

Brazilian Oral Research

Print version ISSN 1806-8324

Abstract

[CHAPPER, Ana](#); [CATAO, Viviane Vasconcelos](#) and [OPPERMANN, Rui Vicente](#).



Hand and ultrasonic instrumentation in the treatment of chronic periodontitis after supragingival plaque control. *Braz. oral res.* [online]. 2005, vol.19, n.1, pp. 41-46. ISSN 1806-8324. doi: 10.1590/S1806-83242005000100008.

This study compared the clinical effects of hand or ultrasonic scaling and root planing on the treatment of chronic periodontitis. After supragingival plaque control, twenty patients were examined by a blinded and calibrated examiner for probing pocket depth (PPD), clinical attachment level (CAL) and bleeding on probing (BOP). Experimental teeth were allocated to the following subgingival treatment groups according to PPD: 1) hand instrumentation; 2) hand instrumentation with irrigation; 3) ultrasonic instrumentation; 4) ultrasonic followed by hand instrumentation. Time used in the procedures was recorded. Follow-up examinations were performed at 30 and 90 days after treatment. Each patient's individual BOP, PPD and CAL means were analyzed with repeated-measures ANOVA. Differences in the instrumentation time were analyzed with 1-way ANOVA. Significance level was established at 5%. All treatments produced significant changes in the clinical parameters. BOP reduced, in proximal surfaces, from 67.21-79.17% at baseline to 45.75-51.54% at 90 days. Significant reductions were also found for PPD and CAL in all groups, both in proximal and free surfaces. Reductions in mean PPD at 90 days ranged from 0.92 to 1.14 mm for the free surfaces and from 1.01 to 1.35 mm for proximal surfaces, whereas reductions in CAL ranged from 0.43 to 0.82 mm and from 0.60 to 0.73 mm for free and proximal surfaces, respectively. Mean instrumentation time ranged from 4.77 to 5.30 minutes. No statistically significant differences were found among the four study groups. It can be concluded that the four methods of subgingival instrumentation were equally efficacious in the improvement of the studied clinical parameters.

Keywords : Periodontitis [therapy]; Dental scaling; Dental plaque [prevention & control]; Ultrasonics; Root planing.

[?abstract in portuguese](#)
[?text in english](#)
[?pdf in english](#)

services

-  custom services
-  Article in pdf format
-  Article in xml format
-  Article references
-  How to cite this article
-  Access statistics
-  Cited by SciELO
-  Similar in SciELO
-  Automatic translation
-  Show semantic highlights
-  Send this article by e-mail



All the content of the journal, except where otherwise noted, is licensed under a [Creative Commons License](#)

Sociedade Brasileira de Pesquisa Odontol^{ógica}

Av. Lineu Prestes, 2227
 Caixa Postal 8216
 05508-900 S^{ão} Paulo SP - Brazil
 Tel./Fax: +55 11 3091-7810



bor@sbpqo.org.br