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Primary dental degree: DDS, School of Dentistry, Tehran University of Medical Sciences, Tehran-Iran (1994).

Postgraduate:

M.Phil/Ph.D in Dental Materials, Department of Restorative Dentistry, School of Clinical Dentistry, University of Sheffield, United Kingdom (1999).

Faculty positions:

- Professor and Head of the Department of Dental Biomaterials, School of Dentistry, Tehran University of Medical Sciences, Tehran-Iran.
- Chief-in-editor of Journal of Dental Medicine (Tehran University of Medical Sciences)

Memberships:

International Association for Dental Research (IADR)
Academy of Dental Materials

- ◆ Research interest and publications mainly on Dental biomaterials, Silane coupling agents, Adhesive dentistry, Dental ceramics and bio-glasses, Implant coatings, Tissue engineering

Published International Journal Papers:

- 1) Keshvad A, Winstanely RB, **Hooshmand T**. Intercondylar width as a guide to setting up complete denture teeth. *Journal of Oral Rehabilitation* 2000 Mar; 27(3):217-26.
- 2) **Hooshmand T**, Daw R, van Noort R, Short RD. XPS analysis of the surface of leucite-reinforced feldspathic ceramics. *Dental Materials* 2001; 17:1-6.
- 3) **Hooshmand T**, van Noort R, Keshvad A. Bond durability of the resin-bonded and silane treated ceramic surface. *Dental Materials* 2002; 18:179-188.
- 4) **Hooshmand T**, van Noort R, Keshvad A. Storage effect of a pre-activated silane on the resin to ceramic bond. *Dental Materials* 2004; 20:635-642.
- 5) **Hooshmand T**, Keshvad A. Fracture toughness of Ideal Macoo composite and its comparison with standard ones. *Journal of Dental Medicine*, Tehran University of Medical Sciences 2005; 18(1):13-20.
- 6) Habibi M, Hosseinzadeh T, **Hooshmand T**. Comparison of debonding characteristics of metal and ceramic orthodontic brackets to enamel; an in vitro study. *American Journal of Orthodontics and Dentofacial Orthopedics* 2007; 132(5):675-9.
- 7) Moharamzadeh K, **Hooshmand T**, Keshvad A, Van Noort R. Fracture toughness of a ceramic-resin interface. *Dental Materials* 2008; 24(2):172-7.
- 8) **Hooshmand T**, Parvizi Sh, Keshvad A. Effect of surface acid etching on the biaxial flexural strength of two hot-pressed glass ceramics. *Journal of Prosthodontics* 2008; 17:415-419.
- 9) Hashem-Hoseini M · Mahmood-Hashemi H· Soltan-Moradi F· **Hooshmand T** · Haririan I · Chalipa J · Motahhary P. Effect of Fast Curing Lights, Argon Laser, and Plasma Arc on Bond Strengths of Orthodontic Brackets: An In Vitro Study. *Journal of Dentistry (Tehran University of Medical Sciences)* 2008;5(4):167-172.
- 10) Dorriz H, Alikhasi M, Mirfazaelian A, **Hooshmand T**. Effect of ferrule and bonding on the compressive fracture resistance of post and core restorations. *Journal of Contemporary Dental Practice* 2009;10(1):1-8.
- 11) Fakhri M, Seraj B, Shahrabi M, **Hooshmand T**, Motahhari P. Microleakage of composite restorations after saliva contamination in primary teeth using a self-etching adhesive. *Pediatric Dentistry* 2009;31(4):334-9.
- 12) **Hooshmand T**, Parvizi Sh, Keshvad A. Microhardness of a resin cement polymerized by light-emitting diode and halogen lights through ceramic. *Journal of Prosthodontics* 2009;18(5):411-6..
- 13) **Hooshmand T**, Keshvad A, van Noort R. XPS analysis of silane films on the surface of a dental ceramic. *Journal of Adhesion Science and Technology* 2009;23:1085-95.
- 14) Ahmad Akhoundi M, Rahmati Kamel M, **Hooshmand T**, Haririan I, Kharazi Fard M, Noroozi H. Assessment of bond strength between metal brackets and non-Glazed ceramic in different surface treatment methods. *Journal of Dentistry (Tehran University of Medical Sciences)* 2010;7(2):64-70.

