

## ***Curriculum Vita***

**Sima Shahabi**

### **Personal Details**

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### **Education Background**

1985-1991: D.D.S. from Faculty of Dentistry, University of Medical Sciences of Isfahan, Iran

1993-1997: PhD in Dental Materials from School of Dentistry, The University of Queensland, Brisbane, Australia

PhD thesis title: Laser Etching for the Bonding of Resin Composite to Human Enamel and Dentine.

### **Work experience**

1.5 years as a dentist in Sadougi Hospital.

6 months as a dentist in Jihad Clinic.

6 months as a dentist in Imam Mohammad Bagher Clinic.

2 years as a dentist in Ghaedi Specialist Clinic.

8 years as an assistant professor at university.

### **Previous and Current Employment and Duties**

#### ***Current faculty positions:***

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

- 2010- now: Deputy of scholar and cultural of School of Dentistry, Tehran University of Medical Sciences

- 2006-now: Deputy of Department of Dental Materials, School of Dentistry, Tehran University of Medical Sciences

- 2009-now: Deputy of Research of Laser Research Center of Dentistry (LRCD) of Tehran University of Medical Sciences
- 2003-now: Part-time Research member of Research Centre for Science and Technology In Medicine (RCSTIM)

***Previous faculty positions:***

- 2004-2007: Research member of Dental Research Centre of the School of Dentistry of Tehran University of Medical Sciences
- First of 2006-now: Member of Laser Department, School of Dentistry of Tehran University of Medical Sciences
- 2005-now: Member of IT of Dental Materials Department, School of Dentistry of Tehran University of Medical Sciences
- 2002-2005: Editorial member of Journal of Dentistry of Tehran University of Medical Sciences, Iran
- 1998-2001: 3 years as Assistant Professor in Dental Materials in the School of Dentistry of Isfahan University of Medical Sciences, Iran
- 1998-2001: 3 years as a Lecturer in Department of Prosthodontic in School of Dentistry of Isfahan University of Medical Sciences, Iran
- 2000-2001: 1 year as Deputy of Student Affairs in the School of Dentistry of Isfahan University of Medical Sciences, Iran
- 1999-2001: Head of intelligent Student Group of the School of Dentistry of Isfahan University of Medical Sciences, Iran

**Journal Papers**

- 1- Saber K, Chiniforush N, **Shahabi S**. The effect of low level laser therapy on pain reduction after third molar surgery. *Minerva Stomatol.* 2012 Jul-Aug;61(7-8):319-22.
- 2- **S Shahabi**, N Chiniforush, H Bahramian, A Monzavi, A Baghalian, MJ Kharazifard. The effect of erbium family laser on tensile bond strength of composite to dentin in comparison with conventional method. *Lasers in medical science*; 2012 Apr 11. [Epub ahead of print].

- 3- Azam sadat Madani, Pedram A0nsari Astaneh, **Sima Shahabi**, Mohammad Reza Nakhaei, Hossein Bagheri G & Nasim Chiniforush. Influence of different power outputs of intraoral Nd:YAG laser on shear bond strength of a resin cement to nickel-chromium dental alloy. *Lasers in medical science*; Published online: 17 May 2012.
- 4- M Ghandehari, Gh Mighani, **S Shahabi**, N Chiniforush, Z Shirmohamadi. Comparative of microleakage of glass ionomer restoration in primary teeth prepared by Er:YAG laser and conventional method. *Journal of Dentistry of Tehran University of Medical Sciences*; 9 (3); 2012.
- 5- Nasim Chiniforush, Abas Kamali, **Sima Shahabi**, Seid Hossein Bassir. Leukoplakia Removal by CO2 Laser, a case report. *Journal of lasers in medical sciences*; 3 (1): 33-35, 2012; case report.
- 6- Hanieh Nokhbatolfoghahaie, Nasim Chiniforush, **Sima Shahabi**, Abbas Monzavi. SEM evaluation of tooth surface irradiated by different parameters of Er:YAG laser. *Journal of lasers in medical sciences*; Vol.3, No.2, Spring 2012; 51-55.
- 7- **Shahabi S**, Bagheri HG, Ramazani K. Tensile bond strength of Er:YAG laser-etching compared to acid-etching of sealants in permanent teeth. *Lasers in Medical Science*. 2012 Mar;27(2):371-5. Epub 2011 Feb 19.
- 8- Sakine Nikzad, Abbase Azari, Mohamad Ehsan Khalil, Poya Aslani, **Sima Shahabi**. Effect of LASER irradiation on the shear bond strength of zirconia ceramic surface to dentin. *Journal of Dental Medicine-Tehran University of Medical Sciences* 2012;24(4):208-215.
- 9- S. Arami, **S Shahabi**, M Tabatabaei, E Morshedi, S Torabi. Comparative evaluation of microleakage in occlusal and cervical part of cavities prepared by Er:YAG laser and conventional method. *Laser Medicine Journal* 2011; Vol.8, N.1, Page: 12-17.
- 10- **Sima Shahabi**, Nasim Chiniforush, Reza Fekrazad, Saed Mostafa Fatemi. Comparison of tensile bond strength of composite to dentine in conventional

