

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 Nakhaee, 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 Borraccino, Valentina Dambra, Mario Alovise, Giuseppe Migliaretti, Gaetana Ferraro, Dario Ghigo, Serena Bergerone, Nicola Scotti, Mario Aimetti, Elio 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 Mercadé, Rufino Bueno, 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, Yaguang Tian, Runfu Wang, Shuheng Huang

[Lipopolysaccharide Induces the Migration of Human Dental Pulp Cells by Up-regulating *miR-146a*](#) Min-Ching Wang, Pei-Shih Hung, Hsi-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 Uccioli, 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