

## THE EFFICACY OF A DENTIFRICE CONTAINING NOVAMIN® ON DENTINE HYPERSENSITIVITY

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**Objectives:** To evaluate the efficacy of a dentifrice containing NovaMin® and a control dentifrice in relieving dentine hypersensitivity over a period of 6 weeks; also to measure the adverse events for the test and the control dentifrice.

**Materials and Methods:** The study design was a randomized, double-blinded, parallel-group, experiment with a positive and negative control group. Test dentifrice containing NovaMin, positive control (SrCl<sub>2</sub>) was a previously clinically proven anti-sensitivity toothpaste, and negative dentifrice containing no NovaMin. Written informed consent and a medical history were obtained prior to the study. Seventy-five (75) qualified volunteers took part in the study according to the inclusion and exclusion criteria. Tooth sensitivity was recorded by marking the degree of discomfort on a 10cm long visual-analogue scale (VAS) when elicited by an evaporative stimulus and cold water stimuli at an interval of 5 minutes. A soft tissue examination of the whole mouth was carried out to assess any effects of the study dentifrice on oral soft tissues. The protocol was reviewed by the Medical Ethical Committee of the University. Changes were assessed for statistical significance using ANOVA.

**Results:** Seventy-one subject finished the study, the age ranges from 20 to 56 years old. The results showed that the mean values of the VAS scores resulting from the air stimulus, cold water and overall assessment of sensitivity were reduced significantly ( $p < 0.01$ ) in both test and positive control group after six weeks of tooth brushing. After 6 weeks use, the reduction in the test group was 22%, 39% and 25% respectively; and in the positive control group it was 19%, 22% and 23% respectively. No product related adverse events on soft oral tissue were found in this six weeks study.

**Conclusion:** The results of this study showed that the test dentifrice containing NovaMin® and the positive control (SrCl<sub>2</sub>) toothpaste reduced dentine sensitivity over 6 weeks study period.

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