



# CLINICAL EVIDENCES

Jan. 2023



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## One size fits all

Plaque indices after brushing with the Y-Brush electric toothbrush are **identical regardless of jaw width.**<sup>1</sup>

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1: Keller, Mathias, Gregor Keller, Thomas Eller, Lukas Sigwart, Vera Wiesmüller, René Steiner, Vincent Offermanns, et Ines Kapferer-Seebacher. « Cleansing Efficacy of an Auto-Cleaning Toothbrushing Device with Nylon Bristles: A Randomized-Controlled Pilot Study ». Clinical Oral Investigations, 22 octobre 2022.

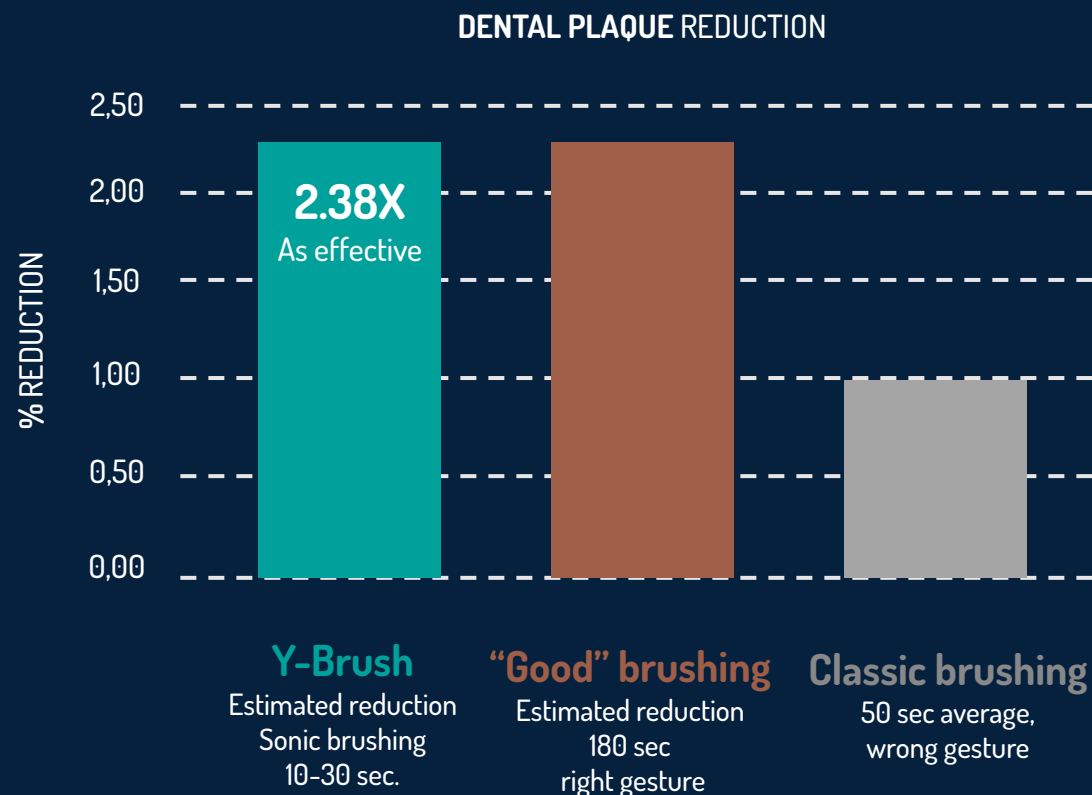


# Y-Brush toothbrush is as effective as a 3-min manual toothbrushing

Y-Brush toothbrush is statistically as effective regarding the dental plaque removal as a 3-min manual toothbrushing<sup>1</sup>, and estimated **2.38x more efficient** than an average toothbrushing.<sup>2</sup>

1: Keller, Mathias, Gregor Keller, Thomas Eller, Lukas Sigwart, Vera Wiesmüller, René Steiner, Vincent Offermanns, et Ines Kapferer-Seebacher. « Cleansing Efficacy of an Auto-Cleaning Toothbrushing Device with Nylon Bristles: A Randomized-Controlled Pilot Study ». *Clinical Oral Investigations*, 22 octobre 2022. <https://doi.org/10.1007/s00784-022-04755-9>.

