

Clinical Research

[Evaluation of Root Canal Configuration of Mandibular Molars in a Brazilian Population by Using Cone-beam Computed Tomography: An *In Vivo* Study](#)

Emmanuel João Nogueira Leal Silva, Yuri Nejaim, Amaro V. Silva, Francisco Haiter-Neto, Nestor Cohenca

[Association between Periapical Lesions and Maxillary Sinus Mucosal Thickening: A Retrospective Cone-beam Computed Tomographic Study](#)

Siddharth Shanbhag, Prabodh Karnik, Prashant Shirke, Vivek Shanbhag

Basic Research Biology

[Analysis of Genetic Lineages and Their Correlation with Virulence Genes in *Enterococcus faecalis* Clinical Isolates from Root Canal and Systemic Infections](#)

Pâmela P. Penas, Marcia P.A. Mayer, Brenda P.F.A. Gomes, Marcos Endo, Antonio C.C. Pignatari, Karen C. Bauab, Ericka T. Pinheiro

[Osteocalcin Expression in Pulp Inflammation](#)

Ashraf Abd-Elmeguid, Marwa Abdeldayem, Loren W. Kline, Redwan Moqbel, Harrisios Vliagoftis, Donald C. Yu

[Advanced Glycation End-products Enhance Calcification in Cultured Rat Dental Pulp Cells](#)

Yukiko Nakajima, Yuji Inagaki, Yuka Hiroshima, Jun-ichi Kido, Toshihiko Nagata

[Evaluation of Gelatinases, Tissue Inhibitor of Matrix Metalloproteinase-2, and Myeloperoxidase Protein in Healthy and Inflamed Human Dental Pulp Tissue](#)

Thais Accorsi-Mendonça, Emmanuel João Nogueira Leal Silva, Andrea Márcia Marcaccini, Rachel Fernanda Gerlach, Keila Maria Roncato Duarte, Ana Paula Souza Pardo, Sérgio Roberto Peres Line, Alexandre Augusto Zaia

[In Vitro Biocompatibility Evaluation of a Root Canal Filling Material That Expands on Water Sorption](#)

Ashraf A. Eid, Sergey Y. Nikonov, Stephen W. Looney, Anthony Didato, Li-na Niu, Martin D. Levin, Frederick A. Rueggeberg, David H. Pashley, Ikuya Watanabe, Franklin R. Tay

[The Impact of Chlorhexidine-based Endodontic Treatment on Periapical Cytokine Expression in Teeth](#)

Warley Luciano Fonseca Tavares, Luciana Carla Neves de Brito, Luiz Carlos Feitosa Henriques, Ricardo Reis Oliveira, Kamilla Faria Maciel, Leda Quércia Vieira, Antônio Paulino Ribeiro Sobrinho

Technology

[Retreatability of 2 Mineral Trioxide Aggregate-based Root Canal Sealers: A Cone-beam Computed Tomography Analysis](#)

Prasanna Neelakantan, Deeksha Grotra, Subash Sharma

[A Comparison of the Dentin Cutting Efficiency of 4 Pointed Ultrasonic Tips](#)

Matthew P. Godfrey, James C. Kulild, Mary P. Walker

[An *Ex Vivo* Comparison of Digital Radiography and Cone-beam and Micro Computed Tomography in the Detection of the Number of Canals in the Mesio Buccal Roots of Maxillary Molars](#)

Jeffrey D. Domark, John F. Hatton, Roxanne P. Benison, Charles F. Hildebolt

[Computed Tomographic Evaluation of Canal Shape Instrumented by Different Kinematics Rotary Nickel-Titanium Systems](#)

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[Efficacy of Flowable Gel-type EDTA at Removing the Smear Layer and Inorganic Debris under Manual Dynamic Activation](#)

Hee-Jin Kim, Su-Jung Park, Sang-Hyuk Park, Yun-Chan Hwang, Mi-Kyung Yu, Kyung-San Min

[Physical Properties of MTA Fillapex Sealer](#)

Rafael Pino Vitti, Carlo Prati, Emmanuel João Nogueira Leal Silva, Mário Alexandre Coelho Sinhorette, Cesar Henrique

Zanchi, Manuela Gonçalves de Souza e Silva, Fabrício Aulo Ogliari, Evandro Piva, Maria Giovanna Gandolfi

[Phase Transformation Behavior and Mechanical Properties of Thermomechanically Treated K3XF Nickel-Titanium Instruments](#)

Ya Shen, Hui-min Zhou, Zhejun Wang, Les Campbell, Yu-feng Zheng, Markus Haapasalo

[Percentage of Gutta-percha-filled Areas in Canals Instrumented with Nickel-Titanium Systems and Obturated with Matching Single Cones](#)

Edgar Schäfer, Maja Köster, Sebastian Bürklein

Case Report/Clinical Techniques

[Regenerative Endodontic Treatment of Permanent Teeth after Completion of Root Development: A Report of 2 Cases](#)

Khimiya Paryani, Sahng G. Kim

[Malignant Lymphoma in Maxilla with Cystic Involvement: A Case Report](#)

Tyler Koivisto, Walter R. Bowles, William A. Magajna, Michael Rohrer

Book Review

The Face: Pictorial Atlas of Clinical Anatomy

Julie Berkhoff