

Spectrophotometric Evaluation of Color Changes of Home Bleaching Agents

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Aim: Tooth whitening treatments provide solutions to tooth colorings, which are a common aesthetic problem affecting the psychological development and social life of children and young people. Vital bleaching techniques in dentistry are classified as office bleaching and home bleaching. Vital bleaching agents generally contain carbamide peroxide and hydrogen peroxide at various concentrations.

The aim of this study is to compare the whitening efficacy of two different home bleaching agents containing 16% carbamide peroxide.

Material and method: The study included 32 patients (absence of caries, fractures and restorations in anterior teeth of the upper jaws) who were admitted to the Oral Diagnosis Department of Çukurova University Faculty of Dentistry or who were consulted to the Department of Dentistry and Treatment from the Orthodontic and Prosthetic Dental Department due to their aesthetic complaints. Teeth color was recorded before home bleaching from the incisal, middle, and cervical regions of the upper 6 incisors of the patients by spectrophotometer. Alginate impressions of their upper jaw were taken and according to this protocol, a model was used for fabricating a custom tray for home bleaching. The patient placed Opalescence PF (Ultradent Products, USA) bleaching agent on the left side of the tray and Pola night (SDI, Australia) bleaching agent on the right side of the tray. Patients wear mouth trays for 4 hours per day. After 14 days of bleaching treatment the color of related teeth regions were recorded. The teeth color before and after bleaching treatment used to get the differences of color change values of these 3 regions were taken and the color change values for the right and left upper jaws which were treated with different bleaching agents were analyzed by the paired t test.

Result: Despite the higher bleaching efficiency of the Opalescence PF gel, there was no statistical difference between two bleaching agents ($p>0.05$).

Conclusion: Bleaching agents which were containing carbamide peroxide used in tooth whitening have been similarly effective in home bleaching process.

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FARKLI UZMANLIK ALANLARININ LATERAL EKSİKLİĞİ VAKALARINDA TEDAVİ YAKLAŞIMLARI –Pilot çalışma TREATMENT CONSIDERATIONS FOR MISSING LATERAL INCISOR AMONG DIFFERENT SPECIALTIES-A pilot study

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AMAÇ: Estetik beklentilerin önem kazandığı son yıllarda diş hekimine tedavi talebiyle başvuran hastalarda lateral diş eksikliği sıklıkla karşıma çıkmaktadır. Araştırmamızın amacı farklı uzmanlık alanlarının lateral eksikliği ile ilgili tedavi yaklaşımlarının belirlenmesidir.

AIM: In recent years aesthetic expectations have become important and missing lateral is often confronted in patients who have applied for dental treatment. The aim of our research is to determine treatment approaches for missing lateral of different specialities.

BİREYLER ve YÖNTEM: Çalışmanın ilk aşamasında, ÇÜDHF Ortodonti kliniğinin arşivi retrospektif olarak taranmış ve son 10 yılda tedavi edilen lateral eksikliği vakaları derlenerek uygulanan tedavi yöntemleri (ortodontik olarak boşluk açma veya kapatma) belirlenmiştir. Çalışmanın ikinci aşamasında ise panel araştırma tekniği kullanılmıştır. Panelde, son sene eğitimi alan Ortodonti, Protetik tedavi, Endodonti ve Diş Hekimliği öğrencisi 2 şer öğrenciden oluşan 8 katılımcı davet edilmiştir. Panelistlere literatürden derlenen “lateral eksikliği bulunan ve bulunmayan” iyi estetik sonuçlarla bitirilmiş 9 vakanın fotoğrafları gösterilmiş ve yapılan tedavinin tahmin edilmesi istenmiştir. Daha sonra ÇÜDHF Ortodonti kliniğinde lateral eksikliği nedeniyle tedavi edilmiş 4 vakadan derlenmiş fotoğraflar katılımcılara gösterilmiş ve her vaka için gerekçeli tedavi planlaması yapmaları istenmiştir.

METHODS: At the first stage of the study, the archives of the ÇUDHF Orthodontics Clinic were retrospectively screened and the treatment methods (space opening or closing) were determined for missing lateral cases treated in the last 10 years. In the second phase of the study, panel research technique was used. 8 participants has been attended from final year