



**Mohammad Samiei DDS, MSc**  
**Associate Professor of Endodontics**  
**Department of Endodontics**  
**Faculty of Dentistry, Tabriz University of**  
**Medical Sciences, Golgasht Street, Tabriz-Iran**  
Fax: +98 (411) 3299654  
E-mail: Samiei.moh@gmail.com  
samieim@tbzmed.ac.ir  
ORCID :  
orcid.org/0000-0002-3557-0666  
Scopus Author ID: 54884529500  
Scopus Author ID: 3707569620

### **Educational background**

(1996-2002) Doctor of Dental Surgery (DDS), Faculty of Dentistry, Tabriz University of Medical sciences, Tabriz-Iran.  
(2005-2008) Master of Science in Dentistry (MSD), Faculty of Dentistry, Shahid Beheshti University of Medical Sciences, Tehran-Iran.

### **Academic & administrative position**

Associate Professor of Endodontics, Faculty of Dentistry, Tabriz University of Medical Sciences

Course director, lecturer, instructor, Department of Endodontics, Department of community Dentistry.

Editorial Board Member, Journal of Dental research, Dental clinics, Dental prospects (JODDD). (2008 – Present)

Dean of Research Council at Dental school, Tabriz University of Medical Sciences.

Member of Educational Developing Organization (EDO) in Dental school(2007 – Present).

Member of thesis Committee in Dental school.

### **Teaching Responsibilities**

**Tabriz Dental Faculty**, Department of Endodontics (undergraduate course)  
Fall 2007 – Present      Theory and Practice, course director, series of lectures, instructor: Diagnosis and treatment planning in Endodontics, Endodontic instruments, Sterilization and armamentarium, Retreatment in Endodontics, Osteointegration and Implant.

**Tabriz Dental Faculty**, Department of Endodontics (Postgraduate Course)  
Fall 2007 – Present      Theory and Practice, course director, series of lectures, instructor: Endodontics Textbooks (Ingle Endodontics, Pathways of the pulp, Dental pulp), Journal Clubs.

**Tabriz Dental Faculty**, Department of Community Dentistry (undergraduate course)  
Fall 2007- present      Theory and practice, course director, series of lectures, instructor: Epidemiology and health determinants, analytic and descriptive epidemiology, screening, oral habits and population's attitude towards oral health, programming to prevent oral and dental diseases in target populations.

### **Research interests**

Tissue Engineering and Regenerative Endodontics  
Evaluation of properties related to new biomaterials and techniques  
Nanotechnology and Nano materials in Dentistry  
New intracanal antimicrobial agents

### **Publications**

## Books

- 1- Translation of the book entitled: *Pathways of the pulp 2006*. Authors: Cohen S, Hargreaves KM. 9th edition(English to Persian).  
Supervisor: Kangarloo A. Translators: **Samiei M**, Rahimi H et al.. Tehran: Hayyan Inc; 2007.
2. Compact Dentistry References (CDR) of *Pathways of the pulp 2006*. Author: **Dr.Mohammad Samiei**, Tehran: Shayan nemodar Inc; 2007.

## Articles

1. Ashraf H, **Samiee M**, Eslami G, Ghodse Hosseini MR. Presence of *Candida Albicans* in root canal system of teeth requiring endodontic retreatment with and without periapical lesions. Iranian Endodontic Journal 2007; 2(1):24-8.
2. Ahangari Z, **Samiee M**, Eslami G, Yolmeh MA. Antimicrobial activity of three root canal irrigants on *Enterococcus Faecalis*: An *in vitro* study. Iranian Endodontic Journal 2008; 3(2):33-7.
3. **Samiee M**, Eghbal MJ, Parirokh M, Mashhadi Abbas F, Asgary S. Repair of furcal perforation using a new endodontic cement. Clin Oral Invest. 2010;14:653-658.
4. Shahriar Shahi, **Mohammad Samiei**, Saeed Rahimi, Hossein Nazemi  
In vitro comparison of dye penetration through four temporary restorative materials. Iranian Endodontic Journal 2010; 5:59-63. 5.
5. Masoud Parirokh, Saeed Asgary, Mohammad Jafar Aghbal, Shahla Kakoei, **Mohammad Samiee**. A Comparative Study of Using a Combination of Calcium Chloride and Mineral Trioxide Aggregate as the Pulp-capping Agent on Dogs Teeth. J Endod 2011; 37(6): 786-788
6. Hamid Reza Yavari, **Mohammad Samiei**, Shahriar Shahi, Mohammad Aghazadeh, Farnaz Jafari, Majid Abdolrahimi, Saeed Asgary. Polymicrobial Saliva microleakage Comparison of Various Dental Materials as Intra-orifice Barriers in Endodontically Treated Teeth. Iranian Endod J. 2012;7(1):25-30.
7. Shahriar Shahi, Saeed Rahimi, Hamid Reza Yavari, **Mohammad Samiei**, Maryam Janani, Mahmoud Bahari, Majid Abdolrahimi, Farzaneh Pakdel, Amirala Aghbali. Effects of Various Mixing Techniques on Push-out Bond Strengths of White Mineral Trioxide Aggregate. J Endod 2012;38:501–504.

