

## **Prof. AHMET SERPER**

### **Personal Information**

**Email:** aserper@hacettepe.edu.tr

### **Education Information**

Doctorate, Hacettepe Üniversitesi, Diş Hekimliği Fakültesi, Endodonti, Turkey 1987 - 1991

### **Foreign Languages**

English, B2 Upper Intermediate

### **Research Areas**

Health Sciences, Dentistry, Clinical Sciences, Endodontics

### **Academic Titles / Tasks**

Professor, Hacettepe Üniversitesi, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 1987 - Continues

### **Professional Experience**

Dean, Hacettepe Üniversitesi, Diş Hekimliği Fakültesi, 2012 - 2016

### **Courses**

DHF440 ENDODONTİ KLİNİK, Under Graduate, 2016 - 2017

DHF341 ENDODONTİ, Under Graduate, 2016 - 2017

DHF540 ENDODONTİ KLİNİK, Under Graduate, 2016 - 2017

### **Advising Theses**

ULUBAYRAM K., SERPER A., Hidrojel doku iskeleleri kullanılarak kök hücre aracılı diş pulpa rejenerasyonu, Doctorate, H.AKSEL(Student), 2016

SERPER A., Farklı konsantrasyonlardaki sodyum hipokloritin dentinin yüzey özelliklerine ve mineral içeriğine etkisinin değerlendirilmesi, Doctorate, C.KAYA(Student), 2012

### **Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes**

- 1. Sealer penetration: effect of separated file's cross-section, taper and motion characteristics**  
EYMİRLİ A., UZUNOĞLU ÖZYÜREK E., SERPER A.

CLINICAL ORAL INVESTIGATIONS, 2020 (Journal Indexed in SCI)

