

Plaque Removal

in vivo study

Comparison of plaque removal by Sonicare HydroClean and Oral-B Vitality Sonic®

Olson M, Putt M, Milleman J, Jenkins W, Wei J, Strate J. Comparative Plaque Removal Efficacy of Two Sonic Toothbrushes. *J Dent Res* 88 (spec Iss A): 2582, 2009

Objective	To compare the plaque removal efficacy and safety of the Sonicare HydroClean and Oral-B Vitality Sonic power toothbrushes.
Methodology	Ninety-two 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 HydroClean and Oral-B Vitality Sonic 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 HydroClean removed significantly more plaque than Oral-B Vitality Sonic 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 HydroClean was found to remove significantly more plaque than Oral-B Vitality Sonic when assessed over the entire dentition (overall) as well as in the hard-to-reach areas.