- 15) Keshvad A, **Hooshmand T**, Asefzadeh F, Khalilinejad F, van Noort R. Marginal gap, internal fit, and fracture resistance of glass ceramic inlays fabricated by Cerec inLab and hot-pressed techniques. *Journal of Prosthodontics* 2011;20(7):535-540.
- 16) **Hooshmand T**, Mohajerfar M, Keshvad A, Motahhary P. Microleakage and marginal gap of adhesive cements for noble alloy full cast crowns. *Operative Dentistry* 2011;36(3):258-65.
- 17) **Hooshmand T**, Rostami G, Behroozibakhsh M, Fatemi M, Keshvad A, van Noort R. Interfacial fracture toughness of different resin cements bonded to a lithium disilicate glass ceramic. *Journal of Dentistry* 2012;40(2):139-45.
- 18) Baghalian A, Nakhjavani YB, **Hooshmand T**, Motahhary P, Bahramian H. Microleakage of Er:YAG laser and dental bur prepared cavities in primary teeth restored with different adhesive restorative materials. *Lasers in Medical Science* 2013;28(6):1453-60.
- 19) Pahlevan A, **Hooshmand T**, Mirzaie M, Safaie H. Contrast ratio of glazed and polished dental ceramics after accelerated aging. *Journal of Dental Medicine-Tehran University of Medical Sciences* 2013;26(1):19-26.
- 20) **Hooshmand T**, Tabari N, Keshvad A. Marginal leakage and microhardness evaluation of low-shrinkage resin-based restorative materials. *General Dentistry* 2013 Jan-Feb;61(1):46-50; quiz 51.
- 21) Abrishamchian A, **Hooshmand T**, Mohammadi M, Najafi F. Preparation and characterization of multi-walled carbon nanotube/hydroxyapatite nanocomposite film dip coated on Ti-6Al-4V by sol-gel method for biomedical applications: an in vitro study. *Materials Science Engineering C Materials for Biological Applications* 2013 May 1;33(4):2002-10.
- 22) Hosseinzadeh Nik T, **Hooshmand T**, Farazdaghi H, Mehrabi A, Razavi ES. Effect of chlorhexidine-containing prophylactic agent on the surface characterization and frictional resistance between orthodontic brackets and archwires: an in vitro study. *Progress in Orthodontics* 2013 Nov 20;14:48. doi: 10.1186/2196-1042-14-48.
- 23) **Hooshmand T**, Abrishamchian A, Najafi F, Mohammadi M, Najafi H, Tahriri M. Development of sol-gel-derived multi-wall carbon nanotube/hydroxyapatite nanocomposite powders for bone substitution. *Journal of Composite Materials* 2014 Feb;48:483-89.
- 24) Baghalian A, Ranjpour M, **Hooshmand T**, Herman NG, Ebrahimi A. Comparison of fracture resistance in post restorations in primary maxillary incisors. *European Journal of Paediatric Dentistry* 2014 Sep;15(3):313-6.
- 25) Shahabi S, Najafi F, Majdabadi A, **Hooshmand T**, Haghbin Nazarpak M, Karimi B, Fatemi SM. Effect of gamma irradiation on structural and biological properties of a PLGA-PEG-hydroxyapatite composite. *Scientific World Journal* 2014;2014:420616. doi: 10.1155/2014/420616. Epub 2014 Sep 8.
- 26) Bagheri H, **Hooshmand T**, Aghajani F. Effect of Ceramic Surface Treatments After Machine Grinding on the Biaxial Flexural Strength of Different CAD/CAM Dental Ceramics. *Journal of Dentistry (Tehran University of Medical Sciences)* 2015 Sep;12(9):621-9.

