

NCBI PubMed

PubMed QUERY

PubMed ?

Other Formats: Citation MEDLINE

Links: Related Articles

 Order this document*J Endod* 1998 Feb;24(2):91-6

Cytotoxicity of endodontic materials.

Osorio RM, Hefti A, Vertucci FJ, Shawley AL

Department of Estomatoquirurgica, University of Carabobo, Venezuela.

An in vitro cell culture model of human gingival fibroblasts and L-929 cells was used to measure the cytotoxicity of currently used root canal sealers Endomet, CRCS, and AH26 and root-end filling materials Amalgam, Gallium GF2, Ketac Silver, mineral trioxide aggregate (MTA), and Super-EBA. Cytotoxic effects were assessed using the MTT assay for mitochondrial enzyme activity and the CV assay for cell numbers. Using inserts culture and L-929 fibroblasts. All-Bond-2 was also evaluated. The statistical analysis of results showed that CRCS was the least cytotoxic sealer followed by Endomet and AH26. Among root-end filling materials, MTA was not cytotoxic; Gallium GF2 displayed little cytotoxicity; and Ketac Silver, Super-EBA, and Amalgam showed higher levels of cytotoxicity. All Bond-2 also displayed a high degree of cytotoxicity. CRCS was the best root canal sealer and MTA the best root-end filling material. The outcome was favorable also for Gallium GF2 as a retrofilling material.

PMID: 9641138, UI: 98305320

 the above report in format documents on this page through Loansome Doc