

# Plaque Removal

*in vivo study*

## Comparison of plaque removal by Sonicare Elite e9000 Series mini brush head and National® Doltz EW 1035

Putt M, Milleman J, Jenkins W, Souza S, Sturm D. Comparative Plaque Removal Efficacy of Two Sonic Power Toothbrushes. *J Dent Res* 85 (spec Iss B): 2598, 2006

**Objective** To compare the plaque removal efficacy of the Sonicare Elite e9000 Series mini brush head and National Doltz EW 1035.

**Methodology** One hundred forty-three healthy adults, aged 18-65 years, participated in an IRB-approved single-blind, randomized, parallel group clinical study assessing the plaque removal ability of Sonicare Elite e9000 Series mini brush head and National Doltz EW 1035. 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.

**Results** Sonicare Elite e9000 Series mini brush head was superior to National Doltz EW 1035 in removing plaque from the dentition taken as a whole as well as in hard-to-reach areas, i.e., the posterior teeth, and interproximal spaces. Both brushes were safe to use.

**Conclusion** Sonicare Elite e9000 Series mini brush head was found to remove significantly more plaque than National Doltz EW 1035 when assessed over the entire dentition as well as in the hard-to-reach areas.