8. Abolfazl Akbarzadeh, Nosratollah Zarghami, Haleh Mikaeili, Davoud Asgari, Amir Mohammad Goganian, Hanie Khaksar Khiabani, **Mohammad Samiei**, Soodabeh Davaran. Synthesis, characterization, and in vitro evaluation Of novel polymer-coated magnetic nanoparticles for controlled delivery of doxorubicin. *Nanotechnology, Science and Applications* 2012;5 13–25.
9. Abolfazl Akbarzadeh, **Mohammad Samiei** , Soodabeh Davaran. Magnetic nanoparticles: preparation, physical properties, and applications in biomedicine. *Nanoscale Research Letters* 2012, 7:144.
10. Sahar Shakouie, **Mohammad Samiei**, Shahriar Shahi, Saeed Rahimi, Amir Yavari, Mohammad F. Reyhani, Sahar Safar Alizadeh. Sealing ability comparison of mineral trioxide aggregate in root-end cavities prepared with ultrasonic and Er,Cr:YSGG laser. *African Journal of Biotechnology* 2012; 11(36):8906-8911.
11. Hamidreza Yavari, **Mohammad Samiei**, Mahsa Eskandarinezhad, Shahriar Shahi, Marzieh Aghazadeh, Yones Pasvey. An In Vitro Comparison of Coronal Microleakage of Three Orifice Barriers Filling Materials. *Iranian Endodontic Journal* 2012;7(3):156-160.
12. Mehrdad Lotfi, Sepideh Vosoughhosseini, Mohammad Ali Saghiri, Saeed Rahimi, Vahid Zand, Mohammad Forough Reyhani, **Mohammad Samiei**, Negin Ghasemi, Payman Mehrvarzfar, Shahram Azimi, Noushin Shokohinejad. Effect of Synthetic Tissue Fluid on Microleakage of Grey and White Mineral Trioxide Aggregate as Root-End Filling Materials An in vitro study. *Sultan Qaboos University Med J.* 2012; 12(3):323-329.
13. Alireza Valizadeh, Haleh Mikaeili, **Mohammad Samiei**, Nosratollah Zarghami, Samad Mussa Farkhani, Mohammad kouhi, Soodabeh Davaran, Abolfazl Akbarzadeh. Quantum dots: synthesis, bioapplications, and toxicity. *Nanoscale Research Letters* 2012, 7:480.
14. Akbarzadeh A, **Samiei M**, Joo SW, Anzaby M, Hanifehpour Y, Nasrabadi HT, Davaran S. Synthesis, characterization and in vitro studies of doxorubicin-loaded magnetic nanoparticles grafted to smart copolymers on A549 lung cancer cell line. *J Nanobiotechnology.* 2012 Dec 18;10:46. doi: 10.1186/1477-3155-10-46.

