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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:**

Associate Professor, Department of Dental Biomaterials, School of Dentistry, Tehran University of Medical Sciences, Tehran-Iran.

**Memberships:**

International Association for Dental Research (IADR)

British Society for Dental Research (BSDR)

International Dental Materials Society

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

## Published 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**, Farzadaghi 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.

## Conferences and Presentations:

### A) Oral presentations:

1. **Hooshmand T.** Materials selection in restorative dentistry. First Conference of Iranian Society of Prosthodontists 2000, Shahid Beheshti University, Tehran-Iran.
2. **Hooshmand T.** Fundamentals of selecting esthetic restorative materials. First Conference of Shahed School of Dentistry 2001, Milad Hospital, Tehran-Iran.
3. **Hooshmand T**, Moharamzadeh K, van Noort R, Keshvad A, Haririan E. Fracture toughness of a resin-ceramic interface. *Journal of Dental Research* 2003; Vol. 82, Special issue B, P. 170 (abstract No. 1267). Presentation at the 81<sup>th</sup> general session of the International Association for Dental Research, June 2003 Gothenburg, Sweden.
4. Keshvad A, **Hooshmand T**, Nilchian F. A comparison of tensile bond strength of five luting cements in full veneer crown restorations. *Journal of Dental Research* 2003; Vol. 82, Special issue B, P. 319 (abstract No. 2470). Presentation at the 81<sup>th</sup> general session of the International Association for Dental Research, June 2003 Gothenburg, Sweden.
5. **Hooshmand T.** Ceramic repair systems, Materials and Techniques. Eleventh International Conference of Iranian Dental Association 2004. Ejlal Saran Conference Center, Tehran-Iran.
6. **Hooshmand T.** New bonding systems; Materials and Applications in dentistry. Forth International Conference of Iranian Society of Prosthodontists 2004, Razi Conference Center, Tehran-Iran.
7. **Hooshmand T.** New ceramic systems: Materials, techniques, and their applications in dentistry. International Conference of Iranian Dental Association 2006, Ejlal Saran Conference Center, Tehran-Iran.
8. **Hooshmand T**, Parvizi Sh, Keshvad A. Effect of Surface Acid Etching on the Strength of Glass-ceramics. European Prosthodontics Association, October 2006, London, England.
9. **Hooshmand T.** Microhardness evaluation of resin-based luting cements through ceramic. Presentation at the first Iranian Congress on Biomaterials, November 2007, Tehran, Iran.
10. **Hooshmand T**, Mohajerfar M, Keshvad A. Microleakage and Marginal Gap of Adhesive Cements for Full-cast Crowns. Presentation at the PEF of the International Association for Dental Research, September 2008, London, England.
11. **Hooshmand T**, Matinlinna JP, Keshvad A, Zamani F, and Eskandarion S. Microtensile bond strength of ceramic to resin using different silanes. Presentation at the annual meeting of the International Association for Dental Research, March 2011, San Diego, USA.

12. Keshvad A, **Hooshmand T**, Rostami G. Interfacial fracture toughness of different resin cements bonded to ceramic. Presentation at the annual meeting of the International Association for Dental Research, March 2011, San Diego, USA.
13. **Hooshmand T**. Adhesive resin cements for all-ceramic systems. Iranian General Dental Practitioners Association (IGDA) Conference, January 2012, Olympic Hotel Conference Center, Tehran-Iran.
14. **Hooshmand T**. All-ceramic systems: Materials, techniques, and applications. International Conference of Iranian Dental Association, April 2012, Milad Convention Center, Tehran-Iran.
15. **Hooshmand T**. Recent advances in ceramic materials and their applications as biomaterials. October 2012, 4th National congress of Iranian Dental Association Fars Division. Shiraz-Iran.
16. **Hooshmand T**. Criteria selection for cementing ceramic restorations. December 2012, First Iranian dental biomaterials congress. Tehran-Iran.

## **B) Poster Presentations**

- 1) **Hooshmand T**, van Noort R, Keshvad A, Shareef MY. Effect of silane application on the ceramic/resin interface. *Journal of Dental Research* 1997; Vol 76, Special issue, P. 69 (abstract No. 446). Presentation at the 75<sup>th</sup> general session of the International Association for Dental Research, March 1997, Orlando, Florida, USA.
- 2) Keshvad A, Winstanley RB, **Hooshmand T**. Evaluation of point centric vs. centric area by comparing centric relation techniques. *Journal of Dental Research* 1997; Vol. 76, Special issue, P. 308 (abstract No. 2356). Presentation at the 75<sup>th</sup> annual meeting of the International Association of Dental Research, March 1997, Orlando, Florida, USA.
- 3) Keshvad A, Winstanley RB, **Hooshmand T**. Use of condylar vertical axis measurement in the positioning of denture teeth. *Journal of Dental Research* 1997; Vol. 76(5), P. 1081 (abstract No. 501). Presentation at the 45<sup>th</sup> annual meeting of the British Society for Dental Research, April 1997 University of Sussex, England.
- 4) **Hooshmand T**, van Noort R, Keshvad A. Hydrolytic stability of silane treated ceramic surface. Presentation after European Conference on Dental Materials, Biennial meeting, 4-5 Sep. 1997, University of Sheffield, Sheffield, England. (not published).
- 5) **Hooshmand T**, van Noort R, Keshvad A. Bond durability of silane treated ceramic surface to resin *Journal of Dental Research*, 1998; Vol. 77, Special issue A, P. 235. (abstract No. 1033). Presentation at the 27<sup>th</sup> annual meeting of the American Association for Dental Research, March 1998, Minneapolis, USA.

