

Curriculum Vitae

Shayan Barootchi

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Place and date of Birth: Tehran, Iran, 8/19/1992

EDUCATION & ADVANCED TRAINING

University of Michigan, Ann Arbor, MI

Certificate in Periodontics

Anticipated date June 2022

July 2019 – June 2022

University of Michigan, Ann Arbor, MI

Master of Science in Periodontics

May 2022 – June 2022

University of Michigan, Ann Arbor, MI

Post-Doctoral Periodontics Preceptor Program

September 2017 – July 2019

Philippine Society of Periodontology, Manila, Philippines

Periodontics Clinical and Didactic Workshop

June 2016 - October 2016

University of the East, College of Dentistry, Manila, Philippines

Doctor of Dental Medicine (D.M.D.)

June 2012 - April 2016

University of the East, College of Dentistry, Manila, Philippines

Associate in Arts (A.A.) in Pre-Dentistry

June 2010 - May 2012

FACULTY ACADEMIC APPOINTMENT

Department of Periodontics & Oral Medicine, University of Michigan

Clinical Assistant Professor and Research Fellow

July 2022 – Present

MAJOR ADMINISTRATIVE LEADERSHIP POSITIONS

Co-director and responsible for the seminars "Current literature #793"

Department of Periodontics & Oral Medicine, University of Michigan, Ann Arbor

July 2022 – Present

Co-director and responsible for course "#789, #889, #989 Practice Management"

(Including Oral Pathology, Pharmacology, with a focus on Periodontal and Implant surgeries)

Department of Periodontics & Oral Medicine, University of Michigan, Ann Arbor

July 2022 – Present

Course director "Research Methodology & Evidence Synthesis"

Department of Periodontics & Oral Medicine, University of Michigan, Ann Arbor

July 2022 – Present

HONORS & PROFESSIONAL AWARDS

Hom-Lay Wang Fellowship Award

\$5000 Award given to individual seeking to become an educator in the field of periodontology and implantology who has shown "Major accomplishments in scholarly activities, and has the most thorough understanding of scientific literature"

Department of Periodontics & Oral Medicine, University of Michigan

Single recipient

August 2022

<p>The American Academy of Periodontology Foundation Schoor Research Award Primary author of award-winning manuscript entitled: "Soft tissue phenotype modification predicts gingival margin long-term (10-year) stability: Longitudinal analysis of six randomized clinical trials". Phoenix, Arizona</p>	<p>July 2022</p>
<p>Sigmund P. Ramfjord Award for Excellence In recognition of dedication and outstanding performance during graduate training This award, which also includes a monetary portion, is presented to one resident, at the end of the residency training. Department of Periodontics & Oral Medicine, University of Michigan Single recipient</p>	<p>June 2022</p>
<p>Charles E. English Award The award of \$3500 is given for the most significant clinical research published in the International Journal of Oral Implantology (IJOI) for the year of 2021, for manuscript entitled: "Zucchelli G, Tavelli L, Stefanini M, Barootchi S, Wang HL. Coronally advanced flap revisited: Treatment of peri-implant soft tissue dehiscences. Int J Oral Implantol (Berl). 2021 Nov 2;14(4):351-365." Single (study team) recipient</p>	<p>June 2022</p>
<p>First place at the 2022 Midwest Society of Periodontology Graduate Student Research Forum Project entitled: "recombinant human Platelet-Derived Growth Factor-Soaked Xenogeneic Collagen Matrix versus Placebo for the treatment of Multiple Adjacent Gingival Recessions: A triple-blinded, randomized, placebo-controlled trial" Mid-west society of Periodontology annual meeting. Chicago, Illinois</p>	<p>February 2022</p>
<p>Best Clinical Innovations Presentation and award Project entitled: "Ultrasonographic Tissue Perfusion in Peri-implant Health and Disease" Academy of Osseointegration annual meeting. San Diego, California Single recipient</p>	<p>February 2022</p>
<p>Outstanding Graduate Student Clinical Case Award Michigan Periodontal Association For presentation of the "Best soft tissue grafting/esthetic case" Single recipient</p>	<p>January 2022</p>
<p>American Academy of Periodontology Balint Orban Clinical Research Award Project entitled: "recombinant human Platelet-Derived Growth Factor-Soaked Xenogeneic Collagen Matrix versus Placebo for the treatment of Multiple Adjacent Gingival Recessions: A triple-blinded, randomized, placebo-controlled trial" Single recipient</p>	<p>November 2021</p>
<p>Henry Goldman Clinical Research Award From the Italian Society of Periodontology (SIdP) In recognition of the best clinical research project for: "recombinant human Platelet-Derived Growth Factor-Soaked Xenogeneic Collagen Matrix versus Placebo for the treatment of Multiple Adjacent Gingival Recessions: A triple-blinded, randomized, placebo-controlled trial" (Project presented by a coworker) Single (study team) recipient</p>	<p>September 2021</p>

