

This study was conducted to investigate the serum level of C-reactive protein, erythrocyte sedimentation rate, creatinine, glomerular filtration rate, tumor necrosis factor- α (TNF- α) and interleukin-6 (IL6) in rheumatoid arthritis patients associated with renal impairment treated with antiTNF- α . This study included two groups; 54 patients with rheumatoid arthritis treated with Etanercept (Enbrel) 50mg and 58 patients with rheumatoid arthritis on treatment other than Anti TNF- α as a comparative group. The results showed that renal function tests of rheumatoid arthritis patients who received Anti TNF- α were different, before and after treatment. A "significant decrease in the value of creatinine and in the level of GFR after 6 months of treatment was observed ($P \leq 0.0001$). The erythrocyte sedimentation rate, C-reactive protein, interleukin-6 and TNF- α increased in rheumatoid arthritis patients with renal disorders before biologic therapy compared with the comparison group who were on treatment other than Anti TNF- α . Following the administration of Anti TNF- α therapy. These inflammatory parameters were significantly diminished in the rheumatoid arthritis patients after the therapy. The treatment with Anti TNF- α seems to be a factor in restoring the levels of the inflammatory immune markers.