



Formerly: Journal of the Dental Faculty of Atatürk University Official Journal of Atatürk University, Faculty of Dentistry

Volume 32 • Issue 4 • October 2022





EISSN 2822-2555 dentistry-ataunipress.org

Owner

Recep ORBAK 🕩

Department of Periodontology, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Editor

Nuran YANIKOĞLU 回

Department of Prosthetic Dentistry, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Associate Editors

Adnan KILINÇ

Department of Oral, Dental and Maxillofacial Surgery, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Adnan TEZEL

Department of Periodontology, Ankara University, Faculty of Dentistry, Ankara, Turkey

Afzal ALİ

Department of Conservative Dentistry and Endodontics, Pacific Dental College and Hospital, Udaipur, Rajasthan, India

Alvin WEE

Department of Restorative Sciences, Division of Prosthodontics, University of Minnesota School of Dentistry, Minneapolis, United States

Funda BAYINDIR

Department of Prosthodontics, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Funda YANIKOĞLU

Department of Restorative Dentistry, Kent University, Faculty of Dentistry, Istanbul, Turkey

Göksel ŞİMŞEK KAYA

Department of Oral, Dental and Maxillofacial Surgery, Akdeniz University, Faculty of Dentistry, Antalya, Turkey

Hüsamettin OKTAY

Department of Orthodontics, Medipol University, Faculty of Dentistry, Istanbul, Turkey

Ingrid RÓŻYŁO-KALINOWSKA

Department of Dental and Maxillofacial Radiodiagnostics, Medical University of Lublin, Faculty of Medical Dentistry, Lublin, Poland

Kezban Meltem ÇOLAK

Department of Endodontics, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Nihat KILIÇ

Department of Orthodontics, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Nurcan ÖZAKAR İLDAY

Department of Restorative Dentistry, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Özkan MİLOĞLU

Department of Oral and Maxillofacial Radiology, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Rohan JAGTAP,

Department of Care Planning & Restorative Sciences, Department of Radiology, Division of Oral & Maxillofacial Radiology, University of Mississippi Medical Center, School of Medicine, Jackson, United States

Sera ŞİMŞEK DERELİOĞLU

Department of Pedodontics, Atatürk University, Faculty of Dentistry, Erzurum, Turkey



Founder İbrahim KARA

General Manager Ali ŞAHİN

Publishing Director İrem SOYSAL Gökhan ÇİMEN

Editor Bahar ALBAYRAK Publications Coordinators Arzu ARI Deniz KAYA Irmak BERBEROĞLU Alara ERGİN Hira Gizem FİDAN Vuslat TAŞ İrem ÖZMEN

Web Coordinators Sinem Fehime KOZ Doğan ORUÇ

Finance Coordinator Elif Yıldız ÇELİK **Contact** Publisher: Atatürk University Address: Atatürk University, Yakutiye, Erzurum, Turkey

Publishing Service: AVES Address: Büyükdere Cad., 105/9 34394 Şişli, İstanbul, Turkey Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com Webpage: www.avesyayincilik.com

Editorial Board

Ahmet Berhan YILMAZ

Department of Oral and Maxillofacial Radiology, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Cortino SUKOTJO

Department of Restorative Dentistry, University of Illinois at Chicago, College of Dentistry, Chicago, United States

Ertuğrul KARATAŞ

Department of Endodontics, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Gözlem CEYLAN

Department of Prosthodontics, Ondokuz Mayıs University, Faculty of Dentistry, Samsun, Turkey

Hatice ÖZDEMİR

Department of Prosthodontics, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Nesrin SARUHAN

Department of Oral and Maxillofacial Surgery, Eskişehir Osmangazi University, Faculty of Dentistry, Eskişehir, Turkey

Peruze ÇELENK

Department of Oral and Maxillofacial Radiology Ondokuz Mayıs University, Faculty of Dentistry, Samsun, Turkey

Pınar GÜL

Department of Restorative Dentistry, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Şebnem BÜYÜKKAPLAN

Department of Prosthodontics, Akdeniz University, Faculty of Dentistry, Antalya, Turkey

Turgut DEMİR

Department of Periodontology, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Ümit ERTAŞ

Department of Oral, Dental and Maxillofacial Surgery, Atatürk University, Faculty of Dentistry, Erzurum, Turkey

Editorial Board Secretary

Lale EGE E-Mail: dergidhf@atauni.edu.tr

AIMS AND SCOPE

Current Research in Dental Sciences (Curr Res Dent Sci) is an international, scientific, open access, online-only periodical published in accordance with independent, unbiased, and double-blinded peer-review principles. The journal is published quarterly publication in January, April, July, October. The publication languages of the journal are Turkish and English.

