

论文

IL-17在子痫前期患者胎盘组织和外周血中的表达

田美荣¹, 马玉燕¹, 王磊^{1,2}, 范月莲¹, 刘振平²

山东大学齐鲁医院 1.妇产科; 2.基因室, 济南 250012

摘要:

目的 探讨白细胞介素-17 (IL-17)和Th17细胞与子痫前期发病的关系。方法 选取32例重度子痫前期患者为子痫前期组, 30例正常晚期妊娠孕妇为对照组。采用实时定量PCR方法检测两组胎盘组织IL-17 mRNA 表达水平; 酶联免疫吸附试验双抗体夹心 (ELISA) 法检测外周血血清IL-17、白细胞介素-6 (IL-6)、肿瘤坏死因子-α (TNF-α) 的浓度。结果子痫前期组胎盘IL-17 mRNA表达量较对照组升高 (P<0.05); 子痫前期组外周血血清IL-17、IL-6、TNF-α水平均高于对照组 (P<0.01、P<0.05、P<0.01); 子痫前期组外周血中IL-17与IL-6的表达水平呈正相关 (r=0.402, P<0.05)。结论 IL-17和Th17细胞介导了子痫前期的发生, 其过程可能与IL-6和TNF-α的参与有关。

关键词: 白细胞介素类; Th17 细胞; 子痫前期; 肿瘤坏死因子-α

Expression of interleukin-17 in placenta and peripheral blood of patients with preeclampsia

TIAN Mei rong¹, MA Yu yan¹, WANG Lei yi², FAN Yue Lian¹, LIU Zhen ping²

1. Department of Obstetrics and Gynecology; 2. Department of Gene Laboratory, Qilu Hospital of Shandong University, Jinan 250012, China

Abstract:

Objective To investigate the relationship of IL-17 and Th17 cells with preeclampsia. Methods Thirty-two patients with severe preeclampsia and thirty normal pregnant women as controls were investigated. ① Expression of IL-17 mRNA in placental specimens was detected by real-time PCR; ② Concentrations of IL-17, IL-6 and TNF-α in serum were measured by ELISA. Results Compared with the control group, expression of IL-17 mRNA was higher in preeclampsia placentas (P<0.05); levels of IL-17, IL-6 and TNF-α in maternal serum were higher in the preeclampsia group than in the controls (P<0.01, P<0.05, P<0.01 respectively); the preeclampsia group, there was a positive correlation between IL-17 and IL-6 (r=0.402, P<0.05). Conclusions IL-17 and Th17 cells may contribute to the pathogenesis and pathophysiology of preeclampsia. IL-6 and TNF-α may also be involved in the process.

Keywords: Interleukins; Th17 cell; Preeclampsia; Tumor necrosis factor-α

收稿日期 2009-12-26 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 马玉燕 (1965-), 女, 教授, 主要从事围产医学的研究。 E-mail: yuyanma65@163.com

作者简介: 田美荣 (1979-), 女, 硕士研究生, 主要从事围产医学的研究。

作者Email:

参考文献:

本刊中的类似文章

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF (352KB)
- ▶ [HTML全文]
- ▶ 参考文献[PDF]
- ▶ 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

本文关键词相关文章

- ▶ 白细胞介素类; Th17 细胞; 子痫前期; 肿瘤坏死因子-α

本文作者相关文章

PubMed