

Serum selenium levels in selected types of psoriasis patients in Pakistan

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Abstract

Objectives: To estimate the micronutrient selenium level in the serum samples of the psoriatic patients of both genders from different areas of Pakistan.

Material and Methods: The serum samples were collected from patients and healthy subjects of same. Age and gender groups for comparative study. Serum samples were oxidized by 60% nitric acid and 70% hypochloric acid. The serum selenium (Se) concentration was measured using HGAAS (hydride generation atomic absorption spectrophotometer HS-55 batch system). Mean \pm SD of serum Se levels ($\mu\text{g/L}$) were 82 ± 1.8 and 108 ± 1.3 in patients and controls respectively. T-test and One-Way ANOVA were applied. This case control study was carried out in Bannu University of science and technology Pakistan with the collaboration of Govt. Sifat Ghayur Shaheed memorial children hospital Peshawar Pakistan, NIH (National institute of medical sciences) and National Physical Standard Laboratory PCSIR Islamabad from April 2013 to April 2015.

Results: In psoriatic patients serum Se level was significantly lower than that of healthy controls



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