



CONSORT Randomized Clinical Trial

[Comparison of Anesthetic Efficacy between Lidocaine with and without Magnesium Sulfate USP 50% for Inferior Alveolar Nerve Blocks in Patients with Symptomatic Irreversible Pulpitis](#)

Krishna Prasad Shetty, Sarvepalli Venkata Satish, Krishna Rao Kilaru, Poonam Sardar, Alexander M. Luke

Review Article

[Distribution of Genes Related to Antimicrobial Resistance in Different Oral Environments: A Systematic Review](#)

Ludmila Coutinho Moraes, Marcus Vinícius Reis Só, Tatiane da Silva Dal Pizzol, Maria Beatriz Cardoso Ferreira, Francisco Montagner

Clinical Research

[Assessment of the Nonoperated Root after Apical Surgery of the Other Root in Mandibular Molars: A 5-year Follow-up Study](#)

Riccardo D. Kraus, Thomas von Arx, David Gfeller, Julien Ducommun, Simon S. Jensen

[Rapid Method for the Detection of Root Canal Bacteria in Endodontic Therapy](#)

Kai Soo Tan, Victoria Soo Hoon Yu, Samantha Yiling Quah, Gunnar Bergenholtz

[Isolation of Alkaline-tolerant Bacteria from Primary Infected Root Canals](#)

Hui Pau Lew, Samantha Yiling Quah, Jeen Nee Lui, Gunnar Bergenholtz, Victoria Soo Hoon Yu, Kai Soo Tan

[Differential Diagnoses for Persistent Pain after Root Canal Treatment: A Study in the National Dental Practice-based Research Network](#)

Donald R. Nixdorf, Alan S. Law, Mike T. John, Radwa M. Sobieh, Richie Kohli, Ruby H.N. Nguyen

[C-Reactive Protein Expression Is Up-regulated in Apical Lesions of Endodontic Origin in Association with Interleukin-6](#)

Mauricio Garrido, Andrea Dezerega, María José Bordagaray, Montserrat Reyes, Rolando Vernal, Samantha Melgar-Rodríguez, Pía Ciuchi, Rodolfo Paredes, Jocelyn García-Sesnich, Pablo Ahumada-Montalva, Marcela Hernández

[Influence of Demographics on Patients' Receipt of Endodontic Therapy or Implant Placement](#)

Ryan Reese, Anita Aminoshariae, Thomas Montagnese, Andre Mickel

[A Retrospective Comparative Study of Cone-beam Computed Tomography versus Rendered Panoramic Images in Identifying the Presence, Types, and Characteristics of Dens Invaginatus in a Turkish Population](#)

Ismail Davut Capar, Huseyin Ertas, Hakan Arslan, Elif Tarim Ertas

Basic Research

Biology

[Different Correlation of Sphingosine-1-Phosphate Receptor 1 with Receptor Activator of Nuclear Factor Kappa B Ligand and Regulatory T Cells in Rat Periapical Lesions](#)

Lan Xiao, Lingxin Zhu, Shasha Yang, Dongqi Lei, Yin Xiao, Bin Peng

[Leptin Promotes Dentin Sialophosphoprotein Expression in Human Dental Pulp](#)

Jénifer Martín-González, Antonio Pérez-Pérez, Flora Sánchez-Jiménez, Eduardo Manuel Díaz-Parrado, Manuel de Miguel, Víctor Sánchez-Margalet, Juan José Segura-Egea

[Expression and Function of the Actin-severing Protein Adseverin in the Proliferation, Migration, and Differentiation of Dental Pulp Cells](#)

Xuyan Li, Hongwei Jiang, Yihua Huang, Qimei Gong, Jinming Wang, Junqi Ling

[Genipin, a Cross-linking Agent, Promotes Odontogenic Differentiation of Human Dental Pulp Cells](#)

Young-Sun Kwon, Eun-Su Lim, Hye-Min Kim, Yun-Chan Hwang, Kwang-Won Lee, Kyung-San Min

[Response of Inflamed Pulp of Rat Molars after Capping with Pulp-capping Material Containing Fluocinolone Acetonide](#)

Phumisak Louwakul, Veera Lertchirakarn

[Four and a Half LIM Domain Protein 2 Enhances Differentiation and Mineralization of Human Dental Pulp Cells](#)

Xiufen Tian, Qiang Wang, Xiaoying Wang

Technology

[The Effect of Alteration of the Exposure Parameters of a Cone-beam Computed Tomographic Scan on the Diagnosis of Simulated Horizontal Root Fractures](#)

David Jones, Francesco Mannocci, Manoharan Andiappan, Jackie Brown, Shanon Patel

[Effect of a Combination of Torsional and Cyclic Fatigue Preloading on the Fracture Behavior of K3 and K3XF Instruments](#)

Ya Shen, Abdullah Mahmoud Riyahi, Les Campbell, Huimin Zhou, Tianfeng Du, Zhejun Wang, Wei Qian, Markus Haapasalo

[Effect of Varying Water-to-Powder Ratios and Ultrasonic Placement on the Compressive Strength of Mineral Trioxide Aggregate](#)

Fatima B. Basturk, Mohammad Hossein Nekoofar, Mahir Gunday, Paul M.H. Dummer

[Comparison of the Cyclic Fatigue Resistance of 5 Different Rotary Pathfinding Instruments Made of Conventional Nickel-Titanium Wire, M-wire, and Controlled Memory Wire](#)

Ismail Davut Capar, Mehmet Emin Kaval, Hüseyin Ertas, Bilge Hakan Sen

[Fracture Resistance of Endodontically Treated Roots with Oval Canals Restored with Oval and Circular Posts](#)

İsmail Uzun, Hakan Arslan, Ezgi Doğanay, Buğra Güler, Cangül Keskin, İsmail Davut Çapar

[Torsion and Bending Properties of OneShape and WaveOne Instruments](#)

Amr M. Elnaghy, Shaymaa E. Elsaka

[Shaping Ability of 4 Different Single-file Systems in Simulated S-shaped Canals](#)

Abdulrahman Mohammed Saleh, Pouyan Vakili Gilani, Saeid Tavanafar, Edgar Schäfer

[In Vitro Study of Calcium Hydroxide Removal from Mandibular Molar Root Canals](#)

Jingzhi Ma, Ya Shen, Yan Yang, Yuan Gao, Pan Wan, Yan Gan, Payal Patel, Allison Curtis, Mehrzad Khakpour, Markus Haapasalo

Case Report/Clinical Techniques

[Guided Tissue Regeneration in Endodontic Surgery by Using a Bioactive Resorbable Membrane](#)

C. Susan Chi, Diego B. Andrade, Sahng G. Kim, Charles S. Solomon

[Treatment of Large Apical Lesions with Mucosal Fenestration: A Clinical Study with Long-term Evaluation](#)

Yi-Chun Lin, Ya-Yun Lee, Yi-Ching Ho, Yi-Chen Hsieh, Yu-Lin Lai, Shyh-Yuan Lee