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探索学习对局灶性脑梗死大鼠梗死灶周围Flk-1、VEGF表达的影响 [点此下载全文](#)

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摘要:

目的: 研究探索学习对局灶性脑梗死大鼠梗死灶周围Flk-1、VEGF表达的影响。方法: 采用开颅电凝法制作SD大鼠右侧大脑中动脉缺血(MCAO)模型, 术后24h大鼠随机分为标准环境组(造模对照组, SE组)、探索学习环境(LE)组, 以免疫组织化学法检测血管内皮生长因子VEGF及血管内皮生长因子受体Flk-1的表达。结果: 大鼠大脑中动脉栓塞后, 梗死区神经元变性、坏死, VEGF和Flk-1在梗死周边区表达明显增加, 经探索学习环境干预后, VEGF和Flk-1表达大量增加。结论: LE可促使VEGF和Flk-1表达上调, 进而促进微血管新生, 利于脑损伤修复。

关键词: [探索学习环境](#) [脑梗死](#) [血管内皮生长因子](#) [血管内皮生长因子受体](#)

Influence of learning on VEGF and Flk-1 expressions in the boundary zone of cerebral infarction region of rats after unilateral local cerebral infarction [Download Fulltext](#)

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Abstract:

Objective: To observe the influence of learning on vascular endothelial growth factor(VEGF) and Fms-like tyrosine-1(Flk-1) expressions in the boundary zone of cerebral infarction region of rats after unilateral local cerebral infarction. Method: After the models of right middle cerebral artery occlusion (MCAO) were established with electric coagulation, the models of SD rats were randomly divided into learning environment stimulation group(LE) and control group (standard environment stimulation group, SE). The expressions of VEGF and Flk-1 in the boundary zone of cerebral infarction region were measured at the 1st d, 3rd d, 7th d, 14th d and 28th d after operation. Result: After MCAO operation, degeneration and necrosis of neurons in the infarction region were found both in LE group and SE group. The expression of VEGF and Flk-1 around the infarct regions in LE group were significantly higher than those in SE group at all time points. Conclusion: Learning environment stimulation can promote the upregulation of expressions of VEGF and Flk-1, and accelerate the microvessel proliferation and brain injury recovery in rats after unilateral local cerebral infarction.

Keywords: [learning environment](#) [cerebral ischemia](#) [vascular endothelial growth factor](#) [vascular endothelial growth factor receptor](#)

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