



e-ISSN: 2822-6755

# Dicle Dental Journal

Volume: 25 Issue: 2 Year: 2024



The Official Journal of  
Dicle University Faculty of Dentistry

<https://dergipark.org.tr/tr/pub/dicledentj>

## EDITORIAL BOARD

### OWNER

(On behalf of Dicle University Faculty of Dentistry)

**Prof. Belgin Gülsün**

Department of Oral, Dental and Maxillofacial Surgery, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

### EDITOR IN CHIEF

**Assoc. Prof. Elif Pınar Bakır** 

Department of Restorative Dentistry, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

### ASSOCIATED EDITORS IN CHIEF

**Assoc. Prof. Atılım Akkurt** 

Department of Endodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assoc. Prof. Merve Yeniçeri Özata** 

Department of Endodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

### LANGUAGE EDITOR

**Assist. Prof. Sevim Güneş**

Department of English Language Teaching, Dicle University, Diyarbakır, Türkiye

### STATISTICS EDITOR

**Assist. Prof. Ersin Uysal**

Department of Computer Technologies, Diyarbakır Vocational School of Technical Sciences, Dicle University, Diyarbakır, Türkiye

### DESIGN

**Şerife Kutlu**

E-mail: mha.editoroffice@gmail.com

## EDITORIAL BOARD

**Prof. Arzu Tezvergil Mutluay**

Department of Prosthodontics, Faculty of Dentistry, Turku University, Turku, Finland

**Prof. George Ramanos Stony**

Department of Periodontics and Endodontics, Faculty of Dentistry, Brook University, USA

**Prof. Hasan Alkumru**

Department of Prosthodontics, Faculty of Dentistry, Western Ontario University, Canada

**Prof. H. Cem Güngör**

Department of Pediatric Dentistry, Faculty of Dentistry, Marquette University, USA

**Prof. M. Mutahhar Ulusoy**

Department of Prosthodontics, Faculty of Dentistry, Near East University, Cyprus

**Assoc. Prof. Roda Şeşeoğulları Dirihan**

Department of Cariology and Restorative Dentistry, Faculty of Dentistry, Turku University, Turku, Finland

**Prof. Ahmet Berhan Yılmaz**

Department of Oral Diagnosis and Radiology, Faculty of Dentistry, Katip Çelebi University, İzmir, Türkiye

**Prof. Ahmet Dağ**

Department of Periodontology, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Ali İhsan Zengingül**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Arzum Güler Dođru**

Department of Periodontology, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Atilla Stephan Ataç**

Department of Pediatric Dentistry, Faculty of Dentistry, Lokman Hekim University, Ankara, Türkiye

**Assoc. Prof. Ayça Deniz İzgi**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Ayşe Meşe**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assist. Prof. Ayşe Rençber**

Department of Prosthodontics, Faculty of Dentistry, Fırat University, Elazığ, Türkiye

**Prof. Behiye Sezgin Bolgöl**

Department of Pediatric Dentistry, Faculty of Dentistry, Mustafa Kemal University, Hatay, Türkiye

**Assoc. Prof. Berivan Dündar Yılmaz**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assoc. Prof. Betül Güneş**

Department of Endodontics, Faculty of Dentistry, Osmangazi University, Eskişehir, Türkiye

**Prof. Betül Kargöl**

Department of Pediatric Dentistry, Faculty of Dentistry, Marmara University, İstanbul, Türkiye

**Prof. Beyza Kaya**

Department of Oral Dental and Maxillofacial Surgery, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Bora Bağış**

Department of Prosthodontics, Faculty of Dentistry, İzmir Democracy University, İzmir, Türkiye

**Prof. Buket Ayna**

Department of Pediatric Dentistry, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assoc. Prof. Burcu Güçyetmez Topal**

Department of Pediatric Dentistry, Faculty of Dentistry, Afyonkarahisar Health and Science University, Afyonkarahisar, Türkiye

**Assist. Prof. Cansu Yıkıcı**

Department of Pediatric Dentistry, Faculty of Dentistry, Lokman Hekim University, Ankara, Türkiye

**Assist. Prof. Demet Tümen**

Department of Dental Technology, Dicle University, Diyarbakır, Türkiye

**Prof. Doğan Derya Öztaş**

Department of Prosthodontics, Faculty of Dentistry, Ankara University, Ankara, Türkiye

**Assoc. Prof. Ebru Akleyin**

Department of Pediatric Dentistry, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assist. Prof. Ebru Ece Sarıbaş**

Department of Periodontology, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Ela Tules Kadirođlu**