- or lased prepared-cavities(Er;Cr:YSGG). *Journal of Oral Laser Applications*. 2010; Vol.10, No.2/3, 107-111.
- 11- **Shahabi S**, Zendedel S. Atomic analysis and hardness measurement of the cavity prepared by laser. *Lasers in Medical Science*; 2010; 25(3): (379-383).
- 12- Ghahramani L, **Shahabi S**, Amirjan A, Fazel A. Comparison of bond strength of composite and acrylic teeth to heat-cured and auto-polymerized acrylic denture base. *Journal of Dental Medicine-Tehran University of Medical Sciences*, 2011, 23(4), 215-226.
- 13- Omati Shabestari GH, Haj Mir Agha H, **Shahabi S**, Bagherpor R. Fracture resistance of fiber-reinforced composite and zirconia all-ceramic systems for posterior partial dentures. *Journal of Dental Medicine*, Tehran University of Medical Sciences; Vol.22, No;4, Winter 2010; 179-185.
- 14- N Chiniforush, **S Shahabi**. Caries removal and cavity preparation by laser. *Tebe Sabz* 2010;1(2):31-32.
- 15- **Shahabi S**, Kharazifard MJ. Evaluation of Nd-YAG laser effect on the shear bond strength of composite to dentin. *The Journal of Oral Laser Applications*. 2009, Vol.9, No. 2/3: 117-121.
- 16- Monzavi A, Mir Mohammad Rezaei S, **Shahabi S**, Ameri N & Bahrami N. Evaluation of wear and bonding of 4types of acrylic teeth. *Journal of Iranian Prosthodontics association*; Summer 2009; 2(3):10-15.
- 17- Saeed Asgary, **Sima Shahabi**, Tahereh Jafarzadeh, Sara Amini & Sanam Kheirieh. The Properties of a New Endodontic Material. *Journal of Endodontics (JOE)*; August 2008; 34 (8): 990-993.
- 18- **Shahabi S**, Ebrahimpour L & Walsh LJ. Microleakage of composite resin restorations in cervical cavities prepared by Er;Cr:YSGG laser radiation. *Australian Dental Journal*; 2008; June; 53 (2): 172-175.
- 19- Farideh Geramipannah, Mahnaz Hatami & **Sima Shahabi**. Evaluation of Some of the Properties of Stellan QC-20 Acryl. *Research Journal of Biological Sciences*; 2008; 3 (7): 733-736.

- 20- Aminian R, Naderi SH, **Shahabi S** & Ghasemi A. In vitro Evaluation of Toothbrushing Abrasion by 4 Standard Toothbrushes. *Research Journal of Biological Sciences*; 2008; 3(6): 660-664.
- 21- **S Shahabi**, F Pesaran & MJ Kharazifard. Abrasive Properties of Three Different Toothpastes. *Journal of Dentistry*, Tehran University of Medical Sciences, 2008; 5(1): 7-11.
- 22- Dr. Malekafzali B, **Dr. Shahabi S.**, Dr. Rezaei F., Dr. Kharrazi-Fard MJ. Assessing the abrasive ability of three different domestic pediatric toothpastes. *Journal of Islamic Dental Association of Iran*. 2009; 20 (4) :316-323.
- 23- **S. Shahabi**, S. Nasouhian & AA. Bina. Evaluation and comparison of the flow of five modelling waxes according to ADA specifications. *The Journal of Islamic Dental Association of IRAN*; 2006; 18(3):74-79.
- 24- A. Monzavi, GH Omati Shabestari, **S. Shahabi** & F. Hajloo. Evaluation of various characteristics of plastalgin alginate according to international ISO. *The Journal of Islamic Dental Association of IRAN*; 2006; 18(3):19-25.
- 25- **S. Shahabi** & H. Fadavi. An evaluation on the bonding strength of three types of Iranian denture teeth with denture acrylic base as compared with Ivoclar. *The Journal of Islamic Dental Association of IRAN*; 2005; 16(4):44-53.
- 26- **S. Shahabi** & A. Hedayati Zafarghandi. Evaluation of the flow of Harvard, Kemdent, Kerr and Pishro compounds based on no.3 ADA standard. *The Journal of Islamic Dental Association of IRAN*; 2005; 17(1):7-13.
- 27- Aminzadeh A, **Shahabi S** & Walsh LJ. FT Raman spectroscopic studies of Nd:YAG laser irradiated human dental enamel." *IR.J.Chem and Chem. Eng.*, 2002, 21(1): 44-46.
- 28- **Shahabi S** & Tehrani Sefat M. Evaluation of Zoliran physical properties according to ISO 3107, BS 7214 and EN 23107. *Journal of Dental Medicine*; 2004; 17(1):78-85.
- 29- Zamani Naser A, **Shahabi S** & Aminzadeh A. Lightening of dark radiographs by a super proportional reducing agent. *Research in Medical Sciences*; Autumn 2000; 5(3):234-238.

