

Brazilian Oral Research

Print version ISSN 1806-8324

Abstract


[PERUZZO, Daiane Cristina](#); [JANDIROBA, Priscila Fontoura Castelo Branco](#) and [NOGUEIRA FILHO, Getulio da Rocha](#). Use of 0.1% chlorine dioxide to inhibit the formation of morning volatile sulphur compounds (VSC). *Braz. oral res.* [online]. 2007, vol.21, n.1, pp. 70-74. ISSN . doi: 10.1590/S1806-83242007000100012.

The aim of this study was to evaluate the VSC-inhibiting effect of a commercially available mouthrinse (0.1% chlorine dioxide) when compared to its placebo. A 2-step double blind, crossover, randomised study was conducted with 14 dental students with healthy periodontium, who refrained from any mechanical plaque and tongue coating control during two 4-day experimental periods. The subjects were instructed to rinse 3 times daily with the assigned product during each period. A 7-day washout interval was established. VSCs levels were measured by a sulphide monitor at the beginning (baseline) and at the end of each experimental period. Statistical analyses were performed using Wilcoxon's and Mann-Whitney's non-parametric tests. At baseline, intragroup analysis revealed that VSCs levels did not differ between groups ($p > 0.05$); at day 5, the use of the chlorine dioxide mouthrinse did not change the baseline VSCs scores in the control group ($p > 0.05$), while a 2-fold increase was observed with the use of the placebo mouthrinse ($p < 0.05$). Intergroup analysis showed a significant difference between the VSCs levels of the test and control groups (40.2 ± 30.72 and 82.3 ± 75.63 ppb, $p < 0.001$) at day 5. Within the limits of this study, the findings suggest that a mouthrinse containing chlorine dioxide can maintain VSCs at lower levels in the morning breath.

Keywords : Mouthwashes; Halitosis; Chlorine dioxide.

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