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استاد، متخصص اندودنتیکس

بخش اندودنتیکس

دانشکده دندانپزشکی

دانشگاه علوم پزشکی تبریز

خیابان دانشگاه

تبریز، ایران

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سمت آموزشی و اجرایی

• استاد گروه اندودنتیکس دانشکده دندانپزشکی تبریز

• مسئول (رئیس) بخش اندودنتیکس از سال ۱۳۸۸ تا ۱۳۹۳

• مدیر گروه اندودانتیکس از سال ۱۳۹۵ تا ۱۳۹۹

مدارک تحصیلی

دکترای دندانپزشکی ۱۳۸۰ از دانشکده دندانپزشکی دانشگاه علوم پزشکی تبریز

دکترای تخصصی اندودنتیکس ۱۳۸۴ از دانشکده دندانپزشکی دانشگاه علوم پزشکی اصفهان

(رتبه دوم بورده تخصصی سال ۱۳۸۴)

فعالیت‌های آموزشی

تدریس در دوره های عمومی و تخصصی دندانپزشکی

زمینه‌های مورد علاقه تحقیقاتی

مطالعه روی خواص فیزیکی بایومتریال ها (MTA-CEM Cement)

کلسیم هیدروکساید و نانو کلسیم هیدروکساید

میکروبیولوژی در اندو

مقالات علمی منتشر شده:

1. Froughreyhani M, Rahimi S, Shahi S. Root canal therapy of mandibular first molar with five root canals: a case report. Iranian Endodontic Journal 2007 (2). 3 110-112
2. Rahimi S, Shahi S, Nezafati S, **Reyhani MF**, Shakouie S, Jalili L. Invitro comparison of three different lengths of remaining gutta-percha for establishment of apical seal after post-space preparation. J Oral Sci 2008. 50 (4): 435-439
3. Rahimi S, Zand V, Shahi S, Shakouie S, **Reyhani MF**, MohammadiKhoshro M, Tehranchi P. A Comparative scanning electron microscope investigation of cleanliness of root canals using hand K-Flexofiles, rotary RaCe and K3

instruments. Iranian Endodontic Journal Fall 2008; 3 (4):123-128

4.Shahi S, Yavari HR, Rahimi S, **Reyhani MF**, Kamarroosta Z, Abdolrahimi M. A Comparative scanning electron microscopic study of the effect of three different rotary instruments on smear layer formation. J Oral Sci 2009; 51(1): 55-60

5.Rahimi S, Shahi S, Yavari HR, **Reyhani MF**, Ebrahimi ME, Rajabi E. A stereomicroscopy study of root apices of human maxillary central incisors and mandibular second premolars in an Iranian population. J Oral Sci 2009; 51(3): 411-415

6.Rahimi S, Yavari HR, Shahi S, Zand V, Shakoui S, **Reyhani MF**, Pirzadeh A. Comparison of the effect of Er, Cr- YSGG laser and ultrasonic retrograde root-end cavity preparation on the integrity of root apices. J Oral Sci 2010; 52(1): 77-81

7.Froughreyhani M, Milani AS, Rahimi S, Shakoui S, Fateh S. Comparison of apical sealing ability of resected mineral trioxide aggregate, gutta-percha and resin-based root canal filling material (resilon). Afr J Biotechnol: 7 September 2011; 10 (51):10516-10519.

8.Zand V, Mokhtari H, Lotfi M, **ForoughReyhani M**, Sohrabi A, Tehranchi P, MokhtariZenouzi HR. Accuracy of working length determination with root ZX apex locator and radiography: An in vivo and ex vivo study. African Journal of Biotechnology Vol. 10(36), pp. 7088-7091, 18 July, 2011

9.Mohammad Froughreyhani, Mehrdad Lotfi, Saeed Rahimi, Shahriar Shahi, Amin Salem Milani and Navide Mehanfar. Evaluation of the amount of apically extruded debris using

Mtwo and RaCe systems-An in vitro study. Afr J Biotechnol: 26 December 2011; 10 (84):19637-19640

10.Mehrdad Lotfi, SepidehVosoughhosseini, Mohammad Ali Saghiri, Saeed Rahimi, VahidZand,**MohammadForough Reyhani**, Mohammad Samiei, NeginGhasemi, PaymanMehrvarzfar, ShahramAzimi, NoushinShokohinejad.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, August 2012, Vol. 12, Iss. 3, pp. 323-329, Epub. 15th Jul 12

11.Amin Salem Milani, **Mohammad Froughreyhani**, Saeed Rahimi, Mohammad AsghariJafarabadi, Sara Paksefat. The Effect of Root Canal Preparation on the Development of Dentin Cracks.Iranian EndodonticJournal 2012;7(4):177-182

12.Saeed Rahimi, ShahriarShahi, SeddighehGolizadeh, Sahar Shakouie, SahandRikhtegaran, Mohammad Hossein SoroushBarhaghi, MortezaGhojzadeh, **Mohammad Froughreyhani**, and Majid Abdolrahimi. Bactericidal Effects of Nd:YAG Laser Irradiation and Sodium Hypochlorite Solution on Enterococcus Faecalis Biofilm. Photomedicine and Laser Surgery.2012 Nov;30(11):637-41.