- 30- Aminzadeh A., **Shahabi S** & Walsh LJ. Raman spectroscopic studies of CO<sub>2</sub> laser-irradiated human dental enamel.” Spectrochimica Acta Part A 55; 1999: 1303-1308.
- 31- Khan F, Young WG, **Shahabi S** & Daley TJ: Dental Cervical lesions associated with occlusal erosion and attrition. Australian Dental Journal, 1999; 44(3), pp 176-186.
- 32- Arbabzadeh F, Gage JP, Young WG, **Shahabi S** & Swenson SM. Gap measurement and bond strength of five selected adhesive systems bonded to tooth structure..Australian Dental Journal; 1998, 43(3): 175-8.
- 33- **Shahabi S**, Brockhurst PJ & Walsh LJ. Effect of tooth-related factors on the shear bond strengths obtained with CO<sub>2</sub> laser conditioning of enamel. Australian Dental Journal, 1997; 42(2), pp 81-84.
- 34- **Shahabi S** & Walsh LJ. Effect of bonding agents on adhesion of composite resin following CO<sub>2</sub> laser etching of dental enamel. Journal of Clinical Laser Medicine & Surgery, 1996; 14(4), pp 169-173.

**Under reviewing papers**

- 1- **S Shahabi**, N Chiniforush, A Shariat, M.J Kharazifard. Comparison of shear bond strength of RMGI to enamel in conventional or laser treated teeth(Er:YAG). Australian Dental journal.
- 2- Kazem Saber, Nasim Chiniforush, and **Sima Shahabi**. The effect of low level laser therapy on pain reduction after third molar surgery. International Dental Journal
- 3- **S Shahabi**, N Chiniforush, H Bahramian. Comparison of tensile bond strength of composite in bur-cut and Er:YAG prepared-cavities. Laser in medical science.
- 4- Chiniforush N, **S Shahabi**, N Juybanpoor. Compositional & Morphological Changes Of Human Dentin After Er:YAG and CO<sub>2</sub> Laser Irradiation And Diamond Bur: An SEM Evaluation. Journal of Dentistry of Tehran University of Medical Sciences

- 5- S Arami, **S Shahabi**, M Tabatabaie, N Chiniforush, E Morshedi, S Torabi. Assessing microleakage of composite restorations in class V cavities prepared by Er:YAG laser irradiation or diamond bur. . Laser in Medical Science
- 6- N Chiniforush, S Arami, M Tabatabaie, **S Shahabi**, S M.SAlehi. The application of low level laser for treatment of Dentin hypersensitivity. Laser in Medical Science.
- 7- Arbabzadeh F , **Shahabi S**, Eskandarion S, Samimi P. Effect of 3-month water storage on the surface hardness of restorative glass ionomers.
- 8- Jafari A, **shahabi S**, Behroozibakhsh M, Jafarzade Kashi TS,Chavoshi i. Physical and Antimicrobial properties of Alginate Impression Material Mixed with Nanosilver Solution.

**Abstracts published in ISI Journals:**

1. **Shahabi S**, Chiniforush N, Fekrazad R. Comparison of tensile bond strength of composite to dentine in conventional or lased prepared cavities(Er;Cr:YSGG). Laser in Medical science 2010.
2. **Shahabi S**, Chiniforush N, Shariat A. Shear bond strength of RMGI to enamel prepared by Er:YAG laser. Laser in Medical science 2010.
3. **Shahabi S**, Chiniforush N. The application of Er:YAG laser for treatment of peri-implantiits. Laser in Medical science 2010.
4. N Chiniforush, **S shahabi**, S.H Bassir, M Johari. The application of low level laser for managing oral mucositis. 21st European students' conference, Volume 15, supplement 1, 13-17 October 2010, Page 37.
5. N Chiniforush, S Arami, M Tabatabaie, **S Shahabi**, S M.SAlehi. The application of low level laser for treatment of Dentin hypersensitivity. Laser in Medical Science; 2010.

