

Plaque Removal

in vivo study

Comparison of plaque removal by Sonicare FlexCare and National® Doltz EW1037

Jenkins W, Putt M, Milleman J, Schmitt P, Sturm D, Moritis K, Strate J. Comparative Efficacy of Two Power Toothbrushes on Plaque. *J Dent Res* 87 (spec Iss B): 2045, 2008

Objective	To compare the plaque removal efficacy and safety of the Sonicare FlexCare and National Doltz EW1037 power toothbrushes.
Methodology	One-hundred fourteen healthy adults aged 18-65 years, participated in a single-blind, randomized, parallel group clinical study assessing the plaque removal efficacy and safety of the Sonicare FlexCare and National Doltz EW1037 power toothbrushes. Each toothbrush was used for two minutes, twice daily for one week at home for familiarization. At the end of this period, subjects presented with 24 hours of plaque accumulation, then had an assessment on plaque using Turesky-Modified Quigley-Hein Plaque Index before and after a two minute supervised brushing with the assigned toothbrush. Safety was assessed in oral soft tissue examinations prior to all assessments of plaque.
Results	Sonicare FlexCare removed significantly more plaque than National Doltz 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 ($p < 0.0001$). Both brushes were safe to use.
Conclusion	Sonicare FlexCare was found to remove significantly more plaque than National Doltz EW1037 when assessed over the entire dentition (overall) as well as in the hard-to-reach areas.

