

## Prof. KAAAN ORHAN



### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: I-4026-2019

ScopusID: 8502419700

Yoksis Researcher ID: 18279

### Education Information

Expertise In Medicine, Ankara University, Dış Hekimliği Fakültesi, Klinik Bilimler Bölümü, Turkey 2016 - 2020

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Turkey 2014 - 2016

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Oral Diagnoz Ve Radyoloji (Dış Hekimliği) (Dr), Turkey 1998 - 2003

Doctorate, Osaka University, Dış Hekimliği Fakültesi, Dış Hekimliği Fakültesi, Japan 2000 - 2002

Undergraduate, Ankara University, Dış Hekimliği Fakültesi, Turkey 1993 - 1998

### Biography

### Foreign Languages

English, C1 Advanced

Japanese, B2 Upper Intermediate

German, A2 Elementary

### Certificates, Courses and Trainings

Measurement and Evaluation, Eğitimde Ölçme Değerlendirme, Ankara Üniversitesi, 2022

### Dissertations

Expertise In Medicine, Manyetik rezonans görüntülemeye kullanılan sirküler tip yüzeyel koilin homojen olmayan sensitivitesinin bilgisayar programı yardımıyla düzeltilerek temporomandibular eklem ve patolojilerinin incelenmesi,

Kaan Orhan, DDS MSc MHM PhD, BBAC is a Professor of DentoMaxilloFacial Radiology at the Ankara University, Faculty of Dentistry, where he serves as a faculty in Dentomaxillofacial Radiology Department, Ankara University, Ankara, Turkey, and visiting Professor at the Medical University of Lublin, Poland and was also visiting Professor between 2018-2020 at the OMFS-IMPACT Research Group, Department of Imaging and Pathology, University of Leuven, Belgium. He is currently also a visiting Professor at the Lublin University Faculty of Medicine in Poland and the Regenerative Medicine Department of the University of Bari Aldo Moro in Italy.

Dr. Orhan received his dental degree in 1998 and completed his PhD and Maxillofacial radiology residency studies in 2002 at the Osaka University Faculty of Dentistry in Osaka, Japan and Ankara University, Faculty of Dentistry. In 2004, he started his academic career in Ankara University as a consultant at the Faculty of Dentistry. Between 2004-2006, he worked as Maxillofacial consultant and lecturer in the same University. He became an associate professor in 2006 and a full-time professor in 2012. 2007-2010, he was the founder and the chairman of Dentomaxillofacial Radiology Department, Near East University, Cyprus.

He has over 300 SCI international publications on peer-reviewed journals, and received over 4000 citations from his studies with an h index 35. He particularly made significant contributions in the Maxillofacial Radiology. He has been invited to give many lectures in national and international scientific meetings. He served as the chairman of Research and Scientific Committee, European Academy of DentoMaxillofacial Radiology (EADMFR) between 2008-2012 and he was elected for the Vice president position (2012-2014) and then as the President of EADMFR.

He is also still serving in the Research and Scientific com in IADMFR. He is a fellow of American Academy of Oral and Maxillofacial Radiology (AAOMFR), Japanese Board of DentoMaxillofacial Radiology, European Head and Neck Radiology Society (ESHNR), European society of Magnetic Resonance in Medicine and Biology (ESRMB), Turkish Magnetic Resonance Society,

He is also serving a Board member of specialization committee in Ministry of Health and served as the recognition of Dentomaxillofacial Radiology specialty in Turkey. He is editor of several journals and also reviewer more than 50 different medical journals. He is co-author and contributor of eight books both in English and Turkish.

Prof. Dr. Kaan Orhan was included in the "World's Most Influential Scientist" list, which was published by Stanford University in 2021, at the rate of 2% according to academic and scientific performance among 7 million researchers all over the world. In 2020, he received the "Innovative Dentist of the Year" award with his work titled Artificial Intelligence Application in Dentistry. Besides, The Lincoln R. Manson-Hing Honorable Mention Award given by the Oral Maxillofacial Radiology Association of America in 2018 and 2019, and the Ankara University Science Award in 2018, the Turkish Dental Society Oral and Dental Health 2nd Prize in 2015, and the "52nd Prize in Dental Health" in 2011. Japanese Congress of DentoMaxillofacial Radiology". He received the European Congress of DentoMaxillofacial Radiology", the best study award in 2008. "Yoshida Manufacturing Award" at the "7th Asia Oral and Maxillofacial Radiology" congress in 2008.

Ankara University, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 2003

## Research Areas

Health Sciences, Engineering and Technology

## Academic Titles / Tasks

Professor, Ankara University, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 2012 - Continues

Associate Professor, Ankara University, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 2006 - 2012  
Expert, Ankara University, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 2003 - 2006

## Academic and Administrative Experience

Ankara University, 2016 - Continues  
Ankara University, 2016 - Continues  
Near East University, 2008 - 2010  
Near East University, 2007 - 2010  
Ankara University, 2006 - 2007

## Courses

Muayne ve Muayene Formu, Undergraduate, 2017 - 2018  
Oral Diağnoza Giriş, Undergraduate, 2017 - 2018  
Uzmanlık Alan Dersi, Doctorate, 2017 - 2018  
Temporomandibula Eklem, Undergraduate, 2017 - 2018  
ORAL DİAGNOZ VE RADYOLOJİ, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2010 - 2011, 2009 - 2010  
Seminer, Doctorate, 2017 - 2018  
45302105 Radyolojide adli diş hekimliği uygulamaları, Doctorate, 2017 - 2018  
45302115 Sistemik hastalıklar ve diş hekimliği uygulamaları, Doctorate, 2017 - 2018  
45302075- TME Patolojileri Ve Radyolojisi, Doctorate, 2016 - 2017  
45302119- Radyolojik Raporlama, Doctorate, 2016 - 2017  
45301051 Sistemik Hastalıklar ve Dişhekimliği Uygulamaları, Doctorate, 2014 - 2015  
45301053 Panoramik Görüntüleme, Doctorate, 2014 - 2015  
İntraoral Yumuşak Doku Lezyonlarında Taniya Varma, Doctorate, 2009 - 2010  
Dijital ve 3 Boyutlu görüntüleme ve planlama teknikleri, Doctorate, 2009 - 2010  
Dentomaksillofasiyal bölge MR uygulamaları, Doctorate, 2009 - 2010  
Kardiovasküler Hastalığı bulunan Hastaların Değerlendirilmesi, Doctorate, 2009 - 2010  
Adli dişhekimliğinde radyoloji, Doctorate, 2008 - 2009  
Ultrasonographic applications of Dento Maxillofacial imaging, Doctorate, 2008 - 2009  
kstra-oral Teknikler/Radyasyon zararları ve radyasyondan korunma, Doctorate, 2008 - 2009  
Tempromandibular Eklem hastalıkları ve görüntüleme teknikleri, Doctorate, 2008 - 2009  
Salivary Gland disease and radiographic imaging, Doctorate, 2008 - 2009  
Dentomaksillofasiyal bölge CT uygulamaları, Doctorate, 2008 - 2009  
Maksiller sinüs patolojileri ve radyolojisi, Doctorate, 2008 - 2009  
İntraoral ve ekstraoral radyografi teknikleri, anatomik landmarklar, Doctorate, 2008 - 2009  
Oral Diağnozda Laser uygulamaları, Doctorate, 2008 - 2009  
Klinik ve Radyografik değerlendirme, Doctorate, 2007 - 2008  
Intraoral ve Ekstraoral muayene, Doctorate, 2007 - 2008  
Vital Bulgular, Doctorate, 2007 - 2008  
Anamnez, Doctorate, 2007 - 2008