13.ShahriarShahi, HadiMokhtari, Saeed Rahimi, VahabShiezadeh, Habib Ashasi, Majid Abdolrahimi, **Mohammad Foroughreyhani**.Electrochemical corrosion assessment of RaCe and Mtwo rotary nickle-titanium

instruments after clinical use and sterilization. Med Oral Patol Oral Cir Bucal. 2012 Mar; 17(2): e331–e336

14.Saeed Rahimi, NeginGhasemi, ShahriarShahi, MehrdadLotfi,**MohammadFrughreyhani**, Amin Salem Milani, and Mahmood Bahari. Effect of Blood Contamination on the Retention Characteristics of Two Endodontic Biomaterials in Simulated Furcation Perforations. J Endod 2013;39(5);697-700

15.Froughreyhani M, Milani AS, Barakatein B, Shiezadeh V. Treatment of a Strip Perforation Using Root MTA: A Case Report. Iran Endod J. 2013;8(2):80-3.

16.Amin Salem Milani, Saeed Rahimi, **MohammadFroughreyhani**, Mahdi VahidPakdel.Effect of Blood Contamination on Marginal Adaptation and Surface Microstructure of Mineral Trioxide Aggregate: A SEM Study. Journal of Dental Research, Dental Clinics, Dental Prospects. (JODDD)2013; 7(3): 156-162.

17.Salem Milani A, **Froughreyhani M**, CharchiAghdam S, Pournaghiazar F, AsghariJafarabadi M. Mixing with Propylene Glycol Enhances the Bond Strength of Mineral Trioxide Aggregate to Dentin. J Endod 2013;39:1452-5

18.Mohammad Forough Reyhani , NeginGhasemi,, Saeed Rahimi , Amin Salem Milani , HadiMokhtari Sahar Shakouie,Hossein Safarvand .Push-Out Bond Strength of Dorifill, Epiphany and MTA-Fillapex Sealers to Root Canal Dentin with and without Smear Layer.Iranian Endodontic Journal Iranian Endodontic Journal 2014;9(4):246-250

19.Hadi Mokhtari, ShahriarShahi , Maryam Janani ,
Mohammad Frough Reyhani, Hamid Reza MokhtariZonouzi,
Saeed Rahimi, Hamid Reza Sadr Kheradmand. Evaluation of
Apical Leakage in Root Canals Obturated with Three Different
Sealers in Presence or Absence of Smear Layer.Iranian
Endodontic Journal 2015;10(2): 131-134.

20.Reyhani MF, Ghasemi N, Rahimi S, Milani AS, Barhaghi
MH, Azadi A. Apical microleakage of AH Plus and MTA
Fillapex® sealers in association with immediate and delayed
post space preparation: a bacterial leakage
study.MinervaStomatol. 2015 Jun;64(3):129-34.

21.Mohammad Frough Reyhani, HamidrezaYavari,
NeginGhasemi, Saeed
Rahimi,MohammadHosienSoroushBarhaghi, HadiMokhtari,
and PaymanSarikhani. Comparing the Coronal Seal of
Different Thicknesses ofMTA with Gutta-Percha after Post
Space Preparation. Hindawi Publishing Corporation Scientific
World Journal Volume 2015;1- 5

22.Mohammad Frough Reyhani, Saeed Rahimi, Zahra Fathi,
Sahar Shakouie, Amin Salem Milani, Mohammad Hossein
SoroushBarhaghi, JavadShokri.Evaluation of Antimicrobial
Effects of Different Concentrations of Triple Antibiotic Paste
on Mature Biofilm of Enterococcus faecalis Journal of Dental
Research, Dental Clinics, Dental Prospects, 2015 Vol.
9(3):138-143

23.Mohammad Forough Reyhani, NeginGhasemi,
MahsaEskandarinejad,Amin Salem Milani, HadiMokhtari,
KavehTootunchian. Antimicrobial effects of Apexit Plus,

Epiphany, MTA Fillapex and Dorifill sealers on Enterococcus faecalis at different time interval. International Journal of Scientific Research and Innovative Technology 2015;4:10-5

24.Mokhtari H, Rahimi S, **ForoughReyhaniM**, Galledar S, MokhtariZonouziHR.Comparison of Push-out Bond Strength of Gutta-percha to Root Canal Dentin in Single-cone and Cold Lateral Compaction Techniques with AH Plus Sealer in 25.Mandibular Premolars.J Dent Res Dent Clin Dent Prospects. 2015 Fall;9(4):221-5.

