



Plaque Removal

in vivo study

Comparison of plaque removal by Philips Sonicare DiamondClean and Oral-B Pulsonic

Amini P, Goyal C R, Strate J. Data on File, 2011

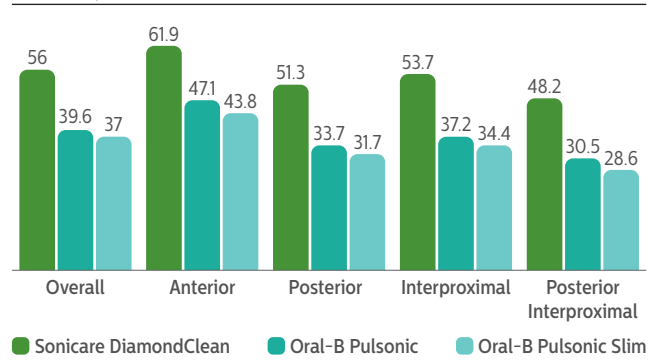
Objective

To compare the plaque removal ability of Sonicare DiamondClean to Oral-B Pulsonic (S26.523.3) and Oral-B Pulsonic Slim (S15.513.2).

Methodology

Fifty healthy adults completed a randomized, cross-over design study to evaluate the plaque removal effects of brushing in a single-use model with Sonicare DiamondClean, Oral-B Pulsonic and Oral-B Pulsonic Slim. Eligible subjects were randomized to a sequence of product home use for familiarization followed by a manual toothbrush wash-out. Subjects were to brush for two minutes, twice daily, for each brushing encounter. Compliance was tracked by subjects in a home-use diary. For the efficacy evaluation, subjects presented to clinic with 24 hours of plaque accumulation and were dispensed a new brush head for use in a supervised brushing encounter by clinic staff per the randomization assignment. Plaque was assessed before and after the supervised brushing encounter using the Turesky-Modified Quigley-Hein Plaque Index by a blinded examiner. Safety was assessed by intra-oral examination.

% of Plaque Reduction



Conclusion

Philips Sonicare DiamondClean removed statistically significantly more plaque than Oral-B Pulsonic and Oral-B Pulsonic Slim overall and in all sub-regions of the mouth ($p < 0.001$). Both products were safe for use.

