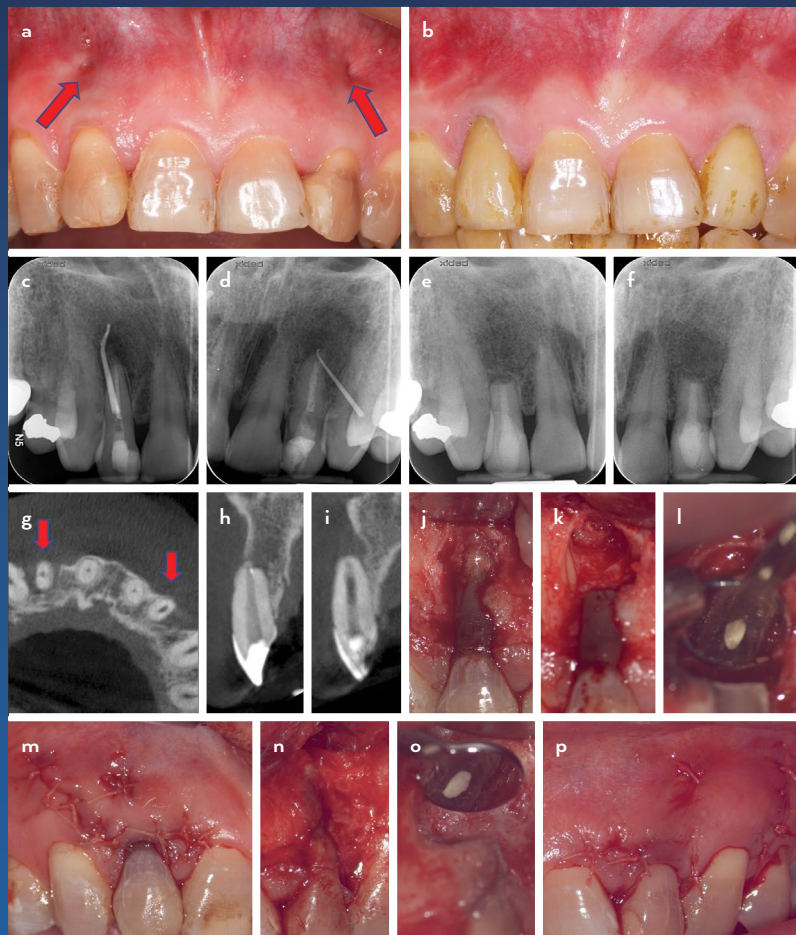




# EUROPEAN ENDODONTIC JOURNAL



From Wong et al. EEJ Issue 1; 25-33

VOLUME SIX, ISSUE 1  
2021

[www.eurendodj.com](http://www.eurendodj.com)

**Editor-in-Chief**

İsmail Davut Çapar, Istanbul, Turkey

**Deputy Editor-in-Chief**

Hany Mohamed Aly Ahmed, Kuala Lumpur, Malaysia

**Editorial Board**

**Associate Editors**

James Leo Gutmann, Texas, United States

Gianluca Plotino, Rome, Italy

Frédéric Bukiet, Marseille, France

Till Dammaschke, Münster, Germany

Mohammad Ali Saghiri, Madison, WI, United States

Gianrico Spagnuolo, Naples, Italy

Flávio Alves, Rio de Janeiro, Brazil

Montse Mercadé, Barcelona, Spain

Laurence J Walsh, Herston QLD, Australia

Ahmad Madarati, Madina, Saudi Arabia

Hyeon Cheol Kim, Yangsan, Korea

Jukka P. Matinlinna, Sai Ying Pun, Hong Kong

Velayutham Gopikrishna, Chennai, India

Salvatore Sauro, Valencia, Spain

Giampiero Rossi-Fedele, Adelaide, Australia

Emmanuel Silva, Niterói, Brazil

William Nguyen Ha, Adelaide, Australia

Frank Setzer, Philadelphia, USA

Adham A Azim, New York, USA

**Ethics Editor**

Hüseyin Sinan Topçuoğlu, Kayseri, Turkey

**Statistical Editor**

Nurdan Çolakoğlu, Istanbul, Turkey

**Editor-in-Chief**

İsmail Davut Çapar

Phone: +90 553 600 37 12

E-mail: capardt@hotmail.com



Publisher: Kare Yayıncılık (Kare Publishing)

Concord İstanbul Dumlupınar Mah. Yumurtacı Abdi Bey  
Cad. Cihan Sok. No: 15, B Blok Da: 162 Kat: 21, Kadıköy,  
İstanbul, TURKEY

Phone: +90 216 550 61 11

Fax: +90 216 550 61 12

<http://www.kareyayincilik.com>

E-mail: [kareyayincilik@gmail.com](mailto:kareyayincilik@gmail.com)

## CONTENTS

**EDITORIAL**

- ▶ **Editorial: European Endodontic Journal – More Indexations and Appreciation to Editors and Reviewers** 1  
İsmail Davut Çapar, Hany Mohamed Aly Ahmed

