

عنوان مقاله:

Evaluation of Serum Hcpidin Levels and its Relation to Inflammatory Acute- Phase Proteins and Disease Progress in Patients with Rheumatoid Arthritis

محل انتشار:

مجله علمی پژوهشی دانشگاه علوم پزشکی زنجان, دوره 19, شماره 76 (سال: 1390)

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نویسندگان:

سوسن کلاهی - *Dept. of Internal Medicine, Faculty of Medicine, Drug Applied Research Center, Tabriz University of Medical Sciences, Tabriz, Iran*

امیر قربانی حقجو - *Faculty of Medicine, Drug Applied Research Center, Tabriz University of Medical Sciences, Tabriz, Iran*

مرضیه جنگی قره قشلاقی - *Tabriz University of Medical Sciences, Tabriz, Iran*

خلاصه مقاله:

Background and Objectives: Rheumatoid arthritis (RA) disease is a common inflammatory arthritis associated with joint destruction, motor disorder, and decreased life span. Hcpidin is an acute phase reactant protein which increases in inflammatory conditions mediated by IL-6 and its concentration elevates within the cell through regulating iron metabolism. The aim of this study was to evaluate the serum hcpidin and its association with acute -phase proteins and disease activity in patients with rheumatoid arthritis. **Materials and Methods:** In this case control study, 45 women with rheumatoid arthritis without prior therapy and 45 healthy individuals were investigated. After the physical examination and assessment of the disease activity based on DAS28-3(CRP) questionnaire, serum levels of hcpidin, TNF- α , hsCRP, ferritin, hemoglobin, and MDA (Malondialdehyde) were determined. **Results:** Serum levels of hcpidin, MDA, TNF- α and high-sensitivity C-reactive protein (hsCRP) were higher in RA patients than the control group ($P=0.028$, $P=0.001$, $P=0.001$, $P=0.014$). Hcpidin and MDA levels did not correlate with the disease activity scores and TNF- α , hcCRP, and hemoglobin levels in the RA group. Hcpidin was significantly correlated with the serum levels of ferritin higher than 60 Ng/MI ($r=0.57$, $P=0.031$). **Conclusion:** It can be concluded that serum hcpidin and ferritin concentrations could be a useful laboratory marker in confirmatory diagnosis of anemia and atherosclerosis in patients with rheumatoid arthritis.

کلمات کلیدی:

Rheumatoid arthritis, Hcpidin, Ferritin

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