26.Frough Reyhani M, Ghasemi N, Shakouie S, Rahimi S, Salem Milani A, Ranjbar B. Effects of Chlorhexidine and Sodium Hypochlorite on the Setting Time of Calcium-Enriched Mixture Cement. Iran Endod J 2015;10:162-4.

27.Shakouie S, Salem Milani A, Eskandarnejad M, Rahimi S, **Froughreyhani M**, Galedar S, RanjbarE.Antimicrobial activity of tetraacetythylenediamine-sodium perborate versus sodium hypochlorite against Enterococcus faecalis.J Dent Res Dent Clin Dent Prospects. 2016 Winter;10(1):43-7.

28.Forough Reyhani M, Ghasemi N, Rahimi S, Milani AS, OmraniE.Effect of Different Endodontic Sealers on the Push-out Bond Strength of Fiber Posts.IranEndod J. 2016 Spring;11(2):119-123.

29.Ghasemi N, Forough Reyhani M, Salem Milani A, Mokhtari H, Khoshmanzar F. Effect of Calcium Hydroxide on the Push-out Bond Strength of

Endodontic Biomaterials in Simulated Furcation Perforations. Iran Endod J. 2016;11(2):91-5

30.MAHSA ESKANDARINEZHAD, VAHIDEH ASGHARI, MARYAM JANANI, **MOHAMMAD FROUGH REIHANI**, SAEED RAHIMI, MEHRDAD LOTFI.EVALUATION OF THE EFFECTS OF TRIPHALA ON DENTIN MICRO-HARDNESS AS IRRIGATION SOLUTIONS. Jour. of Ayurveda & Holistic Medicine(58-65)Volume-III, Issue-VI

31.SalemMilani A, **Froughreyhani M**, Mohammadi H, Tabegh FG, Pournaghiazar F. The effect of temporary restorative materials on fracture resistance of endodontically treated teeth. Gen Dent 2016;64:e1-e4.

32.Milani AS, Zand V, Abdollahi AA, **Froughreyhani M**, Zakeri-Milani P, Jafarabadi MA. Effect of Topical Anesthesia with Lidocaine-prilocaine (EMLA) Cream and Local Pressure on Pain during Infiltration Injection for Maxillary Canines: A Randomized Double-blind clinical trial. J Contemp DentPract 2016;17:592-6.

33.Negin Ghasemi, Saeed Rahimi, ShahriarShahi, Mohammad Samiei, **Mohammad Frough Reyhani**, Bahram Ranjkesh.A Review on Root Anatomy and Canal Configuration of the Maxillary Second Molars. Iran Endod J. 2017 Winter; 12(1): 1–9.

34.Hadi Mokhtari, Sara Jafarizadeh, Hamid Reza MokhtariZonouzi, MehrdadLotfi, Mohammad Forough Reyhani, Aydin Sohrabi.Bond Strength of White Mineral Trioxide Aggregate with and without Disodium Hydrogen

Phosphate with Different Liquid-to-Powder Ratios. Iran Endod J. 2017 Summer; 12(3): 293–297.

35.Saeed Rahimi, HadiMokhtari, Bahram Ranjkesh, Masoomeh Johari, **Mohammad FroughReyhani**,ShahriarShahi , SinaSeif Reyhani Prevalence of Extra Roots in Permanent Mandibular FirstMolars in Iranian Population: A CBCT Analysis. Iranian Endodontic Journal 2017;12(1):70-73.

36.Vahid Zand, HadiMokhtari, **Mohammad-Frough Reyhani**, NedaNahavandizadeh, ShahramAzimi .Smear layer removal evaluation of different protocol of Bio Race file and XP- endo Finisher file in corporation with EDTA 17% and NaOCl. J ClinExp Dent. 2017 Nov; 9(11): e1310–e1314

37.Reyhani MF, Ghasemi N, Zand V, Mosavizadeh S. Effects of Different Powder to liquid Ratios on the Push out Bond Strength of CEM Cement on Simulated Perforations in the Furcal Area.J ClinExp Dent. 2017 Jun 1;9(6):e785-e788.