<p>First prize at the 2020 Lynch Biologics Resident in Regeneration Case Challenge This annual competition is judged by three expert referees in Periodontology, and awards, among 5 finalists, the best clinical presentation of a case of comprehensive regenerative treatment.</p>	<p>July 2021</p>
<p>Benson Duff Endowed Graduate Periodontics Memorial Scholarship This fellowship awards \$5000 to a second-year resident who has demonstrated great accomplishments, appreciation of science, shown great rapport with patients, strong academic performance, is an all-around student and has the potential to spread the Michigan Program globally.</p>	<p>May 2021</p>
<p>American Academy of Periodontology Balint Orban Clinical Research Award Project entitled: “Envelope coronally advanced flap vs tunnel technique for the treatment of peri-implant soft tissue dehiscences: preliminary results from a randomized controlled trial” (Project presented by a coworker) Single (study team) recipient</p>	<p>November 2020</p>
<p>Osteology Research Award Winner of the Clinical Research category with project entitled: “Envelope Coronally Advanced Flap vs Tunnel Technique in the treatment of Mucosal Recession at Implant Sites: Preliminary Results from a Randomized Clinical Trial” (Project presented by a coworker) Single (study team) recipient</p>	<p>April 2020</p>
<p>University of Michigan Annual Research Day Second place award for Project entitled “Envelope coronally advanced vs tunnel technique for the treatment of mucosal recession at implant sites: preliminary results from a randomized clinical trial”. Ann Arbor, Michigan (Project presented by a coworker) Single (study team) recipient</p>	<p>February 2020</p>
<p>University of Michigan Annual Research Day Third place award for Project entitled “In-Situ Evaluation of Periodontal Inflammation with Ultrasonography: A Porcine Preliminary Study”. Ann Arbor, Michigan</p>	<p>February 2020</p>
<p>2020 Midwest Society of Periodontology First prize at the Graduate Student Research competition for project entitled “Envelope coronally advanced vs tunnel technique for the treatment of mucosal recession at implant sites: preliminary results from a randomized clinical trial”. Chicago, Illinois (Project presented by a coworker) Single (study team) recipient</p>	<p>February 2020</p>
<p>2020 Midwest Society of Periodontology Graduate Student Research Forum Project entitled: “Long-term outcomes of Acellular Dermal Matrix in the treatment of isolated gingival recessions. 9-year outcomes of a randomized clinical trial” was chosen among the finalists to be presented during the Mid-west society of Periodontology annual meeting. Chicago, Illinois</p>	<p>February 2020</p>
<p>3rd International Symposium on Soft tissue management around teeth & implants Co-author of first place winner in the research competition awarded to project entitled “Envelope coronally advanced vs tunnel technique for the treatment of mucosal</p>	<p>February 2020</p>

recession at implant sites: preliminary results from a randomized clinical trial".

Florence, Italy

(Project presented by a coworker)

Single (study team) recipient

Donald Kerr Endowed Scholarship in Periodontics and Oral Medicine

July 2019

The scholarship provides a \$25,000 award to offset educational costs for an outstanding graduate student entering the advanced education program in periodontics. University of Michigan, Ann Arbor.

The American Academy of Periodontology Foundation Schoor Research Award

June 2019

Primary author of award-winning manuscript entitled: "Long-term assessment of root coverage stability using connective tissue graft with or without an epithelial collar for gingival recession treatment. A 12-year follow-up from a randomized clinical trial".

Chicago, Illinois

First prize at the University of Michigan Research Day

February 2019

Project entitled: "Long-term and radiographic outcomes of guided tissue regeneration and predictors of stability: A Retrospective study in an academic setting"

Ann Arbor, Michigan

Second prize at the University of Michigan Research Day

February 2019

Project entitled: "Acellular dermal matrix and coronally advanced flap or tunnel technique in the treatment of multiple adjacent gingival recessions: a 6-months randomized clinical trial and a 12-year follow-up"

Ann Arbor, Michigan

(Project presented by a coworker)

Single (study team) recipient

Third prize at the University of Michigan Research Day

February 2019

Project entitled: "The influence of palatal harvesting techniques on the donor site vascular injury: a split-mouth comparative cadaver study"

Ann Arbor, Michigan

Student Clinician Award

November 2015

University of the East, Manila, Philippines

Ranked 1st to complete all clinical requirements (of 321 clinicians)

October 2015

University of the East, Manila, Philippines

GRANT SUPPORT

Research grant (98921.00 CHF)

July 2022 - present

Osteology Foundation - Advanced Researcher Grant

Research project: "Buccal strip gingival graft with a xenogeneic collagen matrix versus free gingival graft for keratinized mucosa augmentation at implant sites: A Randomized, controlled, clinical trial".

Role: Co-investigator

Research grant (30,000.0 CHF)

July 2022 - present

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March 2023

Osteology Foundation - Young/Advanced Researcher Grant programme

Research project: "Ultrasonographic Characterization and Tissue Perfusion analysis of Implant Sites in Health and Disease:

A discordant-pairs, case-control, cross-sectional study".

Role: **Primary investigator**

Research grant (\$85,000.0)

Dec 2021 - present

Delta Dental Foundation

Research project: "Recombinant Human Platelet-Derived Growth Factor versus platelet-rich fibrin to treat gingival recessions with an allogenic dermal matrix, compared to the connective tissue graft: A three-arm, parallel-design, assessor-blind, randomized, controlled trial".

