

论文

TNF受体封闭肽对大鼠佐剂性关节炎的影响

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摘要:

目的观察肿瘤坏死因子(TNF)受体封闭肽对大鼠佐剂性关节炎的影响。方法注射弗氏完全佐剂建立大鼠佐剂性关节炎模型,在关节局部注射TNF受体封闭肽,观察对大鼠关节肿胀度、关节组织病理改变及腹腔巨噬细胞表达IL-1β mRNA和TNF-α mRNA(RT-PCR)的影响。结果建立了与人类类风湿性关节炎极其相似的大鼠佐剂性关节炎模型;TNF受体封闭肽治疗10 d后,大鼠踝关节肿胀完全受到抑制;关节组织内炎症细胞浸润减少,炎性病理损伤明显减轻;大鼠腹腔巨噬细胞表达的TNF-α mRNA和IL-1β mRNA明显减低。结论TNF受体封闭肽通过抑制佐剂性关节炎TNF-α和IL-1的产生,而发挥抗炎作用,明显减轻关节的病理性损伤,有效抑制关节炎的临床进程。

关键词: 肿瘤坏死因子-α TNF受体封闭肽 佐剂性关节炎 类风湿性关节炎

Effects of TNF-α receptor blocking peptide on adjuvant arthritis in rats

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Abstract:

AimTo study the effects of TNF receptor blocking peptide on adjuvant arthritis in rats. MethodsThe model of rat adjuvant arthritis was induced by injection of complete Freund's adjuvant. The TNF receptor blocking peptide was injected locally in the ankle. The ankle swelling, the pathologic changes in the ankle joint and the expression of IL-1β mRNA and TNF-α mRNA by peritoneal macrophages (RT-PCR) were observed. ResultsThe model of rat adjuvant arthritis induced by injection of complete Freund's adjuvant was similar to human rheumatoid arthritis. The treatment with TNF receptor blocking peptide for 10 days resulted in complete inhibition of joint swelling, a decrease in infiltration of inflammatory cell into joint tissue, an obvious alleviation of inflammatory pathological damages and an apparent decline of TNF-α mRNA and IL-1β mRNA of peritoneal macrophages of rats. ConclusionThe TNF receptor blocking peptide can protect the joint from inflammatory damage induced by adjuvant arthritis by suppression of TNF-α and IL-1 production, thereby alleviating the pathological injury of joint and controlling effectively the clinic course of arthritis.

Keywords: TNF receptor blocking peptide adjuvant arthritis rheumatoid arthritis TNF-α

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