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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 58087

Manuscript Type: CASE REPORT

Conservative endodontic management using a calcium silicate bioceramic sealer for delayed root fracture: A case report and review of literature

Endodontic management for delayed root fracture

Abstract

BACKGROUND

The success rate of conservative endodontic management for root fracture varies greatly based on different methods used. It has been rarely reported that calcium silicate-based materials were applied in root fracture treatment.

CASE SUMMARY

A 38-year-old male patient presented with spontaneous pain from the upper left

Match Overview

1	Crossref 55 words M. Cvek. "Conservative endodontic treatment of teeth fractured in the middle or apical part of the root", Dental Traumatology	2%
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This **case report** presents the **endodontic** and prosthodontic **management** of a maxillary central incisor with a combined **fracture** in the middle third of the **root** and the crown, as well as the 7-year ...

(PDF) Regenerative Endodontic Procedures Using ...

<https://www.researchgate.net/publication/331886067...>

MTA is the most used material to perform this **seal**, but updated guidelines advise the **use** of other bioactive **endodontic** cements that incorporate **calcium** and **silicate** in their compositions.

(PDF) Endodontic management of root perforating internal ...

<https://www.researchgate.net/publication/326730794...>

This **case report** presents the **management** of a **case** of rarely seen perforating internal replacement resorption **using calcium** hydroxide (CH) medication and mineral trioxide aggregate (MTA) **root** ...

Treatment of inflammatory internal root resorption with ...

<https://onlinelibrary.wiley.com/doi/10.1111/j.1365-2591.2008.01412.x>

Aim To **report** the treatment and follow-up of a maxillary central incisor with internal resorption managed by **root canal** treatment, white mineral trioxide aggregate (MTA) repair and a fibre-glass pos...

Cited by: 140

Author: M. Jacobovitz, R. K. P. de Lima

Publish Year: 2008

Apical Closure in Apexification: A Review and Case Report ...

<https://www.sciencedirect.com/science/article/pii/S0099239916001345>

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Bioceramic-Based Root Canal Sealers: A Review

<https://www.hindawi.com/journals/ijbm/2016/9753210> ▼

Abstract

Introduction

Ideal Root Canal Sealer Properti...

Conclusion

Bioceramic-based root canal sealers are considered to be an advantageous technology in endodontics. The aim of this review was to consider laboratory experiments and clinical studies of these sealers. An extensive search of the endodontic literature was made to identify publications related to bioceramic-based root canal sealers. The outcome of laboratory and clinical studies on the biological and physical properties of bioceramic-based sealers along with comparative studies with other sealers was assessed...

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Cited by: 75

Author: Afaf Al-Haddad, Zeti Adura Che Ab Aziz

Publish Year: 2016

Conservative endodontic treatment in the middle or apical ...

<https://www.researchgate.net/publication/8359331...>

This **case report** presents the **endodontic** and prosthodontic **management** of a maxillary central incisor with a combined **fracture** in the middle third of the **root** and the crown, as well as the 7-year ...

Bioactivity evaluation of three calcium silicate-based ...

<https://www.onlinelibrary.wiley.com/doi/10.1111/iej.12062>

Ahmad S. Al-Hiyasat, Suha A. Alfirjani, The effect of obturation techniques on the push-out bond strength of a premixed **bioceramic root canal sealer**, Journal of Dentistry, 10.1016/j.jdent.2019.07.007, (2019).

Bioceramic-Based Root Canal Sealers: A Review. - PDF ...

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Paul Henryk Hadrossek, Till Dammaschke, New treatment option for an incomplete vertical **root fracture**—a preliminary **case report**, Head & Face Medicine, ...

Endodontic sealers based on calcium silicates: a ...

<https://www.researchgate.net/publication/329697338...>

Recently, sealers based on **calcium** silicates were developed as a new class of **endodontic** sealers. Inspired by the excellent sealing ability and biocompatibility of **calcium silicate**-based cements ...

Conservative endodontic treatment in the middle or apical ...

<https://www.researchgate.net/publication/8359331...>

This **case report** presents the **endodontic** and prosthodontic **management** of a maxillary central incisor with a combined **fracture** in the middle third of the **root** and the crown, as well as the 7-year ...

In vivo Biocompatibility and Bioactivity of Calcium ...

<https://europepmc.org/article/PMC/PMC7658386> ▾

Oct 29, 2020 · The aim of this **review** is to summarize the studies about the in vivo biocompatibility and bioactivity of four common **calcium silicate**-based bioceramics in endodontics via different animal...

Author: Wencheng Song, Wei Sun, Lili Chen, Zhe... **Publish Year:** 2020

Local drug delivery in endodontics: A literature review ...

<https://www.sciencedirect.com/science/article/pii/S1773224716303720>

Jun 01, 2017 · Recently, popular **calcium silicate**-based **bioceramic** sealers have been reported to have antimicrobial properties with the increase of pH to a degree , . **Calcium** hydroxide-based sealers such a...

Cited by: 1 **Author:** Shin Hye Chung, Young-Seok Park

Publish Year: 2017

Endodontic Management of Dens Evaginatus Using Bioceramic ...

<https://www.researchgate.net/publication/338139092...>

Aim: This **case report** aims to describe nonsurgical **endodontic** treatment in a second mandibular premolar (tooth #45) with type II dens evaginatus **using** a new **bioceramic** material (OrthoMTA).