

# UV Sanitizer

Sanitization

# In vitro evaluation of the Sonicare UV sanitizer for various power toothbrush heads

Hix J, Elliott N, De Jager M. Data on file, 2007

## Objective

To evaluate in vitro the ability of the Sonicare UV sanitizer to reduce viability of microorganisms on several types of brush heads of power toothbrushes.

#### Methodology

Several in vitro studies were executed examining various microorganisms and brush heads. In each study, clinical conditions were mimicked carefully: brush heads were artificially contaminated with a selected microorganism in a two minute "brushing" cycle, then rinsed with tap water and sanitized using the 10-minute cycle of exposure to the germicidal ultraviolet light of the UV sanitizer. Non-treated brushes served as a control. Commonly observed microorganisms were tested, including Escherichia coli, Streptococcus mutans and Herpes Simplex Virus type 1 (HSV 1). Investigated brush heads included the Sonicare Elite standard brush head, the Sonicare FlexCare regular-sized and small ProResults brush heads, the Oral-B Professional Care FlexiSoft® and FlossAction brush heads, and the National® Doltz EW910 and EW920 brush heads.<sup>12</sup>

#### Results

Following this procedure, it was demonstrated that the UV sanitizer could reduce up to 99% of E. coli, S. mutans and HSV1 for the brush heads tested in this study.

### Conclusion

The Sonicare UV sanitizer effectively kills up to 99% of select microorganisms on selected toothbrush heads.

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\*Results will vary with actual use