## Advising Theses

ORHAN K., Farklı maloklüzyon tiplerinde temporomandibuler eklem ve çevresindeki yapılardaki osseöz değişiklikler ve morfometrik ölçümler, Postgraduate, S.EŞME(Student), 2021  
ORHAN K., ÖSTAKİ TÜPÜNÜN VE KOMŞU ANATOMİK YAPILARIN KONİK İŞINLI BİLGİSAYARLI TOMOGRAFİ

KULLANILARAK ANATOMİK VE MORFOMETRİK OLARAK RETROSPEKTİF DEĞERLENDİRİLMESİ, Dental Specialty, U.SEKİ(Student), 2018

ORHAN K., Temporal kemiğin ve komşuluklarının konik ışınli bilgisayarlı tomografide farklı fov ve voksel büyüklüklerinde anatomik ve morfolojik retrospektif değerlendirilmesi, Dental Specialty, N.YETİMOĞLU(Student), 2016

ORHAN K., Konik ışınli komputerize tomografi kullanılarak üç boyutlu olarak paranasal sinüs ve varyasyonlarının üst havayolu anatomisi ile birlikte incelenmesi, Doctorate, S.AKSOY(Student), 2013

ORHAN K., Konik ışınli komputerize tomografi kullanarak Fossa pterygopalatina, Fissura pterygomaxillaris, Nasopalatin (Insisiv) kanal ve çevresindeki yapıların anatomik olarak bir grup Türk populasyonunda retrospektif incelenmesi, Doctorate, M.İÇEN(Student), 2012

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the relationship between the mandibular third molar teeth and the inferior alveolar nerve using posteroanterior radiographs: a pilot study**  
Apaydin B. K., Icoz D., Uzun E., ORHAN K.  
BMC ORAL HEALTH, vol.24, no.1, 2024 (SCI-Expanded)
- II. **Validation of artificial intelligence application for dental caries diagnosis on intraoral bitewing and periapical radiographs**  
Szabó V., Szabo B. T., ORHAN K., Veres D. S., Manulis D., Ezhov M., Sanders A.  
Journal of Dentistry, vol.147, 2024 (SCI-Expanded)
- III. **Tooth numbering and classification on bitewing radiographs: an artificial intelligence pilot study**  
Altındağ A., Bahrilli S., ÇELİK Ö., BAYRAKDAR İ. Ş., ORHAN K.  
Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, vol.137, no.6, pp.679-689, 2024 (SCI-Expanded)
- IV. **In vitro caries-preventive effect of a mineralization-promoting peptide combined with fluoride gel on sound primary teeth**  
Yaşar M., Bal C., Aksoy M., GÜNGÖRMÜŞ M., ORHAN K.  
International Journal of Paediatric Dentistry, vol.34, no.3, pp.256-266, 2024 (SCI-Expanded)
- V. **Relationships between Interleukin 18 -607 C/A and -137 G/C, Osteopontin -9250 C/T Genetic Polymorphisms and Systemic Inflammatory Response Syndrome in Coronary Artery Bypass Graft Surgery**  
KÖSE S. K., Karahilal B., Engin B., Aydoğdu G., Yağar S., ORHAN K.  
Medicina (Lithuania), vol.60, no.5, 2024 (SCI-Expanded)
- VI. **The Detection of Pulp Stones with Automatic Deep Learning in Panoramic Radiographies: An AI Pilot Study †**  
Altındağ A., Bahrilli S., ÇELİK Ö., BAYRAKDAR İ. Ş., ORHAN K.  
Diagnostics, vol.14, no.9, 2024 (SCI-Expanded)
- VII. **A potential novel technique for measurement of pulp volume on periapical radiography: A pilot study**  
Satir S., Ozel S., ORHAN K.  
KAOHSIUNG JOURNAL OF MEDICAL SCIENCES, vol.40, no.5, pp.499-505, 2024 (SCI-Expanded)
- VIII. **Second mesiobuccal canal segmentation with YOLOv5 architecture using cone beam computed tomography images**  
DUMAN Ş. B., ÇELİK ÖZEN D., BAYRAKDAR İ. Ş., Baydar O., Alhajja E. S. A., Helvacioğlu Yiğit D., ÇELİK Ö., Jagtap R., Pileggi R., ORHAN K.  
Odontology, vol.112, no.2, pp.552-561, 2024 (SCI-Expanded)
- IX. **Evaluation of morphological and morphometric characteristics of the temporomandibular joint in children with different skeletal models in the sagittal and vertical direction**  
Sırlı Yılmazturk S., BOZDEMİR E., ORHAN K., ORHAN H.  
Oral Radiology, vol.40, no.2, pp.178-187, 2024 (SCI-Expanded)
- X. **Artificial intelligence system for automatic maxillary sinus segmentation on cone beam computed**

**tomography images.**

Bayrakdar I. S., Elfayome N. S., Hussien R. A., Gulsen I. T., Kuran A., Gunes I., Al-Badr A., Celik O., Orhan K.  
Dento maxillo facial radiology, 2024 (SCI-Expanded)

