**Title:** A Comparison Study of Effect of Casein Phosphopeptide Amorphous Calcium Phosphate and Flouride Varnish on Dentinal Hypersensitivity  

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**Abstract:** Fluoride is one of the most traditional components which has been used as a desensitizing agent up to now. Nowadays, several casein components such as casein phosphopeptide amorphous calcium phosphate (CPP-ACP) is vastly considered as a suitable replacement for fluoride. The aim of this study was to compare the effect of CPP-ACP paste and fluoride varnish on dentin hypersensitivity.

**Material and Methods:** Thirty adult patients between 20-50 years, presenting with the chief complaint of hypersensitivity were examined. The loss of dentin had to be less than 0.5 mm in depth which did not require any restorative regimen. Randomly the patients were divided into three groups: In group I and II, patients treated by Tooth Mousse and fluoride varnish following manufacture’s instructions. Group III received no treatment as control group. A visual analog scale (VAS) was used to assess subject’s response to compressed air and ice stimuli at baseline, 7 days, 28 days, and 60 days after treatment. Data were analysis statistically by one-way ANOVA, Duncan post hoc test and repeated measure analysis.

**Results:** One way ANOVA test showed significant statistical difference between the groups. In fluoride varnish group and CPP-ACP, the hypersensitivity significantly decreased when baseline scores compared to post treatment scores at 7, 28, 60 days (P-value < 0.05). There was no significant statistical difference in hypersensitivity reduction in fluoride varnish and Tooth Mousse groups.

**Conclusion:** Based on the results of this study, CPP-ACP is effective on hypersensitivity as equal as fluoride varnish and could be used as an effective desensitizing agent.

**Dentin hypersensitivity, Tooth Mousse, Fluoride varnish**

**Presentation:** Poster