- II. **Micro-CT evaluation of the removal of root fillings using the ProTaper Universal Retreatment system supplemented by the XP-Endo Finisher file**  
AKSEL H., EREN S., Ors S. A. , SERPER A., Ocak M., ÇELİK H. H.  
INTERNATIONAL ENDODONTIC JOURNAL, vol.52, no.7, pp.1070-1076, 2019 (Journal Indexed in SCI)
- III. **Effect of perforation size and furcal lesion on stress distribution in mandibular molars: a finite element analysis**  
Ors S., AKSEL H., EREN S., SERPER A.  
INTERNATIONAL ENDODONTIC JOURNAL, vol.52, no.3, pp.377-384, 2019 (Journal Indexed in SCI)
- IV. **Obturation quality of calcium silicate-based cements placed with different techniques in teeth with perforating internal root resorption: a micro-computed tomographic study**  
Eren S., AKSEL H., Ors S. A. , SERPER A., KOÇAK Y., Ocak M., ÇELİK H. H.  
CLINICAL ORAL INVESTIGATIONS, vol.23, no.2, pp.805-811, 2019 (Journal Indexed in SCI)
- V. **VEGF/BMP-2 loaded three-dimensional model for enhanced angiogenic and odontogenic potential of dental pulp stem cells**  
AKSEL H., ÖZTÜRK S., SERPER A., ULUBAYRAM K.  
INTERNATIONAL ENDODONTIC JOURNAL, vol.51, no.4, pp.420-430, 2018 (Journal Indexed in SCI)
- VI. **Efficacy of different irrigant protocols and application systems on sealer penetration using a stepwise CLSM analysis**  
AKSEL H., Eren S. K. , PURALI N., SERPER A., Azim A. A.  
MICROSCOPY RESEARCH AND TECHNIQUE, vol.80, no.12, pp.1323-1327, 2017 (Journal Indexed in SCI)
- VII. **Effect of Instrumentation Techniques and Preparation Taper on Apical Extrusion of Bacteria**  
AKSEL H., Eren S. K. , ÇAKAR A., SERPER A., ÖZKUYUMCU C., AZIM A. A.  
JOURNAL OF ENDODONTICS, vol.43, no.6, pp.1008-1010, 2017 (Journal Indexed in SCI)
- VIII. **Comparison of triple antibiotic paste removal by different irrigation techniques**  
AKSEL H., EREN S. K. , SERPER A.  
DENTAL MATERIALS JOURNAL, vol.36, no.3, pp.303-308, 2017 (Journal Indexed in SCI)
- IX. **Effects of QMix and ethylenediaminetetraacetic acid on decalcification and erosion of root canal dentin**  
AKSEL H., SERPER A., Kalayci S., Somer G., Erisken C.  
MICROSCOPY RESEARCH AND TECHNIQUE, vol.79, no.11, pp.1056-1061, 2016 (Journal Indexed in SCI)
- X. **Effect of placement technique on the push-out bond strength of calcium-silicate based cements**  
Kucukkaya S., AKSEL H., SERPER A.  
DENTAL MATERIALS JOURNAL, vol.35, no.5, pp.742-747, 2016 (Journal Indexed in SCI)
- XI. **Neurotoxicity of various root canal sealers on rat sciatic nerve: an electrophysiologic and histopathologic study**  
Kilkis B. T. , ER K., TAŞDEMİR T., Yildirim M., TAŞKESEN F., Tumkaya L., Kalkan Y., SERPER A.  
CLINICAL ORAL INVESTIGATIONS, vol.19, no.8, pp.2091-2100, 2015 (Journal Indexed in SCI)
- XII. **Effect of needle insertion depth and apical diameter on irrigant extrusion in simulated immature permanent teeth**  
AKSEL H., ASKERBEYLİ S., CANBAZOĞLU Ç., SERPER A.  
BRAZILIAN ORAL RESEARCH, vol.28, no.6, pp.451-456, 2014 (Journal Indexed in SCI)
- XIII. **Recent considerations in regenerative endodontic treatment approaches**  
AKSEL H., SERPER A.  
JOURNAL OF DENTAL SCIENCES, vol.9, no.3, pp.207-213, 2014 (Journal Indexed in SCI)
- XIV. **Push-out bond strength of three calcium silicate cements to root canal dentine after two different irrigation regimes**  
ÇELİK D., ER K., SERPER A., TAŞDEMİR T., Ceyhanli K. T.  
CLINICAL ORAL INVESTIGATIONS, vol.18, no.4, pp.1141-1146, 2014 (Journal Indexed in SCI)
- XV. **Bond Strength of Calcium Silicate-Based Sealers to Dentine Dried with Different Techniques**  
TAŞDEMİR T., ER K., ÇELİK D., TAHAN E., SERPER A., Ceyhanli K. T. , Yesilyurt C.

MEDICAL PRINCIPLES AND PRACTICE, vol.23, no.4, pp.373-376, 2014 (Journal Indexed in SCI)

