Abstract

Comparison of the clinical efficiency of two materials used for intracoronal bleaching of devital teeth

Discolorations of nonvital teeth lead to esthetic problems since they can be easily distinguished in teeth row. In this study, 24 patients were treated using a sodium perborate material (Starbrite Dentramar, Netherlands) and hydrogen peroxide (Opalescence Xtra, Ultradent, USA) for intracoronal bleaching of anterior teeth discolored due to trauma or root canal therapy. Qualitative evaluation was made by using Vita scale and photographic record. Bleaching examined at the end of the eighth day with two-day interval was accepted successful, provided the bleaching attained the color of the symmetrical tooth. Two materials used were compared in terms of handling and application time. Then loss of tooth hard tissues, cracks, cervical resorptions and radiographic findings as well as relapse of color were examined 3 years long with 6-month intervals. Bleaching with Opalescence Xtra was achieved between two-four days. However, in eight cases (%66,7) satisfactory bleaching was not reached with Starbrite application.

In conclusion, the treatment with Opalescence Xtra as regards the handling and application time proved advantages.

No clinical or radiographic findings of hard tissue loss were determined, but in some cases a slight relapse of color was observed.

Key words:

Discolored tooth, intracoronal bleaching, hydrogen peroxide, sodium perborate.