

C-8. Efficacy of the Sonicare Elite[®] in plaque removal and reduction of gingival inflammation from hard-to-reach sites of the moderate periodontitis

Ji-Youn Hong*, Sung-Won Jung, Yoo-Jung Um, Gyung-Jun Chae,
Ui-Won Jung, Chang-Sung Kim, Seong-Ho Choi, Chong-Kwan Kim
Department of Periodontology, College of Dentistry, Yonsei University,
Research Institute for Periodontal Regeneration

Background

Daily removal of bacterial plaque plays an important role in preventing the periodontal disease and maintaining periodontal health. The purpose of this study was to evaluate the efficacy of the Sonicare Elite[®] power toothbrush in plaque removal and reduction of gingivitis from hard-to-reach sites of the moderate periodontitis compared to regular manual toothbrush in 12 week follow-up.

Materials & Methods

82 subjects with incipient to moderate periodontitis were randomly assigned to use either the manual or sonic brush, instructed in its use, and asked to brush 2 times a day for 2 minutes. Plaque scores were taken at baseline, 1, 4, 12 weeks using Silness & Loe plaque index and gingival inflammation was assessed by the Loe & Silness gingival index.

Results and Conclusion

The Sonicare Elite[®] power toothbrush showed a significant reduction of the plaque (Silness & Loe) and gingival inflammation (Loe & Silness). It also showed a significant better reduction of plaque and gingivitis than the manual toothbrush after 1, 4, and 12 weeks. Furthermore, the Sonicare Elite[®] power toothbrush demonstrated a significant reduction of the plaque and gingival inflammation in interproximal sites, buccal sites and the lingual sites of the teeth. The results of this study support the findings that Sonicare Elite[®] power toothbrush has a great potential to remove the plaque and resolve the gingival inflammation during the period of 12 week.