

Brazilian Oral Research

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Abstract

[JOSGRILBERG, Mrika Botelho](#); [GUIMARAES, Murilo de Sousa](#); [PANSANI, Cyneu Aguiar](#) and [CORDEIRO, Rita de Cássia Loiola](#). Influence of the power level of an ultra-sonic system on dental cavity preparation. *Braz. oral res.* [online]. 2007, vol.21, n.4, pp. 362-367. ISSN 1806-8324. doi: 10.1590/S1806-83242007000400014.

The aim of this study was to evaluate the shape of dental cavities made with the CVDentus[®] system using different ultrasound power levels. One standard cavity was made on the buccal aspect of 15 bovine incisors with a CVDentus[®] cylindrical bur (82142). The sample was divided into three groups: G1 - ultrasound with power II; G2 - ultrasound with power III; and G3 - ultrasound with power IV. A standardizing device was used to obtain standardized preparations and ultrasound was applied during one minute in each dental preparation. The cavities were sectioned in the middle, allowing observation of the cavity profile with a magnifying glass, and width and depth measurement using the Leica Qwin program. The Kruskal-Wallis ($p < 0.05$) and Dunn statistical analyses demonstrated differences between the dental cavity shapes when powers III and IV were used. However, the cavities that were made with power III presented dimensions similar to those of the bur used for preparation. We concluded that the power recommended by the manufacturer (III) is the most adequate for use with the CVDentus[®] system.

Keywords : Dental cavity preparation; Technology, dental; Ultrasonography; Diamond.

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Sociedade Brasileira de Pesquisa Odontológica

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



bor@sbpqo.org.br