

RESUME

NAME SURNAME: Tuğrul ASLAN

TITLE: Associate Professor

MAIN FIELD: Endodontics

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ADDRESS: Erciyes University, Faculty of Dentistry, Department of Endodontics, Melikgazi, Kayseri.

FOREIGN LANGUAGE SCORE: 88.75

EDUCATION:

Doctoral - ERCIYES UNIVERSITY/INSTITUTE OF HEALTH SCIENCES

Bachelor's Degree - EGE UNIVERSITY/FACULTY OF DENTISTRY

WORK EXPERIENCE AND ACADEMIC POSITIONS:

Associate Professor - ERCIYES UNIVERSITY/FACULTY OF DENTISTRY/ DEPARTMENT OF CLINICAL SCIENCES /DEPARTMENT OF ENDODONTICS

Assistant Professor - ERCIYES UNIVERSITY/FACULTY OF DENTISTRY/ DEPARTMENT OF CLINICAL SCIENCES /DEPARTMENT OF ENDODONTICS

Research Assistant - ERCIYES UNIVERSITY/ FACULTY OF DENTISTRY/ DEPARTMENT OF CLINICAL SCIENCES/ DEPARTMENT OF DENTAL DISEASES AND TREATMENT

PUBLICATIONS:

Articles Published in International Refereed Journals:

1. ASLAN TUGRUL, ESİM EMİR, ÜSTÜN YAKUP (2024). Finite Element Evaluation of Dentin Stress Changes Following Different Endodontic Surgical Approaches. *Odontology*. Doi: 10.1007/s10266-023-00882-1.
2. ASLAN TUGRUL, DADI SEYMA, KAĞDAGI ÖZGÜR, Temur Nimet, İLDİZ NİLAY, ÖÇSOY İSMAİL, ÜSTÜN YAKUP (2023). Rational design of EDTA incorporated nanoflowers as

novel and effective endodontic disinfection against biofilms. *Odontology*. Doi: 10.1007/s10266-023-00857-2.

3. CUDAL HAMZA, ASLAN TUGRUL, KESIM BERTAN (2023). Effects of Intracanal Medicaments on the Measurement Accuracy of Four Apex Locators: An In Vitro Study. *Meandros Medical and Dental Journal*, 24(3), 215-219. Doi: 10.4274/meandros.galenos.2022.82788.
4. Avcı Fatma, ETÖZ MERYEM, ÜSTÜN YAKUP, ASLAN TUGRUL (2022). Evaluation of ultrasonography as a diagnostic tool in the management of periapical cysts and granulomas: A clinical study. *Imaging Science in Dentistry*, 52. Doi: 10.5624/isd.20210239.
5. CUDAL HAMZA, KESIM BERTAN, ASLAN TUGRUL (2022). Effects of three different embedding media on the accuracy of different electronic apex locators: An in vitro study. *Annals of Clinical and Analytical Medicine*, 13(1), 80-83. Doi: 10.4328/ACAM.20854.
6. ASLAN Tugrul, ESİM Emir, ÜSTÜN Yakup, DÖNMEZ ÖZKAN Hicran (2021). Evaluation of Stress Distributions in Mandibular Molar Teeth with Different Iatrogenic Root Perforations Repaired with Biodentine or Mineral Trioxide Aggregate: A Finite Element Analysis Study. *Journal of Endodontics*, 47(4), 631-640. Doi: 10.1016/j.joen.2020.11.018.
7. ASLAN Tugrul, DÖNMEZ ÖZKAN Hicran (2021). The effect of two calcium silicate based and one epoxy resin based root canal sealer on postoperative pain: a randomized controlled trial. *International Endodontic Journal*, 54(2), 190-197. Doi: 10.1111/iej.13411.
8. DÖNMEZ ÖZKAN Hicran, NAGHIYEVA Konul, AÇKURT OKUTAN Pınar, ASLAN Tugrul (2020). The Effect of Different Chelating Agents on the Fracture Resistance of Endodontically Treated Teeth. *Meandros Medical and Dental Journal*, 21(3), 215-221. Doi: 10.4274/meandros.galenos.2020.48568.
9. KAKI Gültür Devrim, ASLAN TUGRUL (2019). Root Reinforcement With an Injectable Pozzolan Based Sealer in Combination With RetroMTA® in Simulated Immature Roots. *Türkiye Klinikleri Diş Hekimliği Bilimleri Dergisi*. Doi: 10.5336/dentalsci.2019-71582.
10. Some Sudip, Sen Ipsita Kumar, Mandal Amitava, ASLAN TUGRUL, ÜSTÜN YAKUP, YILMAZ EBRU SEBNEM, Katı Ahmet, DEMIRBAS AYSE, Mandal Amit Kumar, ÖÇSOY ISMAIL (2019). Biosynthesis of silver nanoparticles and their versatile antimicrobial properties. *Materials Research Express*, 6(1), 12001. Doi: 10.1088/2053-1591/aae23e.
11. ASLAN TUGRUL, SAGSEN BURAK, ER ÖZGÜR, ÜSTÜN YAKUP, Çınar Firdevs (2018). Evaluation of fracture resistance in root canal-treated teeth restored using different techniques. *Nigerian Journal of Clinical Practice*, 21(6), 795-800. Doi: 10.4103/njcp.njcp_330_17.
12. ASLAN TUGRUL, ÜSTÜN YAKUP, ESİM EMİR (2018). Stress distributions in internal resorption cavities restored with different materials at different root levels: A finite element analysis study. *Australian Endodontic Journal*. Doi: 10.1111/aej.12275.

