سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها گواهی ثبت مقاله در سیویلیکا CIVILICA.com

عنوان مقاله:

Influence of COY Laser Irradiation and CPP-ACP Paste Application on Demineralized Enamel Microhardness

محل انتشار:

مجله لیزر در علوم پزشکی, دوره 9, شماره 2 (سال: 1397)

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خلاصه مقاله:

Abstract Introduction: It has been suggested that the application of casein phosphopeptide-amorphous calcium phosphate paste (CPP-ACP) and COY laser irradiation on enamel could increase the resistance of enamel to caries and acid attacks. The aim of the current study was to compare the influence of CPP-ACP paste application and irradiation of COY laser on microhardness of demineralized enamel. Methods: Thirty sound maxillary extracted premolars were selected. The crowns were cut at the cervical line and were split into facial and palatal halves. Specimens were mounted in self-cure acrylic blocks in such way that the enamel surface was exposed to *x* mm. After a pH cycling of the specimens, they were randomly divided into *groups (n = \delta), as follows: CG: Control group, LAS: COY laser, CP: CPP-ACP and LASCP: laser combined CPP-ACP treatment. The Vickers microhardness of the specimens was measured (\delta \cdot \cdot g load, \delta seconds, *points). Data were analyzed using one-way ANOVA and post hoc Tukey tests (\delta = \cdot \cdot \delta). Results: The lowest mean Vickers microhardness value was observed in CG group (\delta \tau. \delta \cdot \delta \del

كلمات كليدي:

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