15. Akbarzadeh A, Rezaei-Sadabady R, Davaran S, Joo SW, Zarghami N, Hanifehpour Y, **Samiei M**, Kouhi M, Nejati-Koshki K. Liposome: classification, preparation, and applications. *Nanoscale Res Lett.* 2013 Feb 22;8(1):102. doi: 10.1186/1556-276X-8-102.
16. Samiei M, Aghazadeh M, Movassaghpour AA, Fallah A, Asl Aminabadi N, Vahid Pakdel SM, Sakhinia E, Asghari Estiar M, Omidi Y, Pakdel F. Isolation and Characterization of Dental Pulp Stem Cells from Primary and Permanent Teeth. *J Am Sci* 2013;9(12):153-157.
17. Salehi R, Aghazadeh M, Rashidi MR, Samadi N, Salehi SH, Davaran S, Samiei M. Bioengineering of Dental Pulp Stem Cells in a Microporous PNIPAAm-PLGA Scaffold. *International Journal of Polymeric Materials and Polymeric Biomaterials.* 2014; 63:15, 767- 776.
18. **Samiei M**, Pakdel SMV, Rikhtegaran S, Shakoie S, Ebrahimpour D, Taghavi P. Scanning Electron Microscopy Comparison of the Cleaning Efficacy of a Root Canal System by Nd:YAG Laser and Rotary Instruments. *Microscopy and Microanalysis*, 2014 Jun 2:1-6.
19. **Samiei M**, Aghazadeh M, Farhadi F, Shahveghar N, Torab A, Pakdel SMV. Sealing Efficacy of Single-cone Obturation Technique with MTA and CEM Cement: An in Vitro Bacterial Leakage Study. *J Dent Res Dent Clin Dent Prospect* 2014;8(2):77-83.
20. Asl Aminabadi N, Najafpour E, Erfanparast L, **Samiei M**, Haghifar M, Sighari Deljavan A, Jamali Z, Pournaghi Azar F, Shokravi M. Class III Restoration of Anterior Primary Teeth: *In Vitro* Retention Comparison of Conventional, Modified and Air-abrasion Treated Preparations. *J Dent Res Dent Clin Dent Prospect* 2014;8(2):89-94.
21. Chung JH, Kim YK, Kim KH, Kwon TY, Vaezmomeni SZ, Samiei M, Aghazadeh M, Davaran S, Mahkam M, Asadi G, Akbarzadeh A. Synthesis, characterization, biocompatibility of hydroxyapatite-natural polymers nanocomposites for dentistry applications. *Artif Cells Nanomed Biotechnol.* 2014 Aug 11:1-8. |
22. Asl Aminabadi N, Sighari Deljavan A, **Samiei M**, Jamali Z. Are referred inaccessible human primary molar teeth really inaccessible? *J Oral Sci.* 2013;55(2):167-73.
23. Shakouie S, Eskandarinezhad M, Gasemi N, Milani AS, **Samiei M**, Golizadeh S. An in vitro comparison of the antibacterial efficacy of triphala with different concentrations of sodium hypochlorite. *Iran Endod J.* 2014 Fall;9(4):287-9.

24. **Samiei M**, Shahi S, Aslaminabadi N, Valizadeh H, Aghazadeh Z, Pakdel SM. A new simulated plasma for assessing the solubility of mineral trioxide aggregate. *Iran Endod J.* 2015 Winter;10(1):30-4.
25. Shahi S, Ghasemi N, Rahimi S, Yavari HR, **Samiei M**, Janani M, Bahari M, Moheb S. The effect of different mixing methods on the flow rate and compressive strength of mineral trioxide aggregate and calcium-enriched mixture. *Iran Endod J.* 2015 Winter;10(1):55-8.
26. Majidi S, Zeinali Sehrig F, **Samiei M**, Milani M, Abbasi E, Dadashzadeh K, Akbarzadeh A. Magnetic nanoparticles: Applications in gene delivery and gene therapy. *Artif Cells Nanomed Biotechnol.* 2015 Mar 2:1-8.
27. **Samiei M**, Asgary S, Farajzadeh M, Bargahi N, Abdolrahimi M, Kananizadeh U, Dastmalchi S. Investigating the mutagenic effects of three commonly used pulpotomy agents using the ames test. *Adv Pharm Bull.* 2015 Mar;5(1):121-5.
28. Yavari H, **Samiei M**, Shahi S, Borna Z, Abdollahi AA, Ghiasvand N, Shariati G. Radiographic evaluation of root canal fillings accomplished by undergraduate dental students. *Iran Endod J.* 2015;10(2):127-30.
29. Shahi S, Ghasemi N, Rahimi S, Yavari HR, **Samiei M**, Janani M, Bahari M. The Effect of Different Mixing Methods on the pH and Solubility of Mineral Trioxide Aggregate and Calcium-Enriched Mixture *Iran Endod J.* 2015;10(2):140-3.
30. Rahimi S, Asgary S, **Samiei M**, Bahari M, Vahid Pakdel , Mahmoudi R. The Effect of Thickness on the Sealing Ability of CEM Cement as a Root-end Filling Material. *J Dent Res Dent Clin Dent Prospects.* 2015 Winter;9(1):6-10.
31. Asl-Aminabadi N, Najafpour E, **Samiei M**, Erfanparast L, Anoush S, Jamali Z, Pournaghi-Azar F, Ghertasi-Oskouei S. Laser-Casein phosphopeptide effect on remineralization of early enamel lesions in primary teeth. *J Clin Exp Dent.* 2015 Apr 1;7(2):e261-7.
32. Asl Aminabadi N, Satrab S, Najafpour E, **Samiei M**, Jamali Z, Shirazi S. A randomized trial of direct pulp capping in primary molars using MTA compared to 3Mixtatin: a novel pulp capping biomaterial. *Int J Paediatr Dent.* 2016 Jul; 26(4):281-90.
33. **Samiei M**, Farjami A, Dizaj SM, Lotfipour F. Nanoparticles for antimicrobial purposes in Endodontics: A systematic review of in vitro studies. *Mater Sci Eng C Mater Biol Appl.* 2016 Jan 1; 58:1269-78.