13. ASLAN TUGRUL, ÜSTÜN YAKUP, SAGSEN BURAK, SENER IBRAHIM, BIRICIK EDA, TATLI SIFA (2018). The Effects of Antioxidant Application and Time Factor on Fiber Post Bonding to Root Dentin after Intracoronary Bleaching. *International Dental Research*, 8(1), 22-27. Doi: 10.5577/intdentres.2018.vol8.no1.4.
14. ÜSTÜN YAKUP, DÜZGÜN SALIH, ASLAN TUGRUL, AKTI AHMET (2018). THE EFFICIENCY OF DIFFERENT IRRIGATION SOLUTIONS AND TECHNIQUES FOR THE REMOVAL OF TRIPLE ANTIBIOTIC PASTE FROM SIMULATED IMMATURE ROOT CANALS. *Nigerian Journal of Clinical Practice*, 21(3), 287-292. Doi: 10.4103/njcp.njcp_29_17.
15. BAYRAM EMRE, BAYRAM HÜDA MELIKE, ASLAN TUGRUL, ÜSTÜN YAKUP (2018). Does MTA and Calcium Hydroxide Additives Effect on the Bond Strength of AH Plus Sealer?. *Research Reviews: Journal of Dental Sciences*, 6(1), 25-31.
16. BAYRAM EMRE, BAYRAM HÜDA MELIKE, ASLAN TUGRUL, GÖKTÜRK HAKAN, ÜSTÜN YAKUP (2018). Evaluation of calcium silicate cement bond strength after using gutta-percha solvents. *Nigerian Journal of Clinical Practice*, 20(11), 1417-1421. Doi: 10.4103/1119-3077.197020.
17. KOCAAGAOGLU HASAN HÜSEYİN, ASLAN TUGRUL, GÜLERYÜZ GÜRBULAK AYSEGÜL, ALBAYRAK HAYDAR, TASDEMİR ZEKERİYA, GÜMÜS HÜSNIYE (2017). Efficacy of polishing kits on the surface roughness and color stability of different composite resins. *Nigerian Journal of Clinical Practice*, 20(5), 557-565. Doi: 10.4103/1119-3077.181387.
18. GÖKTÜRK HAKAN, BAYRAM EMRE, BAYRAM HÜDA MELIKE, ASLAN TUGRUL, ÜSTÜN YAKUP (2017). Effect of double antibiotic and calcium hydroxide pastes on dislodgement resistance of an epoxy resin-based and two calcium silicate-based root canal sealers. *Clinical Oral Investigations*, 21(4), 1277-1282. Doi: 10.1007/s00784-016-1877-1.
19. KESİM BERTAN, SAGSEN BURAK, ASLAN TUGRUL (2017). Evaluation of dentinal defects during root canal preparation using thermomechanically processed nickel-titanium files. *European Journal of Dentistry*, 11(2), 157. Doi: 10.4103/ejd.ejd_254_16.
20. KESİM BERTAN, ÜSTÜN YAKUP, ASLAN TUGRUL, TOPÇUOĞLU HÜSEYİN SINAN, SAHİN SEMA, ULSAN ÖZGE (2017). Efficacy of manual and mechanical instrumentation techniques for removal of overextended root canal filling material. *Nigerian Journal of Clinical Practice*, 20(6), 761-766. Doi: 10.4103/1119-3077.180069.
21. ÜSTÜN YAKUP, ASLAN TUGRUL, SEKERCİ AHMET ERCAN, SAGSEN BURAK (2016). Evaluation of the Reliability of Cone-beam Computed Tomography Scanning and Electronic Apex Locator Measurements in Working Length Determination of Teeth with Large Periapical Lesions. *Journal of Endodontics*, 42(9), 1334-1337. Doi: 10.1016/j.joen.2016.06.010.
22. ÜSTÜN YAKUP, ASLAN TUGRUL, SAGSEN BURAK, DİNÇER ASİYE NUR (2016). The effects of different irrigation protocols on removing calcium hydroxide from the root canals. *Nigerian Journal of Clinical Practice*, 19(4), 465-470. Doi: 10.4103/1119-3077.183296.
23. KILINÇ HALİL İBRAHİM, ASLAN TUGRUL, KILIÇ KEREM, ER ÖZGÜR, KURT GÖKMEN (2016). Effect of Delayed Bonding and Antioxidant Application on the Bond Strength to