**Conferences**

- 1- Nokhbatolfoghahaie H, Chiniforush N, **Shahabi S**. SEM Evaluation of tooth surface irradiated by different parameters of Er:YAG laser. *WFLD 2012 13th World Congress for laser dentistry*, 26-28, April 2012, Page 122
- 2- **Dr Sima Shahabi**, Dr Yashar Rezaei, Dr Hossein Bagheri. Scaffold design for bone tissue engineering. *The 52nd Annual International Congress of Iranian Dental Association*, 2012, Page 59.
- 3- **Dr Sima Shahabi**, Dr Yashar Rezaei, Dr Hossein Bagheri. Application of biodegradable hybrid scaffold in bone tissue engineering. *6<sup>th</sup> Congress of Iranian General Dentists Association*; 10-13 Jan 2012, Olympic Hotel, Tehran, IRAN, Page: 317.
- 4- Nokhbatolfoghahaie H, Johari M; **Shahabi S**; Chiniforush N, Ozon therapy application in endodontic treatments. *6<sup>th</sup> Congress of Iranian General Dentists Association*; 10-13 Jan 2012, Olympic Hotel, Tehran, IRAN, Page: 308.
- 5- N Chiniforush, S Arami, M Tabatabaie, **S Shahabi**, S M.SAlehi. The application of low level laser for treatment of Dentin hypersensitivity; 1 month follow. *6<sup>th</sup> Congress of Iranian General Dentists Association*; 10-13 Jan 2012, Olympic Hotel, Tehran, IRAN, Page: 297.
- 6- Nokhbatolfoghahaie H, **Shahabi S**; Monzavi A; Chiniforush N. Surface modification of dental implants by different lasers. *11<sup>th</sup> International Congress of IAP*, 4-6 Jan 2012, Olypic Hotel, Tehran, IRAN, Page 69.
- 7- Chiniforush N, Nokhbatolfoghahaie H, **Shahabi S**; Monzavi A; Laser Management of Tempromandibular Disorder. *11<sup>th</sup> International Congress of IAP*, 4-6 Jan 2012, Olypic Hotel, Tehran, IRAN, Page 70.
- 8- A. JAFARI, **S. SHAHABI**, N. CHAVOSHI, R. BAKHTIARI, M. TAVASSOLI, N. CHINIFOROUGH & M. VAHIDI. Qualitative Evaluation of Antimicrobial Activity of Alginate Containing Nano-Silver Particles. *The 6nd Annual Meeting of the IADR Iranian Division*, December 29-30, 2011, Shahid Beheshti University of Medical Sciences.



- 9- M. GHANDEHARI, G. MIGHANI, **S. SHAHABI**, N. CHINIFORUSH, and Z. SHIRMOHAMMADI. Assessing the Microleakage of Glass-Ionomer Restoration Prepared by Er:YAG Laser. *The 6nd Annual Meeting of the IADR Iranian Division*, December 29-30, 2011, Shahid Beheshti University of Medical Sciences.
- 10- HaniehJ Nokhbatolfoghahaie, **Sima Shahabi**; Monzavi Nasim Chiniforush, Surface modification of dental implants by different lasers. 6<sup>th</sup> Congress of Iranian Medical Laser Association, 28-29 December 2011; Olypic Hotel, Tehran, IRAN, Page 157.
- 11- N Chiniforush, S Arami, M Tabatabaie, **S Shahabi**, S M.SAlehi. The application of low level laser for treatment of Dentin hypersensitivity. III *WFLD-ED (European Congress)*, 9-11 June 2011, Rome, Italy.
- 12- Nasim Chiniforush, **Sima Shahabi**, Maryam Johari, Hanieh Nokhbatolfoghahaie. Low level laser therapy in orthodontics. *International Congress of Iranian Association of Orthodontists*, 18-20 May 2011, Mashhad, IRAN, Page 85.
- 13- HaniehJ Nokhbatolfoghahaie, Nasim Chiniforush, **Sima Shahabi**. Laser application for management of soft tissue injuries during orthodontics treatment, A review. *International Congress of Iranian Association of Orthodontists*, 18-20 May 2011, Mashhad, IRAN, Page 154.
- 14- M Johari, **S shahabi**, N Chiniforush, H Nokhbe. Laser and caries detection: new step in oral health promotion. *2th congress of oral Health and epidemiology*. 13-15 April 2011, Tehran, Iran, Page 13.
- 15- **S shahabi**. Laser, cavity preparation and caries removal. *2th congress of oral Health and epidemiology*. 13-15 April 2011, Tehran, Iran, Page 14.
- 16- N Chiniforush, **S Shahabi**, H Nokhbe, M Johari. Caries prevention: Laser floridetherapy. *2th congress of oral Health and epidemiology*. 13-15 April 2011, Tehran, Iran, Page 15.

