



CONSORT Randomized Clinical Trial

[Buffered Lidocaine for Incision and Drainage: A Prospective, Randomized Double-blind Study](#)

Matthew Balasco, Melissa Drum, Al Reader, John Nusstein, Mike Beck

Clinical Research

[A Practice-based Study on the Survival of Restored Endodontically Treated Teeth](#)

Jovito Adiel Skupien, Niek Opdam, Rolf Winnen, Ewald Bronkhorst, Cees Kreulen, Tatiana Pereira-Cenci, Marie-Charlotte Huysmans

[The Influence of Bone Tissue Deficiency on the Outcome of Endodontic Microsurgery: A Prospective Study](#)

Minju Song, Sahng Gyoon Kim, Su-Jung Shin, Hyeon-Cheol Kim, Euseong Kim

[Retrospective Evaluation of Perforation Repairs in 6 Private Practices](#)

Valérie Pontius, Oliver Pontius, Andreas Braun, Roland Frankenberger, Matthias Johannes Roggendorf

[In Vivo Quantitative Evaluation of Live and Dead Bacteria in Root Canal Infection by Using Propidium Monoazide with Real-Time PCR](#)

Sin-Young Kim, Yooseok Shin, Chan-Young Lee, Il-Young Jung

[Treatment Outcome after Repair of Root Perforations with Mineral Trioxide Aggregate: A Retrospective Evaluation of 90 Teeth](#)

Christian Krupp, Clemens Bargholz, Martin Brüsehaber, Michael Hülsmann

[A New Method of Topical Anesthesia by Using Anesthetic Solution in a Patch](#)

Shun Nakamura, Nobuyuki Matsuura, Tatsuya Ichinohe

[An Anatomic Investigation of the Mandibular First Molar Using Micro-Computed Tomography](#)

Samantha P. Harris, Walter R. Bowles, Alex Fok, Scott B. McClanahan

[The Presence of Autophagy in Human Periapical Lesions](#)

Lingxin Zhu, Jingwen Yang, Jie Zhang, Bin Peng

Basic Research

Biology

[Effectiveness of Antibiotic Medicaments against Biofilm Formation of *Enterococcus faecalis* and *Porphyromonas gingivalis*](#)

Alaa H.A. Sabrah, Ghaeth H. Yassen, Richard L. Gregory

[Absent in Melanoma 2 \(AIM2\) in Rat Dental Pulp Mediates the Inflammatory Response during Pulpitis](#)

Yafei Wang, Shafei Zhai, Haijing Wang, Qian Jia, Wenkai Jiang, Xiao Zhang, Ansheng Zhang, Jun Liu, Longxing Ni

[Effect of Smear Layer against Disinfection Protocols on *Enterococcus faecalis*-infected Dentin](#)

Zhejun Wang, Ya Shen, Markus Haapasalo

[Davallialactone Reduces Inflammation and Repairs Dentinogenesis on Glucose Oxidase-induced Stress in Dental Pulp Cells](#)

Young-Hee Lee, Go-Eun Kim, Yong-Beom Song, Usha Paudel, Nan-Hee Lee, Bong-Sik Yun, Mi-Kyung Yu, Ho-Keun Yi

[Epigallocatechin-3-gallate Blocks Triethylene Glycol Dimethacrylate-induced Cyclooxygenase-2 Expression by Suppressing Extracellular Signal-regulated Kinase in Human Dental Pulp and Embryonic Palatal Mesenchymal Cells](#)

Wan-Hsien Yang, Yi-Ting Deng, Mark Yen-Ping Kuo, Cheing-Meei Liu, Hao-Hueng Chang, Jenny Zwei-Chieng Chang

[Antimicrobial Substantivity of Alexidine and Chlorhexidine in Dentin](#)

Rocio Barrios, Carmen María Ferrer-Luque, María Teresa Arias-Moliz, Matilde Ruiz-Linares, Manuel Bravo, Pilar Baca

[Human Stem Cells from the Apical Papilla Response to Bacterial Lipopolysaccharide Exposure and Anti-inflammatory Effects of Nuclear Factor I C](#)

Jing Zhang, Yaqing Zhang, Haipeng Lv, Qing Yu, Zeyuan Zhou, Qinglin Zhu, Zhihua Wang, Paul R. Cooper, Anthony J. Smith, Zhongying Niu, Wenxi He

Technology

[Effect of Post Length and Type of Luting Agent on the Dislodging Time of Metallic Prefabricated Posts by Using Ultrasonic Vibration](#)

Maziar Ebrahimi Dastgardi, Masud Khabiri, Abbasali Khademi, Maryam Zare Jahromi, Peimaneh Hosseini Dastnaei

[Effect of Photoactivated Disinfection on Bond Strength of Root Canal Filling](#)

Evren Ok, Huseyin Ertas, Gokhan Saygili, Tuba Gok

[Evaluation of a Simplified Fiber Post Removal System](#)

Nicola Scotti, Emanuele Bergantin, Mario Alovisi, Damiano Pasqualini, Elio Berutti

[In Vitro Fracture Resistance of Endodontically Treated Roots Filled with a Bonded Filling Material or Different Types of Posts](#)

Burak Sagsen, Mustafa Zortuk, Huseyin Ertas, Ozgur Er, Sezer Demirbuga, Hakan Arslan

[Effect of Modified Nonequilibrium Plasma with Chlorhexidine Digluconate against Endodontic Biofilms *In Vitro*](#)

Tianfeng Du, Qi Shi, Ya Shen, Yingguang Cao, Jingzhi Ma, Xinpei Lu, Zilan Xiong, Markus Haapasalo

[Comparison of the Mechanical Behavior between Controlled Memory and Superelastic Nickel-Titanium Files via Finite Element Analysis](#)

Leandro de Arruda Santos, Maria Guiomar de Azevedo Bahia, Estevam Barbosa de Las Casas, Vicente Tadeu Lopes Buono

[Effect of Nano Silica on Setting Time and Physical Properties of Mineral Trioxide Aggregate](#)

Majid Akbari, Seyed Mojtaba Zebarjad, Behnam Nategh, Armita Rouhani

[Mixing with Propylene Glycol Enhances the Bond Strength of Mineral Trioxide Aggregate to Dentin](#)

Amin Salem Milani, Mohammad Froughreyhani, Saeed Charchi Aghdam, Fatemeh Pournaghiazar, Mohammad Asghari Jafarabadi

[Smear Layer Removal and Canal Cleanliness Using Different Irrigation Systems \(EndoActivator, EndoVac, and Passive Ultrasonic Irrigation\): Field Emission Scanning Electron Microscopic Evaluation in an *In Vitro* Study](#)

Manuele Mancini, Loredana Cerroni, Lorenzo Iorio, Emiliano Armellin, Gabriele Conte, Luigi Cianconi

Case Report/Clinical Techniques

[Autotransplantation of Immature Third Molars Using a Computer-aided Rapid Prototyping Model: A Report of 4 Cases](#)

Ji-Hyun Jang, Seung-Jong Lee, Euseong Kim

[Case Series: Tooth Retention 5 Years after Irretrievable Separation of LightSpeedLSX Instruments](#)

Jason R. Hansen, Thomas J. Beeson, Jose L. Ibarrola