- 6) Keshvad A, Winstanley RB, **Hooshmand T**. The repeatability of mandibular positioning centric relation records. *Journal of Dental Research* 1998; Vol.77, Special issue A, P. 201 (abstract No. 768). Presentation at the 27<sup>th</sup> annual meeting of the American Association for Dental Research, March 1998, Minneapolis, USA.
- 7) **Hooshmand T**, Daw R, van Noort R, Short RD. Surface analysis of leucite-reinforced feldspathic ceramics using XPS. *Journal of Dental Research* 1998; Vol 77, Special issue B, P. 655 (abstract No 186). Presentation at the 76<sup>th</sup> general session of the International Association for Dental Research, June 1998, Nice, France.
- 8) **Hooshmand T**, Daw R, van Noort R, Short RD. Surface analysis of silane treated ceramic surface using XPS. *Journal of Dental Research* 1998; Vol 77, Special issue B, P. 678 (abstract No 371). Presentation at the 76<sup>th</sup> general session of the International Association for Dental Research, June 1998, Nice, France.
- 9) **Hooshmand T**, van Noort R, Keshvad A. Characterisation of a pre-activated silane solution using FT-IR. *Journal of Dental Research* 1999; Vol 78, Special issue, P. 487 (abstract No. 3049). Presentation at the 77<sup>th</sup> general session of the International Association for Dental Research, March 1999, Vancouver, Canada.
- 10) Keshvad A, Winstanley RB, **Hooshmand T**. Influence of silane concentration on the tensile bond strength of ceramic to resin. *Journal of Dental Research* 1999; Vol.78, Special issue, P. 547 (abstract No. 3535). Presentation at the 77<sup>th</sup> general session of the International Association for Dental Research, March 1999, Vancouver, Canada.
- 11) **Hooshmand T**, van Noort R. Storage effect of a pre-activated silane on the resin/ceramic bond. *Journal of Dental Research* 1999; Vol.78(5), P. 1073 (abstract No. 311). Presentation at the 47<sup>th</sup> annual meeting of the British Society for Dental Research, April 1999, Leeds, England.
- 12) **Hooshmand T**, Nasr N, Keshvad A, Haririan E. Fracture resistance of light-activated restorative materials. *Journal of Dental Research* 2004;83 (Spec Issue B): abstract No. 516. Presentation at the CED/NOF/ID of the International Association for Dental Research, August 2004 Istanbul, Turkey.
- 13) Keshvad A, Shahrokhi Rad A, Haji Miragha H, **Hooshmand T**. Assessment of occlusal splint therapy and selective grinding on TMD. *Journal of Dental Research* 2004;83 (Spec Issue B): abstract No. 240. Presentation at the CED/NOF/ID of the International Association for Dental Research, August 2004 Istanbul, Turkey.
- 14) **Hooshmand T**, Nasr N, Keshvad A, Haririan E. Biaxial flexural strength of light-activated restorative materials. *Journal of Dental Research* 2005;84 (Spec Issue B): abstract No. 344. Presentation at the CED of the International Association for Dental Research, 2005 Amsterdam, Holland.
- 15) Keshvad A, Shahab S, Shahbakhsh M, **Hooshmand T**. Radiographic changes in temporomandibular joint in patients with rheumatoid arthritis. *Journal of Dental Research* 2005;84 (Spec Issue B): abstract No. 24. Presentation at the CED of the International Association for Dental Research, 2005 Amsterdam, Holland.

16) Keshvad A, **Hooshmand T**. Marginal adaptation and fracture resistance of hot-pressed and CAD/CAM inlays. European Prosthodontics Association, October 2006, London, England.

17) **Hooshmand T**, Mahmoodi N, Keshvad A. Curing efficiency of LED and QTH light units through ceramic. Presentation at the CED of the International Association for Dental Research, 2007 Thessaloniki, Greece.

18) Keshvad A, **Hooshmand T**. Stimulating bone growth around intra-oral implants with crestal bone loss. Presentation at the PEF of the International Association for Dental Research, September 2008 London, England.

19) **Hooshmand T**, Tabari N, Keshvad A. Marginal Leakage of Silorane, Ormocer, and Dimethacrylate-based Composites. Presentation at the 57<sup>th</sup> annual meeting of the British Society for Dental Research, September 2009, Glasgow, Scotland.

20) Keshvad A, **Hooshmand T**, Keshvad M, Makaremi A. Microhardness Assessment of Different Novel Resin-based Restorative Materials. Presentation at the 57<sup>th</sup> annual meeting of the British Society for Dental Research, September 2009, Glasgow, Scotland.