- 17- H Nokhbe, **S Shahabi**, N Chiniforush, M Johari. The application of laser in fissure and sealant therapy. *2th congress of oral Health and epidemiology*. 13-15 April 2011, Tehran, Iran, Page 16.
- 18- Sayed Mostafa Fatemi, **S Shahabi**, Alireza Abrishamchian. Strategic for choosing material in evidence based dentistry. *2th congress of oral Health and epidemiology*. 13-15 April 2011, Tehran, Iran, Page 22.
- 19- N Chiniforush, A Monzavi & **S Shahabi**. The application of laser in treatment and managing peri-implantitis. *10th International Congress of Iranian Association of Prosthodontists*; Feb 9-11, 2011; Tehran, IRAN, Page 267.
- 20- Nasim chiniforoosh, **sima shahabi**, Seyed Hossein Basir. The effect of laser on fluoride uptake in enamel. *Laser in Medicine National Congress*, 16th-18th Feb 2011, Iranian Center for Medical Laser, Tehran, IRAN, Page 74.
- 21- Hanieh Nokheh-Al-Faghahaie, **Sima Shahabi**, Nasim chiniforoosh. The effect of low level laser on osseointegration of dental implants. *Laser in Medicine National Congress*, 16th- 18th Feb 2011, Iranian Centre for Medical Laser, Tehran, IRAN, Page 76.
- 22- N Chiniforush, S.H Bassir , **S Shahabi**. The Application of Photodynamic Therapy for Oral Fungal Infection. Laser Iran 2011, *Laser in medicine national congress*, 16-18 Feb 2011, Imam Khomeini hospital, Tehran, Iran, Page .
- 23- Nasim Chiniforush, **Sima Shahabi**. Evaluation of thermal changes cavity preparation by Er:YAG laser. *5th Congress of Iranian General Dentists Association*, 11-14 January 2011, Olympic Hotel, Tehran, IRAN, Page: 224.
- 24- **S Shahabi**, R Fekrazad, N Chiniforush. Tensile bond strength of composite to dentine in bur-cut, Er:YAG and Er;Cr:YSGG prepared-cavities. *5th IADR Congress Iranian Division*; December 30,31 2010.Tehran,Iran.

- 25- **S Shahabi**, N Chiniforush. The application of Laser Doppler Flowmetry in managing dental injuries. *Art and technology in modern dentistry up to 2020*. 17-19 November 2010, Shiraz, Iran.
- 26- **S Shahabi**, N Chiniforush, N Juybanpoor. Technology of laser in modern dentistry for caries removal: SEM evaluation. *Art and technology in modern dentistry up to 2020*. 17-19 November 2010, Shiraz, Iran.
- 27- Chiniforush N, **Shahabi S**, Johari M, Bassir S.H. The application of low level laser for managing oral mucositis. *21<sup>th</sup> European student congress*, 13-17 October 2010, Berlin, Germany, Page: 37.
- 28- H Bahraman, N Chiniforush, **S Shahabi**. Comparison of tensile bond strength of composite in bur-cut and Er:YAG prepared cavities. *Istanbul laser academy and academy of laser dentistry Italian study club*. 20-23 october 2010, Istanbul, Turkey.
- 29- **S Shahabi**, N Chiniforush, S.h Bassir, GH Hashemi. Comparative evaluation of surface preparation by laser irradiation. *Istanbul laser academy and academy of laser dentistry Italian study club*. 20-23 october 2010, Istanbul, Turkey.
- 30- M Johari, N Chiniforush, **S Shahabi**. Atomic analysis of the cavity floor prepared by high speed turbine or Er:Cr:YSGG laser. *Istanbul laser academy and academy of laser dentistry Italian study club*. 20-23 october 2010, Istanbul, Turkey.
- 31- **S Shahabi**, N Chiniforush. New Development in detection caries by laser fluorescence. *9th international congress of pediatric dentistry*. 14-16 July 2010, Teharn, Iran
- 32- **S Shahabi**, S Asefi, Kh Famili, M Allahdadi. Evaluation of diode laser characteristics in tooth bleaching. *The 1<sup>st</sup> Laser Seminar in Dentistry*, Gilan, Tehran, 17-19 June, 2010, Page 177.

- 33- Nasim Chiniforush, Hossein Basir, **Sima Shahabi**. The treatment of oral candidiasis with photodynamic therapy. *The 1st Laser Seminar in Dentistry*, Gilan, Tehran, 17-19 June, 2010, Page 175.
- 34- Dr **Sima Shahabi**, Khashayar Famili, Sohrab Asefi, Mahdi Allahdadi. Application of *lasers* in treatment of vascular lesions. *The 1<sup>st</sup> Laser Seminar in Dentistry*; Gilan, Tehran, 17-19 June, 2010, Page 126.
- 35- N Chiniforush, **S shahabi**, M Johari. The effect of low level laser therapy intraorally or extraorally for reduction of postoperative complications. *6th international congress of Iranian society of oral & maxillofacial surgeons*. 9-11 June 2010, Olympic hotel, Tehran, Iran.
- 36- M Johari, N Chiniforush, **S Shahabi**. The application of Er:YAG laser for surgical removal of impacted third molar. *6th international congress of Iranian society of oral & maxillofacial surgeons*. 9-11 June 2010, Olympic hotel, Tehran, Iran.
- 37- H Bahraman, N Chiniforush, **S Shahabi**. The bactericidal effect of laser on root canal infected by *Enterococcus faecalis*. *12th congress of Iranian dentistry students*. May 2010, Hamedan, Iran. Page: 125.
- 38- M Johari, N Chiniforush, **S Shahabi**. The application of photodynamic therapy in head and neck cancers. *12th congress of Iranian dentistry students*. May 2010, Hamedan, Iran. Page: 193.
- 39- **Shahabi S**, Chiniforush N, Fekrazad R. Comparison of tensile bond strength of composite to dentine in conventional or lased prepared cavities(Er;Cr:YSGG). *WFLD 2010*, Dubai, 9-11 March.
- 40- **Shahabi S**, Chiniforush N, Shariat A. Shear bond strength of RMGI to enamel prepared by Er:YAG laser. *WFLD 2010*, Dubai, 9-11 March.
- 41- **Shahabi S**, Chiniforush N. The application of Er:YAG laser for treatment of peri-implantitis. *WFLD 2010*, Dubai, 9-11 March.
- 42- **S Shahabi**, D Heshmati, Nasim Chiniforush, A Montazeri Lemraski. Treatment of oral mucocele "scalpel or CO<sub>2</sub> laser. *4th Congress of Association*

