CONSORT Randomized Clinical Trial

Effect of Topical Anesthesia on Pain during Infiltration Injection and Success of Anesthesia for Maxillary Central Incisors
Masoud Parirokh, Amir Sadra Sadeghi, Nouzar Nakahe, Abbas Pardakhty, Paul V. Abbott, Mohammad Hosein Yosefi

Rigid versus Flexible Dentine-like Endodontic Posts—Clinical Testing of a Biomechanical Concept: Seven-year Results of a Randomized Controlled Clinical Pilot Trial on Endodontically Treated Abutment Teeth with Severe Hard Tissue Loss
Guido Sterzenbach, Alexandra Franke, Michael Naumann

Clinical Research

Anesthetic Efficacy of the Inferior Alveolar Nerve Block in Red-haired Women
Brock Droll, Melissa Drum, John Nusstein, Al Reader, Mike Beck

Association among Oral Health, Apical Periodontitis, CD14 Polymorphisms, and Coronary Heart Disease in Middle-aged Adults
Damiano Pasqualini, Loredana Bergandi, Luigi Palumbo, Alberto Borragcino, Valentina Dambra, Mario Aiovisi, Giuseppe Migliaretti, Gaetana Ferraro, Dario Ghigo, Serena Bergerone, Nicola Scotti, Mario Aimetti, Ello Berutti

A Prospective, Randomized Single-blind Evaluation of Effect of Injection Speed on Anesthetic Efficacy of Inferior Alveolar Nerve Block in Patients with Symptomatic Irreversible Pulpitis
Vivek Aggarwal, Mamta Singla, Sanjay Miglani, Sarita Kohli, Mohammad Irfan

Revascularization with and without Platelet-rich Plasma in Nonvital, Immature, Anterior Teeth: A Pilot Clinical Study
Ganesh Jadhav, Naseem Shah, Ajay Logani

Evaluating the Periapical Status of Teeth with Irreversible Pulpitis by Using Cone-beam Computed Tomography Scanning and Periapical Radiographs
Francesc Abella, Shanon Patel, Fernando Duran-Sindreu, Montse Mercade, Ruiino Noh, Miguel Roig

Basic Research: Biology

NLRP3 Is Expressed in Human Dental Pulp Cells and Tissues
Zhi Song, Zhengmei Lin, Feng He, Lan Jiang, Wei Qin, Yagang Tan, Runtu Wang, Shueng Huang

Lipopolysaccharide Induces the Migration of Human Dental Pulp Cells by Up-regulating miR-146a
Min-Ching Wang, Pei-Shih Hung, His-Feng Tu, Wen-Yu Shih, Wan-Chun Li, Kuo-Wei Chang

Transplantation of Dental Pulp Stem Cells and Platelet-rich Plasma for Pulp Regeneration
Xiaofei Zhu, Chengfei Zhang, George T.-J. Huang, Gary S.P. Cheung, Waruna Lakmal Dissanayaka, Wenhao Zhu

Occurrence of Hypercementosis in a German Population
Sebastian Bürklein, Sabine Jansen, Edgar Schäfer

Technology

ProFile Vortex Instruments after Clinical Use: A Metallurgical Properties Study
Ya Shen, Jeffrey M. Coil, Hui-min Zhou, Esther Tam, Yu-feng Zheng, Markus Haapasalo

Shaping Ability of Three Nickel-Titanium Endodontic File Systems in Simulated S-shaped Root Canals
Jeffrey R. Burroughs, Brian E. Bergeron, Mark D. Roberts, Joseph L. Hagan, Van T. Himel

Efficacy and Safety of Various Active Irrigation Devices When Used with Either Positive or Negative Pressure: An In Vitro Study
Augusto Malentacca, Umberto Uccioni, Dario Zangari, Carlo Lajolo, Cristiano Fabiani

Cytotoxicity of Newly Developed Ortho MTA Root-end Filling Materials
Bin-Na Lee, Hye-Ju Son, Han-Jin Noh, Jeong-Tae Koh, Hoon-Sang Chang, In-Nam Hwang, Yun-Chan Hwang, Won-Mann Oh

Canal and Isthmus Debridement Efficacy of the VPro EndoSafe Negative-pressure Irrigation Technique
Michelle U. Sarno, Stephanie J. Sidow, Stephen W. Looney, Kimberly W. Lindsey, Li-na Niu, Franklin R. Tay

Does the Geometric Location of Odontoblast Differentiation and Dentinal Tubules Depend on a
Reaction-Diffusion System between BMP2 and Noggin? A Mathematical Model, Javier L. Niño-Barrera, Diego A. Garzón-Alvarado

Case Report/Clinical Techniques

Multiple Radiopaque Mandibular Lesions in a Patient with Apert Syndrome, Fábio Wildson Gurgel Costa, Rodrigo Rodrigues Rodrigues, Ana Cristina Beviláqua Batista, Thyciana Rodrigues Ribeiro, Karuza Maria Alves Pereira