**CLINICAL STUDY 1**

University of Tennessee: November 2002

As published in ***the Journal of the International Academy of Periodontology:***

Comparison of the Hydrabrush/30 Second Smile powered toothbrush with two commercially-available powered toothbrushes

**Abstract**

INTRODUCTION:

An examiner-blinded, randomized, parallel, three-cell, controlled clinical trial was conducted to compare the efficacy of a new powered toothbrush (Hydrabrush) to that of two presently marketed power brushes (Oral-B and Sonicare) in reducing stain, supragingival plaque, gingivitis and the signs of periodontitis while monitoring safety.

CONCLUSIONS:

With the exception of clinical attachment loss, all subject groups were balanced for all measured clinical parameters at baseline. **Tooth stain became significantly less in the Hydrabrush group compared with the Sonicare group at 8 and 12 weeks. At all examinations, the Hydrabrush group had statistically significantly less plaque than the Sonicare group. At 4 weeks, the Hydrabrush group had statistically-significantly lower mean probing depth than both the Oral-B and Sonicare groups, and at 8 and 12 weeks, the Hydrabrush group had statistically-significantly lower mean probing depth than the Sonicare group. With regard to mean percentage of sites with probing depth > or =4 mm, the Hydrabrush group had statistically-significantly fewer sites > or =4 mm when compared to the other two tested brushes at all examinations.** No differences were seen among the treatment groups with regard to gingival recession and bleeding on probing and none of the tested brushes caused any adverse reactions.

J Int Acad Periodontol. 2005 Jul;7(3):80-9

Full Clinical Study: http://www.hydrabrush.com/clinicals/clinical\_journal-IAP\_Dr-Patters\_Hydrabrush\_july-2005.pdf

**CLINICAL STUDY 2**

Medical College of Georgia: September 2004

As published in the ***Journal of Contemporary Dental Practice:***

Efficacy of the HydraBrush/30 Second Smile Oral Health System in Irrigating Periodontal Pockets.

Penetration of Fluids into Periodontal Pockets Using a Powered Toothbrush/Irrigator Device

Abstract

INTRODUCTION:

This study was a single-blind, randomized, controlled clinical trial. The researchers evaluated a powered brush/irrigating device (HydraBrush Oral Health System™; OHS) for its safety and ability to deliver a solution to the bottom of 5-6 mm pockets, compared to rinsing alone with a solution following brushing with a powered toothbrush (Sonicare Elite™ 7800; SE). An evaluation technique to measure the quantity and quality of solution able to enter the pocket was also introduced in this project.

CONCLUSIONS:

**The experimental device is more efficient in delivering a solution to the base of 5-6 mm pockets than rinsing following use of a control powered toothbrush.** Both devices have demonstrated they are safe and well accepted by patients. The technique developed provides a useful method for quantitative and qualitative studies of solutions from the base of periodontal pockets.

J Contemp Dent Pratice. 2006 Jul;7(3):030-039

Full Clinical Study: http://www.hydrabrush.com/clinicals/MCG\_clinical.pdf