38.Shakouie S, Shahi S, Samiei M, Milani AS, **Reyhani MF**, Paksefat S, Eskandarinekhad M, Ghasemi N .Effects of different intra canal medicaments on the push out bond strength of endodontic sealers.JClinExp Dent. 2017 Mar 1;9(3):e443-e447.

39.Amin Salem Milani, ,**Mohammad Froughreyhani**, , Saeed Rahimi,, VahidZand, and Mohammad AsghariJafarabadi, Volume of Anesthetic Agents and IANB Success: ASystematic Review. AnesthProg 65:16–23 2018

40.Amin Salem Milani, AlirezaBanifateme, **Mohammad Forough Reyhani**, Saeed Rahimi, and VahidZand. The Effect of Using Propylene Glycol as a Vehicle on the Flexural Strength of Mineral Trioxide Aggregate. Int J Clin Dent 2018;10:307.

41.Froughreyhani M, Salemmilani A, Mozafari A, Hosein-Soroush M. Effect of electric currents on antibacterial effect of chlorhexidine against Entrococcusfaecalis biofilm: An in vitro study. J ClinExp Dent. 2018;10(12):e1223-9.

42.Mohammad Frough Reyhani, VahidZand, Maryam Janani, NeginGhasemi, Shahryar Mirzazad, MahnazAhrabi, Zahra Sajjad.Effect Of Different Powder To Liquid Ratios On The Setting Time Of Mineral Trioxide Aggregate. International Journal of Scientific Research and Innovative Technology.2020;7(3):50-56

خلاصه مقالات ارائه شده:

1. Rahimi S, Pourabbas R, Shahi S, **Frough Reyhani M.**, " Basic Principles for Forced Eruption"(The 8th Annual and 1st International congress of the Iranian Academy of Periodontology, Kish Island, Iran, December 4-6, 2008).
- 2-**Frough Reyhani M**, Lotfi M, Rahimi S," Vertical root fractures in endodontically treated teeth: diagnostic signs and clinical management"(The 8th Annual and 1st International congress of the Iranian Academy of Periodontology, Kish Island, Iran, December 4-6, 2008).
3. Zand V, Lotfi M, **Reyhani MF**, Salem Milani A, Mokhtari H. The role of antibiotics in preventing healing complications after traumatic dental injuries. Presented at the 12th international congress of Iranian association of endodontists. Tehran, 2009.
4. Mokhtari H, Lotfi M, **Reyhani MF**, Esmaili F, Niknami M. Application of dental CT in endodontics. Presented at the 1st international congress of Iranian association of oral and maxillofacial radiology. Tehran, 2009
5. **Reyhani MF**, Mokhtari H, Esmaili F. Radiologic features of apical periodontitis. Presented at the 1st international congress of Iranian association of oral and maxillofacial radiology. Tehran, 2009.
6. **Reyhani MF**, Rahimi S, Zand V, Mokhtari H. Repair of pulpal injury by dental materials. Presented at the 12th international congress of Iranian association of endodontists. Tehran, 2009.
7. Mokhtari H, Lotfi M, Shahi S, Rahimi S, Shakouie S, **Reyhani MF**. The potential role of stem cell to regenerate immature permanent teeth. Presented at the 8th international congress of Iranian association of pediatric dentistry. Tehran, 2009.
8. Rahimi S, Shahi S, **Reyhani MF**, Mokhtari H. New concepts in endodontic treatment of traumatic dental injuries. Presented at the 12th international congress of Iranian association of endodontists. Tehran, 2009.

9.**Reyhani MF**, Rahimi S, Mokhtari H, Zand V, Shakouie S. Repair of pulpal injury by dental materials. Presented at the 9th congress of Iranian academy of cosmetic & restorative dentistry. Tehran, 2009.

10.**Reyhani MF**, Mokhtari H. Diagnosis and treatment of cracked tooth. Presented at the 5th congress of Iranian general dentists association. Tehran, 2011.

11.Mokhtari H, Rahimi S, Rikhtegaran S, **Reyhani MF**. Direct pulp capping with MTA. Presented at the 11th congress of Iranian academy of restorative dentistry. Tehran, 2011.

12.**Reyhani MF**, Mokhtari H. Importance of coronal seal after root canal therapy. Presented at the 11th congress of Iranian academy of restorative dentistry. Tehran, 2011.

13.Mokhtari H, **Reyhani MF**. GTR (Guided Tissue Regeneration) in periradicular surgery. Presented at the 6th congress of Iranian general dentists association. Tehran, 2012.

