

论文 类风湿关节炎与肿瘤坏死因子受体 II 196位点多态性相关性的Meta分析

葛勇鹏,杨清锐,张源潮

山东大学附属省立医院风湿免疫科, 济南 250021

摘要:

目的 探讨类风湿关节炎(RA)与肿瘤坏死因子受体II 196(TNFR II 196)基因位点多态性的关联情况。方法 检索已发表有关RA和TNFR II 196基因位点多态性的文献进行Meta分析。结果 有9篇文献入选,共纳入2140例RA患者(RA组)和1297例健康者(健康对照组)。综合分析显示RA与TNFR II 196位点等位基因及TG、GG基因型不存在关联,OR值、95%CI和P值分别为1.11, (0.91, 1.34), P=0.32; 1.38, (0.97, 1.98), P=0.07; 1.09, (0.93, 1.27), P=0.31。家族性RA与TNFR II 196位点等位基因及GG基因型存在关联,OR值、95%CI和P值分别为1.43, (1.11, 1.86), P=0.006; 2.68, (1.39, 5.17), P=0.003; 家族性RA与TNFR II 196TG基因型不存在关联,OR=1.00, 95%CI (0.71, 1.39), P=0.98。散发性RA与TNFR II 196位点等位基因及GG、TG基因型不存在关联,OR值、95%CI和P值分别为1.13, (0.89, 1.44), P=0.32; 1.44, (0.75, 2.76), P=0.27; 1.03, (0.76, 1.39), P=0.86。结论 Meta分析显示TNFR II 196基因位点多态性与RA患者不具有关联, TNFR II 196位点等位基因及GG基因型可能与家族性RA患者存在关联,与散发性RA无相关性。

关键词: 类风湿关节炎; 多态现象(遗传学); 肿瘤坏死因子受体II; Meta分析

Association between rheumatoid arthritis and tumor necrosis factor receptor II - 196 site polymorphism: the Meta analysis

GE Yong peng, YANG Qing rui, ZHANG Yuan chao

Department of Rheumatology and Immunology, Provincial Hospital Affiliated to Shandong University, Jinan 250021, China

Abstract:

Objective To investigate the association between the tumor necrosis factor receptor II position 196 (TNFR II 196) gene polymorphism and patients with rheumatoid arthritis (RA). Methods We performed a meta analysis of the published literatures on the TNFR II position 196 gene polymorphism and RA. Results A total of nine literatures involving 2140 cases and 1297 controls were included. Comprehensive analysis showed that there was no association between TNFR II 196 alleles, TNFR II 196TG, GG genotype and RA, (OR=1.11; 95% CI=0.91-1.34; P=0.32 for TNFR II 196 alleles; OR=1.38; 95% CI=0.97-1.98; P=0.07 for TNFR II 196TG genotype; and OR=1.09; 95% CI=0.93-1.27; P=0.31 for TNFR II 196GG genotype. However, an association between TNFR II 196 alleles and TNFR II 196GG genotype and familial RA was found (OR=1.43; 95% CI= 1.11-1.86; P=0.006 for TNFR II 196 alleles and OR=2.68; 95% CI=1.39-5.17; P=0.003 TNFR II 196GG genotype, respectively), but not between TNFR II 196TG genotype and familial RA (OR=1.00; 95% CI=0.71-1.39; P=0.98). Finally we found no association between the TNFR II 196 alleles, TNFR II 196GG, TG genotype and Sporadic RA (OR=1.13; 95% CI=0.89 1.44; P=0.32 for TNFR II 196 alleles; OR=1.44; 95% CI= 0.75-2.76; P=0.27 for TNFR II 196GG genotype; and OR=1.03; 95% CI=0.76-1.39; P=0.86 for TNFR II 196TG genotype). Conclusions This Meta-analysis suggested that there was no association between the TNFR II position 196 gene polymorphism and RA, but the TNFR II 196 alleles and the GG genotype might be associated with familial not sporadic RA.

Keywords: arthritis, rheumatoid; Polymorphism(genetics); Tumor necrosis factor Receptor II; Meta analysis

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通讯作者: 张源潮(1951-), 男, 教授, 博士生导师, 主要从事风湿免疫病的基础和临床研究。 E-mail: qryang720@163.com

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作者简介: 葛勇鹏 (1983-), 男, 硕士研究生, 主要从事强直性脊柱炎和类风湿关节炎发病机制的研究。

作者Email:

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