Clinical Evaluation
STAINO® Interdental Brushes for Stain Removal and Abrasivity

Stains in the embrasures and interproximal spaces between teeth can be difficult to remove using standard toothbrushes and standard interdental brushes. A new interdental brush with a polishing agent incorporated in its nylon bristles, STAINO®, has recently been introduced. A four-week clinical study was conducted by this author at UMDNJ – New Jersey Dental School to evaluate the efficacy of stain removal using the STAINO® brushes vs. standard nylon interdental brushes. Fifty subjects participated in this randomized double blind, stratified, two-treatment clinical trial.

Protocol

1. Subjects were chosen who had at least three cleansable anterior interproximal spaces (six proximal tooth surfaces). They were balanced into two groups, having “moderate” or “heavy” stain on their teeth.

2. The brushing regimen was as follows: Subjects were instructed to brush interproximally without a dentifrice twice per day for the duration of the study, after first brushing with their usual toothbrush and toothpaste. Used brushes were discarded and a new brush was used each day. Twenty-five subjects used the STAINO® brush and twenty-five subjects used the control nylon brush.

3. A modified Lobene Stain Index (Lobene, JADA, 1968;V.77, pp.849-55) was used to determine the area and intensity of interproximal stain after 2 weeks and 4 weeks of use. Digital imaging was used to document the amount of stain present.

Results

1. The STAINO® brush removed stain significantly better than the control.

2. The STAINO® brush removed 21% of the stain after 2 weeks and 34% of the stain after 4 weeks.

3. There were no adverse reactions found by direct oral tissue examination for the duration of the study, nor were there any adverse reactions reported by the subjects.

4. The STAINO® brush removed stain similarly (at the same rate) for both moderate and heavy stains.

Conclusion

The results of this study show that the STAINO® Interdental brush is significantly more effective at removing stain from the interproximal areas of anterior teeth than the standard nylon control brush.

SEM Micrograph (500x) Of Staino Nylon Brush Bristle Containing Abrasive Polishing Particles

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