Comparing the ability of two remineralizing agents and natural saliva on roughness of the bleached enamel (in vitro study)

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Abstract

Background and Aim: Increase of enamel roughness after bleaching is a problem of these kinds of treatments which decrease enamel resistance to dental caries and absorption of stains. The aim of this research was to compare the ability of two remineralizing agents (MI PASTE PLUS, REMIN PRO) and natural saliva on roughness of the bleached enamel in Dental branch of Tehran Islamic Azad University in 2014.

Materials and Methods: In this experimental in vitro study, 45 enamel specimens of extracted premolars were treated by XTRO (BOOST). The samples were randomly divided into three groups of 15 samples and inserted in MI PASTE PLUS, REMIN PRO and natural saliva. Enamel roughness of samples was measured at the beginning of the study, after bleaching and after the pastes application by profilometer. Data analysis done with Repeated Measured statistical method.

Result: This research which was conducted on 45 samples revealed that, the difference of saliva group MI paste and Remini Pro were -0.08, -0.157 and -0.14, respectively.\((p<0.01)\)

Conclusion: MI paste and Remin pro could decrease the enamel roughness also did the saliva .Remin pro could decrease the enamel roughness more effectively than MI paste , Also the natural saliva decreased the enamel roughness more than MI paste

Keywords: Remineralization, Surface roughnen,Saliva

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