Role: **Primary investigator**

Rackham Travel Grant (\$900.00)

February 2022

University of Michigan, Rackham Graduate School for

Research project: "Ultrasonographic Tissue Perfusion in Peri-implant Health and Disease"

Single recipient

Academy of Osseointegration Clinical Research Grant (\$30,000.0)

April 2021 - present

Research project: "3-year outcomes of facial mucosal levels for single immediately placed implants evaluated by ultrasonography"

Role: Co-investigator

Research grant (\$72,000.0)

April 2020 - present

Delta Dental Foundation

Research project: "The effect of recombinant human Platelet-derived growth factor in combination with collagen matrix for the treatment of multiple adjacent gingival recessions: A Randomized Clinical Trial".

Role: Co-investigator

Research grant (\$100,000.00)

April 2020 - present

Osteogenics Biomedical, Inc.

Clinical trial entitled: "Regenerative treatment of peri-implantitis:

A comparison of the reinforced PTFE mesh and the collagen membrane in the submerged approach: a randomized controlled clinical trial".

Role: Co-investigator

Research grant (\$10,000.00)

April 2020 - present

Department of Periodontics and Oral Medicine

Research project: "The effect of recombinant human Platelet-derived growth factor in combination with collagen matrix for the treatment of multiple adjacent gingival recessions: A Randomized Clinical Trial".

Role: Co-investigator

Rackham Travel Grant (\$800.00)

January 2020

University of Michigan, Rackham Graduate School for

Research project: "Comparative Efficacy of Peri-Implant soft tissue augmentation therapies and their impact on improving implant health: A Network Meta-Analysis"

Single recipient

Osseointegration Foundation/Nobel Biocare Travel Grant (\$1000.00)

November 2019

Research project: "Comparative Efficacy of Peri-Implant soft tissue augmentation

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March 2023

therapies and their impact on improving implant health: A Network Meta-Analysis”.
 Academy of Osteointegration annual meeting in Seattle, Washington
 Single recipient

Research grant (\$15,000.0) May 2018
Department of Periodontics and Oral Medicine
 Research project: “Comparison of envelope coronally advanced flap and modified
 tunnel technique in soft tissue dehiscence coverage around implants: A randomized clinical trial”.
 Role: Co-investigator

Research grant (\$20,000.0) May 2018
Delta Dental Foundation
 Research project: “Comparison of envelope coronally advanced flap and modified
 tunnel technique in soft tissue dehiscence coverage around implants: A randomized clinical trial”.
 Role: Co-investigator

LABORATORY AFFILIATIONS

Research Collaboration and Member of the Lei Lab of Translational Immunology 2018 – 2021
 University of Michigan, North Campus Research Center
 Principle Investigator: Yu Leo Lei, DDS, PhD

Research Collaboration and Member of the Rickard Lab, MAC-EPID Laboratories 2018 – 2020
 University of Michigan School of Public Health
 Principle Investigator: Alexander H. Rickard, BSc, MSc, PhD

Research Collaborator and Member of the Giannobile Lab 2017 – 2021
 University of Michigan Dental School
 Principle Investigator: William Giannobile, DDS, MS, DMSc

Research Collaborator and member of the Dental Ultrasound Laboratory 2018 – present
 University of Michigan Medical School
 Principle Investigator: Oliver D. Kripfgans, PhD, FAIUM & Mario Fabiilli PhD

PROFESSIONAL & PEER REVIEW SERVICE

Clinical Implant Dentistry and Related Research March 2022 – present
 Associate Editor, and Statistical reviewer

International Journal of Periodontics and Restorative Dentistry July 2019 – present
Member of the Editorial Review Board

Journal of Oral & Maxillofacial Research Jan 2019 – present
ad hoc reviewer

Journal of International Medical Case Reports May 2019 – present
ad hoc reviewer

Journal of Clinical Periodontology April 2020 – present
ad hoc reviewer

Journal of Periodontology Dec 2020 – present

ad hoc reviewer

International Journal of Oral Implantology
ad hoc reviewer

Nov 2019 – present

Quintessence International
ad hoc reviewer

Nov 2020 – present

JDR Clinical & Translational Research
ad hoc reviewer

Nov 2020 – present

Clinical Advances in Periodontics
ad hoc reviewer

Feb 2021 – present

Scientific Reports - Nature
ad hoc reviewer

July 2021 – present

Materials
ad hoc reviewer

Nov 2021 – present

Journal of Prosthodontic Research
ad hoc reviewer

March 2022 – present

Journal of Health Services & Outcomes Research Methodology
ad hoc reviewer

April 2022 – present

Journal of Oral Implantology
ad hoc reviewer

July 2022 – present

Journal of Prosthodontics
ad hoc reviewer

Aug 2022 – present

Clinical, Cosmetic and Investigational Dentistry
Scientific reviewer for Dove Medical Press journals

May 2019 – present

MEMBERSHIP & PROFESSIONAL AFFILIATIONS

American Academy of Periodontology

2019 – present

Academy of Osseointegration

2019 – Present

Philippine Society of Periodontology

2017 – 2020

American Dental Association

2017 – 2018

American Student Dental Association

2017 – 2018

Philippine Dental Students Association

2014 – 2017

Rotaract Club of the University of the East College of Dentistry

2014 – 2017

University of the East Dental Health Team

2014 – 2017

COMMITTEE SERVICE

Reviewer for the 2022 American Academy of Periodontology Best Evidence Consensus on Biologics