- XI. **Prediction of extraction difficulty for impacted maxillary third molars with deep learning approach.**  
Torul D., Akpınar H., Bayrakdar I. S., Celik O., Orhan K.  
Journal of stomatology, oral and maxillofacial surgery, pp.101817, 2024 (SCI-Expanded)
- XII. **Evaluation of the Sigmoid Sinus Morphology by Cone Beam Computed Tomography; Touchstone of the Posterior Cranial Fossa**  
Demir B. T., Akduman D., Bilecenoglu B., ORHAN K.  
World Neurosurgery, vol.183, 2024 (SCI-Expanded)
- XIII. **The Effect of Gravity on Marginal Integrity of Different Flowable Bulk-Fill Resin Composites**  
BALTACIOĞLU İ. H., DEMİREL G., KOLSUZ M. E., ORHAN K.  
MEDICINA-LITHUANIA, vol.60, no.3, 2024 (SCI-Expanded)
- XIV. **Effects of N-acetyl-L-cysteine against apical periodontitis in rats with adriamycin-induced cardiomyopathy and nephropathy**  
Şehirli A. Ö., Aksoy U., Sibai A., ORHAN K., Saymer S.  
International Endodontic Journal, vol.57, no.2, pp.195-207, 2024 (SCI-Expanded)
- XV. **Variations and thicknesses of anterior belly of the digastric muscle: an ultrasonographic study**  
Ünsal G., Göksel S., ÇAKIR KARABAŞ H., ERTÜRK A. F., ÖZCAN İ., EVLİ C., ÖNDER M., ORHAN K.  
European Archives of Oto-Rhino-Laryngology, vol.281, no.1, pp.411-418, 2024 (SCI-Expanded)
- XVI. **Detection of periodontal bone loss patterns and furcation defects from panoramic radiographs using deep learning algorithm: a retrospective study**  
Kurt-Bayrakdar S., Bayrakdar I. S., Yavuz M. B., Sali N., Celik O., KÖSE O., Uzun Saylan B. C., Kuleli B., Jagtap R., ORHAN K.  
BMC ORAL HEALTH, no.1, 2024 (SCI-Expanded)
- XVII. **Prevalence of Multiple Miliary Type of Osteoma Cutis in the Maxillofacial Region as an Incidental Finding: A Retrospective Cone Beam Computed Tomography Study**  
Gündüz K., Serindere G., Avsever H., ORHAN K.  
West Indian Medical Journal, vol.71, no.1, pp.33-36, 2024 (SCI-Expanded)
- XVIII. **Maxillary Canine Impaction: Assessing the Influence of Maxillary Anatomy Using Cone Beam Computed Tomography**  
Firinciogullari M., Kurt D., Koral S., ORHAN K.  
Medical Science Monitor, vol.30, 2024 (SCI-Expanded)
- XIX. **Development and validation of an artificial intelligence software for periodontal bone loss in panoramic imaging**  
Amasya H., Jaju P. P., Ezhov M., Gusarev M., Atakan C., Sanders A., Manulius D., Golitsky M., Shrivastava K., Singh A., et al.  
INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY, vol.34, no.1, 2024 (SCI-Expanded)
- XX. **Dental caries and associated factors among Turkish children and adults: Findings from the 3rd National Oral Health Survey**  
ORHAN A. I., ALKAN A., ORHAN K., TEZEL A., Karaoglanoglu S., ÖZTAŞ D.  
Community Dentistry and Oral Epidemiology, 2024 (SCI-Expanded)
- XXI. **The micro CT evaluation of crown and root pulp volume versus dentin thickness in teeth in postmortem interval (PMI)**  
Cetin S., Akbulut N., ORHAN K., Bilecenoglu B., OCAK M., Bayram E., Altan A., Eren B., Silsupur S., Oner B. S.  
Forensic Science, Medicine, and Pathology, 2024 (SCI-Expanded)
- XXII. **Scientific integrity in the era of predatory journals: Insights from an editors in chief symposium**  
Benyó Z., Clementi E., Cremers S., Dávid B., Guzik T., Heusch G., Jarvis M., ORHAN K., Seifert R., Tímár J., et al.  
British Journal of Pharmacology, 2024 (SCI-Expanded)
- XXIII. **Reply to Perrella et al. Coming Back to the Basics. Comment on "Cangir et al. A CT-Based Radiomic Signature for the Differentiation of Pulmonary Hamartomas from Carcinoid Tumors.**

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KAYI CANGIR A., ORHAN K., GÜRSOY ÇORUH A., Bini F.

DIAGNOSTICS, vol.13, no.23, 2023 (SCI-Expanded)

- XXIV. **An artificial intelligence study: automatic description of anatomic landmarks on panoramic radiographs in the pediatric population**  
BAĞ İ., BİLGİR E., BAYRAKDAR İ. Ş., Baydar O., Atak F. M., ÇELİK Ö., ORHAN K.  
BMC Oral Health, vol.23, no.1, 2023 (SCI-Expanded)
- XXV. **Operational Analysis of Trautman's Triangle in Petroclival Region Approaches: Cone-Beam Computed Tomography Study**  
Tuğtağ Demir B., Bilecenoğlu B., ORHAN K.  
World Neurosurgery, vol.179, 2023 (SCI-Expanded)
- XXVI. **Evaluation of a Decision Support System Developed with Deep Learning Approach for Detecting Dental Caries with Cone-Beam Computed Tomography Imaging**  
AMASYA H., Alkhader M., Serindere G., Futyma-Gąbka K., Aktuna Belgin C., Gusarev M., Ezhov M., Różyło-Kalinowska I., ÖNDER M., Sanders A., et al.  
Diagnostics, vol.13, no.22, 2023 (SCI-Expanded)
- XXVII. **Is it possible to reveal a typical swallowing pattern for specific skeletal malocclusion types using M-mode sonographic imaging of tongue movements?**  
GÖRÜRGÖZ C., Yanginci Y., AKÇAM M. O., ORHAN K.  
JOURNAL OF OROFACIAL ORTHOPEDICS-FORTSCHRITTE DER KIEFERORTHOPADIE, vol.84, no.6, pp.392-404, 2023 (SCI-Expanded)
- XXVIII. **Evaluation of the Breastfeeding Dynamics of Neonates with Ankyloglossia via a Novel Ultrasonographic Technique**  
Alan A., ORHAN A. I., ORHAN K.  
DIAGNOSTICS, vol.13, no.22, 2023 (SCI-Expanded)
- XXIX. **The effect of game-based learning on basic life support skills training for undergraduate dental students**  
AKALTAN K. F., ÖNDER C., VURAL Ç., ORHAN K., Akdogan N., ATAKAN C.  
JOURNAL OF DENTAL EDUCATION, vol.87, no.10, pp.1458-1468, 2023 (SCI-Expanded)
- XXX. **Assessing the reliability of CBCT-based AI-generated STL files in diagnosing osseous changes of the mandibular condyle: a comparative study with ground truth diagnosis**  
Orhan K., Atakan C., Önder M.  
DENTOMAXILLOFACIAL RADIOLOGY, vol.52, no.7, pp.1-10, 2023 (SCI-Expanded)
- XXXI. **Evaluation of the influence of hyoid bone position, volume, and types on pharyngeal airway volume and cephalometric measurements**  
Kurbanova A., Aksoy S., Andrieu M. N., Oez U., ORHAN K.  
ORAL RADIOLOGY, vol.39, no.4, pp.731-742, 2023 (SCI-Expanded)
- XXXII. **Detection of tooth numbering, frenulum attachment, gingival overgrowth, and gingival inflammation signs on dental photographs using convolutional neural network algorithms: A retrospective study**  
KURT BAYRAKDAR S., UĞURLU M., YAVUZ M. B., SALI N., Bayrakdar I. Ş., ÇELİK Ö., KÖSE O., BEKLEN A., Saylan B. C. U., Jagtap R., et al.  
Quintessence International, vol.54, no.8, pp.680-693, 2023 (SCI-Expanded)
- XXXIII. **Influence of voxel size and filter type on detecting vertical root fracture using cone-beam computed tomography**  
KOLSUZ M. E., EVLİ C., AKSOY U., Koohnavard M., Aksoy S., ORHAN K.  
AUSTRALIAN ENDODONTIC JOURNAL, vol.49, no.S1, pp.439-446, 2023 (SCI-Expanded)
- XXXIV. **Evaluation of Operator and Patient Doses after Irradiation with Handheld X-ray Devices**  
Orhan K.  
APPLIED SCIENCES, vol.13, pp.1-10, 2023 (SCI-Expanded)
- XXXV. **Quantitative assessment of image artifacts from zygoma implants on CBCT scans using different exposure parameters**

ORHAN K., Kocyigit D., Firincioglulari M., ADIŞEN M. Z., Kocyigit S.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.237, no.9, pp.1082-1090, 2023 (SCI-Expanded)

