

Editorial

[Insights into the December 2020 Issue of the JOE](#)

Amir Azarpazhooh, Anibal R. Diogenes, Ashraf F. Fouad, Gerald N. Glickman, Anil Kishen, Linda Levin, Robert S. Roda, Christine M. Sedgley, Franklin R. Tay, Kenneth M. Hargreaves

Review Article

[Effectiveness of Intracanal Cryotherapy in Root Canal Therapy: A Systematic Review and Meta-analysis of Randomized Clinical Trials](#)

Durre Sadaf, Muhammad Zubair Ahmad, Igbo J. Onakpoya

Clinical Research

[Soft and Hard Tissue Remodeling after Endodontic Microsurgery: A Cohort Study](#)

Hajar Albanyan, Hacer Aksel, Adham A. Azim

[Factors Influencing Quality of Life after Surgical and Nonsurgical Interventions of Persistent Endodontic Disease](#)

Shi-Tien Khoo, Wataru Ode, Violeta Lopez, Victoria Soo Hoon Yu, Clement Lai, Jeen-Nee Lui

[Quantitative Assessment of Mechanical Allodynia and Central Sensitization in Endodontic Patients](#)

Ahmed A. Alelyani, Pardis S. Azar, Asma A. Khan, Vanessa Chrepa, Anibal Diogenes

[In Vivo Strain Alterations in Mandibular Molars after Root Canal Treatment Procedures](#)

Prameet Ramachandran, Angambakkam Rajasekaran PradeepKumar, Periasamy Ravishankar, Anil Kishen

Regenerative Endodontics

[Quantitative Assessment of Root Development after Regenerative Endodontic Therapy: A Systematic Review and Meta-Analysis](#)

Teng Kai Ong, Ghee Seong Lim, Maharaj Singh, Alissa V. Fial

[Antimicrobial Activity and Biocompatibility of Antibiotic-Loaded Chitosan Hydrogels as a Potential Scaffold in Regenerative Endodontic Treatment](#)

Hacer Aksel, Faranak Mahjour, Fatima Bosaid, Semih Calamak, Adham A. Azim

Basic Research

Biology

[Phenotypic and Genotypic Characterization of *Streptococcus mutans* Strains Isolated from Endodontic Infections](#)

Augusto R. Lima, Tridib Ganguly, Alejandro R. Walker, Natalia Acosta, Priscila A. Francisco, Roberta Pileggi, José A. Lemos, Brenda P.F. A. Gomes, Jacqueline Abranches

Current issue

Volume 46 • Issue 12

December 2020



[Table of contents](#)



ADVERTISEMENT

Technology

[Mechanical Performance and Metallurgical Features of ProTaper Universal and 6 Replicallike Systems](#)

Jorge N.R. Martins, Emmanuel J.N.L. Silva, Duarte Marques, Mário Rito Pereira, António Ginjeira, Rui J.C. Silva, Francisco Manuel Braz Fernandes, Marco Aurélio Versiani

[Intraosseous Anesthesia Using Dynamic Navigation Technology](#)

Sameer D. Jain, Caroline K. Carrico, Ido Bermanis, Sonali Rehil

[Micro-computed Tomographic Assessment of Supplementary Cleaning Techniques for Removing Bioceramic Sealer and Gutta-percha in Oval Canals](#)

Andrea Volponi, Rina Andréa Pelegrine, Augusto Shoji Kato, Carolina Pessoa Stringheta, Ricardo Tadeu Lopes, Aline Saddock de Sá Silva, Carlos Eduardo da Silveira Bueno

[Guided Endodontics: Volume of Dental Tissue Removed by Guided Access Cavity Preparation—An *Ex Vivo* Study](#)

Marco Antônio Z. Loureiro, Marcela R.A. Elias, Lucas R. Capeletti, Julio A. Silva, Patrícia C. Siqueira, Gustavo S. Chaves, Daniel A. Decurcio

[Spectrophotometric Analysis of Coronal Tooth Discoloration Induced by Tricalcium Silicate Cements in the Presence of Blood](#)

Stephanie J. Chen, Bekir Karabucak, Joshua John Steffen, Ya-Hsin Yu, Meetu R. Kohli

Case Report/Clinical Techniques

[Allogeneic Cellular Therapy in a Mature Tooth with Apical Periodontitis and Accidental Root Perforation: A Case Report](#)

Claudia Brizuela Cordero, Gaston Meza Santander, Denisse Urrejola González, Andrea Quezada, Carolina Inostroza Silva, Camila Vásquez, Richard Jara, Daniel Jara, Maroun Khoury

Letters to the Editor

[Problematic Conclusion](#)

Jason McDaniel

[Response to: Problematic Conclusion](#)

Chafic Safi, Meetu R. Kohli, Samuel I. Kratchman, Frank C. Setzer, Bekir Karabucak

[Comments on the Volumetric Assessment of the External Cervical Resorption and Its Correlation with Heithersay Classification](#)

Zainab Haji, Faizan Javed, Farhan Raza Khan

[Response Regarding: A Volumetric Assessment of External Cervical Resorption Cases and Its Correlation to Classification, Treatment Planning, and Expected Prognosis](#)

Lea E. Matny, Nikita B. Ruparel, Martin Levin, Marcel E. Noujeim, Anibal Diogenes

Society News

[Scientific Advisory Board](#)


[Associate Registry](#)

[Donor Honor Roll](#)


Indexes

[Author Index](#)

[Subject Index](#)



BRASSLER
USA[®]



XP-3D
THE ULTIMATE
RETREATMENT
ARSENAL



SHOP NOW ►



Frontmatter

[Editorial Board](#)

[Table of Contents](#)

[Guidelines for Authors](#)

[QR Codes](#)

ADVERTISEMENT