

患者對於雷射美白之自我滿意度及術後牙齒敏感度之評估

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Abstract

The aim of this study was to evaluate the whitening effectiveness of the Opus White Laser System (OWLS) according to a survey of teeth sensitivity and self-satisfaction. In total, 101 cases received OWLS treatment in the Dental Department of Taipei Medical University Hospital. Thirty-two cases (6 males and 26 females) were selected by consecutive random sampling. The study included a vitality test and a questionnaire. All anterior teeth ($\#13\sim\#23$ and $\#33\sim\#43$) of the 32 cases were tested using the Electric Pulp Test for evaluation of pulp vitality. The questionnaire was designed with a visual analog scale, which included degrees of self-satisfaction and teeth sensitivity in the pre- and post-laser treatment periods. Data were analyzed using the frequency distribution and t-test at a significance level of 5% ($p<0.05$). Results demonstrated the following: (1) All teeth receiving laser whitening exhibited vitality. (2) All cases indicated an increase in self-satisfaction after OWLS (8.59% to 59.91%) and a decrease in teeth sensitivity from immediately post-OWLS to 1 week post-OWLS treatment (63.5% to 3.75%). (3) There was no significance for the number of times the laser operation was performed on patients' self-satisfaction or post-laser teeth sensitivity if the number of operations >4 . (4) Thirty-two cases were divided into 2 groups according to their motivation for having their teeth whitened. One was the tetracycline group (20 cases, 62.5%), the other was the non-tetracycline group (12 cases, 37.5%). Patients' teeth discoloration type showed no significant effect on post-laser sensitivity. (5) The post-laser self-satisfaction of the tetracycline-stained group was lower than that of the non-tetracycline-stained group, and the difference was significant ($p<0.05$). After this clinical survey, we determined that the teeth sensitivity and self-satisfaction, using the OWLS for teeth whitening were acceptable.