

Review Article

Pulpal Response after Acute Dental Injury in the Permanent Dentition: Clinical Implications—A Review
Frances M. Andreasen, Bill Kahler

Do Metal Post-retained Restorations Result in More Root Fractures than Fiber Post-retained Restorations? A Systematic Review and Meta-analysis
Fabrício Eneas Diniz Figueiredo, Paulo Ricardo Saquete Martins-Filho, André Luis Faria-e-Silva

Clinical Research

3-dimensional Analysis of Regenerative Endodontic Treatment Outcome
Mostafa EzEldeen, Gertrude Van Gorp, Jeroen Van Dessel, Dirk Vandermeulen, Reinhilde Jacobs

A Survey for Endodontists in Today's Economy: Exploring the Current State of Endodontics as a Profession and the Relationship between Endodontists and Their Referral Base
Stan Lin, Wael Sabbah, Christine M. Sedgley, Brian Whitten

Radiographic Assessment of the Prevalence of Pulp Stones in Malaysians
Sathya Kannan, Sham Kishor Kannepady, Kavitha Muthu, Matada Basavarajaiah Jeevan, Arishiya Thapasum

Prevalence of 3- and 4-rooted First and Second Mandibular Molars in the Israeli Population
Avi Shemesh, Avi Levin, Vered Katzenell, Joe Ben Itzhak, Oleg Levinson, Avraham Zini, Michael Solomonov

The Cracked Tooth: Histopathologic and Histobacteriologic Aspects
Domenico Ricucci, José F. Siqueira, Simona Loghin, Louis H. Berman

Association between Chronic Apical Periodontitis and Low-birth-weight Preterm Births
Alex Sandro Mendonça Leal, Ana Emilia Figueiredo de Oliveira, Luciane Maria Oliveira Brito, Fernanda Ferreira Lopes, Vandilson Pinheiro Rodrigues, Karinna Fróes Lima, Illana Catharine de Araújo Martins

Basic Research

Biology

Periapical Cytokine Expression in Sickle Cell Disease
Shirlene Barbosa Pimentel Ferreira, Luciana Carla Neves de Brito, Michelle Pimenta Oliveira, Kamilla Faria Maciel, Hercílio Martelli Júnior, Leda Quercia Vieira, Antônio Paulino Ribeiro Sobrinho

Influence of Root Canal Disinfectants on Growth Factor Release from Dentin
Kerstin M. Galler, Wolfgang Buchalla, Karl-Anton Hiller, Marianne Federlin, Andreas Eidt, Mona Schiefersteiner, Gottfried Schmalz

ST2 Deletion Increases Inflammatory Bone Destruction in Experimentally Induced Periapical Lesions in Mice
Milena Velickovic, Nada Pejnovic, Slobodanka Mitrovic, Gordana Radosavljevic, Ivan Jovanovic, Tatjana Kanjevac, Nemanja Jovicic, Aleksandra Lukic

Technology

The Effect of Using RC Prep during Root Canal Preparation on the Incidence of Dentinal Defects
Alireza Adl, Mahdi Sedigh-Shams, Marjan Majd

Comparison of Apical Extrusion of Sodium Hypochlorite Using 4 Different Root Canal Irrigation Techniques
Emre İriboz, Koral Bayraktar, Dilek Türkaydin, Bilge Tarçın

The Effect of Obturation Technique on the Push-out Bond Strength of Calcium Silicate Sealers
Christopher DeLong, Jianing He, Karl F. Woodmansey

Healing after Root-end Microsurgery by Using Mineral Trioxide Aggregate and a New Calcium Silicate-based Bioceramic Material as Root-end Filling Materials in Dogs
Ian Chen, Bekir Karabucak, Cong Wang, Han-Guo Wang, Eiki Koyama, Meetu R. Kohli, Hyun-Duck Nah, Syngcuk Kim

Comparison of Smear Layer Removal Using the Nd:YAG Laser, Ultrasound, ProTaper Universal System, and CanalBrush Methods: An *In Vitro* Study
Grasiele Assis da Costa Lima, Carlos Menezes Aguiar, Andréa Cruz Câmara, Luiz Carlos Alves, Fábio André Brayner dos Santos, Aline Elesbão do Nascimento

Evaluation of a New Protocol for Removing Metal Retainers from Multirooted Teeth
Samir Noronha Souza, Emílio Carlos Sponchiado Júnior, André Augusto Franco Marques, Leandro de Moura Martins, Ângela Delfina Bittencourt Garrido

Color Stabilities of Calcium Silicate-based Materials in Contact with Different Irrigation Solutions
Cangul Keskin, Ebru Ozsezer Demiryurek, Taha Ozyurek

Influence of Apical Root Resection on the Biomechanical Response of a Single-rooted Tooth—Part 2: Apical Root Resection Combined with Periodontal Bone Loss
Youngjune Jang, Hyoung-Taek Hong, Heoung-Jae Chun, Byoung-Duck Roh

Case Report/Clinical Techniques

Autotransplantation of an Impacted Premolar Using Collagen Sponge after Cyst Enucleation
Jae-Hyung Lim, Jong-Ki Huh, Kwang-Ho Park, Su-Jung Shin

Unilateral Fusion of a Supernumerary Tooth to a Maxillary Permanent Lateral Incisor: A Report of a Rare Case
Rodrigo Sanches Cunha, Alanna Junaid, Isabel Mello