



AAE and AAOMR Joint Position Statement

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CONSORT Randomized Clinical Trial

[The Effect of Acupuncture on the Success of Inferior Alveolar Nerve Block for Teeth with Symptomatic Irreversible Pulpitis: A Triple-blind Randomized Clinical Trial](#)

Shahzad Jalali, Nima Moradi Majd, Samane Torabi, Mohammad Habibi, Hamed Homayouni, Navid Mohammadi
[Buffered 4% Articaine as a Primary Buccal Infiltration of the Mandibular First Molar: A Prospective, Randomized, Double-blind Study](#)

Ryan Shurtz, John Nusstein, Al Reader, Melissa Drum, Sara Fowler, Mike Beck

[A Comparison of Different Volumes of Articaine for Inferior Alveolar Nerve Block for Molar Teeth with Symptomatic Irreversible Pulpitis](#)

Ramin Abazarpoor, Masoud Parirokh, Nouzar Nakhaee, Paul V. Abbott

Review Article

[Direct Pulp Capping with Calcium Hydroxide or Mineral Trioxide Aggregate: A Meta-analysis](#)

Zhaofei Li, Lihua Cao, Mingwen Fan, Qingan Xu

[Influence of Eugenol-based Sealers on Push-out Bond Strength of Fiber Post Luted with Resin Cement: Systematic Review and Meta-analysis](#)

Aline Segatto Pires Altmann, Vicente Castelo Branco Leitune, Fabrício Mezzomo Collares

Clinical Research

[Changes of Root Length and Root-to-Crown Ratio after Apical Surgery: An Analysis by Using Cone-beam Computed Tomography](#)

Thomas von Arx, Simon S. Jensen, Michael M. Bornstein

[CXC Chemokine Receptor 4 Is Expressed Paravascularly in Apical Papilla and Coordinates with Stromal Cell-derived Factor-1 \$\alpha\$ during Transmigration of Stem Cells from Apical Papilla](#)

Jing-Yi Liu, Xue Chen, Lin Yue, George T.-J. Huang, Xiao-Ying Zou

[Ethnicity and Pathways of Fear in Endodontics](#)

Ava Elizabeth Carter, Geoffrey Carter, Mark Boschen, Emad AlShwaimi, Roy George

[RNA-based Assay Demonstrated *Enterococcus faecalis* Metabolic Activity after Chemomechanical Procedures](#)

Ericka T. Pinheiro, George T. Candeiro, Sílvia R. Teixeira, Regina C. Shin, Laís C. Prado, Giulio Gavini, Márcia P.A. Mayer

[Oxygen Saturation in Dental Pulp of Permanent Teeth: Difference between Children/Adolescents and Adults](#)

João Paulo Fragomeni Stella, Fernando Branco Barletta, Larissa Bergesch Giovanella, Renata Grazziotin-Soares, Maximiano Ferreira Tovo, Wilson Tadeu Felipe, Carlos Estrela

[Advanced Caries Microbiota in Teeth with Irreversible Pulpitis](#)

Isabela N. Rôças, Kenio C. Lima, Isauremi V. Assunção, Patrícia N. Gomes, Igor V. Bracks, José F. Siqueira

[Patient-centered Outcomes of Root Canal Treatment: A Cohort Follow-up Study](#)

Javier Montero, Beatriz Lorenzo, Rocío Barrios, Alberto Albaladejo, José Antonio Mirón Canelo, Antonio López-Valverde

Basic Research

Biology

Effects of *In Vitro* Osteogenic Induction on *In Vivo* Tissue Regeneration by Dental Pulp and Periodontal Ligament Stem Cells

Yoonsun Cha, Mijeong Jeon, Hyo-Seol Lee, Seunghye Kim, Seong-Oh Kim, Jae-Ho Lee, Je Seon Song
Bioactivity of a Calcium Silicate-based Endodontic Cement (BioRoot RCS): Interactions with Human Periodontal Ligament Cells *In Vitro*

Jean Camps, Charlotte Jeanneau, Ikbale El Ayachi, Patrick Laurent, Imad About
Cathepsin K Inhibitor Regulates Inflammation and Bone Destruction in Experimentally Induced Rat Periapical Lesions

Noriyuki Suzuki, Koyo Takimoto, Nobuyuki Kawashima

***Enterococcus faecalis* Inhibits Osteoblast Differentiation and Induces Chemokine Expression**

Ok-Jin Park, Jiseon Kim, Jihyun Yang, Cheol-Heui Yun, Seung Hyun Han

Rosiglitazone Inhibits Proliferation and Induces Osteopontin Gene Expression in Human Dental Pulp Cells

