

CONSORT Randomized Clinical Trial

[A Comparison of the Efficacy of 4% Articaine with 1:100,000 Epinephrine and 2% Lidocaine with 1:80,000 Epinephrine in Achieving Pulpal Anesthesia in Maxillary Teeth with Irreversible Pulpitis](#)

Mohammad D. Kanaa, John M. Whitworth, John G. Meechan

Clinical Research

[Postorthodontic External Root Resorption in Root-filled Teeth Is Influenced by Interleukin-1 \$\beta\$](#)

[Polymorphism](#) Alejandro Iglesias-Linares, Rosa-María Yañez-Vico, Estefanía Ortiz-Ariza, Sofía Ballesta, Asunción Mendoza-Mendoza, Evelio Perea, Enrique Solano-Reina

[Analysis of Factors Associated with Cracked Teeth](#) Deog-Gyu Seo, Young-Ah Yi, Su-Jung Shin, Jeong-Won Park

[Residual Filling Material in Dentinal Tubules after Gutta-percha Removal Observed with Scanning Electron Microscopy](#) Li-li Xu, Lan Zhang, Xue-dong Zhou, Rui Wang, Yan-han Deng, Ding-ming Huang

[Type 2 Diabetes Mellitus and the Prevalence of Apical Periodontitis and Endodontic Treatment in an Adult Brazilian Population](#) Patrícia S. Marotta, Tatiana V. Fontes, Luciana Armada, Kenio C. Lima, Isabela N. Rôças, José F. Siqueira

[Cone-Beam Computed Tomography Study of Incidence of Distolingual Root and Distance from Distolingual Canal to Buccal Cortical Bone of Mandibular First Molars in a Korean Population](#) Sin-Young Kim, Sung-Eun Yang

[Influence of Cone-Beam Computed Tomography Enhancement Filters on Diagnosis of Simulated External Root Resorption](#) Sergio Lins de Azevedo Vaz, Taruska Ventrini Vasconcelos, Frederico Sampaio Neves, Deborah Queiroz de Freitas, Francisco Haiter-Neto

[A Micro-Computed Tomography Study of the Location and Curvature of the Lingual Canal in the Mandibular First Premolar with Two Canals Originating from a Single Canal](#) Xiangjie Li, Na Liu, Ning Liu, Lijun Ye, Xing Nie, Xia Zhou, Xiujie Wen, Rui Liu, Luchuan Liu, Manjing Deng

Basic Research

Biology

[Expression of Angiogenic Factors in Rat Periapical Lesions](#) Yusuke Yamanaka, Tomoatsu Kaneko, Kunihiro Yoshida, Reika Kaneko, Nagako Yoshida, Yoshimi Shigetani, Jacques E. Nör, Takashi Okiji

[Development of a Multispecies Biofilm Community by Four Root Canal Bacteria](#) Luis E. Chávez de Paz

[Mineral Trioxide Aggregate and Portland Cement Promote Biomineralization *In Vivo*](#) Luonothar Antunes Schmitt Dreger, Wilson Tadeu Felipe, Jessie Fabiola Reyes-Carmona, Gabriela Santos Felipe, Eduardo Antunes Bortoluzzi, Mara Cristina Santos Felipe

[The Effect of Matrix Extracellular Phosphoglycoprotein and Its Downstream Osteogenesis-related Gene Expression on the Proliferation and Differentiation of Human Dental Pulp Cells](#) Xi Wei, Lu Liu, Xiaoyan Zhou, Fang Zhang, Junqi Ling

[Histone Deacetylase Inhibitors Induced Differentiation and Accelerated Mineralization of Pulp-derived Cells](#) Henry F. Duncan, Anthony J. Smith, Garry J.P. Fleming, Paul R. Cooper

[Bacteria-reactive Immune Response May Induce RANKL-expressing T Cells in the Mouse Periapical Bone Loss Lesion](#) Marcelo J.B. Silva, Mikihiro Kajiya, Emad AlShwaimi, Hajime Sasaki, Jennifer Hong, Peter Ok, Taia M.B. Rezende, Tom C. Pagonis, Robert R. White, Bruce J. Paster, Philip Stashenko, Toshihisa Kawai