- XVI. **Mandibular first molars with a medial root canal**  
AKSEL H., SERPER A.  
JOURNAL OF DENTAL SCIENCES, vol.8, no.2, pp.205-206, 2013 (Journal Indexed in SCI)
- XVII. **Evaluation of the cytotoxicity of different root canal sealers on L929 cell line by MIT assay**  
YILMAZ Z., DOĞAN A., OZDEMİR H. O. , SERPER A.  
DENTAL MATERIALS JOURNAL, vol.31, no.6, pp.1028-1032, 2012 (Journal Indexed in SCI)
- XVIII. **Debris and irrigant extrusion potential of 2 rotary systems and irrigation needles**  
ALTUNDAŞAR E., Nagas E., Uyanik O., SERPER A.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, vol.112, no.4, 2011 (Journal Indexed in SCI)
- XIX. **Effect of smear layer and root-end cavity thickness on apical sealing ability of MTA as a root-end filling material: A bacterial leakage study**  
Yildirim T., Er K., TAŞDEMİR T., Tahan E., Buruk K., SERPER A.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, vol.109, no.1, 2010 (Journal Indexed in SCI)
- XX. **Comparison of the sealing ability of three filling techniques in canals shaped with two different rotary systems: A bacterial leakage study**  
TAŞDEMİR T., Er K., Yildirim T., Buruk K., ÇELİK D., Cora S., Tahan E., TUNCEL B., SERPER A.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, vol.108, no.3, 2009 (Journal Indexed in SCI)
- XXI. **Microleakage evaluation of roots filled with different obturation techniques and sealers**  
YILMAZ Z., TUNCEL B., OZDEMİR H. O. , SERPER A.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, vol.108, no.1, pp.124-128, 2009 (Journal Indexed in SCI)
- XXII. **The effect of master point taper on bond strength and apical sealing ability of different root canal sealers**  
Nagas E., ALTUNDAŞAR E., SERPER A.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, vol.107, no.1, 2009 (Journal Indexed in SCI)
- XXIII. **The effect of EDTA, EGTA, EDTAC, and tetracycline-HCl with and without subsequent NaOCl treatment on the microhardness of root canal dentin**  
Sayin T. C. , Serper A., Cehreli Z. C. , Otlu H. G.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, vol.104, no.3, pp.418-424, 2007 (Journal Indexed in SCI)
- XXIV. **Calcium loss from root canal dentin following EDTA, EGTA, EDTAC, and tetracycline-HCl treatment with or without subsequent NaOCl irrigation**  
Sayin T. C. , Serper A., Cehreli Z. C. , Kalayci S.  
JOURNAL OF ENDODONTICS, vol.33, no.5, pp.581-584, 2007 (Journal Indexed in SCI)
- XXV. **C-shaped root canal in a maxillary first molar: a case report**  
Yilmaz Z., Tuncel B., Serper A., Calt S.  
INTERNATIONAL ENDODONTIC JOURNAL, vol.39, no.2, pp.162-166, 2006 (Journal Indexed in SCI)
- XXVI. **Treatment of periapical inflammatory lesion with the combination of platelet-rich plasma and tricalcium phosphate: A case report**  
Demiralp B., Keceli H. G. , MUHTAROGULLARI M., SERPER A., Demiralp B., ERATALAY K.  
JOURNAL OF ENDODONTICS, vol.30, no.11, pp.796-800, 2004 (Journal Indexed in SCI)
- XXVII. **Histological and densitometric analysis of the effects of exogeneous heparin on rat pulp tissues**  
KURANER T., Ozcelik B., SERPER A., MOCAN G., MUMIN E., ERYILMAZ M.  
JOURNAL OF ENDODONTICS, vol.25, no.10, pp.649-651, 1999 (Journal Indexed in SCI)
- XXVIII. **pH changes and calcium ion diffusion from calcium hydroxide dressing materials through root dentin**

