



CV (Curriculum Vitae)

Name: Reza

Family: Birang

Date of birth: 03-30-1958

Appointment: Professor

Institute: Isfahan University of Medical Sciences

School: School of Dentistry

Department: Periodontics

work address: Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Hezar jerib St., Isfahan, Iran

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Education

(Most recent Date ,Degree/
Course, Department / University,
Dissertation title)

2011-Professor of Periodontics and fellowship of implant dentistry -
Isfahan University of Medical Sciences

2022-comparison of bone regeneration rabbit calvaria defects
following the use of two different xenografts with a barrier
membrane: A histological ,histomorphometric ,and micro-computed
tomography study

Relevant Work Experience

1983- at present -Torabinejad -Reserach center -Isfahan university
of medical sciences

(Date, Title, University / Organization, Description)	
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Research

Experience (Date, Title, University / Organization, Description)

2023-Comparison of shear bond strength of rebonded stainless steel brackets with three different enamel surface conditioning methods--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2022-Efficacy of Socket-Shield Technique on Tissue Stability of Immediate Implant Placement: A Systematic Review with Meta-Analysis and Trial Sequential Analysis -Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2022-Effect of Propolis mouthwash on clinical periodontal parameters in patients with gingivitis: A double-blinded randomized clinical trial--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2022-Comparison of antimicrobial effect of several decontaminating methods on contaminated Titanium discs--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2022-Evaluation of the effects of 980 and 810-nm high-level diode lasers in treating dentin hypersensitivity: A double-blinded randomized clinical trial--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2021-Evaluation of Microleakage in Resin Composites Bonded to an Er: YAG Laser and Bur-Prepared Root and Coronal Dentin Using Different Bonding Agents Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2020-Comparative Evaluation of Temperature Changes of Titanium Discs with SLA Surface after Irradiation with 980-nm and 810-nm Diode and Er: YAG Laser Beams--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2020-Evaluation of the effects of 660-nm and 810-nm low-level diode lasers on the treatment of dentin hypersensitivity--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2020-Comparative evaluation of the effects of CO2 and Er: YAG lasers on smear layer removal and blood cell attachment to tooth root surfaces--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2019-Retro MTA and tricalcium phosphate/retro MTA for guided tissue regeneration of periodontal dehiscence defects in a dog model: a pilot study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2019-Effectiveness of buccal pouch grafting in minimizing loss of alveolar dimension: A canine investigation--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2019-Effect of virtual reality during periodontal treatment of patients with anxiety--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2019-Investigation of the antibacterial effect of laser irradiation and chemical agent on human oral biofilms contaminated titanium discs--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2019-Antibacterial effect of chemical agent and laser irradiation on human oral biofilms contaminated titanium discs--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2019-Comparative study of periodontal clinical indexes after oral administration with Propolis and placebo in patients with gingivitis--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2018-Evaluation of the effects of Nd: YAG laser compared to scaling and root planing alone on clinical periodontal parameters--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2018-Thermal changes of root surface of anterior primary teeth in Pulpectomy with Er: YAG laser--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2018-Evaluation of pre-operative anxiety effect on inhalation sedation with nitrous oxide in periodontal surgery--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2018-Effects of Er: YAG, 980 nm and 810 nm Diode Lasers Irradiation on Biocompatibility of SLA Titanium Disks Using SaOs2 Cells Morphology--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2017-Effect of short-term steroid use (Prednisolone) on bone healing around implants: An experimental study on dogs--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2017-The effect of Er: YAG laser on *Enterococcus faecalis* bacterium in the pulpectomy of anterior primary teeth--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2017-Evaluation of effectiveness of photodynamic therapy with low-level diode laser in nonsurgical treatment of peri-implantitis--Department of

Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2016-Comparison of Er: YAG laser and ultrasonic scaler in the treatment of moderate chronic periodontitis: a randomized clinical trial--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2016-Evaluation of the effects of two different bone resorption inhibitors on osteoclast numbers and activity: An animal study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2016-Histological evaluation of wound healing process after photodynamic therapy of rat oral mucosal ulcer--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2016-Effect of Different Powers of ND: YAG Laser on Static Friction of Monocrystalline Ceramic Brackets--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

بررسی مقایسه‌ای میزان برداشت لایه‌ی اسمیر از سطح ریشه‌ی دندان به دنبال کاربرد دو نوع به منظور آماده‌سازی سطح ریشه با استفاده از میکروسکوپ Er: YAG و CO2 لیزر الکترونی--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran -**2016**

