

Review Article

[The Effect of Sodium Hypochlorite and Chlorhexidine as Irrigant Solutions for Root Canal Disinfection: A Systematic Review of Clinical Trials](#)

Lucio Souza Gonçalves, Renata Costa Val Rodrigues, Carlos Vieira Andrade Junior, Renata G. Soares, Mario Vianna Vettore

Clinical Research

[Periapical Bone Healing after Apicectomy with and without Retrograde Root Filling with Mineral Trioxide Aggregate: A 6-year Follow-up of a Randomized Controlled Trial](#)

Casper Kruse, Rubens Spin-Neto, René Christiansen, Ann Wenzel, Lise-Lotte Kirkevang

[Prevalence of Apical Periodontitis in Endodontically Treated Premolars and Molars with Untreated Canal: A Cone-beam Computed Tomography Study](#)

Bekir Karabucak, Alf Bunes, Christel Chehoud, Meetu R. Kohli, Frank Setzer

[Variability in Capsaicin-stimulated Calcitonin Gene-related Peptide Release from Human Dental Pulp](#)

Lorel E. Burns, Austin A. Ramsey, Joshua J. Emrick, Malvin N. Janal, Jennifer L. Gibbs

[Metalloproteinases 2 and 9 Immunoexpression in Periapical Lesions from Primary Endodontic Infection: Possible Relationship with the Histopathological Diagnosis and the Presence of Pain](#)

Isabel Schausltz Pereira Faustino, Rebeca Souza Azevedo, Ademar Takahama

[Quantification of Lipoteichoic Acid Contents and Cultivable Bacteria at the Different Phases of the Endodontic Retreatment](#)

Marlos Barbosa-Ribeiro, Adriana De-Jesus-Soares, Alexandre A. Zaia, Caio C.R. Ferraz, José F.A. Almeida, Brenda P.F.A. Gomes

[Cracked Teeth: Distribution, Characteristics, and Survival after Root Canal Treatment](#)

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Regenerative Endodontics

[A Review of Tooth Discoloration after Regenerative Endodontic Therapy](#)

Bill Kahler, Giampiero Rossi-Fedele

[Lipoteichoic Acid of *Enterococcus faecalis* Inhibits the Differentiation of Macrophages into Osteoclasts](#)

Jihyun Yang, Ok-Jin Park, Jiseon Kim, Jung Eun Baik, Cheol-Heui Yun, Seung Hyun Han

[Effects of Recombinant Overexpression of Bcl2 on the Proliferation, Apoptosis, and Osteogenic/Odontogenic Differentiation Potential of Dental Pulp Stem Cells](#)

Boon Chin Heng, Xin Ye, Yuan Liu, Waruna Lakmal Dissanayaka, Gary Shun Pan Cheung, Chengfei Zhang

Basic Research

Biology

[Prostaglandin E2 Stimulates EP2, Adenylate Cyclase, Phospholipase C, and Intracellular Calcium Release to Mediate Cyclic Adenosine Monophosphate Production in Dental Pulp Cells](#)

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[Biodentine Reduces Tumor Necrosis Factor Alpha-induced TRPA1 Expression in Odontoblastlike Cells](#)

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[Expression of Mineralization Markers during Pulp Response to Biodentine and Mineral Trioxide Aggregate](#)

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[Hypertension Undermines Mineralization-inducing Capacity of and Tissue Response to Mineral Trioxide Aggregate Endodontic Cement](#)

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[Root Canal Morphology and Configuration of 118 Mandibular First Molars by Means of Micro-Computed Tomography: An Ex Vivo Study](#)

Thomas Gerhard Wolf, Frank Paqué, Maximilian Zeller, Brita Willershausen, Benjamín Briseño-Marroquín

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[Bioactivity Potential of EndoSequence BC RRM Putty](#)

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[Evaluation of Interference of Cellular Phones on Electronic Apex Locators: An In Vitro Study](#)

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[Influence of Cervical and Apical Enlargement Associated with the WaveOne System on the Transportation and Centralization of Endodontic Preparations](#)

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[Dentinal Tubule Penetration of Tricalcium Silicate Sealers](#)

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[Removal of Radioactively Marked Calcium Hydroxide from the Root Canal: Influence of Volume of Irrigation and Activation](#)

José Zorzín, Jessica Wießner, Thomas Wießner, Ulrich Lohbauer, Anselm Petschelt, Johannes Ebert

[Calcium Hypochlorite Solutions: Evaluation of Surface Tension and Effect of Different Storage Conditions and Time Periods over pH and Available Chlorine Content](#)

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[Efficacy of Different Nickel-Titanium Instruments in Removing Gutta-percha during Root Canal Retreatment](#)

Taha Özyürek, Ebru Özsezer Demiryürek

[Comparison of Mechanical and Indirect Ultrasonic Placement Technique on Mineral Trioxide Aggregate Retrofill Density in Simulated Root-end Surgery](#)

Christopher C. Friedl, Anne E. Williamson, Deborah V. Dawson, Manuel R. Gomez, Wei Liu

[Comparative Analysis of Calcium Silicate-based Root Filling Materials Using an Open Apex Model](#)

Dennis Tran, Jianing He, Gerald N. Glickman, Karl F. Woodmansey

[Investigation of the Efficacy of Passive Ultrasonic Irrigation Versus Irrigation with Reciprocating Activation: An Environmental Scanning Electron Microscopic Study](#)

Augusto Shoji Kato, Rodrigo Sanches Cunha, Carlos Eduardo da Silveira Bueno, Rina Andrea Pelegrine, Carlos Eduardo Fontana, Alexandre Sigríst de Martin

Case Report/Clinical Techniques

[Nonsurgical Endodontic Management of a Molar-Incisor Malformation-affected Mandibular First Molar: A Case Report](#)

Wonyoung Yue, Euseong Kim

[A Rare Case of Type III Dens Invaginatus in a Mandibular Second Premolar and Its Nonsurgical Endodontic Management by Using Cone-beam Computed Tomography: A Case Report](#)

Pritesh Kisanlal Agrawal, Jyoti Wankhade, Manjusha Warhadpande

[Rare Root Canal Configuration of Bilateral Maxillary Second Molar Using Cone-beam Computed Tomographic Scanning](#)

Chang Zeng, Ya Shen, Xiaoyue Guan, Xin Wang, Mingwen Fan, Yuhong Li

[Pulp Obliteration in a Patient with Sclerodermatous Chronic Graft-versus-Host Disease](#)

Camilla Borges Ferreira Gomes, Nathaniel Simon Treister, Brian Miller, Philippe Armand, Bernard Friedland