

# Sanitization

*in vitro study*

## In vitro evaluation of the Sonicare FlexCare integrated UV sanitizer

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

Objective	To evaluate in vitro the ability of the Sonicare FlexCare integrated UV sanitizer to reduce viability of microorganisms on the FlexCare ProResults brush heads.
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 <i>Escherichia coli</i> , <i>Streptococcus mutans</i> , and Herpes Simplex Virus type 1 (HSV1). Investigated brush heads included the Sonicare FlexCare regular-sized and small ProResults brush heads.
Results	Following this procedure, it was demonstrated that the UV sanitizer could reduce up to 99% of <i>E. coli</i> , <i>S. mutans</i> and HSV 1 for both FlexCare ProResults brush heads.
Conclusion	The Sonicare FlexCare integrated UV sanitizer effectively kills up to 99% of select microorganisms on selected toothbrush heads.