Department of Periodontology, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Emin Caner Tümen**

Department of Periodontology, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Emine Göncü Başaran**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Emrah Ayna**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Ender Akan**

Department of Prosthodontics, Faculty of Dentistry, Katip Çelebi University, İzmir, Türkiye

**Prof. Fahinur Ertuđrul**

Department of Pediatric Dentistry, Faculty of Dentistry, Ege University, İzmir, Türkiye

**Prof. Figen Seymen**

Department of Pediatric Dentistry, Faculty of Dentistry, İstanbul University, İstanbul, Türkiye

**Assist. Prof. Fikret İpek**

Department of Periodontology, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Filiz Acunkaya**

Department of Periodontology, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Filiz Keyf**

Department of Prosthodontics, Faculty of Dentistry, Hacettepe University, Ankara, Türkiye

**Assoc. Prof. Fundagöl Bilgiç Zortuk**

Department of Oral Orthodontics, Faculty of Dentistry, Mustafa Kemal University, Hatay, Türkiye

**Prof. Gamze Aren**

Department of Periodontology, Faculty of Dentistry, İstanbul University, İstanbul, Türkiye

**Assist. Prof. Gamze Nalcı**

Department of Endodontics, Faculty of Dentistry, Bezmialem University, İstanbul, Türkiye

**Prof. Gözlem Ceylan**

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

**Prof. Gülfem Ergün**

Department of Prosthodontics, Faculty of Dentistry, Gazi University, Ankara, Türkiye

**Prof. Güvenç Başaran**

Department of Orthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. H. Esra Ülker**

Department of Restorative Dentistry, Faculty of Dentistry, Selçuk University, Konya, Türkiye

**Prof. Hayriye Sönmez**

Department of Pediatric Dentistry, Faculty of Dentistry, Ankara University, Ankara, Türkiye

**Prof. Hilal Alan**

Department of Oral Dental and Maxillofacial Surgery, Faculty of Dentistry, İnönü University, Malatya, Türkiye

**Prof. İbrahim Halil Tacir**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assist. Prof. İbrahim Uysal**

Department of Endodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. İlknur Veli**

Department of Oral Orthodontics, Faculty of Dentistry, Katip Çelebi University, İzmir, Türkiye

**Prof. İrfan Karadede**

Department of Oral Orthodontics, Faculty of Dentistry, Katip Çelebi University, İzmir, Türkiye

**Prof. İsmail Marakoğlu**

Department of Periodontology, Faculty of Dentistry, Selçuk University, Konya, Türkiye

**Assist. Prof. İsmet Rezani Toptancı**

Department of Pediatric Dentistry, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. İzzet Yavuz**

Department of Pediatric Dentistry, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assist. Prof. Kamile Oruç**

Department of Orthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Korkut Demirel**

Department of Periodontology, Faculty of Dentistry, Kent University, İstanbul, Türkiye

**Prof. Köksal Beydemir**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Levent Özer**

Department of Pediatric Dentistry, Faculty of Dentistry, Ankara University, Ankara, Türkiye

**Assoc. Prof. Mehmet Çolak**

Department of Oral Diagnosis and Radiology, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assoc. Prof. Mehmet Doğru**

Department of Orthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assist. Prof. Melek Atiler**

Department of Periodontology, Faculty of Dentistry, Fırat University, Elazığ, Türkiye

**Prof. Melek D. Turgut**

Department of Pediatric Dentistry, Faculty of Dentistry, Hacettepe University, Ankara, Türkiye

**Prof. Mine Betül Üçtaşı**

Department of Restorative Dentistry, Faculty of Dentistry, Gazi University, Ankara, Türkiye

**Assoc. Prof. Mustafa Gündoğar**

Department of Endodontics, Faculty of Dentistry, İstanbul Medipol University, İstanbul, Türkiye

**Assist. Prof. Mustafa Orkun Ertuğrul**

Department of Restorative Dentistry, Faculty of Dentistry, Atlas University, İstanbul, Türkiye

**Assoc. Prof. Nedim Güneş**

Department of Oral Dental and Maxillofacial Surgery, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Nihal Avcu**

Department of Oral Diagnosis and Radiology, Faculty of Dentistry, Hacettepe University, Ankara, Türkiye

**Prof. Nihal Hamancı**

Department of Orthodontics, Faculty of Dentistry, Adıyaman University, Adıyaman, Türkiye

**Assoc. Prof. Nihat Laçın**

Department of Oral Dental and Maxillofacial Surgery, Faculty of Dentistry, Katip Çelebi University, İzmir, Türkiye

