## LEPTIN SERUM LEVELS IN PATIENTS AFFECTED BY SERONEGATIVE ARTHRITIS

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Leptin has an important role in the regulation of body weight and modulates immunity and inflammation. A positive feedback mechanism has been described between tumor necrosis factor and leptin, and it has been suggested that leptin potentiates inflammation in patients with rheumatoid arthritis.

Aims of this study are to evaluate leptin serum concentration in patients affected by seronegative arthritis and to compare the results with the ones obtained by healthy population.

40 patients have been recruited affected by seronegative arthritis (M:F=14:26) with an aller age are of 54,4 years (range 18-80), average disease duration of 3,5 years (range 1-6). Lettin concentration has been measured by ELISA method both in patients the vin healthy population of 30 subjects equally divided between male and female and with same average. The difference hetween the two considered groups has been analyzed using Stories ast.

Leptin medium concentration has been 10,701 ng/mi w in SD 1,716; while 5,358 ng/ml with SD 2,286 in healthy population. The cliff at time between the two collisted groups is significant t=4,661, p<0,0001.

The increase in eptin production during in it min at on suggests that leptin is part of the cytokine cascade which jove us the inflammatory innuite response and the host defense mechanism. However, both pro and anti-inflammatory effects have been described for leptin according to the experimental model investigated. New studies with other variables will be indispensable for explaining the obtained result.