

论著

雷公藤内酯醇对大鼠脑局灶性缺血再灌注后脑组织肿瘤坏死因子- α 含量变化的影响

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摘要 目的 观察雷公藤内酯醇(TL)是否通过降低脑组织内肿瘤坏死因子(TNF- α)含量而减少白细胞浸润, 从而改善局灶性脑缺血再灌注所致的神经功能缺失。方法 大鼠ip TL 0.2或0.4 mg \cdot kg⁻¹ \cdot d⁻¹, 连续4 d。d 4给药前行右侧大脑中动脉缺血1 h再灌注24 h。行为观察行大鼠神经功能缺损评分; 放射免疫法检测缺血再灌注侧大脑皮层TNF- α 含量。病理切片观察缺血再灌注侧脑微血管内附壁中性粒细胞计数。结果 与损伤模型组比较, TL处理组大脑皮质TNF- α 含量明显减少, 神经功能受损程度明显改善。脑微血管内附壁中性粒细胞计数明显减少。结论 TL有抑制缺血再灌注脑组织内TNF- α 生成, 降低其含量的作用, 从而抑制白细胞浸润, 改善受损的神经功能。

关键词 [雷公藤内酯醇](#) [脑缺血](#) [再灌注损伤](#) [肿瘤坏死因子- \$\alpha\$](#)

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Influence of triptolide on content of tumor necrosis factor alpha in rats with cerebral injury after focal ischemia reperfusion

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Abstract

AIM To study whether the improving effect of triptolide (TL) on deficit of neural function in rats with cerebral injury after focal ischemia-reperfusion by reducing the content of tumor necrosis factor- α (TNF- α) in cerebral tissue that inhibiting the infiltration of neutrophil in the cerebral tissues. **METHODS** TL 0.2 or 0.4 mg \cdot kg⁻¹ \cdot d⁻¹ was injected ip for 4 d. At d 4 before the last dose of TL injection, the focal cerebral ischemia-reperfusion model was established with thread embolism of right middle cerebral artery before TL injection at d 4. At the end of 24-h reperfusion after 1-h focal cerebral ischemia, neurological deficit score of rats was evaluated; radioimmunoassay was used to measure content of TNF- α in cortex; histological techniques were used to count leukocyte accumulation and adhesion in microvessels of cerebral tissue. **RESULTS** Compared with the ischemia reperfusion group, the content of TNF- α was significantly reduced, the deficit of neural function was markedly improved, and the accumulation of leukocyte in microvessels was remarkably reduced in two TL-treated groups. **CONCLUSION** TL may reduce the content of TNF- α in cortex with focal cerebral ischemia reperfusion in rats, and inhibit the infiltration of neutrophil in the cerebral tissues of rats.

Key words [triptolide](#) [cerebral ischemia](#) [reperfusion injury](#) [tumor necrosis factor- \$\alpha\$](#)

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