

LSU PERIODONTICS

LSU SCHOOL OF DENTISTRY DEPARTMENT OF PERIODONTICS

August 2023

Periodontics Department Continues Tradition of Excellence and Accolades.



Periodontal and Implant Microsurgery

Congratulations to Dr. J. David Cross, who received The 2023 American Academy of Periodontology Educator Award for Excellence in Teaching and Mentoring.

The microsurgery training course for the Periodontics Residents at LSU Dental School is the oldest training

of its kind in the United States. Though this innovative course, the residents develop the skills to use the operating microscope along with the use of microsurgical instruments and suturing. The primary aim of microsurgery is to minimize tissue trauma while maximizing tissue preservation and reconstruction. Part time faculty members, Drs. Randy Comeaux, David Cross and Bryan Pearson are program instructors making LSU Perio the only program with mentors trained by the father of periodontal microsurgery, Dr. Dennis Shanelec.

David Simmons, DDS & The LSU Perio Implant Restorative Fellowship



Dr. David Simmons has been directing Implant Restorative Fellowship program since 2006. Prior to this he ran a highly successful private practice in up-town New Orleans from 1965 to 1998. In 1998, he joined the faculty at LSU School of Dentistry teaching various clinical and didactic classes. Additionally,

from 1998 to present he has served as codirector and director for The Louisiana State Board of Dentistry Evaluation and Remediation Program for Licensure and Disciplinary Requirements.

At the conclusion of the fall semester, he will be stepping down as director of the fellowship program, but remaining with LSU in a gratis capacity. According to Dr. Jerry Evans, Chair of Periodontics, Dr. Simmons has trained 24 fellows in this important program. Dr. Evans said, "David Simmons has been an outstanding contributor to our department. One word comes to mind to describe him as a mentor for our fellowship students: Excellence. His program has been a huge success and has been very important to our periodontics residency program in that our residents are able to place more implants by having this avenue for our patients to be properly restored."

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Third Year Perio Residents win Second and Third Place Awards on Research Day!



Dr. Emily Williams' presentation for "Hard Tissue Dimensional Changes Following Extraction and Ridge Preservation Using Three

Different Techniques: A Randomized Controlled Clinical Trial won 2nd place. **Dr. Lauren Langlois'** presentation on "Low-Level Laser Therapy Parameters to Promote Wound Healing Using a Diode Laser" won 3rd place. This marks three years in a row that Periodontics has achieved two of the top three awards. Also pictured is first-place winner, Dr. Heidar Shahin.

Congratulations to all three winners!
See the full perio abstracts on page 2

Congratulations to **Dr. Ronald Young**, our newest Diplomate of the American Board of Periodontology. He is an alumnus of our 2021 LSU Perio class.

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Farewell to the Class of 2023

(from left, with Dr. Jerry Evans; Dr. Katherine Carmona, Dr. Lauren Langlois, Dr. Emily Williams and Dr. Panos Dragonis)

Dr. Katherine Carmona- will be pleased to announce that Dr. Carmona has elected to stay in New Orleans and join our Periodontics Department faculty on a full time basis. Prior to her residency, Dr. Carmona completed the implant fellowship under Dr. David Simmons . She will assume that role in Spring of 2024.

Dr. Lauren Langlois- will be splitting her time between being a travelling periodontist for Pacific Coast Dental and joining the Lafayette, LA practice of Drs. Randall Comeaux and Bryan Pearson of Perio One.

Dr. Emily Williams– is moving to Atlanta Georgia, where she will join the Dr. Kara Kramer of West Cobb Periodontics, LLC, however, she vows to remain a closet Saints and Tiger fan in Atlanta..

We wish our three 2023 graduates great success!

Resident Research Abstracts

Assessment of Soft Tissue Dimensional Changes After Tooth Extraction and Ridge Preservation Using Digital Tools.

Dr. Katherine Carmona, Dr. Panagiotis Dragonas, Dr. Thomas Lallier, Dr. Pooja Maney

Background: Following tooth extraction, the remodeling process affects horizontal and vertical alveolar ridge dimensions. Some surgical techniques, such as alveolar ridge preservation (ARP), aim to counteract the hard and soft tissue changes and to help preserve the 3D volume. This randomized controlled study analyzed the soft tissue dimensional changes after tooth extraction in patients receiving three different alveolar ridge preservation approaches.

Objectives: This randomized controlled trial aimed to answer if there are post-extraction soft tissue dimensional changes among various alveolar ridge preservation (ARP) surgical approaches.

Research Reports continued on next page.

Carmona– Continued.

Methods: The study included 26 subjects with a failing tooth. Treatment was planned for extraction and Implant surgery. Sites were randomly assigned to receive allograft plus absorbable collagen wound dressing, allograft plus a polytetrafluoroethylene (PTFE) membrane, or PTFE membrane alone followed tooth extraction. Digital impressions were obtained before and three months after surgery. STLs were superimposed and analyzed for soft tissue changes in the augmented labial area. Measurements were obtained at the gingival margin level, at -3 and at -5 millimeters below this point.

Results: Twenty-six patients were included in the study. A total of forty teeth were extracted and received the alveolar ridge preservation technique. Of the output variables, STL.GM-0 was not statistically significantly different by treatment groups 1-3 (p-value = 0.7672, average values of groups 1, 2, and 3 were 2.4, 2.35, and 2.17, respectively), and neither was STL.GM-3 (p-value = 0.4268, average values of groups 1, 2, and 3 were 1.83, 1.62, and 1.64, respectively) or STL.GM-5 (p-value = 0.2837, average values of groups 1, 2, and 3 were 1.3, 1.1, and 1.05, respectively).

