ABSTRACT

DISSERTATION TITLE- EVALUATION OF EFFICACY OF LASER ABLATION IN THE MANAGEMENT OF ORAL LEUKOPLAKIA

AIM OF THE STUDY- Aim of the study is to evaluate the efficacy of Diode LASER ablation in the treatment of oral leukoplakia

MATERIALS AND METHODS - We started our study with an aim to evaluate the efficacy of Diode LASER in treating patients with oral leukoplakia. We selected thirty patients who were clinically and histopathologically diagnosed as leukoplakia. The patients were grouped into two: one group of 15 patients who were managed using conventional antioxidants and another group of 15 treated using Diode LASER. Salivary antioxidants were evaluated in the pre-treated period and also after three months follow up.

RESULTS - We could find that there was complete resolution of lesion with minimum patient discomfort in the patients treated with Diode LASER. There was statistically significant difference in the salivary antioxidants levels between pre-treatment period and after three months follow up period. This difference was noted in patients treated with antioxidants and Diode LASER.

CONCLUSION - Diode LASER is superior to antioxidant therapy in the treatment of oral leukoplakia regarding clinical wound healing and resolution of the lesion. Salivary antioxidants, SOD and GSH can be considered as a valuable marker for knowing the treatment outcome and prognosis. We conclude here by emphasizing the need of further research in the field of oral potentially malignant lesions and salivary biomarkers.

KEY WORDS- Leukoplakia, LASER, Antioxidants