- XXXVI. **Association among Orthodontic Malocclusions, Paranasal Sinuses Anatomic Variations and Adenoid Vegetation in Children Using CBCT**  
KÖSE S. K., Aksoy S., ÖNDER M., Oz U., ORHAN K.  
Children, vol.10, no.9, 2023 (SCI-Expanded)
- XXXVII. **Effect of bromelain on periodontal destruction and alveolar bone in rats with experimental periodontitis**  
Paksoy T., Ustaoglu G., Şehirli A. Ö., Ünsal R. B. K., Sayner S., ORHAN K., Aycı N. B., ÇETİNEL Ş., Aksoy U., Ögünç A. V.  
International Immunopharmacology, vol.121, 2023 (SCI-Expanded)
- XXXVIII. **Retrospective evaluation of the morphometric and morphological anatomy of the occipital condyle, hypoglossal canal and foramen magnum in Turkish population with CBCT**  
EVLİ C., KOLSUZ M. E., ORHAN K.  
SURGICAL AND RADIOLOGIC ANATOMY, vol.45, no.7, pp.795-805, 2023 (SCI-Expanded)
- XXXIX. **Long-term evaluation of masseter muscle activity, dimensions, and elasticity after orthognathic surgery in skeletal class III patients**  
Muftuoglu O., Akturk E. S., EREN H., GÖRÜRĞÖZ C., Karasu H. A., ORHAN K., AKAT B., TOYGAR MEMİKOĞLU T. U.  
Clinical Oral Investigations, vol.27, no.7, pp.3855-3861, 2023 (SCI-Expanded)
- XL. **Deep convolutional neural network algorithm for the automatic segmentation of oral potentially malignant disorders and oral cancers**  
Unsal G., Chaurasia A., Akkaya N., Chen N., Abdalla-Aslan R., Koca R. B., ORHAN K., Roganovic J., Reddy P., Wahjuningrum D. A.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.237, no.6, pp.719-726, 2023 (SCI-Expanded)
- XLI. **A Clinical Comparison of Er:YAG Laser, Piezosurgery, and Conventional Bur Methods in the Impacted Third Molar Surgery**  
Genç B. G. Ç., ORHAN K., Or S.  
Photobiomodulation, photomedicine, and laser surgery, vol.41, no.6, pp.283-290, 2023 (SCI-Expanded)
- XLII. **Using artificial intelligence models to evaluate envisaged points initially: A pilot study**  
AMASYA H., AYDOĞAN T., Cesur E., Kemaloglu Alagoz N., UĞURLU M., BAYRAKDAR İ. Ş., ORHAN K.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.237, no.6, pp.706-718, 2023 (SCI-Expanded)
- XLIII. **Association of accessory sphenoidal septum with protrusions of sphenoid sinus**  
Goksel S., Unsal G., ÇAKIR KARABAŞ H., ERTÜRK A. F., Ozcan I., ORHAN K.  
European Archives of Oto-Rhino-Laryngology, vol.280, no.5, pp.2323-2329, 2023 (SCI-Expanded)
- XLIV. **Effect of Traditional and Conservative Endodontic Access Cavities on Instrumentation Efficacy of Two Different Ni-Ti Systems: A Micro-CT Study**  
Koohnavard M., ÇELİKTEN B., BÜYÜKSUNGUR A., ORHAN K.  
APPLIED SCIENCES-BASEL, vol.13, no.9, 2023 (SCI-Expanded)
- XLV. **Development and validation of intraoral periapical radiography-based machine learning model for periodontal defect diagnosis**  
Karacaoğlu F., Kolsuz M. E., Bağış N., Evli C., Orhan K.  
Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, vol.237, no.5, pp.607-618, 2023 (SCI-Expanded)
- XLVI. **Assessing the Effectiveness of Artificial Intelligence Models for Detecting Alveolar Bone Loss in Periodontal Disease: A Panoramic Radiograph Study**  
UZUN SAYLAN B. C., Baydar O., YEŞİLOVA E., KURT BAYRAKDAR S., BİLGİR E., BAYRAKDAR İ. Ş., ÇELİK Ö., ORHAN K.  
Diagnostics, vol.13, no.10, 2023 (SCI-Expanded)
- XLVII. **Clindamycin phosphate and bone morphogenetic protein-7 loaded combined nanoparticle-graft and nanoparticle-film formulations for alveolar bone regeneration – An in vitro and in vivo evaluation**

Ilhan M., KILIÇARSLAN M., Alcigir M. E., BAĞIŞ N., EKİM O., ORHAN K.

International Journal of Pharmaceutics, vol.636, 2023 (SCI-Expanded)

- XLVIII. **Morphometric and morphological evaluation of mastoid emissary canal using cone-beam computed tomography**  
Temiz M., Ozen D. C., DUMAN Ş. B., BAYRAKDAR İ. Ş., KAZAN O., Jagtap R., ALTUN O., Z Abdelkarim A., Syed A. Z., ORHAN K.  
Science progress, vol.106, no.2, 2023 (SCI-Expanded)
- XLIX. **Automatic Segmentation of Teeth, Crown-Bridge Restorations, Dental Implants, Restorative Fillings, Dental Caries, Residual Roots, and Root Canal Fillings on Orthopantomographs: Convenience and Pitfalls**  
Gardiyanoğlu E., Unsal G., Akkaya N., Aksoy S., ORHAN K.  
DIAGNOSTICS, vol.13, no.8, 2023 (SCI-Expanded)
- L. **The morphometric analysis of mastoid foramen and mastoid emissary canal on cone-beam computed tomography (CBCT)**  
Yurdabakan Z. Z., Okumus O., Orhan K.  
SURGICAL AND RADIOLOGIC ANATOMY, vol.45, no.3, pp.303-314, 2023 (SCI-Expanded)
- LI. **Analysing the effect of sodium bicarbonate and glycine air polishing on tooth surfaces with two different imaging methods**  
Balta-Uysal V. M., ORHAN K., OĞUZ E. İ., Guzeldemir-Akcakanat E.  
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- LII. **Deep-Learning-Based Automatic Segmentation of Parotid Gland on Computed Tomography Images**  
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## **Children and an Adult Population**

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- XCIII. **Klinikte malignite şüphesi taşıyan gingival lezyonların usg ve histopatolojik değerlendirmesi**  
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- XCVIII. **Segmentation of Teeth Region via Machine Learning in Panoramic X-Ray Dental Images Panoramik X-Ray Dis Görüntülerinde Dis Bölgesinin Makine Öğrenimi ile Bölütlenmesi**

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**C. Marginal Adaptation of Bulk-fill Resin Composites with Different Viscosities in Class II Restorations by Micro-CT Evaluation**

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**CI. Pre-heating vs sonic delivery on internal void formation of dental composites**

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**CIII. Comparison of the Different Voxel Size in the Estimation of Peri-implant Fenestration Defects Using Cone Beam Computed Tomography: An In-Vitro Study**

BAĞIŞ N., KURT M. H., ORHAN K., ATAKAN C.

