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针刺对缺血性脑卒中大鼠MBP基因表达的影响 [点此下载全文](#)

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摘要:

目的:从MBP基因表达水平来观察针刺对缺血性脑卒中大鼠受损髓鞘的神经保护作用。方法:选用48只成年雄性SD大鼠,随机分为正常组、模型组、早期针刺组、晚期针刺组。用线栓法制备局灶性脑缺血再灌注模型。分别于缺血后不同时间点进行针刺。应用半定量RT-PCR法、实时荧光定量PCR法对各组在实验开始后不同时间点缺血灶MBP基因转录水平进行动态观察。结果:①模型组缺血灶MBP mRNA的含量随着观察时间的延长逐渐升高,在第7天时明显升高($P<0.05$);②与模型组相比,针刺组在各个时间点的脑MBP mRNA含量随着时间的推移迅速增高($P<0.05$);③与晚期针刺组比较,早期针刺组脑MBP mRNA含量增高的幅度更高、速度更快($P<0.05$)。结论:脑缺血后,针刺可能是通过明显刺激MBP基因转录,使MBP合成增多,从而促进髓鞘再生。早期针刺更有利于刺激MBP基因的转录。

关键词: [针刺](#) [缺血性脑卒中](#) [大鼠](#) [髓鞘碱性蛋白](#) [基因表达](#)

The effect of acupuncture on MBP mRNA expression in ischemic stroke rats [Download Fulltext](#)

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Fund Project:

Abstract:

Objective: To observe neuroprotective effect of acupuncture on injured cerebral myelin in ischemic stroke rats from the expression of myelin basic protein (MBP) mRNA. Method: Forty-eight adult male Sprague-Dawley rats were employed in this study, and divided into normal, ischemia-reperfusion model, early acupuncture and late acupuncture groups by random digits table. Focal cerebral ischemia-reperfusion models were established with thread embolism method. Acupuncture was applied on different time points after ischemia. The expressions of MBP mRNA were observed continuously by RT-PCR and Real-time fluorescent quantitative PCR (FQ-PCR) techniques in all groups before operation and on different time points after operation respectively. Result:①In model group the expressions of ischemic focus MBP mRNA upregulated gradually, and ascended significantly on the 7th d($P<0.05$). ②Compared with model group, in acupuncture group the expressions of ischemic focus MBP mRNA ascended rapidly on different time points($P<0.05$). ③Compared with late acupuncture group, in early acupuncture group the expressions of ischemic focus MBP mRNA ascended higher and faster($P<0.05$). Conclusion: Acupuncture treatment could promote remyelination by stimulating transcription of MBP mRNA obviously and increasing the synthesis of MBP mRNA in ischemic focus after focal cerebral ischemia. Early acupuncture treatment could provide more beneficial effect to stimulate transcription of MBP mRNA.

Keywords: [acupuncture](#) [ischemic stroke](#) [rat](#) [myelin basic protein](#) [gene expression](#)

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