14.Mokhtari H, Zand V, **Reyhani MF**. Application of laser in endodontic surgery: *in vitro study*. Presented at the 15th Annual congress of Iranian Association of Endodontists (IAE). Hamedan, 2012.

15.**Reyhani MF**, Mokhtari H, Eskandarnejad M, Salemmilani A. Immediate implants following tooth extraction. A systemic review. Presented at the 15th Annual congress of Iranian Association of Endodontists (IAE). Hamedan, 2012.

16.**Reyhani MF**, Mokhtari H, Salemmilani A. Effect of irrigating solutions in endodontic therapy. Presented at the 15th Annual congress of Iranian Association of Endodontists (IAE). Hamedan, 2012.

17- **Frough Reyhani M**, charehjoo,"comparison of micro leakage withthree different thicknesses of mineral trioxide aggregate as a root-endfilling material" (14th international annual congress of endodontists, Shiraz, Iran, 2011).

18 -**Frough Reyhani M.**, Rahimi S., Khayyam L., “effect of calcium hydroxidedressing micro leakage of composite restorations in endodonticallytreated teeth subsequent to bleaching” (5th Annual congress, IADR-Iraniandivision, Tehran, Iran, December 30-31, 2010).

19..**Frough Reyhani Mohammad**, ZandVahid,” Laser Application inApicectomy” (2nd Seminar on Application laser in Dentistry ShahidBeheshtiUniversity of Medical Sciences, Tehran, Iran, October 19-21, 2011).

20.. **Frough Reyhani Mohammad**, ShakoieSahar,”Application of DifferentLasers in Root Canal Sterilization” (2nd Seminar on Application laser inDentistry ShahidBeheshti University of Medical Sciences, Tehran, Iran,October 19-21, 2011).

21. **Frough Reyhani M.**, Eskandarinejad M.,” Hepatitis G virus: relevance tooral health care” (4th international Tehran Hepatitis Congress, Tehran, Iran,November 23-25, 2011).

22..**Frough Reyhani M.**, Eskandarinejad M.,” Transmission of virus by saliva?” (4th international Tehran Hepatitis Congress, November 23-25, 2011).

23. M. Eskandarinezhad, H.Sadrhaghighi, **Frough Reyhani M.**, IntracanalIrrigant (MTAD) on Elimination of Enterococcus 6th Annual meeting of the IADR Iranian Division, Tehran, Iran, December 29-30,2011).

24- Shakouie Sahar, **Frough Reyhani Mohammad**, “Root Canal Complications –Failure Rat” (6th Congress of Iranian General DentistsAssociation, Tehran, Iran, January 11-13, 2012, p: 56).

25- **Frough Reyhani Mohammad**, MokhtariHadi, MahsaEskandarinezhad“Properties and applications of calcium hydroxide in endodontics anddental traumatology” (6th Congress of Iranian General Dentists Association,Tehran, Iran, January 11-13, 2012, p: 62).

26- **Frough Reyhani Mohammad**, Rahimi Saeed, “Stem cell therapy – Hypeorhope : a review” (6th Congress of Iranian General Dentists Tehran, Iran, January 11-13, 2012, p: 63).

27.**MohammadFroughreyhani**, Amin Salem Milani. A review of factors influencing treatment planning decisions of single-tooth implants versus preserving natural teeth with non-surgical endodontic therapy. Presented at the 7th Congress of Iranian General Dentists association (IGDA). Tehran, Feb 2013.

28. Amin Salem Milani, **Mohammad Frough Reyhani**, Mir JafarSadjadiOskouie, Ahmad Pirzadeh Ashraf, Sahar Shakouie.

Biofilms in endodontic infections. Presented at the 53th International Congress of Iranian Dental Association. Tehran, May 2013.

29. Amin Salem Milani, **Mohammad Froughreyhani**, Saeed CharchiAghdam, FatemehPournaghiazar, Mohammad AsghariJafarabadi. Effect of Propylene Glycol (PG) on push out bond strength of Mineral Tioxide Aggregate (MTA). Presented at the 16th International Congress of Iranian Association of Endodontists. Isfahan-Iran, Aug 2014.

30. Amin Salem Milani, Saeed Rahimi, **Mohammad Froughreyhani**. “One- file endo” systems. Presented at the 55th International Congress of Iranian Dental Association. Tehran, May 2014.

31. Amin Salem Milani, Saeed Rahimi, **Mohammad Frough Reyhani**. The validity of systematic reviews to answer clinical questions. Presented at the Biennial congress of European society of endodontology congress. Vienna-Austria, Sep 2019.