

Clinical study result

Scientific studies employing validated in vitro models prove an excellent cleaning efficacy of the elmex® SENSITIVE toothbrush extra soft. With its extra soft filaments it is therefore especially suitable for patients with exposed dental necks and hypersensitive teeth.

Interproximal access efficacy and gingival margin cleaning

To assess the interproximal access efficacy and gingival margin cleaning artificial tooth shapes were wrapped with pressure sensitive paper to simulate plaque deposits. Paper color changed in those areas that were reached by toothbrush filaments and served as an indicator to calculate access to interproximal spaces and gingival margin.

Interproximal access efficacy

Yankell et al. 2007

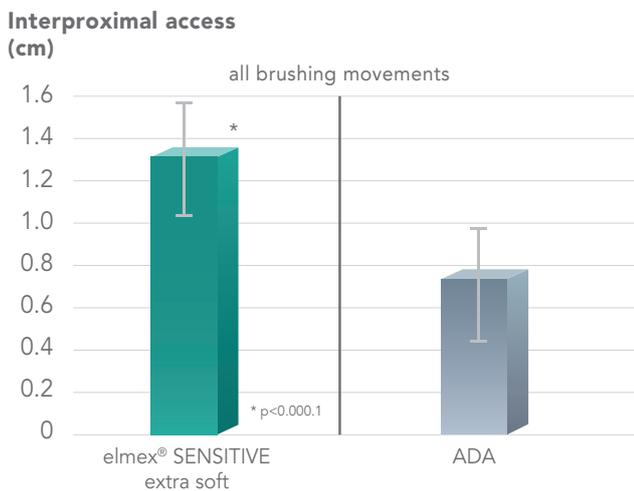


Fig. 1: Mean width of the tooth surface, from which simulated plaque was removed during brushing (as measured by colour change of pressure sensitive paper).

Gingival margin cleaning

Yankell et al. 2007

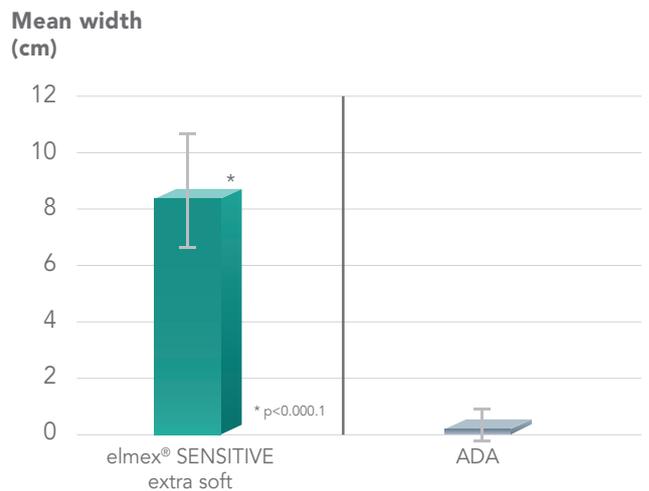
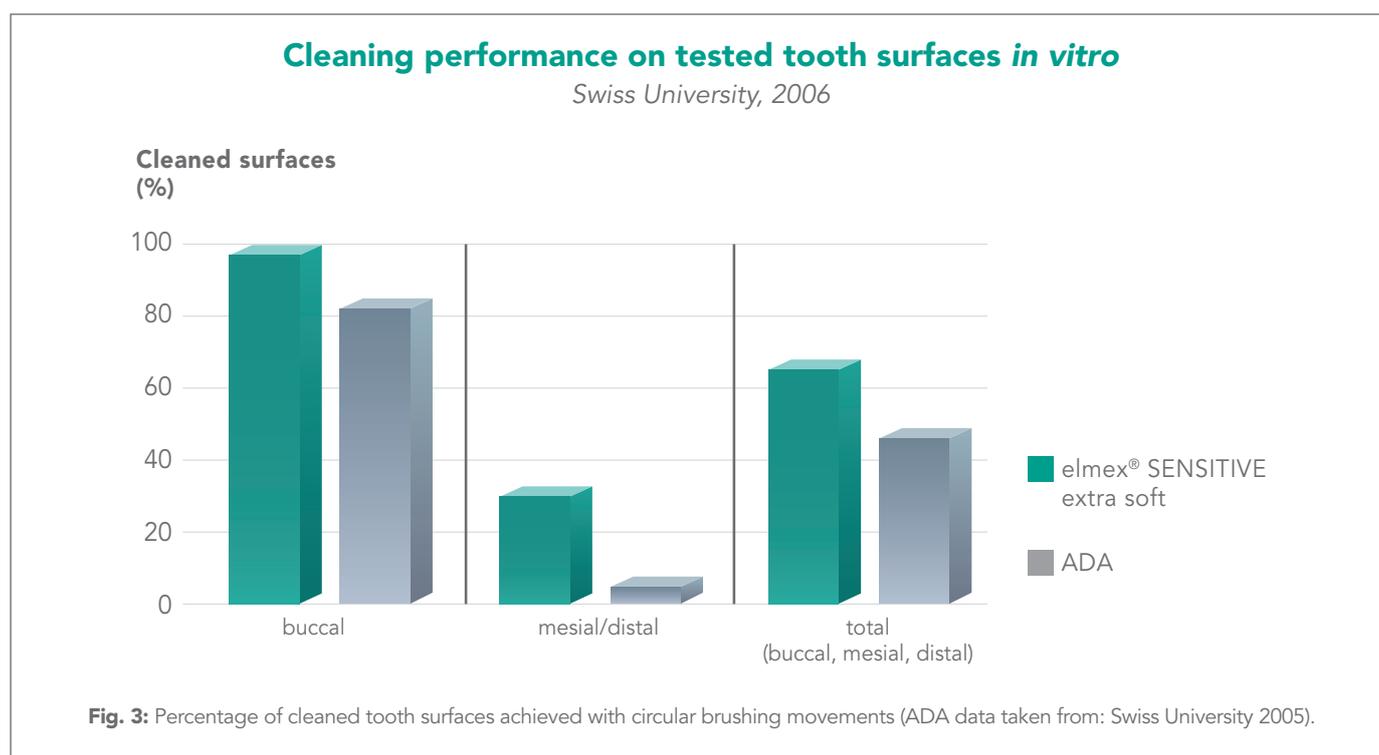


Fig. 2: Mean width of the tooth surface along the gingival margin, from which simulated plaque was removed during brushing (as measured by colour change of pressure sensitive paper).

In vitro, the elmex® SENSITIVE toothbrush extra soft provides both significantly higher interproximal access and better plaque removal along the gingival margin than the ADA reference toothbrush (both $p < 0.001$).

Cleaning performance

The *in vitro* measurement of the tooth surface contact potential provides information on the cleaning performance of a toothbrush. Black artificial teeth with a white coating were arranged in quadrants and brushed with the test toothbrushes according to a defined protocol. Tooth surfaces cleaned from the white coating were analysed planimetrically.



The elmex® SENSITIVE toothbrush extra soft demonstrated both on buccal and mesial/distal surfaces more efficient plaque removal than the ADA reference toothbrush.

References

Yankell SL, Shi X, Emling RD: Laboratory interproximal access efficacy and gingival margin cleaning of the elmex® SENSITIVE SOFT, EXTRA SOFT and ADA reference toothbrushes. *J Clin Dent* 18 (2007) 25–28

Swiss University. Internal report (2006)