Author for the final consensus paper for the 2022 American Academy of Periodontology Best Evidence Consensus on Biologics (Chicago, IL, USA)

CLINICAL DENTAL EXPERIENCES & PREVIOUS WORK EXPERIENCE

Graduate Periodontics Department University of Michigan, Graduate Periodontics Clinic Assist residents and faculty during the clinic, in periodontal and surgical procedures, performed clinical research, and assisted with instrument management.	October 2018 – May 2019 Ann Arbor, Michigan
Post-Graduate Preceptorship University of Michigan, Graduate Periodontics Clinic Assist graduate residents and faculty in performing complex and sensitive periodontal surgeries, such as bone augmentation, guided tissue regeneration, sinus lift procedures, and mucogingival surgeries. Participated in simple and complex implant therapy cases, with clinical research, and instrument management.	September 2017 – July 2019 Ann Arbor, Michigan
Dental Surgeon Private Practice of Dr. Joseph Macasiray Performed periodontal and minor oral surgical treatment (frenectomy, apicoectomy odontectomy cases) Aided dentist in a wide range of complex surgical procedures, such as complicated odontectomy cases, sinus elevation, local and regional flaps with cyst removals (marsupialization and enucleation) Performed other tasks in the operating room as an assistant, such as suturing, resection of flaps, etc.	June 2015 – June 2017 Makati, Philippines
Dental Surgeon and part-time assistant Office of Dr. Mojgan Paknejad, Periodontist Assisted dentist with a variety of periodontal surgeries as well as implant placement and tissue grafting procedures Performed duties in the operating room, worked closely with a professional group of oral surgeons on various implant procedures, sinus lifting, bone grafting, alveoloplasty, maxillary osteotomies, etc.	March 2014 – April 2017 Tehran, Iran
Dental Surgeon Intern Office of Dr. Simin Moghaddam, Endodontist Assisted endodontist during variety of procedures Conducted routine oral health exams, cleanings, restorations and handled general dental procedures	March 2013 – March 2017 Tehran, Iran
Dental Surgeon and tutor University of the East College of Dentistry Clinic Infirmary Post-graduation, assisted with clinical instruction of senior-year dental students in surgical cases in the oral surgery and periodontics department Performed various dentoalveolar surgeries, such as odontectomy, alveolectomy, tori removal, frenectomy, impaction cases, as well as extraction cases Handled periodontal procedures, such as scaling and root planning, crown lengthening, gingivectomy and open flap debridement operations	May 2016 – May 2017 Manila, Philippines

PREVIOUS LEADERSHIP ROLES

President , University of the East College of Dentistry	2013 – 2016
Treasurer , Philippine Dental Students Association	2015 – 2016

ACADEMIC/COMMUNITY SERVICE

Volunteer Dentist Kakawate National High School, City of San Jose del Monte , Bulacan, Philippines With Philippine Academy of General Dentistry's annual charity and outreach program, provided oral healthcare to students and their families (adult and pediatric)	May 14, 2017
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Performed dental extractions and oral prophylaxis with a team of dentists

Volunteer Dentist

June 1 - 5, 2016

Pola, Mindoro Oriental, Philippines

Provided education on different aspects of oral health

Performed screenings with diagnosis and treatments to include oral prophylaxis for children

Handled complex surgeries for adults (odontectomy, epulis fissuratum removal, alveolectomy)

Volunteer Dentist

April 24, 2016

Dental Mission with Civil in Action Group, Caloocan, Philippines

Offered oral health education, screenings, and handled tooth extractions for one-day

dental mission. Referred patients as needed for ongoing specialized or emergency care

Volunteer Dentist

February 27, 2016

San Simon Pampanga Municipality, Philippines

Promoted health education and oral hygiene at community center

Provided dental extractions and oral prophylaxis to the underserved of Pampanga

Volunteer Dentist

November 20 - 25, 2014

La Union Dental Mission with Binay Foundation, La Union, San Fernando

Participated in 6-day dental mission for improving the oral hygiene of La Union community

Dental examinations and diagnoses for basic dental care including oral prophylaxis,

routine checkups, dental records, education, and dental extractions

Volunteer Dentist

October 31 - Nov 2, 2014

University of the East, College of Dentistry, Baguio, Philippines.