Enamel after Internal Bleaching. JOURNAL OF PROSTHODONTICS-IMPLANT ESTHETIC AND RECONSTRUCTIVE DENTISTRY, 25(5), 386-391. Doi: 10.1111/jopr.12303.

24. KILINÇ HALİL İBRAHİM, ASLAN TUGRUL, KILIÇ KEREM, ER ÖZGÜR, ESİM EMİR, YILDIRIM SAHİN (2016). Fracture resistance of teeth with oval canal morphology restored using oval and circular posts. Journal of Oral Science, 58(3), 339-345. Doi: 10.2334/josnugd.15-0648.
25. KILIÇ KEREM, SAGSEN BURAK, ASLAN TUGRUL, Akbaba Hasan, SAHİN SEMA (2016). Effects of Two Luting Agents and Various Specimen Thicknesses on The push-Out Bond Strength of Fibre Posts to Root Canal Dentine. International Journal of Dentistry and Oral Health, 2(3), 1-7. Doi: 10.16966/2378-7090.190.
26. ÜSTÜN YAKUP, TOPÇUOĞLU HÜSEYİN SINAN, AKPEK FIRDEVİS, ASLAN TUGRUL (2015). The effect of blood contamination on dislocation resistance of different endodontic reparative materials. Journal of Oral Science, 57(3), 185-190. Doi: 10.2334/josnugd.57.185.
27. ÜSTÜN YAKUP, ASLAN TUGRUL, SAGSEN BURAK, KESİM BERTAN (2015). The effects of different nickel-titanium instruments on dentinal microcrack formations during root canal preparation. European Journal of Dentistry, 9(1), 41. Doi: 10.4103/1305-7456.149638.
28. ER ÖZGÜR, KILIÇ KEREM, KILINÇ HALİL İBRAHİM, ASLAN TUGRUL, SAGSEN BURAK (2015). Evaluation of the resin cement thicknesses and push-out bond strengths of circular and oval fiber posts in oval-shapes canals. The Journal of Advanced Prosthodontics, 7(1), 15-20. Doi: 10.4047/jap.2015.7.1.15.
29. GÜMÜS HASAN ÖNDER, KOCAAGAĞLU HASAN HÜSEYİN, ASLAN TUGRUL, ALBAYRAK HAYDAR, SAGSEN BURAK (2014). Prevalence of pulp exposures during tooth preparation for fixed prosthetics. European Journal of Prosthodontics, 2(2), 48-52. Doi: 10.4103/2347-4610.131977.
30. KILIÇ KEREM, ER ÖZGÜR, KILINÇ HALİL İBRAHİM, ASLAN TUGRUL, Bendeş Emre, Sekerci Ahmet Ercan, ASLANTAS VEYSEL (2013). Infrared Thermographic Comparison of Temperature Increases on the Root Surface during Dowel Space Preparations Using Circular versus Oval Fiber Dowel Systems. JOURNAL OF PROSTHODONTICS-IMPLANT ESTHETIC AND RECONSTRUCTIVE DENTISTRY, 22(3), 203- 207. Doi: 10.1111/j.1532-849X.2012.00919.x.
31. ER ÖZGÜR, KILIÇ KEREM, ESİM EMİR, ASLAN TUGRUL, KILINÇ HALİL İBRAHİM, YILDIRIM SAHİN (2013). Stress distribution of oval and circular fiber posts in amandibular premolar: a three-dimensional finite element analysis. The Journal of Advanced Prosthodontics, 5(4), 434-439. Doi: 10.4047/jap.2013.5.4.434.
32. ÜSTÜN YAKUP, ARSLAN SOLEY, ASLAN TUGRUL (2013). Effects of calcium hydroxide and propolis intracanal medicaments on bond strength of resin-based endodontic sealer as assessed by pushout test. Dental Materials Journal, 32(6), 913-919. Doi: 10.4012/dmj.2013-094.