- of Oral Diseases*. 1st January 2010, School of Dentistry, Tehran, IRAN, Page: 73.
- 43- **Shahabi S**, Chiniforush N. The new method in recognizing tooth caries in pedodontics. *The seminar of child-dentist and oral health*; 2009, Rasht, IRAN
- 44- **Shahabi S**, Chiniforush N. The application of Er:YAG laser in scaling and root planning. *9th annual congress of Iranian academy of peridontology*. December 9-11, 2009, Olympic Hotel, Tehran, Iran.
- 45- **Shahabi S**, N Chiniforush, N Juybanpoor, A Sanasa. *The 9th Annual Congress of Iranian Academy of Periodontology*. 9-11 Dec, 2009, Olympic Hotel, Tehran, IRAN, Page: 97.
- 46- Nasrin Juybanpour, Nasim Chiniforush, **Sima Shahabi**. Comparative SEM evaluation of dentinal surfaces prepared by conventional bur and Er:YAG laser irradiation. *First Iranian Student Congress of Laser in Dentistry (ISCOLD)*. 2009, Tehran, Iran.
- 47- Heshmati D, **Shahabi S** Chiniforush N, N Juybanpoor. Diode laser-activated bleaching. *9th congress of Iranian academy of cosmetic and restorative dentistry*. November 11-13, 2009, Tehran, Iran, Page 210.
- 48- N Jooybanpour, **S Shahabi**, Z Janfeshan, N Chiniforush, D Heshmati. The successful methods of choosing color in Dentistry. *9th congress of Iranian academy of cosmetic and restorative dentistry*. November 11-13, 2009, Tehran, Iran, Page: 117-118.
- 49- **S Shahabi**, N Chiniforush, D Heshmati, N Juybanpoor. Evaluation the ability GaAlAs laser in treatment of dentin hypersensitivity. *9th congress of Iranian academy of cosmetic and restorative dentistry*. November 11-13,2009, Tehran, Iran.
- 50- N Chiniforush, **S Shahabi**, D Heshmati. The effect of CO<sub>2</sub> laser in treatment of oral Leukoplakia. 5<sup>th</sup> Congress of International Society for Oral Laser applications (SOLA)(10<sup>th</sup> Anniversary Meeting), October 22-25, 2009 in Vienna, Austria.

- 51- **S Shahabi**, D Heshmati, N Chiniforush, A Montazeri Lemraski. Dental laser safety. 5<sup>th</sup> Congress of International Society for Oral Laser applications (SOLA)(10<sup>th</sup> Anniversary Meeting), October 22-25, 2009 in Vienna, Austria.
- 52- **S Shahabi**, N Chiniforush. Low level laser therapy for treatment of temporomandibular disorders. 5<sup>th</sup> Congress of International Society for Oral Laser applications (SOLA)(10<sup>th</sup> Anniversary Meeting), October 22-25, 2009 in Vienna, Austria.
- 53- **Shahabi S**, Chiniforush N & Heshmati D. The clinical application of Er;Cr:YSGG laser in endodontics. *12th International Congress of Iranian Association of Endodontists*; 4th-7th August 2009; 235.
- 54- **Shahabi S**, Fadavi H, Chiniforush N & Heshmati D. The comparison of the bonding strength of three types of Iranian denture teeth with denture acrylic base as compared with Ivoclar. *10th Research Congress of the Students of IRAN University of Medical Sciences*, 2009 in Tehran, Iran.
- 55- Nasim Chiniforush, **Sima Shahabi**. Application of low-level lasers in dentistry. *11th Dental Student Congress*, QUMS, Qazvin May 2009.
- 56- **Shahabi S** & Zendedel K. Atomic analysis and hardness measurement of the cavity prepared by laser. World Federation for Laser Dentistry (WFLD); Hong Kong Congress, 28-30 July 2008.
- 57- **S SHAHABI**, T JAFARZADEH, S ASGARY. Physical properties of mineral trioxide aggregate and a new endodontic material. *The 2nd IADR Iranian Section General Meeting*. December 6,7th 2007 Iran Center for Dental Research Shahid Beheshti University.
- 58- Monzavi A, Mirmohammadrezaei S, **Shahabi S**, Ameri N, Bahrami N. Evaluation of wear and bonding of 4 types of acrylic teeth. *Biomaterials Iran's 1st International Conference*, Nov 12-15, 2007; Biomaterials Research Center (BRC), L.44, Page 62.
- 59- Malekafzali B, **Shahabi S** & Rezaei F. Comparison evaluation of abrasivity of pedodontic toothpastes: Kam, Pooneh, Darugar and Oral B. *Proceedings of 47th Annual Congress of Iranian Dental Association*; 2007, 12-15 June.