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**CIV. Comparison of the Optimization Filters in the Estimation of Peri-implant Fenestration Defects Using Cone Beam Computed Tomography: An In-Vitro Study**

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**CV. Dijital iş Akışında yenilikler ve yapay zeka**

ORHAN K.

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**CVI. Comparison of organ and effective doses between low-dose Multi-slice CT and Cone-beam CT protocols for paediatric dental exposures**

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- CXII. **Three-Dimensional Volumetric Analysis of the Maxillary Sinus: A CBCT Study**  
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- CXVII. **Tip 2 Diabetes Mellitus Hastalarında Endodontik Tedav i Sonrasında Fraktel Boyut Değişiminin Değerlendirilmesi**  
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- CXX. **Dişlerin Kök-Kanallarının Yapay Zeka Programı ile Analizi: Ön Çalışma**  
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- CXXII. **Role of CBCT imaging in head/neck radiology**  
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- CXXIII. **CBCT in TMJ imaging**  
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- CXXIV. **TMJ anatomy, pathologies, imaging and therapies**  
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- CXXV. **Akciğer Kanseri Olgularda 3D Mikro-BT ile Elde Edilen Görüntülerin Histopatolojik İnceleme İle Karşılaştırılması**  
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- CXXVIII. **Correlation Between Micro-Ct and Computerized Fluid-Filtration Method: Original Research**  
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- CXXX. **KKTC toplumunda fenestrasyon ve dehisens prevalansının konik ışınli bilgisayarlı tomografi ile değerlendirilmesi**  
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- CXXXII. **Sella tursika köprüsü ve angle malokluzyon ilişkisi**  
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- CXXXIV. **Effect of systemic oxytocin application on new bone formation and distraction rate on rabbit mandible: first Results**  
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- CXXXVIII. **Contemporary imaging techniques in pediatric dentistry with interactive case discussions**  
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- CXXXIX. **Non-Destructive 3D Imaging and Quantitative Analysis of Clindamycin Phosphate Loaded PLGA Nanoparticles by Using Nano-CT**  
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- CXLII. **“clues at your fingertips: 1-day ultrasound hands-on course”**  
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PARSA A., ORHAN K.  
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- CXLV. **PR and CBCT reading session.**  
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- CXLVI. **Radiation dose from DMFR**  
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- CXLVIII. **A brief description of the specialist training programme in Turkey, The specialist training program at Ankara University Faculty of Dentistry follow**  
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- CXLIX. **çürüğün temizlenmesinde kemomekanik çürük uzaklaştırma ve döner alet tekniğinin in vitro koşullarda karşılaştırılmalı olarak değerlendirilmesi**  
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- CL. **Comparison of age related changes among clivus, cranial and mandibular condyle bone marrow on magnetic resonance imaging**  
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- CLV. **AKCİĞER KANSERLİ OLGULARDA 3D MİKRO-BT İLE ELDE EDİLEN GÖRÜNTÜLERİN HİSTOPATOLOJİK İNCELEME İLE KARŞILAŞTIRILMASI**  
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VIII. ULUSAL AKCİĞER KANSERİ KONGRESİ, Muğla, Turkey, 4 - 07 October 2018
- CLVI. **Akciğer kanserli olgularda 3d mikro-bt ile Elde edilen görüntülerin histopatolojik İnceleme ile karşılaştırılması**  
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- CLVII. **The Evaluation of Complete Denture Base Adaptation According to Various Palatal Vault Depth and Fabrication Technique**  
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- CLVIII. **Assessment of the differences in paranasal sinuses oral upper airway anatomy in the Anatolian and Cypriot population by mean of tomography**  
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- CLX. **Volumetric evaluation of mastoid air cell system in orthodontic malocclusions using cone beam computed tomography**  
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- CLXI. **Clues at your fingertips: dentomaxillofacial ultrasound applications**  
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- CLXII. **case report: a meningioma causing atypical facial pain**  
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- CLXVII. **Central Giant Cell Granuloma: A Case Report of Conservative Steroids Treatment and Follow-up**  
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- CLXXI. **Effects of the alpha-lipoic acid therapy on experimentally induced apical periodontitis in rats: a biochemical, histopathological and micro-ct analysis**  
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- CLXXII. **Cemento-Ossifying Fibroma of The Maxilla: A Case Report**  
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- CLXXVI. **Multiple Myeloma with primary manifestation in the mandible: A case report**  
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- CLXXX. **The T in TMJ: Image Modalities and Basic Diagnostics Needs**  
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- CLXXXI. **Comparison of manual and semiautomatic tracing methods for volume determination of paranasal sinuses using sequences of CT and CBCT images**  
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**CCIV. New trends and their use in the dental digital workflow**

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**CCV. Tips And Tricks For Enhancing Your Daily Dental Practice Using Cone Beam Computed Tomography (CBCT)**

ORHAN K.

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**CCVI. Dentigerous cyst associated with maxillary third molar: A case report**

ALTINDAĞ A., ORHAN K., BOZKURT P.

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**CCVII. PREVALENCE OF MULTIPLE MILIARY TYPE OF OSTEOMA CUTIS IN THE MAXILLOFACIAL REGION AS AN INCIDENTAL FINDING: A RETROSPECTIVE CBCT STUDY**

AVSEVER İ. H., ORHAN K.

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**CCVIII. An Interesting Case of Bilateral Mastoiditis Mimicking Like Temperomandibular Joint Disorder**

ATAY GÖRÜR S., ORHAN K.

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**CCX. UNUSUAL SYMPTOMS OF THE ORBITAL CAVERNOUS HEMANGIOMA: A CASE REPORT MIMICKING MAXILLARY SINUS PAIN**

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- CCXVIII. **interactive analysis of interesting cases with radiological approach**  
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- CCXIX. **Diagnostic X-Ray Dose Measurement on Tissue Equivalent Anthropometric Phantoms.**  
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- CCXXVI. **DELANTONI A. MINI SYMPOSIUM IN CONE-BEAM CT**  
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- CCXXX. **Comparative evaluation of Cone Beam CT and Micro CT on volumetric distortion artefact in human teeth filled with bioceramic sealers**  
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- CCXXXI. **Assessment of filling quality of three root canal sealers using and nanoCT images**  
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- CCXXXIV. **Evaluation of MR perfusion imaging for differentiation of ameloblastoma and keratocystic odontogenic tumour**  
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- CCXLII. **Interactive analysis of interesting cases with radiological approach**

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CCXLVI. **Calcifications in head and neck on CBCT and CT**

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CCXLVII. **Bilateral bifid mandibular canal: Report of four cases**

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CCXLVIII. **A 7nm CMOS Technology Platform for Mobile and High Performance Compute Application**

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- ALTINDAĞ A., ORHAN K., BOZKURT P.  
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- CCLIX. **Bilateral Branches of Canalis Sinuosis A Rare Anatomical Phenomenon**  
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- CCLXXI. **Influence of Voxel Sizes on Detection of Chemically Induced External Root Rezorptions**  
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- CCLXXII. **Case Report: Pilomatricoma in an Adolescent Patient**  
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**CCLXXIV. Comparison of the Mechanical and Chemically induced periodontal Defects Using Different FOV Sizes and Voxel Resolutions**

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**CCLXXVI. Evaluation of canalis sinuous prevalence and variations using CBCT**

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**CCLXXVII. Proximity of the roots of mandibular molars and premolars to the mandibular canal A CBCT study**

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**:CLXXVIII. Radiologic Evolution of Central Giant Cell Granuloma in a Child after Intralesional Steroid Injection A 8 year Follow up Case Report**

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**:CLXXXIV. Ultrasound anatomy of oral floor and neck muscle in Polish and Turkish young adults**

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**CCLXXXV. Evaluation of the oral floor and cervical muscles cross sectional characteristics with and without TMJ disorders an ultrasonographic study**

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**:CLXXXVI. Comparative study of Hungarian and Turkish Crptiot population by the paranasal sinus anatomic variations and sinus volumetry**

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**:LXXXVIII. A RARE AMELOBLASTIC FIBROMA CASE REPORT**

GÖRÜRĞÖZ C., AKSOY S., ORHAN K.