33. SAGSEN BURAK, ÜSTÜN YAKUP, ASLAN TUGRUL, Çanakçı Burhan Can (2012). The Effect of Peracetic Acid on Removing Calcium Hydroxide from the Root Canals. *Journal of Endodontics*, 38(9), 1197-1201. Doi: 10.1016/j.joen.2012.06.026.

Articles Published in National Refereed Journals:

1. Naghiyeva Konul, ASLAN TUGRUL, ÜSTÜN YAKUP (2022). Effects of Two Post Space Preparation Methods and Three Cleaning Techniques on Post Space Cleanliness: A Micro-CT Evaluation. *Turkish Endodontic Journal*, 7(3), 109-115. Doi: 10.14744/TEJ.2022.92400.
2. ÇIL AYGÜL, SAGSEN BURAK, ASLAN TUGRUL, ÜSTÜN YAKUP (2022). Endodontic Emergency Situations and Treatment Approaches: A Review, *Selcuk Dental Journal*. Doi: 10.15311 /selcukdentj.946384.
3. OKUR ASENA, ASLAN TUGRUL, SAGSEN BURAK (2021). The Impact of Different Intracanal Conditions on the Accuracy of Apex Locators. *Selçuk Dental Journal*, 8(3), 859-867. Doi: 10.15311/selcukdentj.734671.
4. CUDAL HAMZA, ASLAN TUGRUL, ÜSTÜN YAKUP (2021). Types of environments used in in vitro electronic apex locator studies: A review. *Atatürk Üniversitesi Diş Hekimliği Fakültesi Dergisi*, 31(3), 454-458. Doi: 10.17567/ataunidfd.804415.
5. KESİM BERTAN, TEZCAN ÜLGER SEDA, CUDAL HAMZA, ASLAN GÖNÜL, ERSOY LEYLA, ASLAN TUGRUL, KÜÇÜK MUSTAFA ÖNER (2021). Molecular detection of *E. faecalis* in oral samples of a population associated with secondary endodontic infection. *International Dental Research*, 11. Doi: 10.5577/intdentres.2021.vol11.no3.7.
6. ASLAN TUGRUL, ESİM EMİR, KILIÇ KEREM, ER ÖZGÜR, YILDIRIM SAHİN (2018). Effects of the geometric shape and placing length of a fiber post on the stress distribution in a mandibular premolar tooth: A finite element analysis study. *International Dental Research*, 8(3), 105-110. Doi: 10.5577/intdentres.2018.vol8.no3.2.
7. ASLAN TUGRUL, ÜSTÜN YAKUP, Çınar Firdevs, DÜZGÜN SALİH, SENER İBRAHİM (2018). Fortification of Fractured Instrument Removal Simulated Roots Using Several Calcium Silicate-Based Materials. *Cumhuriyet Dental Journal*, 21(3), 249-255. Doi: 10.7126/cumudj.391219.
8. ASLAN TUGRUL, SENER İBRAHİM (2018). The Effects of Two Different Self-Adjusting File Working Times and Three Different Chelating Agents on the Root Canal Filling Bond Strength. *Meandros Medical and Dental Journal*, 19(3), 233-239. Doi: 10.4274/meandros.43534.
9. ASLAN TUGRUL, DÜZGÜN SALİH, ÜSTÜN YAKUP (2018). EFFECT OF LENTULO SPIRAL USAGE AT DIFFERENT SPEEDS ON APICAL EXTRUSION OF CALCIUM HYDROXIDE. *Atatürk Üniversitesi Diş Hekimliği Fakültesi Dergisi*, 28(2), 133-137. Doi: 10.17567/ataunidfd.418733.