2: WHO (Intl), ADA (US), IPSOS (FR). surveys : Average brushing with a regular toothbrush is between 45 and 60 seconds



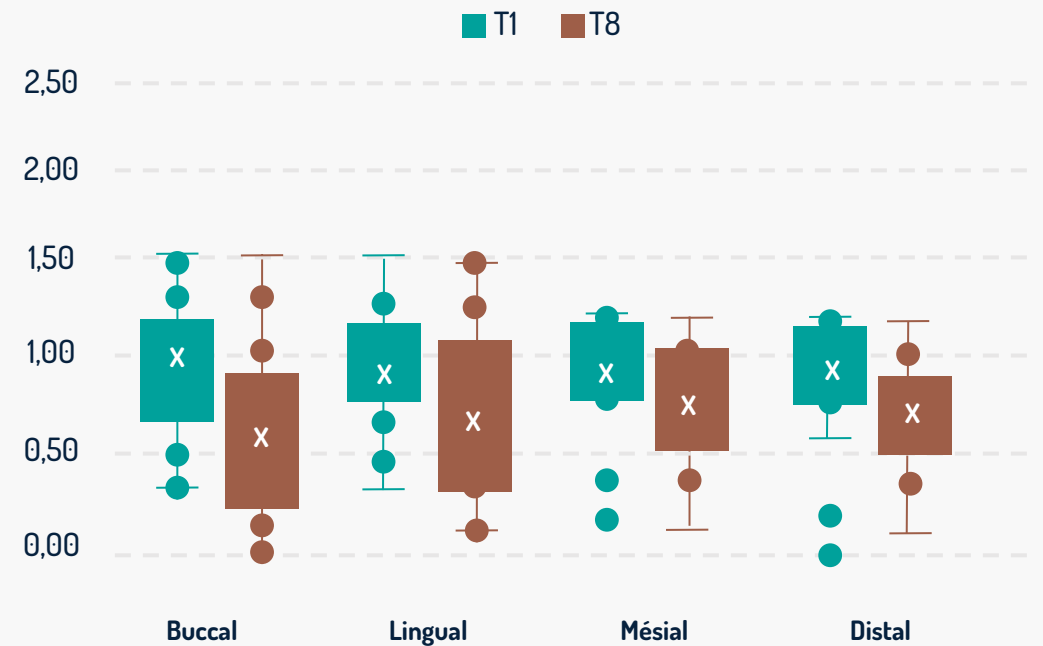
# Y-Brush toothbrush is as effective as a 2-min ideal toothbrushing

Y-Brush is statistically as effective regarding the dental plaque removal as a 2-min good toothbrushing with the right gestures.<sup>1</sup>

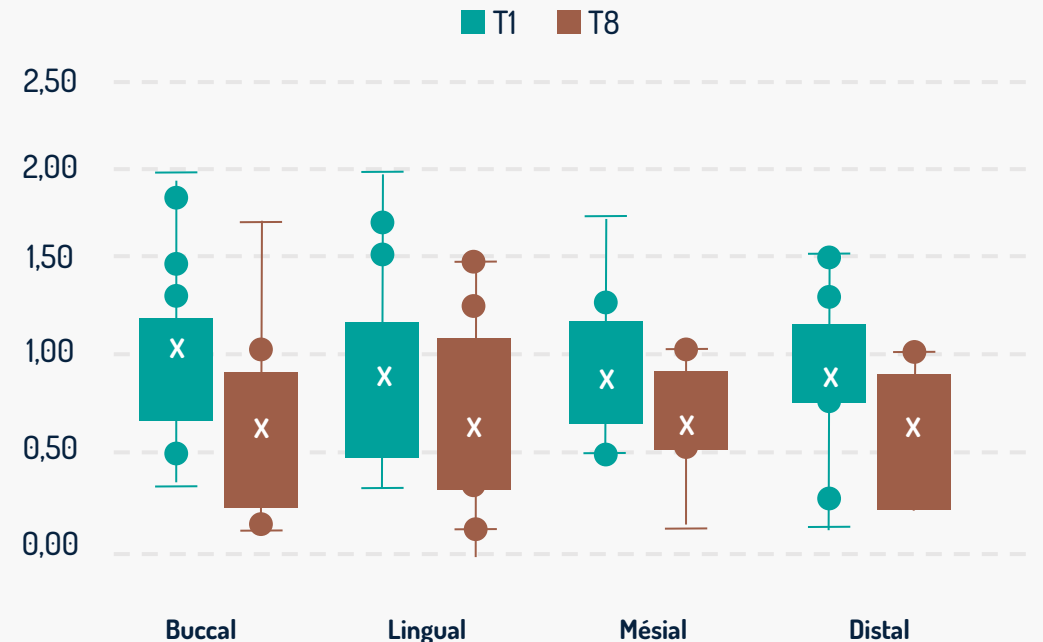
1: 2021 Independent Clinical study (not yet published), cross-over design, 8 days follow-up