2015-Comparative evaluation of smear layer removal from the root surface following the use of CO2 and Er: YAG lasers for root conditioning using scanning electron microscopy--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2015-Root surface roughness after scaling and root planing with Er: YAG laser compared to hand and ultrasonic instruments by profilometry--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2015-CO 2 lasers to destroy defiance of nanobacteria--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2015-Effect of Nd: YAG laser on the apical seal after root-end resection and MTA retrofill: a bacterial leakage study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2015-Effect of nonsurgical periodontal treatment combined with diode laser or photodynamic therapy on chronic periodontitis: a randomized controlled split-mouth clinical trial--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2015- A histomorphometric study of the effect of doxycycline and erythromycin on bone formation in dental alveolar socket of rat--

Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2015-A tumor DNA complex aberration index is an independent predictor of survival in breast and ovarian cancer--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2015-Effect of Nd: YAG laser irradiation on the number of open dentinal tubules and their diameter with and without smear of graphite: an in vitro study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2014-Shear bond strength of resin composite bonded with two adhesives: Influence of Er: YAG laser irradiation distance--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2014-Socket preservation using demineralized freeze-dried bone allograft with and without plasma rich in growth factor: A canine study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2014-Shear bond strength of orthodontic brackets after acid-etched and erbium-doped yttrium aluminum garnet laser-etched--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2014-SUCCESS CRITERIA FOR IMPLANT INSERTION USING FRESH SOCKET METHOD--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2014-Smear layer removal in the apical third of root canals by two chelating agents and laser: a comparative in vitro study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2014-Effect of bracket bonding with Er: YAG laser on nanomechanical properties of enamel--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2013-Assessment of the effect of diode laser therapy on incisional wound healing and expression of iNOS and eNOS on rat oral tissue--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2013-Comparison of the efficacy of maleic acid, ethylenediaminetetraacetic acid (EDTA) and phosphoric acid in removing the smear layer from the root canal: A scanning electron ...--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2013-Desensitizing efficacy of foam containing potassium nitrate 5% and toothpaste containing strontium acetate in dentin hypersensitivity: An eight-

week clinical study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

میزان اثر بخشی اتیلن دی آمین تتراستیک اسید، اسید مالنیک و اسید فسفریک در برداشت لایه
بررسی میکروسکوپ الکترونی--اسمیر:--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2013-A comparative study on micro hardness and structural changes of dentin floor cavity prepared by Er: YAG laser irradiation and mechanical bur--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2013-Assessment of microleakage of class V composite resin restoration following Erbium-Doped Yttrium Aluminum Garnet (Er: YAG) laser conditioning and acid etching with two ...--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2013-Expression levels of th-2 and th-17 characteristic genes in healthy tissue versus periodontitis--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Effect of enamel matrix derivative on bone formation around intraosseous titanium implant: An experimental study in canine model--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Histological and histomorphometric analysis of animal experimental dehiscence defect treated with three bio absorbable GTR collagen membrane--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Immediate placement of implants in tooth extraction sockets in the presence of periapical lesions with or without Er: YAG laser irradiation--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Adhesion to Er: YAG laser and bur prepared root and crown dentine--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Evaluation of shear bond strength of orthodontic brackets bonded with Er-YAG laser etching--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-In vitro study of microleakage of different techniques of surface preparation used in pits and fissures- Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-The effect of an enamel matrix derivative (Emdogain) combined with bone ceramic on bone formation in mandibular defects: A histomorphometric and immunohistochemical study in ...--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Clinical evaluation of the efficacy of neodymium-doped yttrium aluminium garnet (Nd: YAG) laser therapy and Sensikin® in treatment of dentine hypersensitivity--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Removal of Smear Layer by Two Endodontic Irrigation Solutions and Erbium: Yttrium, Aluminum, Garnet (Er: YAG) Laser. A Scanning Electron Microscope (SEM) Study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Graphite application and different powers of neodymium-doped Yttrium Aluminium Garnet (Nd: YAG) laser on dentin surface changes: a scanning electron microscopy study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-A comparative study of the removal of smear layer by two endodontic irrigants and Nd: YAG Laser: a scanning electron microscopic study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2012-Effect of plasma-rich in platelet-derived growth factors on peri-implant bone healing: An experimental study in canines--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-The Effects of Diode Laser (980 nm Wavelength) and Chlorhexidin Gel in the Treatment of Chronic Periodontitis--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-Effect of xanthan-based CHLO-SITE chlorhexidine gel with scaling and root planing on the treatment of periodontitis--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-Effect of Er: YAG laser on dentin adhesion of self-etch and total-etch bonding systems in two coronal and radicular sections--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-Genotoxicity and cytotoxicity of nano Hydroxyapatite and Algipore Hydroxyapatite in periodontal fibroblasts cells--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-Evaluation of residual calculi after scaling and root planing in patients with moderate-to-severe periodontitis--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-Comparative evaluation of the efficacy of three toothbrush designs on Bass plaque control technique--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-Relationship between bone mineral density, resonance frequency and insertion torque--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

