

## Brazilian Oral Research

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### Abstract

[DEUS, Gustavo De](#) et al. Analysis of the sealing ability of different obturation techniques in oval-shaped canals: a study using a bacterial leakage model. *Braz. oral res.* [online]. 2006, vol.20, n.1, pp. 64-69. ISSN 1806-8324. doi: 10.1590/S1806-83242006000100012.

The aim of this study was to evaluate the sealing ability of 3 obturation techniques in oval canals using a bacterial leakage model. Seventy mandibular incisors with oval canals were selected after buccolingual and mesiodistal radiographs, and divided into three groups. After instrumentation, the canals were obturated respectively by lateral condensation (G1), warm vertical condensation (G2) and Thermafil (G3). Five root canals were not obturated and served as positive controls; five teeth with intact crowns served as negative controls. All teeth were mounted on a 2 chamber apparatus and then exposed to human saliva. The number of days required for the entire contamination of the root canals was recorded, observing the turbidity of the BHI broth, for a period of 100 days. 84.21% of the samples from the lateral condensation group (G1); 84.21% of the samples from the warm vertical condensation group (G2); and 89.47% of the samples from the Thermafil System group (G3) showed no contamination at the end of the study. No statistical significant difference was found among the three techniques. The quality of the apical seal in the three techniques tested was similar.

Keywords : Root canal obturation; Dental leakage.

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