

# Waterpik® Sensonic® Professional Toothbrush: Unsurpassed Plaque Removal Beyond The Bristles

## Efficacy of Various Side-to-Side Toothbrushes for Noncontact Biofilm Removal

Schmidt, JC Astasov-Frauenhoffer M, Hauser-Gerspach I et al. *Clin Oral Invest* 2014; 18(3):793-800. Study conducted at University of Basel, Switzerland

### Objective

To evaluate the efficacy of the Waterpik® Sensonic® Professional Toothbrush to other sonic powered toothbrushes for noncontact (beyond the bristles) biofilm removal.

### Methodology

Plaque biofilm was formed in vitro on protein-coated titanium disks and was exposed to four different side-to-side sonic toothbrushes using brushing times of 2, 4, and 6 seconds and brushing (bristle-to-disk) distances of 0, 2, and 4 mm. The biofilm volumes were measured using volumetric analyses with confocal laser scanning microscope images to determine biofilm removal.

### Results

The overall median reduction in plaque biofilm for the Waterpik® Sensonic® Professional Toothbrush was 80%, while the median reduction for the Sonicare® Flex-Care was 62%. The other two toothbrushes in the study removed 9% and 13% respectively.

### Conclusion

The Waterpik® Sensonic® Professional Toothbrush was unsurpassed in removing in vitro plaque without bristle contact.