34. **Samiei M**, Ghasemi N, Divband B, Balaei E, Hosien Soroush Barhaghi M, Divband A. Antibacterial efficacy of polymer containing nanoparticles in comparison with sodium hypochlorite in infected root canals. *Minerva Stomatol.* 2015 Dec;64(6):275-81.
35. Aminabadi NA, Behroozian A, Talatahari E, **Samiei M**, Sadigh-Eteghad S, Shirazi S. Does prenatal restraint stress change the craniofacial growth pattern of rat offspring? *Eur J Oral Sci.* 2016 Feb; 124(1):17-25.
36. Shahi S, Asghari V, Rahimi S, Lotfi M, **Samiei M**, Yavari H, Shakouie S, Nezafati S. Postoperative Pain after Endodontic Treatment of Asymptomatic Teeth Using Rotary Instruments: A Randomized Clinical Trial. *Iran Endod J.* 2016 winter; 11(1):38-43.
37. **Samiei M**, Ghasemi N, Torab A, Rahimi S, Niknami M, Rikhtegaran S, Purnaghi Azar F, Mehdi Vahid Pakdel S. Comparative CBCT evaluation of the efficacy of Nd:YAG laser and K3 rotary system in non-surgical root canal retreatment. *Minerva Stomatol.* 2016 Feb; 65(1):11-6.
38. Asghari F, Samiei M, Adibkia K, Akbarzadeh A, Davaran S. Biodegradable and biocompatible polymers for tissue engineering application: a review. *Artif Cells Nanomed Biotechnol.* 2016 Feb 28:1-8.
39. Aminabadi NA, Huang B, **Samiei M**, Agheli S, Jamali Z, Shirazi S. A Randomized Trial Using 3Mixtatin Compared to MTA in Primary Molars with Inflammatory Root Resorption: A Novel Endodontic Biomaterial. *J Clin Pediatr Dent.* 2016; 40(2):95-102.
40. Shahi S, Jeddi Khajeh S, Rahimi S, Yavari HR, Jafari F, **Samiei M**, Ghasemi N, Salem Milani A. Effect of different mixing methods on the bacterial microleakage of calcium-enriched mixture cement. *Minerva Stomatol.* 2016 Mar 17. [Epub ahead of print]
41. Abbasi E, Milani M, Fekri Aval S, Kouhi M, Akbarzadeh A, Tayefi Nasrabadi H, Nikasa P, Joo SW, Hanifehpour Y, Nejati-Koshki K, **Samiei M**. Silver nanoparticles: Synthesis methods, bio-applications and properties. *Crit Rev Microbiol.* 2016 Mar; 42(2):173-80.
42. Shahi S, Jeddi Khajeh S, Rahimi S, Yavari HR, Jafari F, **Samiei M**, Ghasemi N, Salem Milani A. Effect of different mixing methods on the bacterial microleakage of calcium-enriched mixture cement. *Minerva Stomatol.* 2016 Mar 17. [Epub ahead of print]
43. **Samiei M**, Shahi S, Abdollahi AA, Eskandarinezhad M, Negahdari R, Pakseresht Z. The Antibacterial Efficacy of Photo-Activated Disinfection,

Chlorhexidine and Sodium Hypochlorite in Infected Root Canals: An in Vitro Study. Iran Endod J. 2016 Summer;11(3):179-83.