- 27) Mahmoodi N, **Hooshmand T**, Heidari S, Khoshro K. Effect of sandblasting, silica coating, and laser treatment on the microtensile bond strength of a dental zirconia ceramic to resin cements. *Lasers in Medical Science* 2016 Feb;31(2):205-11.
- 28) Aghajani F, **Hooshmand T**, Khanmohammadi M, Khanjani S, Edalatkhah H, Zarnani AH, Kazemnejad S. Comparative Immunophenotypic Characteristics, Proliferative Features, and Osteogenic Differentiation of Stem Cells Isolated from Human Permanent and Deciduous Teeth with Bone Marrow. *Molecular Biotechnology* 2016 Jun;58(6):415-27.
- 29) Heravi F, Omidkhoda M, Koohestanian N, **Hooshmand T**, Bagheri H, Ghaffari N. Retentive Strength of Orthodontic Bands Cemented with Amorphous Calcium Phosphate-Modified Glass Ionomer Cement: An In-Vitro Study. *Journal of Dentistry (Tehran)*. 2017 Jan;14(1):13-20.
- 30) Ghavami-Lahiji M, **Hooshmand T**. Analytical methods for the measurement of polymerization kinetics and stresses of dental resin-based composites: A review. *Dental Research Journal (Isfahan)*. 2017 Jul-Aug;14(4):225-240. Review.
- 31) Omidkhoda M, Heravi F, Gharaei Sh, Rangrazi A, **Hooshmand T**. Incorporation of amorphous calcium phosphate (ACP) into glass monomer cement: influence on microleakage of cemented orthodontic bands. *Biomedical Research* 2017; 28(2):616-619.
- 32) Geramy A, **Hooshmand T**, Etezadi T. Effect of sodium fluoride mouthwash on the frictional resistance of orthodontic wires. *Journal of Dentistry (Tehran)* 2017; 14(5):254-258.
- 33) Hosseinzadeh Nik T, **Hooshmand T**, Farhadifard H. 1. Effect of different types of toothpaste on the frictional resistance between orthodontic stainless steel brackets and wires. *Journal of Dentistry (Tehran)* 2017; 14(5):275-281.
- 34) Koohkan R, **Hooshmand T**, Tahriri M, Mohebbi-Kalhari D. Synthesis, characterization and in vitro bioactivity of mesoporous copper silicate bioactive glasses. *Ceramics International* 2018; 44(2): 2390-2399.
- 35) Aghajani F, Kazemnejad S, **Hooshmand T**, Ghaempanah Z, Zarnani, A.H. Evaluation of immunophenotyping, proliferation and osteogenic differentiation potential of SSEA-4 positive stem cells derived from pulp of deciduous teeth. *Archives of Oral Biology* 2018, 96, pp. 201–207
- 36) Koohkan R, **Hooshmand T**, Mohebbi-Kalhari D, Tahriri M, Marefati M.T. Synthesis, Characterization, and in Vitro Biological Evaluation of Copper-Containing Magnetic Bioactive Glasses for Hyperthermia in Bone Defect Treatment. *ACS Biomaterials Science and Engineering* 2018, 4(5), pp. 1797–1811
- 37) Marefati MT, Hadian AM, **Hooshmand T**, Eftekhari Yekta B, Koohkan R. Wettability of zirconia by feldspathic veneer in dental restorations: Effect of firing atmosphere and surface roughness. *Ceramics International* 2018; 44(4): 4307-4312.
- 38) Pedram P, **Hooshmand T**, Heidari S. Effect of different cavity lining techniques on marginal sealing of Class II resin composite restorations; in vitro. *International Journal of Periodontics & Restorative Dentistry* 2018, 38(6), pp. 895–901.