- 60- Nematollahzadeh A, Ramazani A & **Shahabi S**. Consideration of mechanical properties of long fiber reinforced composite for dental prostheses. *9th Iranian Chemical Engineering Congress*; Iran University of Science and Technology, 2004; 23-25 Nov.
- 61- Nematollahzadeh A, Ramazani SA & **Shahabi S**. Impact strength of denture polymethylmethacrylate reinforced with a modified continuous glass fiber. PPS-21; P9.20.
- 62- **Shahabi S.**, Ghorbani & Badie J.R. Comparison of tensile bond strength between Ideal Makoo, Z100 and Coltene composites. American Dental Education Association (ADEA), *Second International Women's Leadership Conference*. Goteborg, Sweden, June 20-23, 2003.
- 63- **Shahabi S**, Ghorbani & Badie J.R. Comparison of tensile bond strength between Ideal Makoo, Z100 and Coltene composites. *Proceedings of 41th Annual Congress of Iranian Dental Association*; 2001, 17-20 April, 426.
- 64- **Shahabi S** & Nikzad. Evaluation of retention of stainless steel crown using zinc phosphate, zincpolycarboxylate and glasses ionomer cements. *Proceedings of 41<sup>th</sup> Annual and 8<sup>th</sup> International Congress of Iranian Dental Association and 6<sup>th</sup> International*; 2001, 17-20 April, 428.
- 65- **Shahabi S** & Walsh LJ. Bonding agents' effects on bonding of composite to enamel after enamel laser etching. *Proceedings of 39<sup>th</sup> Annual and 6<sup>th</sup> International Congress of Iranian Dental Association and 6<sup>th</sup> International*; 1999, 12-15 April
- 66- Khan F, Young WG & **Shahabi S**. Associates with occlusal erosion or attrition The University of Queensland, Astralia/School of dentistry, *Research day*, 8th August, 1997, p. 9.
- 67- **Shahabi S**, Brockhurst PJ & Walsh LJ. Variables affecting the shear bond strengths obtained with CO2 laser conditioning of enamel." The University of Queensland, Dental School, *Proceedings of Fifth Annual Research Day*, 23Rd August, 1996, p. 21.
- 68- **Shahabi S**, Walsh LJ & Brockhurst PJ. Modification of human enamel by pulsed carbon dioxide laser radiation. The University of Queensland, Dental

School, *Proceedings of Fourth Annual Research Day*, 25th August, 1995, p. 22.

### **Books**

- 1- Lasers in dentistry, under press.
- 2- Dental Materials, under press.
- 3- Introduction to Biomaterials. By members of biomaterials research center; Univ of Tehran & Tehran Uni of Medical Sciences. 1<sup>th</sup> edition; 2007; Chap 16.

### **Workshops**

**Shahabi S.** Waxes and Acrylics in Dentistry. Biomaterials e-Workshop; Biomaterials Research Center (BRC), University of Tehran, IRAN; 3-17 June 2006, 5<sup>th</sup> day.

### **Graduated students (supervised students)**

**37 thesis of undergraduate and postgraduate that I haven't mentioned their names.**

#### **A) Direct Supervision:**

1. Microleakage of composite resin restorations in cervical cavities prepared by Er;Cr:YSGG laser radiation. Student: Leila Ebrahimpour.
2. A. In vitro Evaluation of Toothbrushing Abrasion by 4 Standard Toothbrushes. Student: Shiler Naderi
3. Atomic analysis and hardness measurement of the cavity prepared by laser. Student: Zendedel.
4. Evaluation of Zoliran physical properties according to ISO 3107, BS 7214 and EN 23107. Student: Tehrani Sefat.



