

Plaque Removal

in vivo study*

Comparison of plaque removal by Sonicare PowerUp Battery versus a manual toothbrush

Nelson M, Souza S, Milleman J, Olson M, Jenkins W, Ward M. Data on file, 2013.

Objective

To compare the plaque removal efficacy of Sonicare PowerUp Battery toothbrush versus a manual toothbrush.

Methodology

Methodology: A randomized, examiner-blinded parallel design two-visit clinical study was conducted in a population of healthy volunteers aged 18-65 (mean age 38.6). One hundred thirty two subjects who provided Informed Consent completed the IRBapproved study. All subjects presented to clinic at Visit 1 with 24 (+/- 4) hours of plaque accumulation. Eligible subjects were randomly allocated to one of two treatment groups; Sonicare PowerUp Battery or an ADA reference manual toothbrush for a three-day technique familiarization period. Thereafter, all subjects entered a three-day wash-out phase using only a manual toothbrush. Subjects returned to clinic for Visit 2 at Day 7 with 24 (+/-4) hours of plaque accumulation. A pre-brushing plaque score was assessed upon entry using the Modified Quigley-Hein Plaque Index, followed by supervised brushing per randomization by unblinded study personnel. A second plaque score was assessed post-brushing and subjects were dismissed from study. Safety was assessed via intraoral examination and per subject report during the at-home use period.

Results

Sonicare PowerUp Battery removed significantly more plaque than a manual toothbrush overall (41.9% versus 23.83%, p <0.0001) and in all sub-regions, including hard-to-reach areas.

Conclusion

Sonicare PowerUp Battery was superior to a manual toothbrush in removing plaque when assessed over the entire dentition (overall), as well as in hard-to-reach areas. Both products were safe for use.



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