

## CONSORT Randomized Clinical Trial

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[Effect of Low-level Laser Therapy on Postoperative Pain after Root Canal Retreatment: A Preliminary Placebo-controlled, Triple-blind, Randomized Clinical Trial](#)

Hakan Arslan, Ezgi Doğanay, Ertuğrul Karataş, Mehmet Ali Ünlü, Hany Mohamed Aly Ahmed

[Dentin-like versus Rigid Endodontic Post: 11-year Randomized Controlled Pilot Trial on No-wall to 2-wall Defects](#)

Michael Naumann, Guido Sterzenbach, Thomas Dietrich, Kerstin Bitter, Roland Frankenberger, Manja von Stein-Lausnitz

[Direct Pulp Capping with Calcium Hydroxide, Mineral Trioxide Aggregate, and Biodentine in Permanent Young Teeth with Caries: A Randomized Clinical Trial](#)

Claudia Brizuela, Andrea Ormeño, Carolina Cabrera, Roxana Cabezas, Carolina Inostroza Silva, Valeria Ramírez, Montse Mercade

## Clinical Research

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[The Influence of Periodontal Status on Endodontically Treated Teeth: 9-year Survival Analysis](#)

Navid Khalighinejad, Anita Aminoshariae, James C. Kuliid, Jeannie Wang, Andre Mickel

[Human Pulp Responses to Partial Pulpotomy Treatment with TheraCal as Compared with Biodentine and ProRoot MTA: A Clinical Trial](#)

Hengameh Bakhtiar, Mohammad Hossein Nekoofar, Pouyan Aminishakib, Fatemeh Abedi, Fereshteh Naghi Moosavi, Ehsan Esnaashari, Arash Azizi, Samar Esmailian, Mohammad Reza Ellini, Vahid Mesgarzadeh, Mehdi Sezavar, Imad About

[Types of External Root Resorption of Replanted Teeth: Analysis of the Clinical Aspects and of Interleukin-4 Gene Polymorphisms Involvement](#)

Liliane Roskamp, Paula Cristina Trevilatto, Cleber Machado Souza, Ulisses Xavier Silva Neto, Everdan Carneiro, Luiz Fernando Fariniuk, Vânia Portela Ditzel Westphalen

[The Association between the Anatomic Landmarks of the Pulp Chamber Floor and the Prevalence of Middle Mesial Canals in Mandibular First Molars: An \*In Vivo\* Analysis](#)

Navid Akbarzadeh, Anita Aminoshariae, Navid Khalighinejad, J. Martin Palomo, Ali Syed, James C. Kuliid, Ghazal Sadeghi, Andre Mickel

[Determination of the Influence of Chronic Periodontitis on Pulp Sensibility by Means of Electric and Thermal Cold Testing](#)

Vanessa C.Q. Neves, Benedicto E.C. Toledo, Gabriela A.C.G. Camargo, Alessandra A. Souza, Elizangela P. Zuza

## Regenerative Endodontics

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[Regenerative Endodontic Treatment or Mineral Trioxide Aggregate Apical Plug in Teeth with Necrotic Pulps and Open Apices: A Systematic Review and Meta-analysis](#)

Mahmoud Torabinejad, Ali Nosrat, Prashant Verma, Oyoyo Udochukwu

[Regenerative Endodontics Versus Apexification in Immature Permanent Teeth with Apical Periodontitis: A Prospective Randomized Controlled Study](#)

Jiacheng Lin, Qian Zeng, Xi Wei, Wei Zhao, Minyi Cui, Jing Gu, Jiaxuan Lu, Maobin Yang, Junqi Ling

[An Innovative Regenerative Endodontic Procedure Using Leukocyte and Platelet-rich Fibrin Associated with Apical Surgery: A Case Report](#)

Nelson Pinto, Alexandra Harnish, Carolina Cabrera, Catherine Andrade, Tony Druttman, Claudia Brizuela

[Effects of Lipopolysaccharide on the Proliferation and Osteogenic Differentiation of Stem Cells from the Apical Papilla](#)

Veera Lertchirakarn, Panuroot Aguilar

## Basic Research

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### Biology

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[The Influence of Adalimumab on the Healing of Apical Periodontitis in Ferrets](#)

