

This study was designed to investigate the serum level of thyroid-stimulating hormone, thyroxine, triiodothyronine, interleukin-6 and tumour necrosis factor- α in hypothyroidism patients, and to reveal their relationship with serum zinc level in 27 patients with hypothyroidism, and 27 control group. The results disclosed that serum zinc, interleukin-6 and tumour necrosis factor- α levels in hypothyroidism patients are significantly lower ($p < 0.05$) than the control group. While serum thyroid stimulating hormone level, was significantly higher in hypothyroidism patients than the control ($p < 0.05$). After zinc administration, the patients group showed a significant increase in interleukin-6 and tumour necrosis factor- α level ($p < 0.05$) in comparison with control group.