



## CONSORT Randomized Clinical Trial

[Anesthetic Efficacy of a Primary Articaine Infiltration and a Repeat Articaine Infiltration in the Incisive/Mental Nerve Region of Mandibular Premolars: A Prospective, Randomized, Single-blind Study](#) Anna Smothers Dressman, John Nusstein, Melissa Drum, AI Reader

## Review Article

[Revascularization: A Treatment for Permanent Teeth with Necrotic Pulp and Incomplete Root Development](#) Ronald Wigler, Arie Y. Kaufman, Shaul Lin, Nelly Steinbock, Hagai Hazan-Molina, Calvin D. Torneck

## Clinical Research

[Prognostic Factors for Clinical Outcomes According to Time after Direct Pulp Capping](#) Sin-Yeon Cho, Deog-Gyu Seo, Shin-Jae Lee, Junghyun Lee, Seung-Jong Lee, Il-Young Jung

[Outcomes of Surgical Endodontic Treatment Performed by a Modern Technique: An Updated Meta-analysis of the Literature](#) Igor Tsesis, Eyal Rosen, Silvio Taschieri, Yoel Telishevsky Strauss, Valentina Ceresoli, Massimo Del Fabbro

## Basic Research Biology

[Aging of \*In Vitro\* Pulp Illustrates Change of Inflammation and Dentinogenesis](#) Young-Hee Lee, Go-Eun Kim, Hye-Jin Cho, Mi-Kyoung Yu, Govinda Bhattarai, Nan-Hee Lee, Ho-Keun Yi

[Comparative Analysis of \*Enterococcus faecalis\* Biofilm Formation on Different Substrates](#) Juliane Maria Guerreiro-Tanomaru, Norberto Batista de Faria-Júnior, Marco Antônio Húngaro Duarte, Ronald Ordinola-Zapata, Márcia Sirlene Zardin Graeff, Mário Tanomaru-Filho

[CD44 Is Involved in Mineralization of Dental Pulp Cells](#) Kuan-Liang Chen, Yu-Yuan Huang, Jrhau Lung, Ying-Yi Yeh, Kuo Yuan

[Characterization of a Stem Cell of Apical Papilla Cell Line: Effect of Passage on Cellular Phenotype](#) Nikita B. Ruparel, José Flávio Affonso de Almeida, Michael A. Henry, Anibal Diogenes

[Efficacy of Bacteriophage Treatment on \*Pseudomonas aeruginosa\* Biofilms](#) Alysen Phee, Joe Bondy-Denomy, Anil Kishen, Bettina Basrani, Amir Azarpazhooh, Karen Maxwell

[Collagen-binding Streptococcal Surface Proteins Influence the Susceptibility of Biofilm Cells to Endodontic Antimicrobial Solutions](#) Timothy L. Violante, Elaine M. Haase, M. Margaret Vickerman

## Technology

[Estimation of the Failure Risk of a Maxillary Premolar with Different Crack Depths with Endodontic Treatment by Computer-aided Design/Computer-aided Manufacturing Ceramic Restorations](#) Chun-Li Lin, Yen-Hsiang Chang, Shih-Kai Hsieh, Wen-Jen Chang

[Effect of Various Endodontic Irrigants on the Push-out Bond Strength of Biodentine and Conventional Root Perforation Repair Materials](#) Mehmet Burak Guneser, Makbule Bilge Akbulut, Ayce Unverdi Eldeniz

[Micro-Computed Tomography Evaluation of the Preparation of Mesio Buccal Root Canals in Maxillary First Molars with Hyflex CM, Twisted Files, and K3 Instruments](#) Dan Zhao, Ya Shen, Bin Peng, Markus Haapasalo

[Effect of R-phase Heat Treatment on Torsional Resistance and Cyclic Fatigue Fracture](#) Jung-Hong Ha, Sung Kyo Kim, Nestor Cohenca, Hyeon-Cheol Kim

[An \*In Vitro\* Comparison of the Accuracy of Measurements Obtained from High- and Low-resolution Cone-beam Computed Tomography Scans](#) Danya Hashem, Jackie E. Brown, Shanon Patel, Francesco Mannocci, Ana Nora Donaldson, Timothy F. Watson, Avijit Banerjee

[Comparison of the Cleaning Efficacy of Self-Adjusting File and Rotary Systems in the Apical Third of Oval-shaped Canals](#) Marcus Vinícius de Melo Ribeiro, Yara Terezinha Silva-Sousa, Marco Aurélio Versiani, Alessandro Lamira,

Liviu Steier, Jesus Djalma Pécora, Manoel Damião de Sousa-Neto

[In Vitro Assessment of Mineral Trioxide Aggregate Setting in the Presence of Interstitial Fluid](#)

[Alone](#) Lara DeAngelis, Ramanathan Chockalingam, Aida Hamidi-Ravari, Sophea Hay, Vivien Lum, Chankhrit Sathorn, Peter

Parashos

[Dentin Inhibits the Antibacterial Effect of New and Conventional Endodontic Irrigants](#) Renata Dornelles

Morgental, Aruna Singh, Harkeet Sappal, Patrícia Maria Poli Kopper, Fabiana Vieira Vier-Pelisser, Ove A. Peters

[A Small Amount of Singlet Oxygen Generated via Excited Methylene Blue by Photodynamic Therapy](#)

[Induces the Sterilization of \*Enterococcus faecalis\*](#) Chiaki Komine, Yasuhisa Tsujimoto

## Case Report/Clinical Techniques

[A Clinical Report of the Management of Episodic Idiopathic Pruritus Occurring during Endodontic](#)

[Therapy](#) Thomas A. Montagnese, Madhavi Setty

[Pulp Revascularization after Root Canal Decontamination with Calcium Hydroxide and 2%](#)

[Chlorhexidine Gel](#) Adriana de Jesus Soares, Fernanda Freitas Lins, Juliana Yuri Nagata, Brenda Paula Figueiredo de Almeida

Gomes, Alexandre Augusto Zaia, Caio Cezar Randi Ferraz, José Flávio Affonso de Almeida, Francisco José de Souza-Filho