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Clinical and radiographic evaluation of root perforation repair using MTA.

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Abstract

An accident that can occur during endodontic treatment is perforation, which adversely affects the prognosis of the teeth. A restorative material should be easy to use, nonresorbable, biocompatible, esthetically pleasing, and should provide a complete seal. Mineral trioxide aggregate (MTA) is a relatively new material that is being used successfully to repair perforation. The purpose of this study was to perform a clinical and radiographical evaluation of the success rate of root perforation repairs using mineral trioxide aggregate. Based upon the results of this study, MTA is a suitable material for root perforation repair and can be used confidently.

Reaxys Database Information

Indexed Keywords

EMTREE drug terms: aluminum derivative; calcium derivative; mineral trioxide aggregate; oxide; root canal filling material; silicate; unclassified drug

EMTREE medical terms: adult; article; clinical trial; dental equipment; drug combination; endodontics; human; injury; instrumentation; radiography; tooth injury; tooth root; treatment outcome

MeSH: Adult; Aluminum Compounds; Calcium Compounds; Dental Instruments; Drug Combinations; Humans; Oxides; Root Canal Filling Materials; Root Canal Preparation; Silicates; Tooth Injuries; Tooth Root; Treatment Outcome

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Chemicals and CAS Registry Numbers: oxide, 16833-27-5; silicate, 12627-13-3; Aluminum Compounds; Calcium Compounds; Drug Combinations; Oxides; Root Canal Filling Materials; Silicates; mineral trioxide aggregate

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