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Abstract

[CASSANHO, Anna Carolina Aguiar](#) et al. *In vitro* activity of zinc oxide-eugenol and glass ionomer cements on *Candida albicans*. *Braz. oral res.* [online]. 2005, vol.19, n.2, pp. 134-138. ISSN 1806-8324. doi: 10.1590/S1806-83242005000200011.

The aim of this study was to evaluate *in vitro* the antimicrobial activity of glass ionomer (GIC) and zinc oxide-eugenol (ZOE) cements against *Candida albicans*. Standardized GIC and ZOE specimens were maintained in contact with *C. albicans* suspension (1×10^6 cells/ml) at 37°C for 24 h, 48 h or 7 days. A control group without any testing cement was included. After the incubation period, aliquots of 0.1 ml were plated on Sabouraud's agar, and then the number of colonies was counted. The results were expressed as values of logarithms of colony-forming units per milliliter (log CFU/mL) and were analyzed statistically by Kruskal-Wallis ANOVA. After 48 h of incubation, the ZOE group presented no growth of *C. albicans*. GIC and control groups presented similar mean values at all tested periods. According to the results obtained, it could be concluded that, under the experimental conditions, ZOE cement was more effective *in vitro* against *C. albicans* than GIC.

Keywords : *Candida*; Candidiasis, oral; Glass ionomer cements; Zinc oxide-eugenol cement; Antimicrobial activity.

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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@sbpgo.org.br