Caroline Lourenço de Lima, Michella Soares Coelho, Carine Royer, Augusto Pereira Resende, Gabriel Alvares Borges, Jaqueline Rodrigues da Silva, Angélica Amorim Amato, Eliete Guerra, Francisco de Assis Rocha Neves, Ana Carolina Acevedo

Production of Human Dental Pulp Cells with a Medicinal Manufacturing Approach

Maxime Ducret, Hugo Fabre, Jean-Christophe Farges, Olivier Degoul, Gianluigi Atzeni, Colin McGuckin, Nico Forraz, Frédéric Mallein-Gerin, Emeline Perrier-Groult

Bioaggregate Inhibits Osteoclast Differentiation, Fusion, and Bone Resorption *In Vitro*

Jun Tian, Wenting Qi, Yuanhe Zhang, Michael Glogauer, Yongqiang Wang, Zhihui Lai, Hongwei Jiang

Technology

Do the Sealer Solvents Used Affect Apically Extruded Debris in Retreatment?

Burhan Can Çanakçı, Ozgur Er, Asiye Dincer

Scanning Electron Microscopic Study on the Fibrillar Structures within Dentinal Tubules of Human Dentin

Maricela Garcés-Ortiz, Constantino Ledesma-Montes, José Reyes-Gasga

The Effect of Isthmus on Vertical Root Fracture in Endodontically Treated Teeth

Herzl Chai, Aviad Tamse

Assessment of Root Perforation within Simulated Internal Resorption Cavities Using Cone-beam Computed Tomography

Leila Khojastepour, Fariborz Moazami, Mahbod Babaei, Maryam Forghani

Odontoblastic Differentiation, Inflammatory Response, and Angiogenic Potential of 4 Calcium Silicate-based Cements: Micromega MTA, ProRoot MTA, RetroMTA, and Experimental Calcium Silicate Cement

Seok-Woo Chang, Won-Jung Bae, Jin-Kyu Yi, Soojung Lee, Deok-Won Lee, Kee-Yeon Kum, Eun-Cheol Kim

Evaluation of 4 Different Irrigating Systems for Apical Extrusion of Sodium Hypochlorite

Ross A. Yost, Brian E. Bergeron, Timothy C. Kirkpatrick, Mark D. Roberts, Howard W. Roberts, Van T. Himel, Kent A. Sabey

Frequency of Root Canal Isthmi in Human Permanent Teeth Determined by Cone-beam Computed Tomography

Carlos Estrela, Luiz Eduardo G. Rabelo, João Batista de Souza, Ana Helena G. Alencar, Cyntia R.A. Estrela, Manoel Damião Sousa Neto, Jesus Djalma Pécora

Constant Insertion Rate Methodology for Measuring Torque and Apical Force in 3 Nickel-Titanium Instruments with Different Cross-sectional Designs

Isabella Faria da Cunha Peixoto, Érika Sales Joviano Pereira, Diego Pinheiro Aun, Vicente Tadeu Lopes Buono, Maria Guiomar de Azevedo Bahia

A Micro-computed Tomographic Assessment of Root Canal Preparation with a Novel Instrument, TRUShape, in Mesial Roots of Mandibular Molars

Ove A. Peters, Ana Arias, Frank Paqué

***Ex Vivo* Evaluation of the Accuracy of Electronic Foramen Locators in Root Canals with an Obstructed Apical Foramen**

Bruno Carvalho de Vasconcelos, Rebeca Dibe Veríssimo Chaves, Nilton Vivacqua-Gomes, George Táccio de Miranda Candeiro, Ricardo Affonso Bernardes, Rodrigo Ricci Vivan, Marco Antonio Hungaro Duarte

Reliability and Reproducibility of Manual and Automated Volumetric Measurements of Periapical Lesions

Eduardo Massaharu Aoki, Reinaldo Abdala-Júnior, Jefferson Xavier de Oliveira, Emiko Saito Arita, Arthur Rodriguez Gonzalez Cortes

Case Report/Clinical Techniques

Revascularization Technique for the Treatment of External Inflammatory Root Resorption: A Report of 3 Cases

Cristina N. Santiago, Shirley S. Pinto, Luciana M. Sassone, Raphael Hirata, Sandra R. Fidel

A Case of SAPHO Syndrome with Endodontic Implications and Treatment with Biologic Drugs

Elisabetta Cotti, Roberto Careddu, Elia Schirru, Silvia Marongiu, Maria Pina Barca, Paolo Emilio Manconi, Giuseppe Mercurio

Pulp Revascularization on Permanent Teeth with Open Apices in a Middle-aged Patient

Yu Wang, Xiaofei Zhu, Chengfei Zhang