5. Comparison of compressive strength and setting time of Zonalin and Zoliran using equipment according to standard No.2602 in vitro. 2001-2002. Student: Safavi H.
6. Hedayati Zafarghandi A. Comparison evaluation of flow of Kerr, Kement, Harvard and Pishro according to ADA standard. 2001-2002. Student: Hedayati Zafarghandi A.
7. Comparison evaluation of flow of Azardent, Pars, Crystal, Asia wax with Dental modeling wax detry (Dentsply). 2001-2002. Student: Nosohian S & Bina A.
8. Evaluation of effects of on stress affected in patients referred to endodontic department of school of Dentistry of Isfahan University of Medical Sciences. 2001-2002. Student: Adibi M.
9. Evaluation of patients satisfactory referred to school of dentistry of Isfahan University of Medical Sciences in 1999-2000. 2000-2001. Student: Molaei M.
10. Comparison of thermal changes of temporary resins like Acropars, Protemp and Tempron during setting.
11. Comparison of tensile strength of Ideal-Makoo composite (IDM) with Z100 and Coltene composites.
12. The whitening of dark radiographs with reducer.
13. Evaluation of the retention of SS crown using zinc phosphate, zinc polycarboxylate and glass ionomer cements.

**Consulting and Advisory activities**

- 1- Nilchian F. A comparison of tensile bond strength of five luting cements in full veneer crown restorations. (2002).
- 2- Habibi M. Tensile bond strength of orthodontic ceramic and metal brackets to tooth and evaluation enamel cracks after debonding. (2004).
- 3- Khalilinejad P. Marginal gap of new ceramic systems in preparation of ceramic inlays. (2006).
- 4- Rahmati Kamel M. Comparison of bond strength of orthodontic metal brackets to ceramic using three different surface treatments. (2005).
- 5- Mahmood Hashemi H. Effect of fact-curing of laser-argon and plasma lights on the bond strength of orthodontic brackets in comparison to halogen lights. (2005).

### **Research Grants and Projects:**

#### **2011:**

1. Application Of Nd/YAG Laser Micro-Welding in Joining Gold Alloy Wire
2. Synthesis of 3D functionalized biodegradable composite scaffolds and evaluation of the effects of LLLT on the differentiation and of stem cells to osteoblasts on them
3. Comparison of Microleakage of Glass Ionomer Restoration in Cavities Prepared by Er:YAG Laser Irradiation in Primary Molar Teeth

#### **2010:**

1. Combination effect of air abrasion and laser on shear bond strength of composite to dentin
2. Assessing microleakage of composite restorations in class V cavities prepared by Er:YAG laser radiation and diamond bur
3. Evaluation of the permeability of dentin tubules in tooth cavity prepared by Er:YAG laser or bur

4. Evaluation of the recurrency of dental caries in tooth cavity prepared by laser or bur

**2009:**

1. influence of laser irradiation distance on the bond strength of a restoration system on enamel and dentin
2. Comparison of tensile bond strength of composite to dentin in conventional or lased prepared cavities(Er:YAG)
3. comparative study of morphological tooth surface (SEM) by bur,co2 and Er:YAG laser

**2008:**

- 1- Comparison of tensile bond strength of composite in conventional or lased prepared cavities (Er;Cr:YSGG).
- 2- Fracture resistance of FRC and all-ceramic restorative system for posterior applications
- 3- Stimulatory effects of low level laser (LLL) on primary and secondary phases of bone fracture repair in rabbits during closed reduction
4. Atomic analysis and knoop hardness measurement of the cavity floor prepared by Er, Cr:YSGG laser
5. Microleakage of resin composite restorations in cervical cavities prepared by Er;Cr:YSGG laser radiation
6. Evaluaion of Nd-YAG laser effect on the shear bond strength of composite to dentin
7. Evaluation of abrasivity of 2 tooth pastes : paveh&darugar2 using profilometer
8. Lightening of dark radiographs by a super proportional reducing agent
9. Evaluation of wear and bonding of 4 types of acrylic teeth
10. An evaluation on the bonding strength of three types of Iranian denture teeth with denture acrylic base as compared with Ivoclar

**Participated workshops**

- 1- Laser application in dental hard tissue. Fotona Company, Vienna, Austria, 2010.
- 2- Laser application in Dentistry, Fotona Company, School of Dentistry, Tehran University of Medical Sciences, 2010.

- 3- Laser application in periodontics, School of Dentistry, Tehran University of Medical Sciences. Dr.Fekrazad.2009.
- 4- Laser application in Oral Medicine, School of Dentistry, Tehran University of Medical Sciences. Dr.Kamali.2008.
- 5- Theory education of laser in dentistry, School of Dentistry, Tehran University of Medical Sciences. Dr.Majdabadi- Dr.Fekrazad: 2007.
- 6- Theory education of laser in dentistry, School of Dentistry, Tehran University of Medical Sciences. Dr.Kamali- Dr.Shirani- Dr.KAlhori: 2007.
- 7- Clinical applications of laser in dentistry, School of Dentistry, Tehran University of Medical Sciences. Dr.Kamali, 2007.

Fields of research interest

- 1- Lasers in Dentistry
- 2- Testing of dental material characteristics