Elisabetta Cotti, Kenneth Abramovitch, James Jensen, Elia Schirru, Dwight D. Rice, Udochukwu Oyoyo, Mahmoud Torabinejad

### Technology

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[Fatigue Resistance of Nickel-titanium Instruments Exposed to High-concentration Hypochlorite](#)

Xiangya Huang, Ya Shen, Xi Wei, Markus Haapasalo

[Bacterial Contamination of Endodontic Materials before and after Clinical Storage](#)

Media Saeed, Garrit Koller, Sadia Niazi, Shanon Patel, Francesco Mannocci, Kenneth Bruce, Federico Foschi

[Antifungal Effects of Synthetic Human Beta-defensin-3-C15 Peptide on \*Candida albicans\*-infected Root Dentin](#)

Yeon-Jee Yoo, Ikyung Kwon, So-Ram Oh, Hiran Perinpanayagam, Sang-Min Lim, Ki-Bum Ahn, Yoon Lee, Seung-Hyun Han, Seok-Woo Chang, Seung-Ho Baek, Qiang Zhu, Kee-Yeon Kum

[Antibiofilm Effect of D-enantiomeric Peptide Alone and Combined with EDTA \*In Vitro\*](#)

Dan Wang, Ya Shen, Jingzhi Ma, Robert E.W. Hancock, Markus Haapasalo

[Comparing the Centering Ability of Different Pathfinding Systems and Their Effect on Final Instrumentation by Hyflex CM](#)

Lu Shi, Shova Wagle

[Mechanical Properties of Various Heat-treated Nickel-titanium Rotary Instruments](#)

Hye-Jin Goo, Sang Won Kwak, Jung-Hong Ha, Eugenio Pedullà, Hyeon-Cheol Kim

[Cleaning and Shaping Oval Canals with 3 Instrumentation Systems: A Correlative Micro-computed Tomographic and Histologic Study](#)

Mariane F.L.S. Lacerda, Marília F. Marceliano-Alves, Alejandro R. Pérez, José C. Provenzano, Mônica A.S. Neves, Fábio R. Pires, Lucio S. Gonçalves, Isabela N. Rôças, José F. Siqueira Jr.

[Temperature Rise on the Plugger Surface of 2 Commercially Available Gutta-percha Heating Devices](#)

Fotis Dimopoulos, Konstantinos Dervenis, Christos Gogos, Theodoros Lambrianidis

## Case Report/Clinical Techniques

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[Variations of Palatal Canal Morphology in Maxillary Molars: A Case Series and Literature Review](#)

Ali Nosrat, Prashant Verma, M. Lamar Hicks, S. Craig Schneider, Ali Behnia, Adham A. Azim

[Rare Root Canal Configuration of Mandibular Second Premolar Using Cone-beam Computed Tomographic Scanning](#)

Jamie Ring, Karla C. Ring

[Minimally Invasive Treatment of Class 4 Invasive Cervical Resorption with Internal Approach: A Case Series](#)

Avi Shemesh, Joe Ben Itzhak, Michael Solomonov

[Langerhans Cell Histiocytosis Mimicking Periapical Pathology in a 39-year-old Man](#)

Scott M. Peters, Julie Pastagia, Angela J. Yoon, Elizabeth M. Philipone

[20-year Follow-up of Recurrent Glandular Odontogenic Cyst Mimicking a Periapical Lesion](#)

Brunno Santos de Freitas Silva, Fernanda Paula Yamamoto-Silva, Marcondes Sena-Filho, Simone Sousa Silva Sant'Ana, Wilson José Mariano-Júnior, Oslei Paes de Almeida, Carlos Estrela

[Classification and Clinical Management of Retrograde Peri-implantitis Associated with Apical Periodontitis: A Proposed Classification System and Case Report](#)

Nima D. Sarmast, Howard H. Wang, Ali S. Sajadi, Nikola Angelov, Samuel O. Dorn

[Maxillary First Molars with 2 Distobuccal Canals: A Case Series](#)

Howard M. Fogel, Rodrigo Sanches Cunha

[Corrigendum](#)