X : Teeth surface Y : Plaque indice (IP)

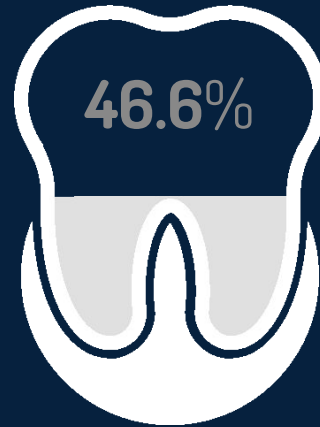
RESULTS BY ZONE Y-BRUSH



RESULTS BY ZONE USUAL TOOTHBRUSH



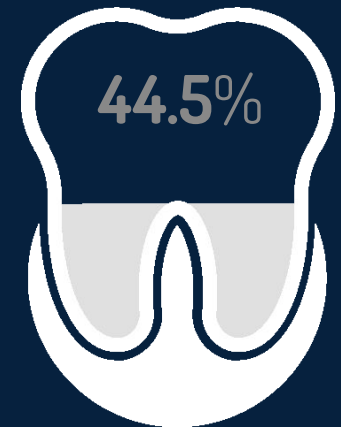
The plaque reduction for Y-Brush **is similar or better compared to toothbrushes on the market, in less time**



for the  
**Colgate Navigator<sup>2</sup>**



for  
**Y-Brush<sup>1</sup>**



for the  
**Crest Spinbrush Pro<sup>2</sup>**

1: Keller, Mathias, Gregor Keller, Thomas Eller, Lukas Sigwart, Vera Wiesmüller, René Steiner, Vincent Offermanns, et Ines Kapferer-Seebacher  
« Cleansing Efficacy of an Auto-Cleaning Toothbrushing Device with Nylon Bristles: A Randomized-Controlled Pilot Study ». Clinical Oral Investigations, 22 octobre 2022. <https://doi.org/10.1007/s00784-022-04755-9>.

2: Cugini, M., M. Thompson, et P. R. Warren. « Correlations between two plaque indices in assessment of toothbrush effectiveness » J Contemp Dent Pract 7, no 5 (2006): 1-9.

# On smooth surfaces, Y-Brush removes more plaque compared to regular toothbrushes

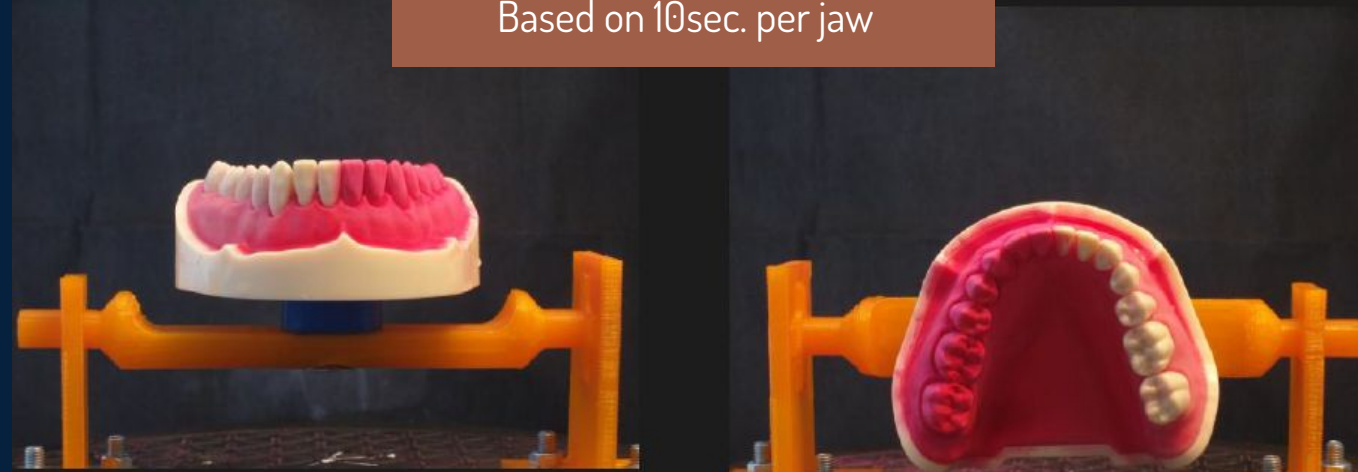
22.12% absolute reduction plaque with  
Y-Brush VS 8.38% for a regular toothbrush<sup>1</sup>