## Articles Published in Other Journals

- I. **Effect of final irrigation using XP Endo finisher file on organic tissue dissolution from artificial grooves in the apical third of root canals**  
KÜÇÜKKAYA EREN S., AKSEL H., ASKERBEYLİ ÖRS S., SERPER A.  
Clinical Dentistry and Research, vol.42, pp.57-63, 2018 (Other Refereed National Journals)
- II. **Concentration and time-dependent effect of initial sodium hypochlorite on the ability of QMix and ethylenediaminetetraacetic acid to remove smear layer**  
AKSEL H., SERPER A.  
Journal of Conservative Dentistry, vol.20, no.3, pp.185, 2017 (Refereed Journals of Other Institutions)
- III. **A case series associated with different kinds of endo-perio lesions**  
AKSEL H., SERPER A.  
Journal of Clinical and Experimental Dentistry, vol.6, no.1, 2014 (Refereed Journals of Other Institutions)
- IV. **Comparison of the cytotoxic effects and smear layer removing capacity of oxidative potential water NaOCI and EDTA**  
SERPER A., Çalt S., DOĞAN A. L. , GÜÇ D., ÖZÇELİK B., Kuraner T.  
J ORAL SCI, vol.4, no.43, pp.233, 2001 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Micro-CT Evaluation of the Removal of Different Root Canal Fillings Using Protaper Universal Retreatment System Supplemented by XP Endo Finisher File.**  
AKSEL H., KÜÇÜKKAYA EREN S., ASKERBEYLİ ÖRS S., SERPER A., OCAK M., ÇELİK H. H.  
AAE19 Annual Meeting Of The American Association Of Endodontists, 10 - 13 April 2019
- II. **Influence of different activation systems on apical extrusion of irrigant in open apex model**  
AKSEL H., KÜÇÜKKAYA EREN S., ASKERBEYLİ ÖRS S., ÖZTÜRK Ş., SERPER A.  
International Association of Paediatric Dentistry (IAPD) Regional Meeting and 25th Congress of Turkish Society of Paediatric Dentistry, 12 - 14 October 2018, pp.36
- III. **Perforasyon büyüklüğünün ve furkal lezyon varlığının mandibular molar dişlerin stres dağılımı üzerindeki etkisi: Sonlu elemanlar analizi**  
ASKERBEYLİ ÖRS S., AKSEL H., KÜÇÜKKAYA EREN S., SERPER A.  
TDB 24. Uluslararası Diş Hekimliği Kongresi, 27 - 30 September 2018, pp.101
- IV. **Effect of calcium hypochlorite irrigation on the fracture resistance of root canal-treated teeth**  
ASKERBEYLİ ÖRS S., KÜÇÜKKAYA EREN S., AKSEL H., SERPER A.  
18th European Society of Endodontology (ESE) Biennial Congress, 14 - 16 September 2017, pp.83-84
- V. **Açık apeksli diş modellerinde farklı irrigasyon sistemleri ile apikalden taşan irrigant miktarının spektrofotometrik olarak belirlenmesi**  
AKSEL H., KÜÇÜKKAYA EREN S., ASKERBEYLİ ÖRS S., ÖZTÜRK Ş., SERPER A.  
Türk Endodonti Derneği 7. Uluslararası Bilimsel Sempozyumu, 11 - 14 May 2017, pp.119-120
- VI. **Spectrophotometric determination of apically extruded irrigant using different irrigant activation systems in simulated open apex model.**  
AKSEL H., KÜÇÜKKAYA S., ASKERBEYLİ ÖRS S., ÖZTÜRK Ş., SERPER A.  
Türk Endodonti Derneği 7. Uluslararası Endodonti Sempozyumu, 11 - 14 May 2017
- VII. **Odonto/osteogenic and Angiogenic Differentiation of Human Dental Pulp Stem Cells in Engineered Tooth Model**  
AKSEL H., ÖZTÜRK Ş., SERPER A., ULUBAYRAM K.

Amerikan Endodonti Derneği 2017 Yıllık Oturumu, 26 - 29 April 2017, vol.43, pp.1-50