- 39) Koohkan R, **Hooshmand T**, Mohebbi-Kalhari D, Tahriri M, Marefati MT. Synthesis, characterization, and in vitro biological evaluation of copper-containing magnetic bioactive glasses for hyperthermia in bone defect treatment. *ACS Biomaterials Science and Engineering* 2018; 4(5), pp. 1797–1811.
- 40) Heidari S, **Hooshmand T**, Eftekhari Yekta B, Tarlani A, Tahriri M. Effect of addition of titanium on structural, mechanical and biological properties of 45S5 glass-ceramic. *Ceramics International* 2018, 44(10), pp. 11682–11692.
- 41) Mohajerfar M, Nadizadeh K, **Hooshmand T**, ...Neshandar Asli H, Sabour S. Coronal Microleakage of Teeth Restored with Cast Posts and Cores Cemented with Four Different Luting Agents after Thermocycling. *Journal of Prosthodontics* 2019, 28(1), pp. e332–e336.
- 42) Hosseinzadeh Nik T, Ghadirian H, **Hooshmand T**, Kharrazi fard MJ, Nasiri M, Javaheri Mahd M. Effect of 0.05% Sodium Fluoride Mouthwash on Surface Roughness and Friction Between Ceramic Brackets and Rhodium-Coated and Uncoated Stainless Steel Wires. *Frontiers in Dentistry* 2019, 4-30.
- 43) Keshvad M.A, **Hooshmand T**, Behroozibakhsh M, Davaei S. Interfacial fracture toughness of self-adhesive and conventional flowable composites to dentin using different dentin pretreatments. *Journal of Investigative and Clinical Dentistry* 2019, 10(3), pp. e12414.
- 44) Pirmoradian M, **Hooshmand T**, Jafari-Semnani S, Fadavi F. Degree of conversion and microhardness of bulk-fill dental composites polymerized by LED and QTH light curing units. *Journal of Oral Biosciences* 2020, 62(1), pp. 107–113.
- 45) Tanbakuchi B, **Hooshmand T**, Kharazifard MJ, Shekofteh K, Hesam Arefi A. Shear Bond Strength of Molar Tubes to Enamel Using an Orthodontic Resin-Modified Glass Ionomer Cement Modified with Amorphous Calcium Phosphate. *Frontiers in Dentistry* 2020, 1-13.
- 46) Emadian Razavi ES, Hosseinzadeh Nik T, **Hooshmand T**, Farazdaghi H, Hesam Arefi A. Surface characterization and frictional force between stainless steel brackets and archwires in orthodontic patients using chlorhexidine and Persica-containing mouthrinses: A randomized controlled trial. *Dental Research Journal (Isfahan)* 2021, DOI:10.4103/1735-3327.313116.
- 47) Davaie S, **Hooshmand T**, Ansarifard S. Different types of bioceramics as dental pulp capping materials: A systematic review. *Ceramics International* 2021, 47(15), pp. 20768-20780.

مقالات مجلات داخلی:

۱) **تبسم هوشمند**، علیرضا کشواد، کیوان محرم زاده. Fracture toughness. مجله دندانپزشکی دانشگاه علوم پزشکی تهران. دوره ۱۷، شماره ۲، سال ۱۳۸۳، صفحه ۲۵-۱۴.

۲) **تبسم هوشمند**، علیرضا کشواد. اندازه گیری Fracture toughness کامپوزیت ایده آل ماکو و مقایسه آن با مواد مشابه خارجی. مجله دندانپزشکی دانشگاه علوم پزشکی تهران. دوره ۱۸، شماره ۲، سال ۱۳۸۴، صفحه ۲۰-۱۳.

۳) ایوب پهلوان - **تبسم هوشمند** - منصوره میرزایی - هدی صفایی. میزان نسبت کنتراست سرامیکهای گلیر شده و پالیش شده پس از Accelerated aging. مجله دندانپزشکی دانشگاه علوم پزشکی تهران- دوره ۲۶- شماره ۱.

۴) محمدعلی کشواد- **تبسم هوشمند**. بررسی راهکارهای نظری و بالینی موجود برای کاهش Marginal Leakage در ترمیمهای مواد رزین کامپوزیتی : مقاله مروری. مجله دندانپزشکی دانشگاه علوم پزشکی تهران- دوره ۲۹- شماره ۲

۵) فاطمه انصافی - **تبسم هوشمند** - مریم پیرمرادیان. ارزیابی استحکام باند ریزکشی ترمیمهای رزین کامپوزیتی Repair شده با تکنیکهای متفاوت آماده سازی سطحی: یک مطالعه آزمایشگاهی. مجله دندانپزشکی دانشگاه علوم پزشکی تهران- دوره ۳۲- شماره ۱

Books:

Pirmoradian M, **Hooshmand T**. Remineralization and antibacterial capabilities of resin-based dental nanocomposites. Applications of Nanocomposite Materials in Dentistry, Elsevier 2018, pp. 237–269.

تبسم هوشمند- طاهره سادات جعفرزاده کاشی- آرزو قهاری و مبانی و اصول مواد دندانی. انتشارات رویان پژوه ۱۳۹۲.

طاهره سادات جعفرزاده کاشی - فهیمه سادات طباطبایی- **تبسم هوشمند**- کتاب ملی مواد دندانی. انتشارات جهاد دانشگاهی ۱۳۹۴.

