

Estimation of Serum Levels of Heat Shock Proteins (HSP) – 70 in Patients with Oral Dysplastic Lesions of Leukoplakia

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Abstract

Background: This study was done to estimate the serum levels of Heat shock proteins (HSP) – 70 in patients with oral dysplastic lesions of leukoplakia. **Methods:** 87 patients having clinically leukoplakia and histologically proved dysplasia were taken for the study. The histological dysplastic grades were based on WHO classification of the dysplasia. Only patients with moderate and severe dysplasia were considered for the study. Serum HSP -70 levels were assessed by colorimetric sandwich ELISA test according to the manufacturer's instructions. **Results:** On comparison of the controls and dysplasia patients HSP-70 levels in serum samples, it was found that the difference was statistically significant. **Conclusion:** In the present study, HSP-70 activity was significantly higher in oral dysplastic (Leukoplakia) group than in the control group. Further studies with larger sample size and with distribution of different grades of dysplasia are required to substantiate these results.