Resonance Frequency و Insertion torque بررسی ارتباط بین دانسیته استخوان،
Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran -**2011**

بر چسبندگی عاجی سیستم‌های باندینگ سلف اچ و توتال اچ در دو Er: YAG بررسی اثر لیزر بر چسبندگی عاجی سیستم‌های باندینگ سلف اچ و توتال اچ در دو Er: YAG
Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran -**2011**

بررسی مقایسه‌ای سمیت ژنی و سمیت سلولی نانوهیدروکسی آپاتیت ساخت ایران و هیدروکسی آپاتیت
Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran -
2011

در کنترل Pulsar و Cross-action، Classic بررسی مقایسه‌ای کارایی سه نوع مسواک
Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran -
2011

2011-Evaluation of the implant-bone interface integration using PRGF in the dog jaw--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-Investigation of peri-implant bone healing using autologous plasma rich in growth factors in the canine mandible after 12 weeks: a pilot study--
Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2011-Knowledge, Attitude and Practice of Physicians and Pediatricians Regarding the Prevention of Oral Disease in Isfahan. --Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2010-Knowledge, attitude and practice of physicians and pediatricians regarding the prevention of oral disease in children--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2010-Evaluation of awareness of dentists about their professional and occupational rules and laws in Isfahan city--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2010-Oral & Dental hygienic products--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2010-SEM evaluation of root surface roughness following scaling using Er: YAG, ultrasonic, and hand instruments--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2010-Developing a new dental implant design and comparing its biomechanical features with four designs--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2010-Comparative evaluation of IFN γ , IL4 and IL17 cytokines in healthy gingiva and moderate to advanced chronic periodontitis--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2008-Comparison of Nd: YAG laser and "Seal & protect" sealant on dentin microhardness--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2008-Evaluation of Nd: YAG laser on partial oxygen saturation of pulpal blood in anterior hypersensitive teeth--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2008-Evaluation of need to pulse oximetry monitoring during inhalation sedation for periodontal treatments--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2008-Quintessence Publishing: Journals: OBM--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2008-Comparative Study of Dentin Surface Changes Following Nd: Yag and Er: Yag Lasers Irradiation and Implication for Hypersensitivity. -- Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2007-The Clinical and Microbial Evaluation of Nd: YAG Laser in Periodontal Pocket Healing. --Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2007-Comparative evaluation of the effects of Nd: YAG and Er: YAG laser in dentin hypersensitivity treatment--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2007-Comparative Evaluation Effectiveness of Er: YAG Lazer, Manual and Ultrasonic Devises in SRP of the Root Surfaces with SEM Method-- Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2007-EVALUATION OF MEDICAL EMERGENCY PREVALENCE IN DENTAL OFFICES OF ISFAHAN--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2007-Clinical efficacy of Nysastan Screw Implant Systems in the mandibular posterior regions: A prospective 2-year study--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2007-Comparative study of CBC, CRP and coagulation factors as the possible risk factors of cardio vascular diseases in patients with gingivitis in comparison with the control group--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2006-Treatment of periimplantitis with an Er: YAG Laser and GBR A case report--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2006-Nd: YAG and Er: YAG Laser Application to Remove Oral Lesions of Lipoid Proteinosis. --Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2006-The effect of education by visual media on oral health promotion of students--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2006-THE CLINICAL AND MICROBIOLOGICAL EVALUATION OF 100 MICRO-SECOND PULSED ND: YAG LASER IRRADIATION EFFECTS ON PERIO-DONTAL POCKET HEALING AFTER SCALING AND ROOT PLANNING--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2006-Comparative evaluation of dentine surface changes following Nd: Yag laser irradiation by SEM--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

2005-Isfahan dentists' readiness for medical emergencies: their knowledge and access to necessary equipments--Department of Periodontics, School of Dentistry, Isfahan University of Medical Sciences, Isfahan, Iran

Research Interests

(Research area)

Presentations & Poster Sessions
(Bibliographic format)

- Text book of community dead story
- Behavior management in periodontics
- Research and applied statistics in oral and dental health
- Dentistry in pregnant women
- Text book tooth pastes and mouth washes
- Drug therapy in periodontics and plant treatments