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- 3CLXXXIX. **case report Intravascular papillary endodethial hyperplasia**  
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- CCXC. **Comparison of intraoral scanner and CBCT with different voxel sizes for the detection of periodontal defects an in vitro study**  
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- CCXCI. **Stawy Skroniowo Zuchwowe Bolesny Problem Diagnostyczny Temporomandibular Joints a Painful Diagnostic Problem**  
Rozylo Kalinowska I., ORHAN K.  
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- CCXCII. **Magnificent Century of Dentomaxillofacial Radiology Interactive Analysis of Interesting Cases**  
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- CCXCIII. **Prevalence of anatomical variants in nasal cavity and paranasal sinuses in Cone Beam Computed Tomography CBCT in Polish and Turkish Cypriot populations**  
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- CCXCIV. **Micro computed Tomography in Dentistry**  
ORHAN K.  
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- CCXCVI. **İlaça Bağlı Tat Bozukluğunun DEL düşük enerjili lazer ile tedavisi vaka raporu**  
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- CCXCVII. **Türk Populasyonunda aksesuar mental foramen görülme insidansı**  
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- CCC. **COMPARISON OF DIAGNOSTIC METHODS FOR EARLY INTERPROXIMAL CARIES WITH NEAR INFRARED LIGHT TRANSILLUMINATION**  
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- CCCI. **oral squamous cell carcinoma of the tuber maxilla a case report**  
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- CCCII. **Comparison of diagnostic method for early interproximal carries with near infrared Light transillumination**  
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- CCCIII. **oral irritation fibroma of buccal mucosa three cases**  
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- CCCIV. **Thornwald kisti**



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- CCCV. **Semisirkçler kanalların deęerlendirilmesinde voksel boyutları ve kesit kalınlıęının etkisi cone beam bt ve multislice bt karřılařtırılması**  
ORHAN K., YETİMOęLU ÖZDİL N., SEKİ U., ÖRMECİ T.  
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- CCCVI. **determination of the gender and age differences in paranasal sinus anatomic variations in a group of turkish cypriot populations**  
AKSOY S., bence temas s., ORHAN K.  
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- CCCVIII. **eksternal karotid arter ve dallarında kalsifikasyon vaka raporu**  
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- CCCIX. **maksiller adenoid kistik karsinoma olgu raporu**  
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- CCCX. **bir üniversite hastanesi ağız diř ve çene radyolojisi klinięindeki konik ışınlı bilgisayarlı tomografi sevk endikasyonlarının deęerlendirilmesi**  
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- CCCXI. **periodontal defekti taklit eden eozinofilik granüloma vakası**  
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- CCCXII. **comparison of incidental findings between normal and obstructive sleep apnae patients using cone beam computed tomography scans**  
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- CCCXIV. **a rare case of hyanizing clear cell carcinoma in the maxilla**  
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- CCCXV. **evaluation of penetration abiltiy of different root canal sealers into dentin tubules an in vitro micro ct study**  
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- CCCXVII. **mental foramen bölgesinde mandibuler kanalın anterior loopunun KIBT kullanılarak deęerlendirilmesi**  
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- CCCXVIII. **effect of nerve variant in implant placements trifid mandibular nerve**  
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- CCCXX. **biyoseramik içerikli bir kanal patı kullanılarak üç farklı kanal doldurma tekniği ile oluşan boşlukların mikro CT ile değerlendirilmesi**  
ORHAN A. I., ÇELİKTEK B., uzuntaş c. f., ORHAN K., TÜFENKÇİ P., MISIRLI M.  
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- CCCXXI. **incidental findings from temporomandibular joint MR images**  
ORHAN K., avsever h.  
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- CCCXXII. **periodontal ve periapikal lezyonların konik ışınli komputize tomografilerde yorumlanması**  
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- CCCXXIII. **paranasal sinuses and nasal cavity anatomical variants in CBCT comparison between Polish and Turkish cyriot population**  
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- CCCXXVI. **comparison of temporomandibular joint morphometry from cone beam CT images**  
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- :CCXXVIII. **radiographic apperances of systemic diesases in dentomaxillofacial area**  
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- CCCXXIX. **bilateral stafne bone cavity SBC a rarely occupying case report**  
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- :CCXXXIII. **neoplasms in the head and neck region mimicking temporomandibular joint symptoms**  
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- :CCXXXIX. **Eozinofilik Granuloma Radyografik ve Histolojik Deđerlendirme**  
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- CCCXLV. **Root and canal morphology of maxillary molars in a Turkish population using cone beam computed tomography**  
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- CCCLIII. **EFFECT OF MANDIBULER NERVE VARIANT IN IMPLANT PLACEMENT TRIFID MANDIBULER NERVE**  
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- CCCLXIII. **cervical vertebral column morphology and association with obstructive sleep apnea a pilot study**  
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- CCCLXIV. **cone beam in implantology**  
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- CCCLXV. **Temporomandibuler Eklem Morfolojik Özelliklerinin Konik Işınlı Bilgisayarlı Tomografi ile Değerlendirilmesi**  
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- CCCLXVI. **an update on CBCT anatomy and pathology related to endodontics and maxillofacial radiology**  
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- CCCLXVII. **intraobserver reliability of different 2D cephalometric softwares a retrospective study**  
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- CCCLXVIII. **CBCT evaluation of nasopalatine canal morphology in relation to cephalometric norms of a group of turkish adult population**  
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- CCCLXX. **gender and age differences in frontal sinus anatomic variations detected by cone beam computed tomography**  
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- CCCLXXV. **arrangement of harmonia between tooth and gum in one missing tooth patients case reports**  
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- CCCLXXVI. **intraosseous mandibular hemangioma a case report**  
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- CCCLXXVII. **CBCT sialography in diagnosis of sialolithiasis in the parotid gland**