10. ÜSTÜN YAKUP, ASLAN TUGRUL (2017). The Characteristics of Ultrasonic and Sonic Systems Used in Endodontic Clinics. *Türkiye Klinikleri Endodonti - Özel Konular*, 3(2), 93-99.
11. KILINÇ HALİL İBRAHİM, ASLAN TUGRUL, KILIÇ KEREM, ER ÖZGÜR (2016). The effect of different post lengths and various core materials on the fracture resistance of teeth restored with crowns. *Selçuk Dental Journal*, 3(1), 20-20. Doi: 10.15311/1441.272595.
12. ASLAN TUGRUL, SAGSEN BURAK (2016). A comparative evaluation of the retreatment efficiency of the Self-Adjusting File system and other root canal instrumentation techniques. *Turkish Endodontic Journal*, 1(2), 80-86. Doi: 10.14744/TEJ.2016.47966.
13. ER ÖZGÜR, ASLAN TUGRUL, ÜSTÜN YAKUP, KILINÇ HALİL İBRAHİM (2015). Infrared thermal analysis of root surface temperatures during the ultrasonically activated obturation technique. *Acta Odontologica Turcica*, 32(2), 57-62.
14. ÜSTÜN YAKUP, ASLAN TUGRUL, SAGSEN BURAK (2014). RETREATMENT OF ROOT CANAL FILLINGS PERFORMED WITH A CALCIUM SILICATE BASED ROOT CANAL SEALER AND GUTTA-PERCHA WITH DIFFERENT ROOT CANAL SOLVENTS. *Atatürk Üniversitesi Diş Hekimliği Fakültesi Dergisi*, 24(2), 219-225. Doi: 10.17567/dfd.97707.
15. ASLAN TUGRUL, ÜSTÜN YAKUP, SAGSEN BURAK, KOCAAGAOGLU HASAN HÜSEYİN (2013). Techniques Used in the Removal of Calcium Hydroxide from Root Canals: A Review. *Erciyes Üniversitesi Sağlık Bilimleri Dergisi*, 22(1), 76-80.

PROJECTS:

