CONSORT Randomized Clinical Trial

Clinical Effectiveness of Basic Root Canal Treatment after 24 Months: A Randomized Controlled Trial
Rainer A. Jordan, Anna L. Holzner, Ljubisa Markovic, Inga Brueckner, Stefan Zimmer

Review Article

Determination of the Location of the Mental Foramen: A Critical Review
Anita Aminoshariae, Anne Su, James C. Kulild

Clinical Research

Prevalence of Ciliated Epithelium in Apical Periodontitis Lesions
Domenico Ricucci, Simona Loghin, José F. Siqueira, Rafik A. Abdelsayed

Signaling Pathways Activation by Primary Endodontic Infectious Contents and Production of Inflammatory Mediators
Frederico C. Martinho, Fabio R.M. Leite, Wanderson M.M. Chiesa, Gustavo G. Nascimento, Magda Feres, Brenda P.F.A. Gomes

Comparison of Clinical Outcomes of Endodontic Microsurgery: 1 Year versus Long-term Follow-up
Minju Song, Taekjin Nam, Su-Jung Shin, Euiseong Kim

Role of Ultrasonography in Differentiating Facial Swellings of Odontogenic Origin
Lisa Poweski, Melissa Drum, Al Reader, John Nusstein, Mike Beck, Jahanzeb Chaudhry

Basic Research

Biology

Cellular and Molecular Tissue Response to Triple Antibiotic Intracanal Dressing
Maristela Soares Swerts Pereira, Marcos A. Rossi, Cristina Ribeiro Cardoso, João Santana da Silva, Léa Assed Bezerra da Silva, Milton Carlos Kuga, Gisele Faria

Dentin Extends the Antibacterial Effect of Endodontic Sealers against Enterococcus faecalis Biofilms
Zhejun Wang, Ya Shen, Markus Haapasalo

Effect of Long-term Exposure to Endodontic Disinfecting Solutions on Young and Old Enterococcus faecalis Biofilms in Dentin Canals
Tianfeng Du, Zhejun Wang, Ya Shen, Jingzhi Ma, Yingguang Cao, Markus Haapasalo

Histologic Examinations of Teeth Treated with 2 Scaffolds: A Pilot Animal Investigation
Mahmoud Torabinejad, Hadi Faras, Robert Corr, Kenneth R. Wright, Shahrokh Shabahang

Effect of Dentin Conditioning with Intracanal Medicaments on Survival of Stem Cells of Apical Papilla
Riyadh I. Althumairy, Fabricio B. Teixeira, Anibal Diogenes

Technology

Assessment of Apically Extruded Debris Produced by the Self-Adjusting File System
Gustavo André De-Deus, Emmanuel João Nogueira Leal Silva, Edson Jorge Moreira, Aline de Almeida Neves, Felipe Gonçalves Belladonna, Michele Tameirão

Setting Time Affects In Vitro Biological Properties of Root Canal Sealers
Carlos Henrique R. Camargo, Tatiana R. Oliveira, Gleyce O. Silva, Sylvia B. Rabelo, Marcia C. Valera, Bruno N. Cavalcanti

A New Method to Assess Available Chlorine in Small Volumes of Liquid
Dan-K. Rechenberg, Kjartan T. Ragnarsson, Sina Rüeger, Leonhard Held, Dirk Mohn, Matthias Zehnder

Histopathological Condition of the Remaining Tissues after Endodontic Infection of Rat Immature Teeth
Paulo Carvalho Tobias Duarte, João Eduardo Gomes-Filho, Edilson Ervolino, Maria Lúcia Marçal Mazza Sundefeld, Marcelo Tadahiro Wayama, Carolina Simonetti Lodi, Eloi Dezan-Júnior, Luciano Tavares Angelo Cintra

Efficacy of 2 Reciprocating Systems Compared with a Rotary Retreatment System for Gutta-percha Removal
Marcos de Azevêdo Rios, Alexandre Mascalenas Villela, Rodrigo Sanches Cunha, Rafael Cortez Velasco, Alexandre Sigris De Martin, Augusto Shoji Kato, Carlos Eduardo da Silva Bueno

Influence of Operator’s Experience on Root Canal Shaping Ability with a Rotary Nickel-Titanium Single-File Reciprocating Motion System
Estefanía Muñoz, Leopoldo Forner, Carmen Llena

Fracture Strength of Roots Instrumented with Self-Adjusting File and the ProTaper Rotary Systems
Ismail Davut Capan, Mustafa Altunsoy, Hakan Arslan, Huseyin Ertas, Hale Ari Aydinbelge

Investigation of the Effect of Sealer Use on the Heat Generated at the External Root Surface during Root Canal Obturation Using Warm Vertical Compaction Technique with System B Heat Source
Raquel Viapiana, Juliane Maria Guerriero-Tanomaru, Mario Tanomaru-Filho, Joset Camilleri

Effect of Fatigue on Torsional Failure of Nickel-Titanium Controlled Memory Instruments
Les Campbell, Ya Shen, Hui-min Zhou, Markus Haapasalo

Antibacterial Efficacy of Photosensitizer Functionalized Biopolymeric Nanoparticles in the Presence of Tissue Inhibitors in Root Canal
Annie Shrestha, Anil Kishen

Comparative Assessment of the Effects of Gates-Glidden, Largo, LA-Axxess, and New Brazilian Drill CPdrill on Coronal Pre-enlargement: Cone-beam Computed Tomographic Analysis
Cláudia Bohrer Flores, Francisco Montagner, Brenda P.F.A. Gomes, Gustavo Nogara Dotto, Marcia da Silva Schmitz

Bending Resistance and Dynamic and Static Cyclic Fatigue Life of Reciproc and WaveOne Large Instruments

Cavitation Measurement during Sonic and Ultrasonic Activated Irrigation
Ricardo Macedo, Bram Verhaagen, David Fernandez Rivas, Michel Versluis, Paul Wesselink, Luc van der Sluis

Elimination of Intracanal Tissue and Debris through a Novel Laser-activated System Assessed Using High-resolution Micro–computed Tomography: A Pilot Study
Adam Lloyd, Jonathan P. Uhles, David J. Clement, Franklin Garcia-Godoy

Regaining Apical Patency after Obturation with Gutta-percha and a Sealer Containing Mineral Trioxide Aggregate
Matthew T. Carpenter, Stephanie J. Sidow, Kimberly W. Lindsey, Augustine Chuang, James C. McPherson
Case Report/Clinical Techniques

Maxillary Premolar with 4 Separate Canals
Carina Lea, Jason Deblinger, Ricardo Machado, Emmanuel João Nogueira Leal Silva, Luiz Pascoal Vansan

Society News

Paul Calas Prize 2014
Associate Registry
CE Registry