Serum Zn Concentration, IgG and IgA Immunoglobulin Levels and Middle-Aged Healthy Iranian Females

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Abstract

Zn concentration in a group of 50 middle aged (40-51 years) female patients was determined. Then possible low serum zinc effects on the age and the immunoglobulin (Ig) levels particularly those of the IgG and IgA classes were studied. Out of 50 female patients, 26 (52%) presented low serum Zn level with the range of (0.58-0.69 µg/ml) and 24 (48%) had normal serum Zn level with the range of (0.80-0.98 µg/ml). However, IgA and IgG among patients were in the normal range. Pearson product moment correlation indicated a significant relationship only for age and low serum Zn level (r = 0.43, p<0.03). Further clinical trials on zinc at this age range of healthy female population could bring valuable information on zinc participation in humoral immunity and its relationship to age.