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- :CLXXVIII. **EVALUATION OF MORPHOMETRIC FEATURES OF TEMPOROMANDIBULAR JOINT BY USING CONE BEAM COMPUTED TOMOGRAPHY**  
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- :CCLXXXI. **maksillofasial bölgede görülen lezyonlar ve CBCT KBB kullanımı**  
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- CCLXXXV. **TMJ temporal bone and nasal sinuses**  
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- :CLXXXVI. **temporomandibular eklem ve görüntüleme yöntemleri**  
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- CLXXXVII. **sert damakta malign melanoma olgusu**  
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- :LXXXVIII. **MANDİBULER KANAL VARYASYONU BİR OLGU SUNUMU**  
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- CCCXCIII. **tips and tricks for enhancing your daily dental practise using cone beam computed tomography CBCT**  
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- :CCXCVIII. **prevalance of the anterior and posterior clinoid process pneumatization using CBCT**  
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- CCCXCIX. **rutin muayenemizi geliřtirmek için konik ışınli komputerize tomografi CBCT uygulamaları**  
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75. yıl ađız, diř ve sađlıđı merkezi, Ankara, Turkey, 24 May 2013
- CD. **supernumerary teeth in both primary and permanent dentition**  
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- CDI. **atypical cementoblastoma report of a rare case**  
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- CDIV. **bir grup türk popülasyonunda genç daimi mandibular molar diřlerin kök ve kanal iliřkilerinin konik ışınli komputerize tomografi ile incelenmesi**  
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- CDV. **maksiller 2 süt molar diřlerin pulpa kavitelerinin 3d mikro ct görüntüleri ve volumetrik rendering program yardımıyla rekonstrüksiyon yapılarak incelenmesi**  
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- CDVIII. **evaluation of soft tissue equivalent substitutes on detection of proximal caries**  
 ORHAN K., er f., SOLAK H., ÇEKİÇ M.  
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- CDIX. **mucoepidermoid carcinoma of maxilla a case report with radiologic findings**  
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- CDX. **the prevalence of impacted and transmigrated maxillary and mandibular canine**  
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- CDXI. **CBCT evaluation of anatomy and pattern of pneumatization on the sphenoid sinus**  
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- CDXII. **Incidence of mandibular nutrient canals in periodontal diseases A prospective case control study using cone beam CT**  
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- CDXV. **upper airway assessment a 3D comparison of its validity comparing with 2D cephalometry**  
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- CDXVI. **evaluation of atlantodental interval in a group of turkish population using 3d cbct images reconstructed from a volumetric rendering program**  
 BİLECENOĞLU B., ORHAN K., sakul u.  
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- CDXVII. **evaluation of lateral atlantodental interval in a turkish pediatric population using cone beam computed tomography**  
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- CDXVIII. **cone beam ct evaluation of isolated fibrous dysplasia of TMJ**  
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- CDXXI. **cone beam CT evaluation of posterior superior alveolar artery in a turkish population**  
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- CDXXIII. **Mr evaluation of the lingual nerve relation to the mandibular molar region**



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- CDXXIV. **önüm arkam sağım solum radyoloji**  
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- CDXXVI. **The effect of posterior wall of maxillary sinus thickness on the morphology of the pterygopalatine canal**  
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- CDXXVII. **Relationship among dental caries chronic sinusitis and paranasal sinuses anatomic variations in children using cone beam CT**  
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- CDXXX. **Kuzey Kıbrıs Cumhuriyeti ndeki yetişkin popülasyonda gelişimsel diş anomalileri**  
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- CDXXXI. **CBCT evaluation of bifid mandibular canal in a Turkish children population**  
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- CDXXXIII. **Ca OH 2 içerikli gütaperka ve Ca OH 2 patının apeksifikasyon tedavisindeki etkinliklerinin karşılaştırmalı olarak değerlendirilmesi**  
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- CDXXXIV. **An Erupted Complex Odontoma A Case report**  
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- CDXXXV. **Osteochondroma of the mandible A case report**  
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- CDXXXIX. **GÖMÜLÜ KALMIŞ SÜT DİŞİ İLE BİRLİKTE GÖRÜLEN DENTİGERÖZ KİST OLGU RAPORU**  
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- CDXL. **BUKKAL HEMANJİYOM İLGİNÇ BİR OLGU SUNUMU**  
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## Supported Projects

ORHAN K., Project Supported by Higher Education Institutions, Sağlıklı ve kardiyomyopatili ratlarda oluşturulan deneysel apikal periodontitis modelinde sistemik olarak uygulanan melatonin ve n-asetilsistein'in enflamatuar yanıt üzerine etkilerinin biyokimyasal, histopatolojik ve radyolojik olarak incelenmesi, 2019 - Continues

ORHAN K., Project Supported by Higher Education Institutions, İnternal rezorpsiyon kavitelerindeki kalsiyum hidroksitin farklı tekniklerle uzaklaştırılma etkinliklerinin mikro bilgisayarlı tomografi ile değerlendirilmesi, 2019 - Continues

ORHAN K., Project Supported by Higher Education Institutions, İndirekt pulpa kuafaj materyallerinin dentin mineral yoğunluğuna etkisinin incelenmesi, 2019 - Continues

ORHAN K., Project Supported by Higher Education Institutions, Effect of Systemic Oxytocin Administration on New Bone Formation and Distraction Rate in Rabbit Mandible, 2018 - Continues

ORHAN K., Project Supported by Higher Education Institutions, Aksesuar pulpa kanallarının Micro-CT ile incelenmesi, 2018 - Continues

ORHAN K., Project Supported by Higher Education Institutions, Elde taşınabilir dental x-ışını cihazı ile yapılan ışınlamalar sonucu uygulayıcı ve hasta dozlarının değerlendirilmesi, 2017 - Continues

ORHAN K., Project Supported by Higher Education Institutions, Dental cerrahi işlemler sonrasında kemik rejenerasyonunda kullanılmak üzere büyüme faktörü ve antibiyotik yüklü nanopartikül, film ve greft materyali kombinasyonlarının hazırlanması ve mikro-BT ile değerlendirilmesi, 2017 - Continues

ORHAN K., BOZKURT P., Project Supported by Higher Education Institutions, Tükürük Bez Kanallarında Bulunan Taşların Ultrasonografi Altında Kateterle Çıkarılmış Hastalarda Postoperatif Semptomlar ve Hasta Memnuniyeti Üzerine Etkilerinin Araştırılması, 2017 - Continues

Kılıçarslan M., Orhan K., Oto Ç., Huri P., Kaya B., TÜBİTAK Project, Hypericum perforatum yüklü nanopartikül ve bor içeren yara örtüsü formülasyonlarının üç boyutlu yazıcı ile üretimi ve in vitro-in vivo araştırılması, 2022 - 2025

Orhan K., Onbaşılar E. E., Çınkır Ş., Okumuş A., Ernas S., Kanat Ö. N., Project Supported by Higher Education Institutions, Ankara Üniversitesi'nin Araştırma Kapasitesinin Analizi ve İş Birliği Ağlarının Araştırma Performansına Olan Etkisinin Araştırılması, 2023 - 2024

Aras Tosun D., Orhan K., Can A., Sönmezer M., Oto Ç., Baysal E., Yazlık M. O., TÜBİTAK Project, Production of bioactive tissue scaffolds for improvement of neoangiogenesis in ovarian transplantation with three-dimensional printing and optimization of in vivo imaging methods for dynamic follow-up of vascularization, 2021 - 2024

Bezgin T., Yılmaz U. Y., Büyüksungur A., Orhan K., Project Supported by Higher Education Institutions, Evaluation of Microleakage of Different Calcium Silicate Containing Agents in Partial Amputation Treatment, 2023 - 2023