Treated the underprivileged, providing free dental care including, oral cancer

screening, diagnosis, oral prophylaxis, dental extractions (pediatric and adults)

CLINICAL SUPERVISORY AND TRAINING RESPONSABILITIES

1. Clinical professor and instructor for the Graduate Residency Program at the University of Michigan, School of Dentistry, covering two full clinical sessions with the residents per week. August 2022 – present
2. Instructor for the 2-day hands-on workshop on “Soft tissue augmentation course around dental implants”, In Ocean Side, California. December 2 and 3, 2022
3. Instructor at the hands-on workshop on “Maxillary Sinus Augmentation: Lateral Approach”, during the Academy of Osseointegration Annual Meeting, San Diego, California. February 25, 2022
4. Instructor at the Pre-doc clinic, University of Michigan, School of Dentistry in Ann Arbor, Michigan. October 2019 – May 2022
5. Instructor at the pig jaw hands-on training course on Introduction to Periodontics for Predoctoral Students, University of Michigan, Ann Arbor. August 2019
6. Instructor for the Clinical Photography seminar and hands-on session for dental hygiene students. University of Michigan, School of Dentistry in Ann Arbor, Michigan. October 2019
7. Instructor for the Clinical Photography seminar and hands-on session for dental hygiene students. University of Michigan, School of Dentistry in Ann Arbor, Michigan. October 2018

INVITED LECTURES

1. Invited lecture for Periodontal Residents at the University of Louisville on: “Root coverage and phenotype modification around teeth”. March 2, 2022
2. Invited to present on “Ultrasonographic Tissue Perfusion in Peri-implant Health and Disease” at the Academy of Osseointegration annual meeting. San Diego, California. February 25, 2022
3. Invited lecture in the American Academy of Periodontology's 107th Annual Meeting in Miami, Florida in the “Innovations in Periodontics” Session, on “Ultrasonographic Tissue Perfusion Analysis of Peri-Implant Health and Disease”. November 5, 2021
4. Invited Scientific webinar on: “Soft tissue deformities around Teeth & Implants, Evidence-based diagnosis & therapy” for the department of Periodontics, Isfahan University of Medical Sciences, and Isfahan Academy of Periodontology. June 27, 2021
5. Invited speaker for lecture on: “Periodontal and Peri-implant phenotype, and their modification therapies” 16th Annual Congress of IADR Iranian Division 2020. November 22, 2020
6. Invited Scientific webinar on: “Soft tissue graft substitutes and phenotype modification around teeth and implants” for the oral surgery residents of the University of Milan and perio residents of the King’s College London. August 2020.
7. Invited speaker for lecture on: “Periodontal soft tissue phenotype, its modification, and the relevance to esthetics and periodontal health”. Mashhad University of Medical Sciences, Mashhad, Iran. November 13, 2022

SCIENTIFIC ORAL PRESENTATIONS

Academy of Osseointegration annual meeting

February 2022

Best Clinical Innovations Presentation and award

Project entitled: “Ultrasonographic Tissue Perfusion in Peri-implant Health and Disease”
San Diego, California

Midwest Society of Periodontology Graduate Student Research Forum

February 2022

Presented as a finalist on project entitled: “recombinant human Platelet-Derived Growth Factor-Soaked Xenogeneic Collagen Matrix versus Placebo for the treatment of Multiple Adjacent Gingival Recessions: A triple-blinded, randomized, placebo-controlled trial”
Chicago, Illinois

American Academy of Periodontology Balint Orban Research Competition

November 2021

Presented as a finalist on project entitled: “recombinant human Platelet-Derived Growth Factor-Soaked Xenogeneic Collagen Matrix versus Placebo for the treatment of Multiple Adjacent Gingival Recessions: A triple-blinded, randomized, placebo-controlled trial”
Miami, Florida

Ramfjord Symposium Research Session

June 2018

Presented as a finalist on project “Prognostic Factors for Long-Term Preservation of Dentition After Crown Lengthening Procedure”
University of Michigan, Ann Arbor, MI

Report of Clinical Innovations

<p>Ultrasonography in periodontology and implantology</p>	<p>Evaluating periodontal and peri-implant structures, their health or disease status, in a non-ionizing, real-time and non-invasive manner. Investigation of the role of ultrasonography for assessing tissue dimensional changes and blood flow variation over time following soft tissue augmentation This technology and methods are locally utilized (University of Michigan) and will be available soon worldwide. Our group is the pioneer in this field and, in particular, we are the first to investigate and publish the method for assessing tissue perfusion analysis at implant sites with power Doppler Ultrasonography (Barootchi S, Tavelli L, Majzoub J, Chan HL, Wang HL, Kripfgans O. Ultrasonographic Tissue Perfusion in Peri-implant Health and Disease. <i>J Dent Res.</i> 2022 Mar;101(3):278-285. doi: 10.1177/00220345211035684; and Tavelli L, Barootchi S, Majzoub J, Chan HL, Giannobile WV, Wang HL, Kripfgans OD. Ultrasonographic tissue perfusion analysis at implant and palatal donor sites following soft tissue augmentation: A clinical pilot study. <i>J Clin Periodontol</i> 2021;48(4):602-614 doi:10.1111/jcpe.13424)</p>
<p>Ultrasonography for diagnosis of health and disease at implant sites</p>	<p>Investigation of the correlation between ultrasonographic tissue perfusion and peri-implant health or disease. We demonstrated the reliability of this methodology in detecting health and different status of disease of dental implants. This technology and methods are locally utilized (University of Michigan) and will be available soon worldwide. This will have a major impact on the field, given the challenges of identifying the correct diagnosis of dental implants in several case scenarios. (Barootchi S, Tavelli L, Majzoub J, Chan HL, Wang HL, Kripfgans OD. Ultrasonographic tissue perfusion in Peri-implant Health and Disease. <i>J Dent Res.</i> 2022 Mar;101(3):278-285. doi: 10.1177/00220345211035684).</p>
<p>Biomarkers analysis for predicting the outcomes of soft tissue grafting</p>	<p>Collection of wound healing biomarkers from the crevicular fluid of teeth or dental implants after soft tissue grafting procedures. For the first time in the literature, the results from the wound healing biomarkers (FGF-2, IL1beta, ANG, VEGF, etc) were correlated with clinical outcomes of soft tissue grafting. We demonstrated that early healing biomarkers can predict the final results at 6 and 12 months (<i>manuscripts in preparation</i>)</p>