1. Evaluation of the Retreatment Efficacy of a New Root Canal Instrumentation System, Scientific Research Project Supported by Higher Education Institutions, Coordinator: Burak SAĞSEN, Researcher: Tuğrul ASLAN, 24/11/2011-28/05/2014 (NATIONAL)
2. Comparison of fracture resistances of oval and circular fiber posts cemented at different lengths. Scientific Research Project Supported by Higher Education Institutions, Coordinator: Kerem KILIÇ, Researcher: Özgür ER, Researcher: Tuğrul ASLAN, Researcher: Halil İbrahim KILINÇ, 08/08/2012-03/09/2014 (NATIONAL)
3. Examining the effectiveness of different cleaning protocols for the removal of debris remaining on the walls of post spaces created using two different techniques using micro-CT. Scientific Research Project Supported by Higher Education Institutions, Coordinator: ASLAN TUĞRUL, Researcher: Naghiyeva Konul, 12/03/2018-31/07/2019 (NATIONAL)
4. Synthesis of flower-shaped nano composites from EDTA and Tripsin for investigation of their enzyme-like activities and effective antimicrobial properties on *Enterococcus faecalis* and *Candida albicans* microorganisms. Scientific Research Project Supported by Higher Education Institutions, Researcher: Taşdemir Didar, Coordinator: ÜSTÜN YAKUP, Researcher: ASLAN TUĞRUL, Researcher: KAFDAĞ ÖZGÜR, Researcher: İLDİZ NİLAY, 27/09/2018 (NATIONAL)

5. Evaluation of the effectiveness of silver nano particles synthesized from red cabbage extract on various endodontic pathogens. TUBITAK Project (1002), Researcher: TUĞRUL ASLAN, Coordinator: YAKUP ÜSTÜN, Researcher: İSMAİL ÖÇSOY, Researcher: NİLAY İLDİZ, Researcher: ÖMÜR KAHRAMAN, 05/02/2021-02/06/2022 (NATIONAL)
6. Utilization of Nanoflower Structure in Endodontics: Synthesis of Conjugated Nanoflowers of Ethylenediaminetetraacetic Acid (EDTA) and Horseradish Peroxidase Enzyme (HRP) and Investigation of Their Activities on Intra-Root Canal Biofilm. Scientific Research Project Supported by Higher Education Institutions, Researcher: ÜSTÜN YAKUP, Researcher: Naghiyeva Konul, Researcher: Taşdemir Didar, Coordinator: ASLAN TUĞRUL, 17/01/2019-25/11/2021 (NATIONAL)
7. Evaluation of the effectiveness of different irrigation protocols in removing triple antibiotic paste from root canals. Scientific Research Project Supported by Higher Education Institutions, Researcher: ASLAN TUĞRUL, Researcher: DÜZGÜN SALİH, Coordinator: ÜSTÜN YAKUP, 15/12/2014-06/04/2017 (NATIONAL)
8. The impact of different intracanal medication applications on the measurement accuracy of four different apex locators. Scientific Research Project Supported by Higher Education Institutions, Coordinator: TUĞRUL ASLAN, Researcher: HAMZA CUDAL, 03/07/2020-06/01/2023 (NATIONAL)
9. Examining the Fracture Resistance of Premolar Teeth Treated with Root Canal Therapy Using Different Techniques. Scientific Research Project Supported by Higher Education Institutions, Coordinator: ASLAN TUĞRUL, Researcher: SAĞSEN BURAK, Researcher: ÜSTÜN YAKUP, Researcher: ER ÖZGÜR, Researcher: AKPEK FİRDEVS, 25/09/2014-23/06/2017 (NATIONAL)

DESIGN/AWARD/PATENT: -

COURSES TAUGHT:

2nd Year - Endodontics (Theoretical)

2nd Year - Endodontics (Preclinical Application)

3rd Year - Endodontics (Theoretical)

3rd Year - Endodontics (Preclinical Application)

4th Year - Endodontics (Theoretical)

4th Year - Endodontics (Clinical Application)

4th Year - Pain (Theoretical)

5th Year - Endodontics (Clinical Application)

5th Year - Use of Digital Technology in Dentistry (Theoretical)

SUPERVISED THESES:

1. OKUR ASENA, (2021). Effect of different intracanal conditions on the accuracy of apex locators in root canal perforations. Erciyes University->Faculty of Dentistry->Department of Endodontics
2. CUDAL HAMZA, (2021). The impact of different intracanal medication applications on the measurement accuracy of four different apex locators. Erciyes University->Faculty of Dentistry->Department of Endodontics
3. NAGHIYEVA KONUL, (2019). Examining the effectiveness of different cleaning protocols for the removal of debris remaining on the walls of post spaces created using two different techniques using micro-CT. Erciyes University->Faculty of Dentistry->Department of Endodontics