



## Plaque Removal

in vivo study

# Comparison of plaque reduction by Sonicare FlexCare Platinum with InterCare brush head to Oral-B 6000 with CrossAction brush head

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### Objectives

To compare the reduction in plaque of Philips Sonicare FlexCare Platinum with InterCare brush head and Oral-B 6000 with CrossAction brush head.

### Methodology

One hundred and six healthy adults (84 females, 22 males) were enrolled and completed this Ethics-committee approved, cross-over, examiner-blinded clinical trial. Eligible subjects were non-smokers, aged 18–65 years who were routine manual toothbrush users. Enrolled subjects had a minimum average plaque score of  $\geq 2.2$  (Lobene and Soparker Modified Quigley and Hein Plaque Index) following 24 (+/-4 hrs) plaque accumulation. Subjects provided informed consent at Visit 1 and were screened for initial eligibility parameters. Within the following seven days, subjects returned to clinic for final efficacy assessments (plaque score) at Visit 2. Enrolled subjects were then randomized to either Sonicare FlexCare Platinum with InterCare brush head or Oral-B 6000 with CrossAction brush head. Both products were used in their respective “Deep Clean” modes. Subjects were provided instructions and were dispensed a compliance diary for home-use tracking. They were instructed to use the assigned power toothbrush for their next four brushings/two days to acclimate to usage; thereafter they were to utilize a manual toothbrush twice daily for a washout for the following five days. Subjects returned to clinic for Visit 3/Day 7 for safety and efficacy assessments where surface plaque was scored by the blinded Examiner before and after an in-clinic supervised brushing. Subjects were then provided the alternate power toothbrush and instructions, and followed the same home-use regime of power toothbrush use (two days) followed by manual toothbrush washout (five days). At the final visit (Visit 4/Day 14), efficacy and safety parameters were re-assessed following the same plaque assessment procedures and subjects were then dismissed from study.

### Results

LS Mean (SE) Overall percent reduction for Philips Sonicare FlexCare Platinum with InterCare brush head was 74.10% (1.28), and for Oral-B 6000 with CrossAction brush head it was 65.41% (1.28).

There were 23 adverse events reported, all of which were mild in severity. Eleven events were related or possibly related to the study.

### Conclusions

Philips Sonicare FlexCare Platinum with InterCare brush head in Deep Clean mode was statistically significantly superior to Oral-B 6000 with CrossAction brush head in Deep Clean mode in removing surface plaque Overall (p-value <0.001), and in all sub-regions. Both products were safe for use.

LS Means, Percent Plaque Reduction  
% Plaque Reduction

