

论文

溃疡性结肠炎患者血清中VEGF、NO的表达及其相互关系

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摘要:

目的 本研究旨在探讨一氧化氮(NO)和血管内皮生长因子(VEGF)在溃疡性结肠炎(UC)发生发展中的关系。方法 根据UC患者病情程度分为活动组(n=44)和缓解组(n=16),并以健康查体者编成对照组(n=20)。取清晨空腹血液以检测其内VEGF、NO及白细胞(WBC)、血小板(PLT)的含量。结果 UC活动组中血液的VEGF、NO均明显高于缓解组(P<0.001)和对照组(P<0.001),而缓解组与对照组间无统计学差异(P>0.05)。在活动组中,VEGF与NO存在正相关性(r=0.48,P<0.01),而在对照组中则无相关性(r=0.179,P>0.05)。另外,在活动组中,WBC计数超出正常参考值范围的患者只占22.7%,而PLT也仅占31.8%。但总体而言,活动组血液中WBC、PLT与对照组及缓解组相比,均有统计学差异(P<0.001或P<0.01)。结论 在UC疾病的发生发展中,VEGF与NO可能有协同作用。

关键词: 结肠炎, 溃疡性; 血管内皮生长因子; 一氧化氮

Expressions of serum VEGF and NO and their correlation in patients with ulcerative colitis

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Abstract:

Objective To research the correlation of VEGF and NO in the genesis and development of ulcerative colitis. Methods According to the severity of ulcerative colitis, the patients were divided into the active group(n=44) and the remission group(n=16), while the healthy examiners were compiled into the control group(n=20). Early morning fasting blood was taken to test levels of vascular endothelial growth factors (VEGF), nitric oxide (NO), white blood cell (WBC) and platelet count (PLT). Results Levels of VEGF and NO in the active group were significantly higher than in the remission group(P<0.001) and the control group(P<0.001), while there were no significant differences(P>0.05) between the remission group and the control group. In the active group, there was a positive correlation (r=0.48, P<0.01) between VEGF and NO, while there was no correlation in the control group (r=0.179, P>0.05). In addition, in the active group, the patients whose WBC and PLT counts were beyond the normal reference accounted for only 22.7% and 31.8% respectively. Overall, WBC and PLT levels were significantly different in the active group compared with the control group (P<0.001 or P<0.01). Conclusion VEGF and NO may have synergistic effect in the occurrence and development of ulcerative colitis.

Keywords: Colitis, ulcerative; Vascular endothelial growth factors; Nitric oxide

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