**Prof. Nurhan Özalp**

Department of Pediatric Dentistry, Faculty of Dentistry, Ankara University, Ankara, Türkiye

**Assist. Prof. Nurullah Düğer**

Department of Restorative Dentistry, Faculty of Dentistry, Fırat University, Elazığ, Türkiye

**Assist. Prof. Ömer Çellik**

Department of Restorative Dentistry, Faculty of Dentistry, Adıyaman University, Adıyaman, Türkiye

**Prof. Özkan Adıgüzel**

Department of Endodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assoc. Prof. Pamir Meriç**

Department of Orthodontics, Faculty of Dentistry, Trakya University, Edirne, Türkiye

**Prof. Remzi Nigiz**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assist. Prof. Rıdvan Güler**

Department of Oral Dental and Maxillofacial Surgery, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Sabiha Zelal Başkan Ülkü**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Sadullah Üçtaşı**

Department of Prosthodontics, Faculty of Dentistry, Ankara University, Ankara, Türkiye

**Prof. Sadullah Kaya**

Department of Endodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assist. Prof. Savaş Sağmak**

Department of Restorative Dentistry, Faculty of Dentistry, Adıyaman University, Adıyaman, Türkiye

**Assoc. Prof. Seda Falakaloğlu**

Department of Endodontics, Faculty of Dentistry, İstanbul Health and Technology University, İstanbul, Türkiye

**Prof. Seher Gündüz Arslan**

Department of Orthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Sema Belli**

Department of Endodontics, Faculty of Dentistry, Selçuk University, Konya, Türkiye

**Prof. Sema Çelenk**

Department of Pediatric Dentistry, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Serkan Ağaçayak**

Department of Oral Dental and Maxillofacial Surgery, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Sibel Yıldırım**

Department of Pediatric Dentistry, Faculty of Dentistry, Selçuk University, Konya, Türkiye

**Prof. Süleyman Ağuloğlu**

Department of Prosthodontics, Faculty of Dentistry, Katip Çelebi University, İzmir, Türkiye

**Assoc. Prof. Suzan Cangül**

Department of Restorative Dentistry, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assist. Prof. Sinem Coşkun**

Department of Oral Diagnosis and Radiology, Faculty of Dentistry, Lokman Hekim University, Ankara, Türkiye

**Assoc. Prof. Şeymus Bakır**

Department of Restorative Dentistry, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assoc. Prof. Utku Nezir Yılmaz**

Department of Oral Dental and Maxillofacial Surgery, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Assoc. Prof. Yalçın Değer**

Department of Prosthodontics, Faculty of Dentistry, Dicle University, Diyarbakır, Türkiye

**Prof. Yasemin Keskin**

Department of Prosthodontics, Faculty of Dentistry, Ankara University, Ankara, Türkiye

**Assoc. Prof. Yazgı Ay Ünüvar**

Department of Orthodontics, Faculty of Dentistry, Adnan Menderes University, Aydın, Türkiye

**Assoc. Prof. Zehra Süsgün Yıldırım**

Department of Restorative Dentistry, Faculty of Dentistry, Çukurova University, Adana, Türkiye

**Prof. Zeki Akkuş**

Department of Biostatistics, Faculty of Medicine, Dicle University, Diyarbakır, Türkiye

**Prof. Zühal Kırzioğlu**

Department of Pediatric Dentistry, Faculty of Dentistry, Süleyman Demirel University, Isparta, Türkiye

## CONTENTS

### Original Articles

**Evaluation of the effect of orthognathic surgery on alveolar bone level: a cone-beam computed tomography study** 29-37

**Mehmet Doğru, Mete Çitaker**

*Dicle Dent J. 2024;25(2):29-37*

**Investigation of the effect of denosumab and ozone application on bone healing in critical size bone defects** 38-45

**Ersin Keskin, Beyza Kaya, Ayfer Aktaş**

*Dicle Dent J. 2024;25(2):38-45*

**Comparison of two different types of molar distalization appliance** 46-57

**Kamile Oruç, Jalan Devocioğlu Kama, Törün Özer**

*Dicle Dent J. 2024;25(2):46-57*

### Review

**Benign neoplasms of gingiva and alveolar mucosa** 58-64

**Umut Yaprak, Ela Tules Kadiroğlu**

*Dicle Dent J. 2024;25(2):58-64*

### Case Report

**Surgical treatment of chronic sinus pain developing after dental implant placement: a case report with 3-month follow-up** 65-68

**Muhammed Furkan Özcan, Kubilay Barış**

*Dicle Dent J. 2024;25(2):65-68*