REPORT OF SCHOLARSHIP

ORCID ID: <https://orcid.org/0000-0002-5347-6577>

Google Scholar: https://scholar.google.com/citations?user=Qn_ncTMAAAAJ&hl=en

Pubmed: <https://pubmed.ncbi.nlm.nih.gov/?term=barootchi&sort=date>

PEER-REVIEW RESEARCH & PUBLICATIONS

Published

1. **Barootchi S**, Wang HL, Ravida A, Amor FB, Riccitiello F, Renge C, Paz A, Stanley M, Luigi L, Marenzi G, Gasparro R, Sammartino G. Ridge Preservation Techniques to Avoid Invasive Bone Reconstruction: A Systematic Review and Meta-Analysis: Naples Consensus Report Working Group C. *Int J Oral Implantol (New Malden)*. 2019;12(4):399-416.

2. Tavelli L, **Barootchi S**, Di Gianfilippo R, Modarressi M, Cairo F, Rasperini G, Wang HL. Acellular dermal matrix and coronally advanced flap or tunnel technique in the treatment of multiple adjacent gingival recessions. A 12-year follow-up from a randomized clinical trial. *J Clin Periodontol.* 2019 Jun 26. doi: 10.1111/jcpe.13163.
3. Gargallo-Albiol, **Barootchi S**, Salomó-Coll O, Wang HL. Advantages and Disadvantages of Implant Navigation Surgery: Narrative Review. *Annals of Anatomy. Ann Anat.* 2019 May 4. pii: S0940-9602(19)30062-7. doi: 10.1016/j.aanat.2019.04.005
4. **Barootchi S**, Tavelli L, Di Gianfilippo R, Byun H-Y, Oh T-J, Barbato L, Cairo F, Wang HL. Long-term assessment of root coverage stability using connective tissue graft with or without an epithelial collar for gingival recession treatment. A 12-year follow-up from a randomized clinical trial. *J Clin Periodontol.* 2019 Nov;46(11):1124-1133. doi: 10.1111/jcpe.13187. Epub 2019 Sep 9.
5. Ashnagar S, **Barootchi S**, Ravidà A, Tattan M, Wang HL, Wang C-W. Long-Term Survival of Structurally-Compromised Tooth Preserved with Crown Lengthening Procedure and Restorative Treatment: A Pilot Retrospective Analysis. *J Clin Periodontol.* 2019 May 3. doi: 10.1111/jcpe.13124.
6. Gargallo-Albiol, Sinjab KH, **Barootchi S**, Chan HL, Wang HL. Microscope and Micro-camera Assessment of Schneiderian Membrane Perforation via Transcrestal Sinus Floor Elevation: A Randomized Ex-Vivo Study. *Clin Oral Implants Res.* 2019 May 6. doi: 10.1111/clr.13453.
7. Ravidà A, Tattan M, Askar H, **Barootchi S**, Tavelli L, Wang HL. Comparison of three different types of implant-supported fixed dental prostheses: A long-term retrospective study of clinical outcomes and cost-effectiveness. *Clin Oral Implants Res.* 2019 Apr;30(4):295-305. doi: 10.1111/clr.13415. Epub 2019 Mar 29.
8. Tavelli L, **Barootchi S**, Greenwell H, Wang HL. Is a soft tissue graft harvested from the maxillary tuberosity the approach of choice in an isolated site? *J Periodontol.* 2019 Jan 28. doi: 10.1002/JPER.18-0615
9. Ravidà A, **Barootchi S**, Alkanderi A, Tavelli L, Suarez Lopez del Amo F. The Effect of Crown-to-Implant Ratio on the Clinical Outcomes of Dental Implants: A Systematic Review. *Int J Oral Maxillofac Implants.* 2019 Feb 19. doi: 10.11607/jomi.7355.
10. Ravidà A, **Barootchi S**, Askar H, Suárez-Lopez del Amo F, Tavelli L, Wang HL. Long-Term Effectiveness of Extra-Short (≤ 6 mm) Dental Implants: A Systematic Review. *Int J Oral Maxillofac Implants.* 2019 Jan/Feb;34(1):68-84. doi: 10.11607/jomi.6893.
11. Ravidà A, **Barootchi S**, Tattan M, Saleh M, Gargallo-Albiol J, Wang HL. Clinical Outcomes and Cost Effectiveness of Computer-Guided Versus Conventional Implant-Retained Hybrid Prostheses: A Long-Term Retrospective Analysis of Treatment Protocols. *J Periodontol.* 2018 Sep;89(9):1015-1024. doi: 10.1002/JPER.18-0015.
12. Tavelli L, **Barootchi S**, Nguyen T, Tattan M, Ravidà A, Wang HL. Efficacy of Tunnel Technique in the Treatment of Localized and Multiple Gingival Recession: A Systematic Review and a Meta-Analysis. *J Periodontol.* 2018 Sep;89(9):1075-1090. doi: 10.1002/JPER.18-0066.
13. Galindo-Moreno P, Suárez López del Amo F, Faria-Almeida R, Leitão Almeida B, Astramskaite-Januseviciene I, **Barootchi S**, Borges T, Correia A, Correia F, Majzoub J, Padiál-Molina M, Pranskunas M, Puisys A, Ramanauskaite A, Ravidà A, Starch-Jensen T, Tattan M. The 2nd Baltic Osseointegration Academy and Lithuanian University of Health Sciences Consensus Conference 2019. Summary and Consensus Statements: Group II - Extraction Socket Preservation Methods and Dental Implant Placement Outcomes within Grafted Sockets. *J Oral Maxillofac Res.* 2019 Sep 5;10(3):e9. doi: 10.5037/jomr.2019.10309. eCollection 2019 Jul-Sep.

