

## عنوان مقاله:

Relation between Cytokines and Brucella Arthritis, Spondylitis, and Sacroiliitis

## محل انتشار:

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## خلاصه مقاله:

**Background and Objectives:** Cytokines are produced and secreted from various cells, including T cells. Cytokines play an effective role in the responses elicited by the immune system. As brucella infection cause is an intracellular aerobic rod, cellular immunity has a considerable effect on this disease. The aim of the present study was to evaluate the relation between cytokines and brucellosis arthritis, spondylitis, and sacroiliitis. **Materials and Methods:** This descriptive case-control study was carried in two tertiary hospitals in Mashhad, Iran in 2010. The study population consisted of a case group, including the patients with the diagnosis of brucella arthritis with lower back pain and a control group, including normal healthy participants. The brucellosis was investigated regarding the history, physical examinations, and serologic examinations. The interferon gamma (IFN $\gamma$ ), interleukin 2 (IL-2), interleukin 4 (IL-4), interleukin 10 (IL-10), and tumor necrosis factor alpha (TNF $\alpha$ ) were measured in the serum samples of both groups using enzyme-linked immunosorbent assay technique. **Results:** The IL-10 had a significant difference in the brucella and control groups ( $P=0.02$ ). However, IL-2, IL-4, and the TNF $\alpha$  were comparable between brucella and control groups ( $P=0.1$ ). There was a significant difference between the IFN $\gamma$  and brucella in the control group ( $P=0.05$ ). **Conclusion:** The IFN $\gamma$  and IL-10 levels were higher in brucella group than those in control group.

## کلمات کلیدی:

Cytokines, Brucella, arthritis, spondylitis, sacroiliitis

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