1: Keller, Mathias, Gregor Keller, Thomas Eller, Lukas Sigwart, Vera Wiesmüller, René Steiner, Vincent Offermanns, et Ines Kapferer-Seebacher « Cleansing Efficacy of an Auto-Cleaning Toothbrushing Device with Nylon Bristles: A Randomized-Controlled Pilot Study ». Clinical Oral Investigations, 22 octobre 2022. <https://doi.org/10.1007/s00784-022-04755-9>.

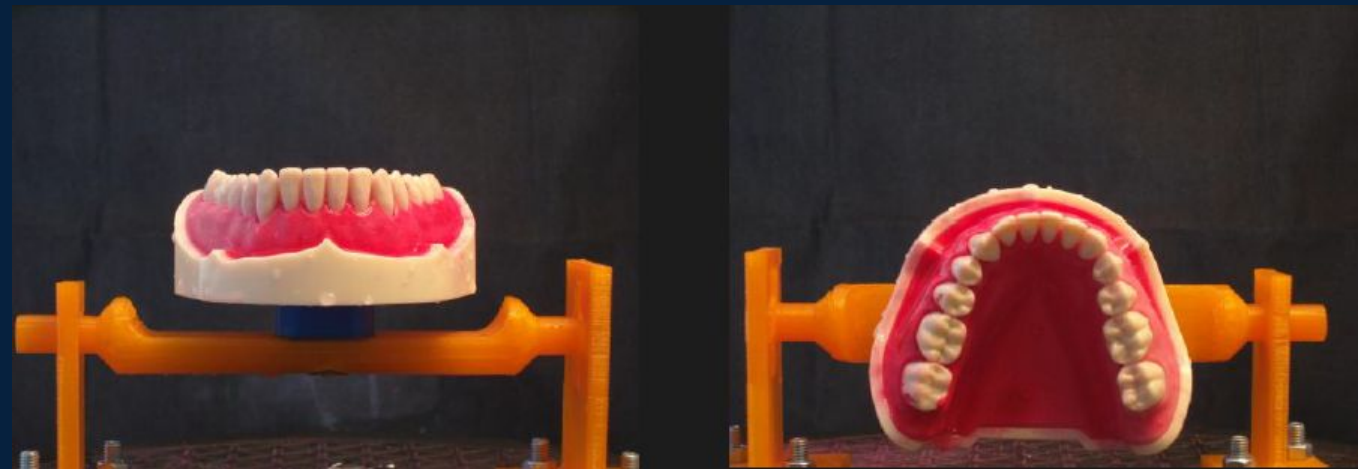
2: Tuna T, Kuhlmann L, Bishti S, Sirazitdinova E, Deserno T, Wolfart S. Removal of simulated biofilm at different implant crown designs with interproximal oral hygiene aids: An in vitro study. Clin Oral Implants Res. 2019 Jul;30(7):627-636. doi: 10.1111/clr.13448. Epub 2019 May 11. PMID: 31033028.Task

## In Vitro tests

Based on 10sec. per jaw



Before brushing



After brushing

Red : simulated dental plaque according to scientific bibliography<sup>2</sup>



## In medical institutions, **the caregivers adopt Y-brush**

In special environments such as medical and social institutions, 100% of caregivers are ready to switch to the Y-Brush technology after a first use 1 month<sup>1</sup>

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1: Independent 2022 study in France with 50 patients, currently being published

**Y-Brush toothbrushes use a completely different technology to toothbrushes with similar tips but silicone bristles, which are not at all effective**

“For a silicone toothbrush, its efficacy was similar to no brushing”<sup>1</sup>

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1: Efficacy of a U-Shaped Automatic Electric Toothbrush in Dental Plaque Removal: A Cross-Over Randomized Controlled Trial ». International Journal of Environmental Research and Public Health 17, no 13 (juillet 2020). <https://doi.org/10.3390/ijerph17134649>.



**35000** soft nylon bristles  
effective dental plaque removal



**Silicon** bristles  
non effective dental plaque removal



Effective toothbrushing  
**IN 10 SECONDS**

[y-brush.com](http://y-brush.com)