



Plaque Removal  
in vivo study

# Comparison of plaque removal by Sonicare For Kids and a Crest battery-powered Spinbrush® for Kids in children aged 7–10 years

Milleman J, Putt M, Olson M, Master A, Jenkins W, Schmitt P, Strate J. International J Pediatric Dent. 2009; 19:s1

**Objective**

To compare the plaque removal efficacy of Sonicare For Kids at “high” setting and Crest battery-powered Spinbrush for Kids (“dolphin” and “ice cream cone” handle shapes) in children aged 7–10 years.

**Methodology**

Fifty-nine healthy children (mean age 8.5 years) participated in an IRB-approved single-blind, randomized, parallel-design study. Informed consent/assent (with parent) was obtained. Subjects abstained from brushing for 26 ± 6 hours prior to examination visits. At Visit 1, subjects were screened for eligibility (Turesky-Modified Quigley-Hein Plaque Index (TPI) >1.8). They were instructed on use of both devices (Sonicare For Kids and Crest Spinbrush for Kids) in alternating manner at home (twice daily for two minutes) for a one-week familiarization period. At Visit 2, baseline TPI was scored followed by randomization and a supervised two-minute brushing session with the assigned device. Post-brushing TPI scores were then obtained. Safety was assessed in oral soft tissue examinations at Visit 2. ANOVA was used for the primary statistical analysis.

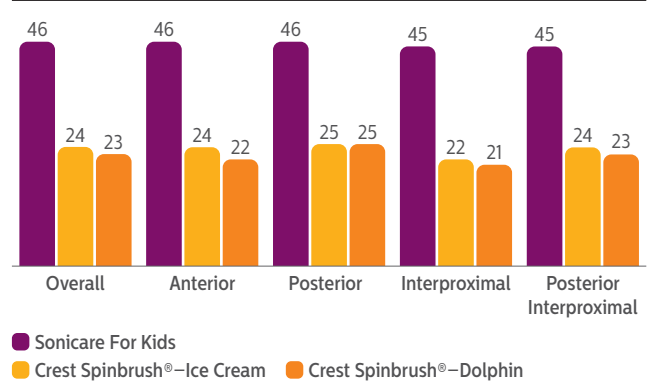
**Results**

Sonicare For Kids removed significantly more plaque than Crest Spinbrush for Kids (“dolphin” and “ice cream cone” handle shapes) from the dentition overall ( $p < 0.0001$ ) as well as in hard-to-reach areas, i.e., the posterior teeth ( $p = 0.0001$ ) and the interproximal spaces ( $p < 0.0001$ ) of children aged 7–10 years. Both toothbrushes were safe to use.

**Conclusion**

Sonicare For Kids was found to remove significantly more plaque than Crest Spinbrush for Kids in children aged 7–10 years. It is also proven safe and gentle on oral tissues.

% of Plaque Reduction



% of Plaque Reduction