44. Jamali Z, Aminabadi NA, **Samiei M**, Sighari Deljavan A, Shokravi M, Shirazi S. Impact of Chlorhexidine Pretreatment Followed by Probiotic Streptococcus salivarius Strain K12 on Halitosis in Children: A Randomised Controlled Clinical Trial. Oral Health Prev Dent. 2016;14(4):305-13.

45. Asghari, F., Salehi, R., Agazadeh, M, Samiei M, Aval, N.A., Davaran, S. The odontogenic differentiation of human dental pulp stem cells on hydroxyapatite-coated biodegradable nanofibrous scaffolds . International Journal of Polymeric Materials and Polymeric Biomaterials.2016

46. Samiei M, Aghazadeh M, Alizadeh E, Aslaminabadi, Davaran S, Shirazi S, Ashrafi F, Salehi R. Osteogenic/Odontogenic Bioengineering with co-Administration of Simvastatin and Hydroxyapatite on Poly Caprolactone Based Nanofibrous Scaffold. Adv Pharm Bull. 2016 Sep;6(3):353-365.

47. Shahi S, Ghasemi N, Rahimi S, Yavari H, **Samiei M**, Jafari F Effect of different mixing methods on the physical properties of Portland cement. J Clin Exp Dent. 2016 Dec 1;8(5):e475-e479.

## Abstracts

1. Ahangari Z, Makaremi A , **Samiee M**, Yolmeh MA .Antimicrobial effects of three intracanal irrigants on *Enterococcus Faecalis*. IADR General Session, Toronto- 2-5 July, 2008.
2. Rahimi S, Mokhtari H, **Samiee M**, Salem Milani A. Vital pulp therapy: a new challenge. Presented at the 12th international congress of Iranian association of endodontists. Tehran, 2009.
3. Ashraf H, Moradi Majd N, Samiee M, Abdehag M. Evaluation of the attitude towards and awareness of the administration of prophylactic antibiotics and drug interactions among dental practitioners in Tehran in 2005 Presented at the 12th international congress of Iranian association of Endodontists. Tehran, 2009.
  4. Yavari HR, Shahi S, Salem Milani A, Reihani MF, **Samiee M**. Missed anatomy: Prevalence and clinical effects. Presented at the 12th international congress of Iranian association of endodontists. Tehran, 2009.
5. Atabak Kashefi mehr, Masomeh Faramarzi, Farzad Esmaeli, **Mohammad Samiei**. OCT, new horizon in Dentistry. 2<sup>nd</sup> Congress of Iranian Association of Oral and Maxillofacial Radiology. Tehran-Iran.
6. Farhang Mahboub, Elnaz Moslehifard, **Mohammad Samiei**, Masomeh Faramarzi. Effect of Conventional Fixed prosthetics on the health of



