

— **Sat-127** —

**Interleukin-17 upregulated the expression of receptor activator of NFκB ligand (RANKL)  
in collagen-induced arthritis**

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**Objectives.** To investigate the effects of interleukin-17 on expression of receptor activator of NFκB ligand (RANKL) at knee joint synovium in collagen induced arthritis (CIA).

**Methods.** Reverse transcription-polymerase chain reaction (RT-PCR) and immunohistochemical stain(IHS) were performed to study the expression of RANKL in knee joint synovium of CIA with injection of IL-17.

**Results.** In IHS, RANKL expression was upregulated by IL-17 injection at knee joint synovial fibroblasts. In RT-PCR of knee joint synovium, RANKL expression was also upregulated by IL-17 injection.

**Conclusion.** In CIA, IL-17 induced bone destruction may be result from upregulation of RANKL expression at synovial fibroblasts.

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**Interleukin-17 upregulated the expression of vascular endothelial growth factor  
in collagen-induced arthritis**

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**Objectives.** To investigate the effects of interleukin-17 on expression of vascular endothelial growth factor at knee joint synovium in collagen induced arthritis (CIA).

**Methods.** Reverse transcription-polymerase chain reaction (RT-PCR) was performed to study the expression of VEGF in knee joint synovium of CIA with injection of IL-17.

**Results.** In RT-PCR of knee joint synovium, VEGF expression was upregulated by IL-17 injection.

**Conclusion.** IL-17 upregulated VEGF expression and this result suggests IL-17 play a role in angiogenesis in CIA.