- VIII. **Effect of placement techniques on the push out bond strength of calcium silicate based cements**  
KÜÇÜKKAYA S., AKSEL H., SERPER A.  
AAE16 annual meeting of the American Association of Endodontists, 6 - 09 April 2016, pp.13
- IX. **Comparison of triple antibiotic paste removal by different irrigation techniques**  
AKSEL H., KÜÇÜKKAYA S., SERPER A.  
AAE16 annual meeting of the American Association of Endodontists, 6 - 09 April 2016, pp.21
- X. **Effect of Different Placement Techniques on the Push Out Bond Strength of Calcium Silicate Based Cements**  
KÜÇÜKKAYA S., AKSEL H., SERPER A.  
American Association of Endodontics 2016 Annual Conference, 26 - 29 April 2016, vol.42, pp.1-50
- XI. **Vascular network formation by DPSCs after angiogenic differentiation**  
AKSEL H., FAZAL B., ADHAM A., SERPER A., GEORGE H.  
17th Biennial ESE Congress, 16 - 19 September 2015
- XII. **Vertical Root Fracture Resistance of Simulated Immature Permanent Teeth Filled with MTA with Different Vehicles**  
ASKERBEYLİ S., AKSEL H., DENİZ SUNGUR D., SERPER A.  
47th CED-IADR, 15 - 17 October 2015
- XIII. **Management of different failed endodontic treatment cases as a table clinic presentation**  
AKSEL H., SERPER A., ADHAM A.  
AAE 2015 Annual Congress, 6 - 09 May 2015
- XIV. **Evaluation of irrigant extrusion in simulated immature permanent teeth**  
AKSEL H., SEVİNÇ A., SERPER A.  
18th World Congress on Dental Traumatology, 19 - 21 June 2014
- XV. **Management of Lateral Luxation Injuries at Different Levels of Severity**  
AKSEL H., SEVİNÇ A., SERPER A.  
18th World Congress on Dental Traumatology, 19 - 21 June 2014
- XVI. **Maxillary and mandibular molars with unusual root canal morphology A report of two cases**  
AKSEL H., SERPER A.  
AAE Annual Session 2014, 30 April - 03 May 2014
- XVII. **The effects of Qmix and EDTA on mineral content of root canal dentin with different concentrations and time exposures of initial sodium hypochlorite irrigation**  
AKSEL H., SERPER A.  
17th European Society of Endodontology (ESE) Congress, 12 - 14 September 2013
- XVIII. **Regenerative approaches in clinical endodontics**  
AKSEL H., SERPER A.  
New York Stem Cell Foundation 8th Annual Conference, 16 - 17 October 2013
- XIX. **A case series associated with endo perio lesions**  
AKSEL H., SERPER A.  
The 9th World Endodontic Congress (IFEA), 23 - 26 May 2013
- XX. **Mandibular first molar with medial root canals**  
AKSEL H., SERPER A.  
11th International Congress of the Turkish Endodontic Society., 27 - 28 April 2012

## Supported Projects

SERPER A., KOÇAK Y., ASKERBEYLİ ÖRS S., OCAK M., Project Supported by Higher Education Institutions, FARKLI KÖK KANAL PREPARASYON ŞEKİLLERİNİN EĞİMLİ KÖKLERE SAHİP MANDİBULAR MOLAR DIŞLERİN STRES DAĞILIMI ÜZERİNDEKİ ETKİSİ: SONLU ELEMANLAR ANALİZİ, 2018 - 2020

SERPER A., EYMİRLİ A., UZUNOĞLU E., Project Supported by Higher Education Institutions, Oval kök kanallarında kırılan

farklı nikelitanyum eğerlerin apikal uçluda dentin tubullerine penetre olan pat miktarına etkisi konfokal çalışması, 2018 - 2019

AKSEL H., KÜÇÜKKAYA EREN S., ASKERBEYLİ ÖRS S., SERPER A., ÇELİK H. H. , OCAK M., Project Supported by Higher Education Institutions, Farklı Kök Kanal Dolgularının XP Endo Finisher Kullanılarak Ek Aktif İrrigasyon ile Uzaklaştırılması, 2017 - 2018

ASKERBEYLİ ÖRS S., AKSEL H., KÜÇÜKKAYA EREN S., SERPER A., Project Supported by Higher Education Institutions, Setrimid katkısının kalsiyum hipoklorit irrigant solüsyonlarının kimyasal ve fiziksel özelliklerine ve kök dentinine etkisi, 2017 - 2018

ASKERBEYLİ ÖRS S., KÜÇÜKKAYA EREN S., AKSEL H., SERPER A., Project Supported by Higher Education Institutions, Kalsiyum hipoklorit irrigant solüsyonlarının kök kırılma dayanımına etkisi, 2017 - 2018

SERPER A., Project Supported by Higher Education Institutions, ENDODONTİDE LOOP KULLANIMININ GİRİŞ KAVİTESİ PREPARASYONUNA ETKİSİ, 2016 - 2017

