

Brazilian Oral Research

Print version ISSN 1806-8324

Abstract

[CORREA, Fernanda Oliveira Bello](#) et al. Influence of diltiazem in combination with a sucrose-rich diet on gingival alterations in rats. *Braz. oral res.* [online]. 2009, vol.23, n.1, pp. 61-67. ISSN . doi: 10.1590/S1806-83242009000100011.

The aim of this study was to evaluate the influence of diltiazem in combination with a sucrose-rich diet on gingival alterations in rats. One hundred and twenty male Holtzman rats were randomly assigned to 10 groups (n = 12), being 2 control groups treated with saline and 8 test groups treated with diltiazem in daily doses of 5, 25, 50 and 100 mg/kg during 40 or 60 days. Afterwards, the mandibles were removed for macroscopic, histologic and histometric analyses of the buccal gingiva of the mandibular right first molar. No macroscopic characteristic of gingival overgrowth was observed in any of the groups. The microscopic analysis showed characteristics of normality with inflammatory cells only adjacent to the crevicular epithelium in all groups for both periods. The histometric analysis showed significant differences only for the epithelial tissue area in the 40-day period (Kruskal-Wallis; $P = 0.032$). Comparing the periods, significant differences regarding the connective and epithelial tissue areas were observed only in the group treated with a 25 mg/kg dose (Mann-Whitney; $P = 0.004$ and $P = 0.007$, respectively). Oral administration of diltiazem in combination with a sucrose-rich diet did not induce gingival alterations in rats.

Keywords : Diltiazem; Sucrose; Gingiva; Rats.

[?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^gica

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

 e-Mail

bor@sbpqo.org.br