

Plaque Removal

in vivo study

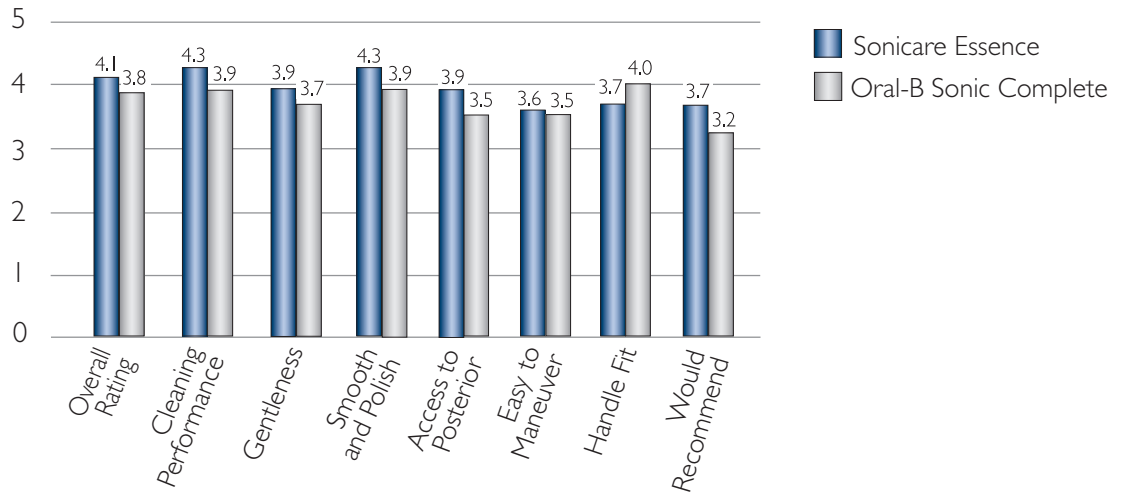
A comparison of the effects of two sonic toothbrushes: results from efficacy assessment and questionnaire

Sturm D, Strate J, Schaecken M, Oliemeulen M, Souza S, Hefti A. Data on file, 2007.

Objective	Evaluate the Philips Sonicare Essence and Oral-B Sonic Complete® toothbrushes in a short-term clinical efficacy study and using a questionnaire. ¹
Methodology	A randomized crossover, examiner-blinded study was conducted in 68 adults (51 females, 17 males; Turesky-Modified Quigley-Hein Plaque Index (TPI) ≥ 1.8 at screening). All subjects signed the MEC-approved consent form. At visit 1, subjects received their assigned brush and Prodent Soft Mint fluoride toothpaste. They were instructed to brush twice daily for two minutes during the one-week familiarization period. Subjects abstained from oral hygiene for 24 hours before visit 2. At visit 2, TPI was scored before and after a two-minute supervised brushing exercise. Subjects completed a 16-item product-use questionnaire, were scheduled for visit 3 and were given the other toothbrush. Familiarization, no oral hygiene periods, examinations and the questionnaire at visit 3 were as at visit 2. ANOVA was used to determine whether there were differences between treatments.
Results	Significantly higher percent reductions from pre-brushing scores were observed for Philips Sonicare Essence than Oral-B Sonic Complete overall, on posterior teeth and in interproximal areas. Respective percentages were 54% and 45% ($p < 0.001$), 47% and 38% ($p < 0.001$), 55% and 46% ($p < 0.001$). Superiority was further corroborated by information gathered from questionnaires. Philips Sonicare Essence significantly ($p < 0.05$) outperformed Oral-B Sonic Complete in 6 of 16 aspects, including "overall rating" and "overall cleaning performance." Oral-B Sonic Complete outscored Philips Sonicare Essence in 2 of 16 aspects.
Conclusion	Philips Sonicare Essence removed significantly more plaque overall and from posterior and interproximal areas than Oral-B Sonic Complete. Philips Sonicare Essence demonstrated preferred acceptability compared to Oral-B Sonic Complete.

¹ Oral-B Sonic Complete is a trademark of Procter & Gamble Business Services Canada

Comparison of User Preference Between Sonicare Essence and Oral-B Sonic Complete®



Comparison of Plaque Removal Between Sonicare Essence and Oral-B Sonic Complete®

