عنوان مقاله:
Effect of casein phosphopeptide-amorphous calcium phosphate (CPP-ACP) on bond strength of a universal adhesive to demineralized dentin

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خلاصه مقاله:
Objective: This study investigated the effect of casein phosphopeptide-amorphous calcium phosphate (CPP-ACP) on the shear bond strength (SBS) of a universal adhesive in self-etch mode to demineralized dentin. Methods: Seventy-five dentin specimens were randomly divided into five groups ( $n=1 \Delta$ ) as follows: Group \\, intact dentin; Group $\upharpoonright$, demineralized dentin receiving no remineralization agent; and Groups $\mu-\Delta$, demineralized dentin receiving CPPACP for $\Psi^{*}, q^{\bullet}$, and $\backslash \wedge \bullet$ seconds, respectively. All groups were bonded by Adper Single Bond Universal adhesive in self-etch mode. After $\Gamma \uparrow$ hours, the SBS test was conducted, and failure modes were recorded. The data were analyzed by one-way ANOVA, Tukey post-hoc test, and chi-square test at the significance level of $\mathrm{P}<\cdot \cdot \bullet$.Results: The highest and lowest mean SBS values were observed in groups (intact dentin: $\gamma q . \Delta \wedge \pm \Lambda .1 r \mathrm{MPa}$ ) and $r$
 comparison revealed that the SBS of demineralized groups (groups $r-\Delta$ ) was significantly lower than that of the intact samples ( $\mathrm{P}<\cdot \cdot \Delta$ ). Group $\Delta$, with
 ACP paste for three minutes can increase the bond strength of the universal adhesive in self-etch mode to demineralized dentin, whereas shorter application .times are not effective

كلمات كليدى:
Bond Strength, Casein phosphopeptide-amorphous calcium phosphate, Composite resins, dental adhesives, Self etch, Tooth demineralization
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