Current Research in Dental Sciences aims to contribute to the literature by publishing mauscripts at the highest scientific level on all fields of dentistry. The journal publishes original articles, invited reviews, rare case reports, and letters to the editors that are prepared in accordance with ethical guidelines. The scope of the journal includes but not limited to periodontal diseases, dental implants, oral pathology, oral and maxillofacial surgery, endodontics, oral diseases, restorative and esthetic dentistry.

The target audience of the journal includes specialists, researchers and preofessionals who working and interested in the field of dentistry and related disciplines.

Current Research in Dental Sciences currently indexed in TUBITAK ULAKBIM TR Index and China National Knowledge Infrastructure (CNKI).

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the International Committee of Medical Journal Editors (ICMJE), World Association of Medical Editors (WAME), Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal is in conformity with the Principles of Transparency and Best Practice in Scholarly Publishing (doaj.org/bestpractice).

All expenses of the journal are covered by the Atatürk University. Processing and publication are free of charge with the journal. No fees are requested from the authors at any point throughout the evaluation and publication process. All manuscripts must be submitted via the online submission system, which is available at https://dentistry-ataunipress.org/. The journal guidelines, technical information, and the required forms are available on the journal's web page.

Disclaimer

Statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the opinions of the editors, editorial board, and/or publisher; the editors, editorial board, and publisher disclaim any responsibility or liability for such materials.

Open Access Statement

Current Research in Dental Sciences is an open access publication, and the journal's publication model is based on Budapest Access Initiative (BOAI) declaration. All published content is available online, free of charge at https://dentistry-ataunipress.org/. Authors retain the copyright of their published work in the Current Research in Dental Sciences. The journal's content is licensed under a Creative Commons Attribution-Non-Commercial-NoDerivatives (CC BY-NC-ND) 4.0 International License which permits third parties to share the material for only non-commercial purposes by giving the appropriate credit to the original work. Adaptation and modification of the material is not permitted.

You can find the current version of the Instructions to Authors at https://dentistry-ataunipress.org/.

Editor in Chief: Nuran Yanıkoğlu Address: Atatürk University, Faculty of Dentistry, Erzurum, Turkey E-mail: nyanikoglu@gmail.com

Publisher: Atatürk University Address: Atatürk University, Yakutiye, Erzurum, Turkey

Publishing Service: AVES Address: Büyükdere Cad., 105/9 34394 Şişli, İstanbul, Turkey Phone: +90 212 217 17 00 E-mail: info@avesyayincilik.com Webpage: www.avesyayincilik.com

CONTENTS

RESEARCH ARTICLES	
Evaluation of the effects of ultrasonic device and sandblasting techniques on shear bond strength before rebonded brackets with different base designs	
Merve BAYEL AKGÜL, Filiz USLU	253
Morphometric assessment of sphenoid sinus ostium by cone-beam computed tomography: A retrospective study Özlem OKUMUŞ, Zeliha Zuhal YURDABAKAN	
Evaluation of the effectiveness of different irrigation agents in the removal of calcium hydroxide from root canals Merve MUTLUAY	
Evaluation of the effect of oral rinses on discoloration of different temporary crown materials Elif AYDOĞAN AYAZ, Ayşe GÜNEŞ, Tuğba SERİN KALAY	271
Analysis of the effects of implant cements between different abutments and CAD/CAM materials on connection strength Neslihan YENİCE, Ayşe KOÇAK BÜYÜKDERE	277
Evaluation of the effect of the new type of coronavirus epidemic on the perspectives, clinical attitudes, and behaviors of trainee dentistry students Emin Orkun OLCAY, Almira Ada DİKEN TÜRKSAYAR, Mustafa Borga DÖNMEZ	284
REVIEWS	
Stem cells applications in periodontal treatment Dilek BİNGÖL, Erkan ÖZCAN, Işıl SAYGUN	290
Reinforced glass ionomer cement types Seda Nur KARAKAŞ	
Current treatment approaches in medical-related osteonecrosis of the jaw: Literature review Buse KORKUT, Esengül ŞEN, Yunus BALEL	305
The evaluation of bond strengths of high performance polymers with some dental materials: A review Gülfem ERGÜN, Bahar TEKLİ	