- periodontium. 9<sup>th</sup> congress of Iranian Academy of Periodontology.9-11 Dec 2009.Tehran-Iran.
7. **Mohammad Samiei**, Farhang Mahboub, Elnaz Moslehifard. Regenerative Techniques for treatment of Endodontic and Periodontal Defects. 9<sup>th</sup> congress of Iranian Academy of Periodontology. 9-11 Dec 2009.Tehran-Irans.
  8. **Mohammad Samiei** .Comparison of apical microleakage in root-end cavities prepared by Ultrasonic and Er Cr: YSGG laser. Presented at the international congress of World Federation for Laser Dentistry (WFLD) 10 March 2010- Dubai-UAE.
  9. **Mohammad Samiei** .Apical microleakage comparison of MTA in root-end cavities prepared by Ultrasonic and Er Cr: YSGG laser. Presented at the international congress of World Federation for Laser Dentistry (WFLD) 11 March 2010- Dubai-UAE.
  10. **Mohammad Samiei** .Coronal microleakage of intraorifice barriers in endodontically treated teeth. International Association for Dental Research (IADR General Session).14-17 July, 2010 – Barcelona- Spain.
  11. **Samiei M**, Shahi S, Oonchi M. Apical Microleakage Comparison of Four Root-End Filling Materials. International Association for Dental Research (IADR General Session).16-19 March, 2011-San Diego, California-USA.
  12. **Samiei M**, Rikhtegaran S, Shakoui S, Taghavi P, Pakdel SMV. Comparison of Root Canal Cleaning Efficacy of Nd:YAG Laser With Conventional Techniques. World Federation for Laser Dentistry (WFLD) –European Congress.9-11 June 2011- Rome-Italy.
  13. **Samiei M**, Pakdel F, Pakdel SMV.Apical microleakage of CEM cement in laser prepared root-end cavities. The 6th Annual meeting of the IADR Iranian division, 2011, Tehran-Iran.
  14. Pakdel SMV , **Samiei M**, Aghazadeh M, Aghazadeh Z.Bacterial leakage evaluation of Single –Cone obturation technique. The 6th Annual meeting of the IADR Iranian division, 2011, Tehran-Iran.
  15. Aghazadeh Z, **Samiei M**, Janani M, Pakdel SMV.Knowledge, Attitude and practice of Tabriz GDPs about root canal irrigants. The 6th Annual meeting of the IADR Iranian division, 2011, Tehran-Iran.
  16. **Samiei M**, Shahi S, Yavari HR.The Antibacterial efficacy of Er, Cr: YSGG laser and 2% Chlorhexidine solution on E.Faecalis in infected root canals. Second Pan Arab Endodontic Conference. Jan 1-3 2012, Dubai-UAE.
  17. **Samiei M**, Pakdel F, Pakdel SMV .Evaluation of the efficacy of dental Lasers during non-surgical endodontic retreatment. Second Pan Arab Endodontic Conference. Jan 1-3 2012, Dubai-UAE.
  18. **Samiei M**, Rahimi S, Mahmoudi R , Pakdel SMV.Sealing ability of three different thicknesses of Calcium Enriched Mixture (CEM) Cement as a new root-end filling material. Second Pan Arab Endodontic Conference. Jan 1-3 2012, Dubai-UAE.

19. Janani M, Aghbali AA, **Samiei M**. New techniques of Irrigation and disinfection of root canal system. The 52th Annual international congress of Iranian Dental Association.8-11 may, 2012.Tehran, Iran.
20. Gholizadeh S, Rahimi S, Reyhani MF, **Samiei M**. Electron microscope Evaluation of formation of *Enterococcus faecalis* bacterial biofilm on the dentinal canal walls of the root.15<sup>th</sup> annual congress of the Iranian Association of Endodontics (IAE).14-16 June, 2012. Hamadan, Iran.
21. **Samiei M**, farhadi F, Yavari HR, Jafari F. Comparative Study of Polymicrobial Microleakage In Intra-orifice Sealing Materials. International Association for Dental Research (IADR /LAR General Session). June 20-23, 2012, Iguacu Falls, Brazil.
22. New simulated plasma for assessing solubility of Mineral Trioxide Aggregate. International workshop on dentistry. 4-6 June 2014, Ankara, Turkey.
23. Effect of simvastatin on osteogenic capability of dental pulp stem cells transferred onto polymeric scaffolds.2nd international symposium on mesenchymal stem cell differentiation. Odense- Southern Denmark, 27-28 June, 2016.
24. Effect of Platelet – Rich – Plasma (PRP) and MTA on angiogenesis of dental pulp stem cells transferred to polymeric scaffolds.13th international conference and exhibition on dental medicine. Toronto- Canada, Aug 08-10, 2016.

**Managing Editor and Endodontics section Editor of:**

Journal of Dental Research, Dental clinics, Dental prospects, (JODDD), indexed in PubMed

**Professional memberships**

Member of Iranian Dental Association (IDA)

Member of Iranian Association of Endodontists (IAE)

Member of Iranian Center for Endodontic Research (ICER)

Member of International Association of Dental Research (IADR) and American Association of Dental Research (AADR)