14. **Barootchi S**, Tavelli L, Ravidà A, Wang HL. Effectiveness of EDTA Application on the Root Surface in Addition to a Connective Tissue Graft in Coronally Advanced Flap Procedure. *Clin Oral Investig.* 2018 Nov;22(8):2727-2741. doi: 10.1007/s00784-018-2635-3.
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82. Shakibaie B, Blatz M, **Barootchi S**. Clinical comparison of vestibular split rolling flap (VSRF) versus double door mucosal flap (DDMF) in implant exposure A prospective clinical study. *Int J Esthetic Dentistry*
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SCIENTIFIC ABSTRACTS

E-Poster presentation of project “Acellular Dermal Matrix for root coverage procedures. 9-year assessment of treated isolated gingival recessions and their adjacent untreated sites” at the Research Forum Session of the American Academy of Periodontology’s annual meeting, November 6 – 15, 2020 virtual meeting.

E-Poster presentation of project “Comparative Efficacy of Peri-Implant soft tissue augmentation therapies and their impact on improving implant health: A Network Meta-Analysis” at the Academy of Osseointegration’s 35th Annual Meeting, March 18 – 21, 2020 in Washington State Convention Center, Seattle, WA.

E-Poster presentation of project “Ultrasonographic Characterization of Lingual Structures Pertinent to Oral, Periodontal and Implant Surgery” at the Academy of Osseointegration’s 35th Annual Meeting, March 18 – 21, 2020 in Washington State Convention Center, Seattle, WA.

E-Poster presentation of project “Socket Preservation Techniques to Avoid Invasive Bone Reconstruction” at the Academy of Osseointegration’s 34th Annual Meeting, March 13 – 16, 2019 in Washington, DC at the Walter E. Washington Convention Center.

E-Poster presentation of project “Long-Term Clinical Outcomes and Cost-Effectiveness of Full-Arch Implant-Supported Zirconia-Based and Metal-Acrylic Fixed Dental Prostheses” at the Academy of Osseointegration’s 34th Annual Meeting, March 13 – 16, 2019 in Washington, DC at the Walter E. Washington Convention Center.

Poster presentation of project entitled: “Short and Long-Term Stability of Root Coverage Procedures: A Network Meta-Analysis”. At the research poster session of the Ramfjord Symposium, University of Michigan, Ann Arbor, 2018

Poster presentation of project entitled: “Efficacy of Tunnel Technique in the Treatment of Localized and Multiple Gingival Recessions: A Systematic Review and a Meta-Analysis”. Presented at Research Day, University of Michigan, Ann Arbor, 2018

Poster presentation of project entitled: “Long-Term Survival of Tooth Preservation After Crown Lengthening Procedure: A Retrospective Analysis”. Presented at research forum at the Midwest Society of Periodontology, Chicago, IL, 2018

Poster presentation of project entitled: “Influence of Suturing Technique on Marginal Flap Stability Following Coronally Advanced Flap: A Cadaver Study.” Presented at Research Day, University of Michigan, Ann Arbor, 2018

Poster presentation of project entitled: “Clinical Outcomes and Cost Effectiveness of Computer-Guided versus Conventional Implant-Retained Hybrid Prostheses: A Long-Term Retrospective Analysis of Treatment Protocols”. Presented at Research Day, University of Michigan, Ann Arbor, 2018

Poster presentation of project entitled: “Long-Term Survival of Tooth Preservation After Crown Lengthening Procedure: A Retrospective Analysis”. Presented at Research Day University of Michigan, Ann Arbor, 2018

Poster presentation of project entitled: “Clinical Outcomes and Cost Effectiveness of Computer-Guided Versus Conventional Implant-Retained Hybrid Prostheses: A Long-Term Retrospective Analysis of Treatment Protocols”. Presented at the International Association for Dental Research (IADR) 2018, London, England.