AKSEL H., KÜÇÜKKAYA S., SERPER A., Project Supported by Higher Education Institutions, Farklı İrrigasyon Tekniklerinin Kök Kanal Dolgu Patının Dentin Tübüllerine Penetrasyonuna Etkisinin Karşılaştırılması, 2016 - 2017

SERPER A., AKSEL H., ASKERBEYLİ ÖRS S., KÜÇÜKKAYA EREN S., Project Supported by Higher Education Institutions, ENDODONTİK TEDAVİ GÖRMÜŞ FURKAL PERFORASYONLU DIŞLERDE LEZYON VARLIĞINDA VE YOKLUĞUNDA OKLUZAL YÜKLER ALTINDAKİ BİYOMEKANİK ETKİNİN SESA İLE DEĞERLENDİRİLMESİ, 2016 - 2017

SERPER A., Project Supported by Higher Education Institutions, AAE 2016 ENDODONTİ KONGRESİ - NİSAN 6-9 2016 SAN FRANCISCO - AMERİKA, 2016 - 2016

KÜÇÜKKAYA EREN S., SERPER A., AKSEL H., Project Supported by Higher Education Institutions, Farklı yerleştirme tekniklerinin kalsiyum silikat esash simanların itme bağlanma dayanımı üzerine etkisi, 2016 - 2016

AKSEL H., KÜÇÜKKAYA S., SERPER A., Project Supported by Higher Education Institutions, Üçlü Antibiyotik Patının Kök Kanallarından Uzaklaştırılmasında Farklı İrrigasyon Tekniklerinin Karşılaştırılması, 2016 - 2016

ASLANTAŞ E. E. , AKSEL H., ULUBAYRAM K., SERPER A., ÖZTÜRK Ş., Project Supported by Higher Education Institutions, VEGF ve BMP-2 yüklü HA/TCP silindir taşıyıcı matrikslerin DPSC'lerin farklılaşması üzerine etkisi, 2015 - 2016

ASKERBEYLİ ÖRS S., AKSEL H., SERPER A., DENİZ SUNGUR D., Project Supported by Higher Education Institutions, Simüle edilmiş kök gelişimi tamamlanmamış daimi dişlerde mineral trioksit agregat taşıyıcılarının kırılma dayanımına etkisi, 2015 - 2016

AKSEL H., SERPER A., Project Supported by Higher Education Institutions, Anjiojenik farklılaşma ile DPSC'ler tarafından damarsal ağ oluşumu, 2015 - 2016

DENİZ SUNGUR D., ASKERBEYLİ S., VATANSEVER A., ÇELİK H. H. , SERPER A., Project Supported by Higher Education Institutions, Farklı kök kanal preparasyon şekillerinin ve kök boyunun dişlerin stres dağılımı üzerindeki etkisi Sonlu Eleman Analizi, 2015 - 2016

SERPER A., AKSEL H., Project Supported by Higher Education Institutions, Hidrojel Doku İskeleleri Kullanılarak Kök Hücre Aracılı Diş Pulpa Rejenerasyonu, 2013 - 2016

SERPER A., Project Supported by Higher Education Institutions, Soru Bankası, 2013 - 2016

SERPER A., Project Supported by Higher Education Institutions, 91 nci Yıllık Büyük New York Dental Toplantısı 27 Kasım - 2 Aralık 2015, 2015 - 2015

ASLANTAŞ E. E. , DOĞAN BUZOĞLU H., SERPER A., ALTUNDAŞAR E., Project Supported by Higher Education Institutions, Yüzey modifiye edici ajan eklenmiş ve eklenmemiş EDTA, Sodyum hipoklorit, Klorheksidin glukonat'ın dentin mikrosertliği üzerine etkisi, 2015 - 2015

SERPER A., Project Supported by Higher Education Institutions, 11-14 Mart 2015 93. IADR 44. AADR 39. CADR Kongresi, Boston, ABD, 2015 - 2015

## Citations

Total Citations (WOS):333

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