

论文

脑出血患者微创血肿清除术后血清IL-6及MMP-9的动态观察

于兆昂, 崔元孝, 张清华, 田敏, 唐茜茜

山东大学附属省立医院神经内科, 济南 250021

摘要:

目的 研究微创血肿清除术治疗脑出血患者过程中血清白细胞介素-6 (IL-6) 及基质金属蛋白酶-9 (MMP-9) 的动态变化, 并对微创术的疗效进行评价。方法 脑出血微创术患者及非手术患者各30例, 采用酶联免疫吸附法分别于入院时及发病后2、7、14d测定血清IL-6及MMP-9的含量, 分析微创术对脑出血患者二者表达水平动态变化的影响。结果 脑出血患者发病后6h内血清MMP-9和IL-6水平增高, 在2d时血清MMP-9和IL-6水平均达到高峰, 对照组升高幅度不明显 (P<0.05), 微创组在7、14d血清MMP-9和IL-6下降明显 (P<0.05), 而对照组则维持较高水平, 微创组临床疗效明显优于对照组 (P<0.01)。结论 微创术后血清IL-6和MMP-9含量显著降低, 可作为评价脑出血微创术治疗效果的生物学指标。

关键词: 脑出血; 白细胞介素 6; 明胶酶B; 微创清除术

Dynamic observation of serum interleukin 6 and matrix metalloproteinase-9 in patients with cerebral hemorrhage after minimally invasive hematoma aspiration

YU Zhao ang, CUI Yuan xiao, ZHANG Qing hua, TIAN Min, TANG Qian qian

Department of Neurology, Shandong Provincial Hospital Affiliated to Shandong University, Jinan 250021, China

Abstract:

Objective To study the dynamic changes of serum interleukin -6 and matrix metalloproteinase -9 in patients with cerebral hemorrhage after minimally invasive surgery(MIS), and to assess the efficacy of minimally invasive surgery. Methods Blood samples were obtained on the admission day and days 2, 7 and 14 after the onset from 30 patients with MIS and 30 patients with non-minimally invasive surgery (NMIS). Serum IL-6 and MMP-9 were detected by enzyme linked immunosorbent assay(ELISA). Results Serum MMP-9 and IL-6 levels increased within 6h after onset in patients with cerebral hemorrhage. Both groups reached the peak on day 2, but the control group increased more significantly. The IL-6 and MMP-9 levels were decreased significantly on days 7 and 14 in the operation group. The results also showed that the clinical efficacy in the minimally invasive group was better than that in the control group. Conclusion Minimally invasive surgery can decrease the serum levels of IL-6 and MMP-9. Serum IL-6 and MMP-9 can be used as the biomarkers for prognosis and outcome in patients with MIS.

Keywords: Cerebral hemorrhage; Interleukin-6; Gelatinase B; Minimally invasive hematoma aspiration

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通讯作者: 崔元孝 (1966- ),男, 主任医师, 硕导, 主要从事脑血管病及癫痫的研究

作者简介: 于兆昂 (1978- ),男, 主治医师, 硕士研究生, 主要从事脑血管病的研究。 E-mail:

yuzhaoang@163.com

作者Email:

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