

Clinical comparison of extrinsic stain removal by two power toothbrushes



ABSTRACT 0935

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OBJECTIVE

This randomized, stratified, parallel group, single-blind study evaluated the safety and efficacy of the Oral-B[®] Sonic Complete (OBSC) and the Sonicare Elite (SE) in the removal of naturally occurring extrinsic stain.

METHODS

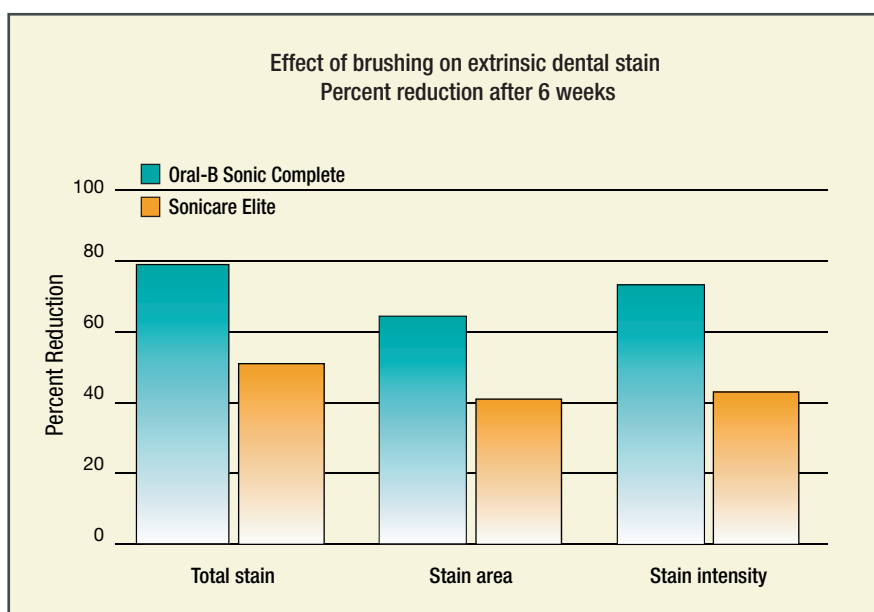
After 12-18 hours without brushing their teeth, subjects received an oral hard and soft tissue examination and stain assessment to determine eligibility in the study. Subjects were balanced for baseline stain score (Lobene Stain Index) and smoking status, and randomised to use either the OBSC or SE. Subjects received brushing instruction and brushed twice daily with toothpaste for 2 minutes. After 6-weeks of product use, clinical parameters were reassessed by the same examiner blind to treatment group assignment.

RESULTS

Treatment groups (OBSC n=33; SE n=31) did not differ significantly with respect to gender, age, smoking status, or baseline stain score ($p>0.05$). Both toothbrushes significantly reduced Lobene Stain Index measures after 6 weeks of use (t-test; $p<0.001$), but significantly greater improvements in total stain, stain area and stain intensity were evident with OBSC over SE (ANOVA; $p<0.001$). Mean greater reductions in favor of OBSC were 26% in total stain, 29% in stain area, and 29% in stain intensity on facial surfaces. OBSC removed significantly more stain than SE by tooth region ($p<0.001$), with reductions in total stain 74% vs. 51% for the gingival region and 80% vs. 52% for tooth body. No significant difference was found in the proportion of oral hard and soft tissue abnormalities between treatment groups.



Oral-B
Sonic Complete



CONCLUSIONS

- Both toothbrushes were safe to oral tissues during the 6 weeks of twice daily use.
- The Oral-B Sonic Complete was significantly more effective than the Sonicare Elite in reducing dental stain after 6 weeks of product use.
- Mean greater reductions in favor of the Oral-B Sonic Complete over the Sonicare Elite were 26% in total stain, 29% in stain area, and 29% in stain intensity on facial surfaces at 6 weeks.
- The Oral-B Sonic Complete was significantly more effective than the Sonicare Elite at stain removal from both the gingival region and body of the tooth at 6 weeks.