PROFESSIONAL DEVELOPMENT & ATTENDED SYMPOSIA

1. Attended continuing dental education program, the 13th Biennial Ramfjord Symposium: “Twilight between Soft and Hard Tissue Grafts”. Ann Arbor. Michigan – June 2 to 4, 2022.
2. Attended hands-on course provided by Giovanni Zucchelli, DDS, PhD “Master in Soft Tissue graft” at the University of Michigan School of Dentistry, Ann Arbor, Michigan – June 4, 2022

3. Attended continuing dental education program at the 13th Biennial Ramfjord Symposium Workshop II, “Soft tissue considerations for Grafting the Aesthetic Zone” at the University of Michigan School of Dentistry, Ann Arbor, Michigan – June 2, 2022
4. Attended the 3.5-day Osteology Research Academy Course on “Research Design and Methodology Academy” at the University of Michigan, School of Dentistry in Boston, Massachusetts, 4-7 October 2021
5. Attended the 3.5-day Osteology Research Academy Course on “Research Design and Methodology Academy” at the University of Michigan, School of Dentistry in Ann Arbor, Michigan, 17-20 September 2018
6. Hands-on course provided by Dr. Giovanni Zucchelli, “Esthetic Mucogingival Surgery around Teeth and Implants”. June 2018
7. Regression Analysis with R, attended statistics workshop offered by the Consulting for Statistics, Computing and Analytics Research (CSCAR), Department University of Michigan. Feb 2018
8. Mixed Models with R, attended statistics workshop offered by the Consulting for Statistics, Computing and Analytics Research (CSCAR), University of Michigan. Feb 2018
9. Factor Analysis and Related Techniques (with demonstrations in R), Attended statistics workshop offered by the Consulting for Statistics, Computing and Analytics Research (CSCAR), University of Michigan. Feb 2018
10. Data Processing with R, attended statistics workshop offered by the Consulting for Statistics, Computing and Analytics Research (CSCAR), University of Michigan. Nov 2017
11. Text Processing and Analysis with R, attended statistics workshop offered by the Consulting for Statistics, Computing and Analytics Research (CSCAR), University of Michigan. Nov 2017
12. Immediate vs. Delayed Socket Management, Bunting Periodontal Society’s meeting. Novi-Michigan, Ann Arbor. March 2018
13. Interplay Between Peri-Implant Bone and Mucosa: Strategies to Augment and Maintain Peri-Implant Bone and Mucosa, Dr. Homa Zadeh, Annual Meeting of the Midwest Society of Periodontology. Feb 2018
14. Current Soft Tissue Grafting, Dr. Pat Allen, Annual Meeting of the Midwest Society of Periodontology. Feb 2018
15. Beautiful Smile by Design: by Dr. Maria Shervy Monica Villareal Cerquierra-Costa. May 2017
16. Is Mandibular Block Passé, Prof. Stanley Malamed. May 2, 2017
17. Integrating Ultrasonic Periodontal Therapy in your Daily Practice, Dr. Marie Grace Poblete – Michel. May 1, 2017
18. Basic Life Support for Healthcare Providers, American Heart Association. May 1, 2017
19. Emergency Medicine: Cardiac Emergencies and Sudden Cardiac Arrest, Prof. Stanley Malamed. April 30, 2017
20. Periodontal Medicine, Dr. Faustino Mercado. April 29, 2017
21. Ortho-Perio Splinting Applications, PSP. October 2016
22. Indications for Use of Regenerative Materials in Periodontal Defects Workshop, Dr. Alvin Yeo. October 2016

23. Philippine Society of Periodontology (PSP) Workshop. July 2016– August 2016
24. Keys to Successful Scaling and Root Planing for Non-Surgical Periodontal Therapy Workshop, Philippine Dental Hygienists' Association and Philippine Society of Periodontology. May 2016
25. Boston University International Conference in Periodontics, Implant and Prosthetic Dentistry, Philippines Society of Periodontology. March 2016
26. The Essentials of Suturing Techniques in Periodontal Surgeries Workshop, Dr. Edwin Heng. March 2016
27. Guided Tissue Regeneration and Ridge Augmentation with OsteoBiol, Dr. Roberto Rossi. March 2016
28. Current Advances in Implant Dentistry, Dr. Young-Ku Heo, Dr. Jong-Yub Kim. March 2016
29. Innovative Techniques for Sinus Lift and Guided Bone Regeneration, Dr. Young-Ku Heo, Dr. Jong-Yub Kim. March 2016
30. Advancements in Clinical Endodontics Workshop, Dr. Alex W. K.Chan. October 2015
31. CBCT Radiology Workshop, Philippine Society of Periodontology. November 2015
32. Periospectives: Multi-Discipline Approach to Management, Philippine Society of Periodontology. November 2015
33. Fundamentals in Periodontal Instrumentation: Scaling and Root Planing Workshop, Philippine Society of Periodontology. November 2015
34. Socket Preservation Technique Workshop, Philippine Society of Periodontology. November 2015
35. Attachment Loss: A Perio Perspective, Philippine Academy of General Dentistry Inc. September 2015
36. Present Evolution of the Endodontic Nickel-Titanium Instruments and of the Endodontic Operating Protocols, Endodontic Society of the Philippines. July 2015
37. Antibiotics and Endodontic Surgery in the Management of Periradicular Infections, Endodontic Society of the Philippines. July 2015
38. 55th Anniversary and 38th National Conference on Oral and Maxillofacial Surgery, Philippine College of Oral and Maxillofacial Surgery. January 2015