

CONSORT Randomized Clinical Trial

[Pain Reduction in Untreated Symptomatic Irreversible Pulpitis Using Liposomal Bupivacaine \(Exparel\): A Prospective, Randomized, Double-blind Trial](#)

Kristy Bultema, Sara Fowler, Melissa Drum, Al Reader, John Nusstein, Mike Beck

Review Article

[Gene Expression Profiling and Molecular Signaling of Various Cells in Response to Tricalcium Silicate Cements: A Systematic Review](#)

Elanagai Rathinam, Sivaprakash Rajasekharan, Ravi Teja Chitturi, Heidi Declercq, Luc Martens, Peter De Coster

[Anxiety Related to Nonsurgical Root Canal Treatment: A Systematic Review](#)

Sameera Khan, Reza Hamedy, Yuejuan Lei, Rikke S. Ogawa, Shane N. White

Clinical Research

[Understanding External Cervical Resorption in Vital Teeth](#)

Athina M. Mavridou, Esther Hauben, Martine Wevers, Evert Schepers, Lars Bergmans, Paul Lambrechts

Regenerative Endodontics

[Outcome of Revascularization Procedure: A Retrospective Case Series](#)

Sarah Bukhari, Meetu R. Kohli, Frank Setzer, Bekir Karabucak

[Release of Growth Factors into Root Canal by Irrigations in Regenerative Endodontics](#)

Qian Zeng, Sean Nguyen, Hongming Zhang, Hari Priya Chebrolu, Dalia Alzebdeh, Mustafa A. Badi, Jong Ryul Kim, Junqi Ling, Maobin Yang

Basic Research

Biology

[Serine-rich Repeat Adhesin *Gordonii* Surface Protein B is Important for *Streptococcus gordonii* Biofilm Formation](#)

A Reum Kim, Ki Bum Ahn, Hyun Young Kim, Ho Seong Seo, Cheol-Heui Yun, Seung Hyun Han

[Expression Profiles of Inflammation-associated microRNAs in Periapical Lesions and Human Periodontal Ligament Fibroblasts Inflammation](#)

Junli Yue, Dongzhe Song, Wanlu Lu, Ying Lu, Wei Zhou, Xuelian Tan, Lan Zhang, Dingming Huang

Technology

[Impacts of Contracted Endodontic Cavities on Instrumentation Efficacy and Biomechanical Responses in Maxillary Molars](#)

Brent Moore, Konstantinos Verdelis, Anil Kishen, Thuan Dao, Shimon Friedman

[Material Properties of a Tricalcium Silicate-containing, a Mineral Trioxide Aggregate-containing, and an Epoxy Resin-based Root Canal Sealer](#)

Raquel-Kathrin Prüllage, Kent Urban, Edgar Schäfer, Till Dammaschke

[Bending Resistance and Cyclic Fatigue Life of Reciproc, Unicone, and WaveOne Reciprocating Instruments](#)

Emmanuel João Nogueira Leal Silva, Laise Silva Villarino, Victor Talarico Leal Vieira, Thais Accorsi-Mendonça, Henrique dos Santos Antunes, Gustavo De-Deus, Hélio Pereira Lopes

[Push-out Bond Strength of Fiber Posts to Intraradicular Dentin Using Multimode Adhesive System](#)

Siavash Savadi Oskoei, Mahmoud Bahari, Soodabeh Kimyai, Saeed Asgary, Katayoun Katebi

[Antibacterial Efficacy of a New Sonic Irrigation Device for Root Canal Disinfection](#)

Klaus W. Neuhaus, Melanie Liebi, Simone Stauffacher, Sigrun Eick, Adrian Lussi

[Zinc Oxide Nanoparticles Enhance Physicochemical Characteristics of Grossman Sealer](#)

Marco Aurélio Versiani, Fuad Jacob Abi Rached-Junior, Anil Kishen, Jesus Djalma Pécora, Yara Terezinha Silva-Sousa, Manoel Damiano de Sousa-Neto

[Vertical Load Induced with Twisted File Adaptive System during Canal Shaping](#)

Ahmed Jamleh, Khalid Alfouzan

[Comparison of the Potential Discoloration Effect of Bioaggregate, Biodentine, and White Mineral Trioxide Aggregate on Bovine Teeth: *In Vitro* Research](#)

Selen Esin Yoldaş, Mehmet Bani, Didem Atabek, Haluk Bodur

[Bond Strength of Self-adhesive Resin Cement to Different Root Perforation Materials](#)

Stephanie Lemos Martins Sicuro, Marilisa Carneiro Leão Gabardo, Carla Castiglia Gonzaga, Nathaly Dias Morais, Flares Baratto-Filho, Gisele Maria Correr Nolasco, Denise Piotto Leonardi

[Antimicrobial Activity and Physicochemical Properties of Calcium Hydroxide Pastes Used as Intracanal Medication](#)

Rafaela Fernandes Zancan, Rodrigo Ricci Vivan, Marcelo Ribeiro Milanda Lopes, Paulo Henrique Weckwerth, Flaviana Bombarda de Andrade, José Burgos Ponce, Marco Antonio Hungaro Duarte

[Influence of Warm Vertical Compaction Technique on Physical Properties of Root Canal Sealers](#)

Wei Qu, Wei Bai, Yu-Hong Liang, Xue-Jun Gao

[Evaluation of Root Canal Dentin Erosion after Different Irrigation Methods Using Energy-dispersive X-ray Spectroscopy](#)

Zhejun Wang, Hazuki Maezono, Ya Shen, Markus Haapasalo

[Evaluation of the Cyclic Fatigue and Torsional Resistance of Novel Nickel-Titanium Rotary Files with Various Alloy Properties](#)

Mehmet Emin Kaval, Ismail Davut Capar, Hüseyin Ertas

Case Report/Clinical Techniques

[Guided Autotransplantation of Teeth: A Novel Method Using Virtually Planned 3-dimensional Templates](#)

Georg D. Strbac, Albrecht Schnappauf, Katharina Giannis, Michael H. Bertl, Andreas Moritz, Christian Ulm

[Maxillary Sinus Impaction of a Core Carrier Causing Sustained Apical Periodontitis, Sinusitis, and Nasal Stenosis: A 3-year Follow-up](#)

Lars Bjørndal, Catharina Amaloo, Merete Markvart, Vibe Rud, Klaus Qvortrup, Camilla Stavnsbjerg, Thomas Bjarnsholt

[Saving Single-rooted Teeth with Combined Endodontic-periodontal Lesions](#)

Alexandre Pico-Blanco, Pablo Castelo-Baz, Leticia Caneiro-Queija, Antonio Liñares-González, Pablo Martin-Lancharro, Juan Blanco-Carrión