**SYSTEMATIC REVIEWS**

- ▶ **Effect of Rotary and Reciprocating Instrumentation Motions on Postoperative Pain Incidence in Non-Surgical Endodontic Treatments: A Systematic Review and Meta-Analysis** 3  
Behnam Rahbani Nobar, Omid Dianat, Behrad Rahbani Nobar, Armin Shirvani, Nazanin Zargar, Majid Kazem, Patricia Tordik
- ▶ **Medications Used for Prevention and Treatment of Postoperative Endodontic Pain: A Systematic Review** 15  
Manuela Favarin Santini, Ricardo Abreu Da Rosa, Maria Beatriz Cardoso Ferreira, Fernando Branco Barletta, Angela Longo Do Nascimento, Theodoro Weissheimer, Carlos Estrela, Marcus Vincius Reis Só

**REVIEW**

- ▶ **Diagnosis and Management of Apical Fenestrations Associated with Endodontic Diseases: A Literature Review** 25  
Jasmine Wong, Angeline Hui Cheng Lee, Chengfei Zhang

**ORIGINAL ARTICLES**

- ▶ **Postoperative Pain After the use of Sodium Hypochlorite gel and Solution Forms: A Randomized Clinical Study** 34  
Ertuğrul Karataş, Damla Özsu Kirici, Hakan Arslan
- ▶ **Comparison of Two Different Methods in the Removal of Oil-Based Calcium Hydroxide From Root Canal System: A Triple-Blinded Randomised Clinical Trial** 38  
Momina Anis Motiwala, Sheikh Bilal Badar, Robia Ghafoor
- ▶ **The Apical Extent of Mineral Trioxide Aggregate Apical Barrier Does not Influence the Treatment Outcome in a Nonvital Immature Permanent Anterior Tooth: A Split-Mouth Clinical Study** 44  
Krunal M Tabiyar, Ajay Logani
- ▶ **Quantitative Analysis of Candidate Endodontic Pathogens and Their Association with Cause and Symptoms of Apical Periodontitis in a Sudanese Population** 50  
Salma Abushouk, Fionnuala T. Lundy, Gerard J. Linden, Muzamil Abdel Hamid, Yahia Ibrahim, Ikhlas El Karim
- ▶ **Prevalence of Lateral Radiolucency, Apical Root Resorption and Periapical Lesions in Portuguese Patients: A CBCT Cross-Sectional Study with a Worldwide Overview** 56  
Joao Meirinhos, Jorge N.R. Martins, Beatriz Pereira, Abayomi Omokeji Baruwa, Antonio Ginjeira
- ▶ **Root and Canal Morphology of Mandibular Second Molars in a Yemeni Population: A Cone-beam Computed Tomography** 72  
Elham M. Senan, Hatem A. Alhadainy, Ahmed A. Madfa
- ▶ **Evaluation of the Cytotoxicity and Apoptotic Effects of Nano Triple Antibiotic Paste with Nano Anti-Inflammatory Drug as an Intracanal Medicament** 82  
Yousra Nashaat, Hadil Sabry, Soha Ahmed Hassan
- ▶ **In-Depth Metallurgical and Microstructural Analysis of Oneshape and Heat Treated Onecurve Instruments** 90  
Arash Azizi, Carlo Prati, Riccardo Schiavon, Raquel Fitzgibbon, Chiara Pirani, Francesco Iacono, Gian Andrea Pelliccioni, Andrea Spinelli, Fausto Zamparini, Pietro Puddu, Giovanni Bolelli, Luigi Generali

# CONTENTS

- ▶ **The Structural, Physical, and *In Vitro* Biological Performance of Freshly Mixed and Set Endodontic Sealers** 98  
Muhammad Talal Khan, Faisal Moeen, Sher Zaman Safi, Farrukh Said, Afsheen Mansoor, Abdul Samad Khan
- ▶ **Bacterial Reduction in Oval-Shaped Root Canals After Different Irrigant Agitation Methods** 110  
Luciana Santos Nogueira, Georgiana Amaral, Emmanuel João Nogueira Leal Silva, Justine Monteiro Monnerat Tinoco, Flavio Rodrigues Ferreira Alves, Luciana Moura Sassone
- ▶ **Influence of Lignocaine Hydrochloride with Adrenaline on Free Active Chlorine Content of Sodium Hypochlorite Solution Admixed in Various Proportions** 117  
Ishwarya Gurucharan, Charanya Chandrasekaran, Balasubramanian Saravanakarthykeyan, Sekar Mahalaxmi
- ▶ **Ion Release From Prototype Surface Pre-Reacted Glass Ionomer (S-PRG) Sealer and EndoSequence BC Sealer** 122  
Aparna Bhat, Nicholas Cvach, Cassia Mizuno, Chul Ahn, Qiang Zhu, Carolyn Primus, Takashi Komabayashi

## LETTER TO THE EDITOR

- ▶ **Importance of “Time” on “Haemostasis” in Vital Pulp Therapy** 128  
Saeed Asgary, Ardavan Parhizkar
- ▶ **The Role of Vital Pulp Therapy in the Management of Periapical Lesions** 130  
Saeed Asgary, Ardavan Parhizkar