



Clinical Research

[Impact of Three Radiographic Methods in the Outcome of Nonsurgical Endodontic Treatment: A Five-Year Follow-up](#)

Rafael Fernández, Diego Cadavid, Sandra M. Zapata, Luis G. Álvarez, Felipe A. Restrepo

[Outcomes of Hospitalizations Attributed to Periapical Abscess from 2000 to 2008: A Longitudinal Trend Analysis](#)

Andrea C. Shah, Kelly K. Leong, Min Kyeong Lee, Veerasathpurush Allareddy

[A Novel Method to Estimate the Volume of Bone Defects Using Cone-Beam Computed Tomography: An *In Vitro* Study](#)

Stefano Andrea Esposito, Bart Huybrechts, Pieter Slagmolen, Elisabetta Cotti, Wim Coucke, Ruben Pauwels, Paul Lambrechts, Reinhilde Jacobs

[Comparative Evaluation of the Efficacy of 2% Lidocaine Containing 1:200,000 Epinephrine with and without Hyaluronidase \(75 IU\) in Patients with Irreversible Pulpitis](#)

Sarvepalli Venkata Satish, Krishna Prasad Shetty, Krishnarao Kilaru, Puridi Bhargavi, E. Srinivas Reddy, Aditya Bellutgi

[Potential Correlation between Statins and Pulp Chamber Calcification](#)

Mary T. Pettiette, Sheng Zhong, Antonio J. Moretti, Asma A. Khan

[Three-dimensional Analysis of Root Canal Curvature and Direction of Maxillary Lateral Incisors by Using Cone-beam Computed Tomography](#)

Pan-Soo Park, Kee-Deog Kim, Hiran Perinpanayagam, Jong-Ki Lee, Seok Woo Chang, Shin Hye Chung, Blythe Kaufman, Qiang Zhu, Kamran E. Safavi, Kee-Yeon Kum

[Morphologic Micro-Computed Tomography Analysis of Mandibular Premolars with Three Root Canals](#)

Ronald Ordinola-Zapata, Clóvis Monteiro Bramante, Marcelo Haas Villas-Boas, Bruno Cavalini Cavenago, Marco Húngaro Duarte, Marco Aurélio Versiani

[Microbial Analysis in Primary and Persistent Endodontic Infections by Using Pyrosequencing](#)

Bo-Young Hong, Tae-Kwon Lee, Sang-Min Lim, Seok Woo Chang, Joonhong Park, Seung Hyun Han, Qiang Zhu, Kamran E. Safavi, Ashraf F. Fouad, Kee Yeon Kum

Basic Research Biology

[MMP-7 and TIMP-1, New Targets in Predicting Poor Wound Healing in Apical Periodontitis](#)

Ariadne Letra, Ghazaleh Ghaneh, Min Zhao, Herbert Ray, Carolina Favaro Francisconi, Gustavo Pompermaier Garlet, Renato Menezes Silva

[Application of High-frequency Radio Waves to Direct Pulp Capping](#)

Keisuke Handa, Toshiyuki Koike, Keijiro Hayashi, Takashi Saito

[Hydrogen Peroxide Induces Apoptosis in Human Dental Pulp Cells via Caspase-9 Dependent Pathway](#)

Tian-tian Wu, Li-fen Li, Rong Du, Long Jiang, Ya-Qin Zhu

[2-Hydroxyethyl Methacrylate Inhibits Migration of Dental Pulp Stem Cells](#)

Drake W. Williams, Hongkun Wu, Ju-Eun Oh, Camron Fakhar, Mo K. Kang, Ki-Hyuk Shin, No-Hee Park, Reuben H. Kim

Technology

[*In Vitro* Osteogenic/Dentinogenic Potential of an Experimental Calcium Aluminosilicate Cement](#)

Ashraf A. Eid, Li-na Niu, Carolyn M. Primus, Lynne A. Opperman, David H. Pashley, Ikuya Watanabe, Franklin R. Tay

[Timing for Composite Resin Placement on Mineral Trioxide Aggregate](#)

Masaki Tsujimoto, Yasuhisa Tsujimoto, Atsushi Ookubo, Takano Shiraishi, Ikuya Watanabe, Shizuka Yamada, Yoshihiko Hayashi

[Comparative Antibacterial Efficacies of Hydrodynamic and Ultrasonic Irrigation Systems *In Vitro*](#)

Georg Cachovan, Ulrich Schiffner, Saskia Altenhof, Arndt Guentsch, Wolfgang Pfister, Sigrun Eick

[Comparison of Warm Vertical Compaction Protocols to Obturate Artificially Created Defects in the Apical One-third](#)

Candice Perry, James C. Kulild, Mary P. Walker

Case Report/Clinical Techniques

[Infection in a Complex Network of Apical Ramifications as the Cause of Persistent Apical Periodontitis: A Case Report](#)

Michael Arnold, Domenico Ricucci, José F. Siqueira

[Misdiagnosis of a Nasopalatine Duct Cyst: A Case Report](#)

Paul B. Hilfer, Brian E. Bergeron, Ender S. Ozgul, Danny K. Wong

[Retrieval of Extensive Gutta-percha Extruded into the Maxillary Sinus: Use of 3-dimensional Cone-Beam Computed Tomography](#)

John K. Brooks, Justin W. Kleinman

Book Review

[Contemporary Restoration of Endodontically Treated Teeth: Evidence-based Diagnosis and Treatment Planning](#)

Nikita Ruparel