Bezgin T., Göçer A. R., Büyüksungur A., Orhan K., Project Supported by Higher Education Institutions, Süt Dişlerine Uygulanan Kompomer Ve Bulk-Fill Kompozit Restorasyonlarda Rebonding Ajanın Mikrosızıntı, Yüzey Pürüzlülüğü ve Mikrosertliğe Etkisinin Değerlendirilmesi, 2022 - 2022

Orhan K., Çelik Ö., TÜBİTAK Project, Development of Artificial Intelligence Algorithms for 2D and 3D DMFR Imaging, 2021 - 2022

Orhan K., Project Supported by Higher Education Institutions, 2 ve 3 boyutlu dental radyografilerin yapay zekâ ile değerlendirilmesi, 2020 - 2022

Orhan K., Orhan A. I., Tezel A., Alkan A., Ministry of Health, Türkiye Ağız Dis Sağlığı Profili Araştırması (TADSAP) Projesi, 2018 - 2022

Orhan K., Project Supported by Higher Education Institutions, 3D MİKRO-BT GÖRÜNTÜLEME YÖNTEMİ İLE KÜÇÜK HÜCRELİ DIŞI AKCİĞER KANSERİNDE METASTATİK VE NONMETASTATİK LENF NODLARININ KARŞILAŞTIRMALI DEĞERLENDİRİLMESİ, 2020 - 2021

Orhan K., Project Supported by Higher Education Institutions, Deneysel Periodontitis Oluşturulan Sıçanlarda Bromelainin Periodontal Yıkama Olan Etkisinin Araştırılması, 2019 - 2021

Oğuz E. İ., Bezgin T., Orhan K., Orhan A. I., Project Supported by Higher Education Institutions, Cam Fiber ve CAD/CAM Hibrit Pediatrik Kronların Uyumlarının Micro-CT ile Değerlendirilmesi, 2019 - 2020

Orhan K., TÜBİTAK International Bilateral Joint Cooperation Program Project, Establishing a virtual cone beam computed

tomography dedicated to image quality assessment, 2018 - 2020

Kılıçarslan M., Orhan K., Project Supported by Higher Education Institutions, Dental cerrahi işlemler sonrasında kemik rejenerasyonunda kullanılmak üzere büyüme faktörü ve antibiyotik yüklü nanopartikül, film ve greft materyali kombinasyonlarının hazırlanması, mikro-BT değerlendirilmesi, 2017 - 2020

KILIÇARSLAN M. A., ORHAN K., Project Supported by Higher Education Institutions, Bruksizimli Hastalarda Oklüzal Splintlerin Çiğneme Kasları Üzerindeki Etkisinin Ultrasonografi ve Elektromyografi ile Değerlendirilmesi, Ankara Üniversitesi Araştırma Fonu, 18B0234002, Proje Araştırmacısı, 2019., 2018 - 2019

Tezel A., Orhan A. I., Orhan K., Karaoğlanoğlu S., Öztaş D., Project Supported by Other Official Institutions, Türkiye Ağız Dış Sağlığı Profili Araştırması (TADSAP) Projesi, 2018 - 2018

ORHAN K., Project Supported by Higher Education Institutions, Comparison of 1.5 and 3 T Magnetic Resonance Imaging MRI cephalometric study and MR sequence generation for cephalometric analysis, 2016 - 2018

ORHAN K., Project Supported by Higher Education Institutions, The evaluation of Dentoalveolar Muscle and Cortical Brain Activities of Functional Orthodontic Appliances for Class II Patients using Functional MR Imaging, 2016 - 2018

Orhan K., TÜBİTAK International Bilateral Joint Cooperation Program Project, Pediatrik Dental Radyografik İncelemelerinin Kanseri Riskinin Değerlendirilmesi, 2016 - 2018

ORHAN K., KURT M. H., Project Supported by Higher Education Institutions, 1.5 Tesla ve 3 Tesla Gücündeki Manyetik Rezonans Görüntüleme Sistemlerinin Sabit ortodontik Aygıtlar Üzerindeki Etkisinin Karşılaştırmalı Olarak In Vivo ve In Vitro Olarak İncelenmesi, 2015 - 2017

ORHAN K., Project Supported by Higher Education Institutions, The evaluation of marginal and internal adaptation of Bulk fill composites using Micro CT, 2015 - 2016

ORHAN K., Project Supported by Higher Education Institutions, The evaluation of re treatment potentials of newly developed root canal sealers using micro CT, 2015 - 2016

KOLSUZ M. E., ORHAN K., DEMİREL G., BALTACIOĞLU İ. H., Project Supported by Higher Education Institutions, Yerçekiminin akıcı bulk fill kompozitlerin marjinal ve internal adaptasyonuna etkisinin micro CT ile incelenmesi, 2015 - 2016

Orhan K., Project Supported by Higher Education Institutions, Yeni Geliştirilen Farklı Kök Kanal Dolgu Sistemlerinin Retreatment Edilebilirliğinin Mikro Bilgisayarlı Tomografi ile Değerlendirilmesi, 2015 - 2016

Orhan K., Universities of Other Countries Supported Project, Kuzey Kıbrıs Türk Cumhuriyeti Erişkinlerde Ağız Dış Sağlığı Profiline Belirlenmesi Yakın Doğu Üniversitesi KKTC Sağlık Bakanlığı Ortak Proje, 2012 - 2014

Orhan K., Other International Funding Programs, Yaşlanma sürecinde servikal vertebralardaki iskeletsel maturasyon ile paranasal sinüs havalanmasının yüksek çözünürlüklü CBCT taraması ile 3 boyutlu rekonstrüksiyonu elde edilerek karşılaştırılması, 2008 - 2010

Orhan K., Project Supported by Higher Education Institutions, Dış Hekimliği öğrencileri dış hekimliği ve yardımcı personelin kan civa seviyelerinin araştırılması, 2000 - 2001

## **Memberships / Tasks in Scientific Organizations**

IADMF, Member of Science Committee, 2000 - Continues, United States Of America

EADMF, Chairman, 2014 - 2016, Belgium

## **Scientific Refereeing**

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, January 2021

## **Metrics**

Publication: 989

Citation (WoS): 3257  
Citation (Scopus): 3723  
H-Index (WoS): 30  
H-Index (Scopus): 33

## **Awards**

Orhan K., Ankara Üniversitesi Bilim Ödülü, Ankara Üniversitesi, October 2018

## **Non Academic Experience**

DişHekimleri Dekanlar Konseyi  
European Academy fo DentoMaxillofacial Radiology  
Ankara Üniversitesi Diş. Hek. fak.  
TUK komisyonu  
International Symposium on 3D Printing in Medicine  
Diş hekimliği Dekanlar Konseyi  
Ankara Üniversitesi Diş Hekimliği Fakültesi  
YakınDoğu Üniversitesi Diş Hekimliği Fakültesi  
Ankara Üniversitesi Diş Hekimliği Fakültesi  
GATA Diş Hekimliği Bilimleri Merkezi  
Ankara Üniversitesi Diş Hekimliği Fakültesi  
Osaka Üniversitesi Diş Hekimliği Fakültesi, Japonya