属蛋白酶-9](#) [大鼠](#)

The effect of scalp clustery acupuncture on MMP-9 in rats with cerebral infarction [Download Fulltext](#)

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Abstract:

Objective: To investigate the effect of scalp clustery acupuncture on matrix metalloproteinase-9(MMP-9) in rats after cerebral infarction, and to explore the mechanism of scalp clustery acupuncture on cerebral infarction damage. Method: Sixty male Wistar rats were randomly divided into the scalp clustery acupuncture group (25 rats), the model group (25 rats) and the sham group (10 rats). The animal model was made by blocking middle cerebral artery. Behavior scores of each group were recorded on the 1st, 3rd, 7th, 14th, and 21st days after operation. Result: Behavior scores on the 7th, 14th, and 21st d in scalp cluster acupuncture group were much better than those on the 1st, 3rd d, and were much better than model group($P<0.05$). MMP-9 positive cells around the cerebral infarction focus significantly increased on the 1st, 3rd d both in scalp cluster acupuncture group and model group and both decreased on the 7th d. The expression of MMP-9 in scalp clustery acupuncture group were lower than that in model group, and there was statistical difference between two groups($P<0.05$). MMP-9 positive cells became declining on the 14th and 21st d and there was no statistical difference between scalp clustery acupuncture group and model group($P>0.05$). Conclusion: The scalp clustery acupuncture can significantly improve neural functions in rats with cerebral infarction. Its mechanism may be reducing the early expression of MMP-9 around the cerebral infarction focus and decreasing the cerebral neural cells damage caused by inflammation and edema.

Keywords: [scalp cluster acupuncture](#) [cerebral infarction](#) [matrix metalloproteinase-9](#) [rats](#)

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