[Antibacterial and Neutralizing Effect of Human \$\beta\$ -Defensins on *Enterococcus faecalis* and *Enterococcus faecalis* Lipoteichoic Acid](#) Sung-Hoon Lee, Dong-Heon Baek

Errata

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Basic Research

Technology

[Physical Effects of Sodium Hypochlorite on Bone: An *Ex Vivo* Study](#) Frank M. Kerbl, Patricia DeVilliers, Mark Litaker, Paul D. Eleazer

[Antimicrobial Photodynamic Therapy for the Treatment of Teeth with Apical Periodontitis: A Histopathological Evaluation](#) Lea Assed Bezerra Silva, Arthur B. Novaes, Rafael R. de Oliveira, Paulo Nelson-Filho, Milton Santamaria, Raquel Assed Bezerra Silva

[Biocompatibility of New Calcium Aluminate Cement \(EndoBinder\)](#) Fabiano Gamero Aguilar, Lucas Fonseca Roberti Garcia, Fernanda Carvalho Panzeri Pires-de-Souza

[Physicochemical and Pulp Tissue Dissolution Properties of Some Household Bleach Brands Compared with a Dental Sodium Hypochlorite Solution](#) Holger Jungbluth, Christine Peters, Ove Peters, Beatrice Sener, Matthias Zehnder

[Effect of Environment on Fatigue Failure of Controlled Memory Wire Nickel-Titanium Rotary Instruments](#) Ya Shen, Wei Qian, Houman Abtin, Yuan Gao, Markus Haapasalo

[Comparison of the Effect of Four Decalcifying Agents Combined with 60°C 3% Sodium Hypochlorite on Smear Layer Removal](#) Ligeng Wu, Ying Mu, Xiuli Deng, Shasha Zhang, Dongyan Zhou

[Cytotoxicity Comparison of Three Current Direct Pulp-capping Agents with a New Bioceramic Root Repair Putty](#) Wade R. Hirschman, Michelle A. Wheeler, Josef S. Bringas, Michael M. Hoen

[Computed Micro-Tomographic Evaluation of Glide Path with Nickel-Titanium Rotary PathFile in Maxillary First Molars Curved Canals](#) Damiano Pasqualini, Caterina Chiara Bianchi, Davide Salvatore Paolino, Lucia Mancini, Andrea Cemenasco, Giuseppe Cantatore, Arnaldo Castellucci, Elio Berutti

[Effect of Different Radiopacifying Agents on the Physicochemical Properties of White Portland Cement and White Mineral Trioxide Aggregate](#) Marco Antonio Hungaro Duarte, Paloma Gagliardi Minotti, Clarissa Teles Rodrigues, Ronald Ordinola Zapata, Clovis Monteiro Bramante, Mário Tanomaru Filho, Rodrigo Ricci Vivan,IVALDO GOMES DE MORAES, Flaviana Bombarda de Andrade

[Evaluation of the Impact of Raw Materials on the Fatigue and Mechanical Properties of ProFile Vortex Rotary Instruments](#) Yong Gao, James L. Gutmann, Kevin Wilkinson, Randall Maxwell, Dan Ammon

[Buckling Resistance of Pathfinding Endodontic Instruments](#) Hélio P. Lopes, Carlos N. Elias, Marcelo Mangelli, Weber S.P. Lopes, Giorgiana Amaral, Letícia C. Souza, José F. Siqueira

[Effects of Simvastatin and Enamel Matrix Derivative on Portland Cement with Bismuth Oxide-](#)

[induced Growth and Odontoblastic Differentiation in Human Dental Pulp Cells](#) So-Youn Lee, Kyung-San Min, Gi-Woon Choi, Jae-Hong Park, Sang-Hyuk Park, Sang-Im Lee, Eun-Cheol Kim