Conclusions: The study demonstrated no difference among the materials utilized for ARP after tooth extraction. Regardless ARP technique used, vertical and horizontal dimensional changes are observed. Nevertheless, ARP procedures help to reduce volumetric hard and soft tissue shrinkage, thus improving clinical outcomes.

Low-level laser therapy parameters to promote wound healing with diode laser.

Dr. Lauren K. Langlois and Dr. Thomas E. Lallier

Background: Lasers are widely used in dentistry and offer an array of clinical applications, such as “photobiomodulation,” which utilizes low-level laser therapy (LLLT) to achieve stimulatory effects within tissue.

Objective: The purpose of this in vitro study is to determine the optimal power (Watts) setting and duration of irradiation using a diode laser, and its effect on human gingival fibroblasts (hGF).

Methods: Plated hGF were irradiated at 2W, 4W, 6W, 8W, and 10W for either 1- or 2-minutes and cell survival was assessed. For the second part of this study a scrape was made within each well of the plated hGF, and then LLLT was performed for 1 minute at 0W, 2W, and 4W and examined for three days.

Results: The cell survival assay revealed approximately 100% survival for all power outputs (0-10W) in the 1-minute treatment groups and also in the 2-minute treatment groups at 0W, 2W, and 4W; however, in the 2-minute group survival began to significantly decrease at 6W and higher. Regarding the wound contraction assay, there was significantly more wound closure at both 2W and 4W compared to the control at days 1 and 2. Furthermore, the 2W group demonstrated statistically more wound closure at day 1 compared to 4W treatment group. By day 3, no differences were observed between any of the groups.

Conclusion: The findings from this study found LLLT with a diode to have a stimulatory effect on hGF and promote faster wound closure. The laser parameters which had the most stimulatory effect in vitro was 2W and 1 minute of irradiation.

Soft Tissue Dimensional Changes Following Extraction and Ridge Preservation Using Three Different Techniques: A Randomized Controlled Clinical Trial

Dr. Emily Williams, Dr. Panos Dragonas, and Dr. Andrew Chapple

Background: Though the effects of ridge preservation with allograft and membrane have been widely researched, outcomes for using a non-resorbable membrane alone have not been as thoroughly investigated. The purpose of this study was to compare the effects of three different ridge preservation modalities on hard tissue dimensions including one group using only a non-resorbable membrane with no bone grafting performed.

Methods: Thirty-four patients requiring tooth extractions with ridge preservation were distributed randomly between three groups: bone graft alone, bone graft with e-PTFE membrane, or e-PTFE membrane alone with no bone graft. Cone beam computer tomography (CBCT) was taken at baseline and 3-4 months post-extraction. Buccal-lingual socket width was measured on the CBCT at fixed points at the crest of bone and 2 mm below the crest.

Results: Twenty-two patients and 27 teeth were included in the analysis. When comparing the three treatment groups, there was no statistically significant difference between the three groups in buccal-lingual socket width change at the crest of bone or at 2 mm apical to the crest as measured on the CBCT scans ($P \leq 0.05$, confidence interval 95%). No differences were seen between the three groups total or for pair-wise comparisons, or for age, gender identity, or arch.

Conclusion: Similar results were achieved in all three groups, even without simultaneous bone graft placement. e-PTFE membrane alone may be a viable treatment modality for patients who are unable to undergo bone graft placement at time of extraction, though more research is needed.

Meet Kristy Soileau, DDS, Gratis Faculty Member of LSU Perio



Our department has been truly fortunate to have Dr. Kristy Soileau on our staff. She is a remarkable woman who has dedicated her life to our profession.

This year, Dr. Soileau was chosen by The Louisiana Dental Association to receive **The LDA Distinguished Service Award**. This award is given annually to individual LDA members who exemplify the highest standards of professional conduct in dentistry and make extraordinary contributions to organized dentistry and to their communities.

Additionally this year, she secured the position of **Secretary/Treasurer of the American Academy of Periodontology**, which post she will assume during the General Membership meeting at the AAP Annual Session to be held in Austin this November.

She has specific goals in mind. She will work toward repairing the strains of apathy towards AAP membership. She plans to strengthen member involvement while increasing the appreciation of governance and leadership at all levels, most especially with the ADPAC powerhouse. Finally, she will work on maximizing our unmatched scientific and research prowess to make us global leaders in the periodontal/systemic health arena.

Dr. Soileau began her practice in New Orleans 35 years ago after receiving her DDS degree in 1985, followed by certificates in advanced education programs in General Dentistry in 1986, and in Periodontics in 1988, all from LSU.

The list of her professional activities and accolades is long. She has been a long time supporter of both AAP Foundation and The LSU Health Foundation. She was the Vice-Chair, LSU Health Foundation Board from 2021-2023 and now is the current Secretary/Treasurer. She is a past-president of The New Orleans Dental Assn, The Louisiana Dental Assn., and The Southwest Society of Periodontology. She has edited the NODA News for the past 32 years and she is a gratis faculty member for the advanced education periodontal programs at LSU.

Dr. Soileau states, "It is a wonderful time to be a periodontist, considering our potential for continued advancement well into the future of our great profession; and with this will come a need for collegial leadership ascribing to diversity of experiences in private practice, organized dentistry, academia, and governance at all levels." These honors are certainly well deserved! I am sure she would like to hear suggestions and concerns from any of our alumni regarding her future position within our professional organization. **Email- kmsperio@gmail.com**

Dr. David Simmons- continued

Former graduate fellow, Dr. Ehab Mousa said, "Going through the fellowship under Dr Simmons' guidance had not only made me a better dentist, but a better periodontist. Dr Simmons' knowledge and passion for implant and restorative dentistry is unsurpassed and I feel very lucky to have been taught by him."

"Dr. Simmons is an excellent teacher. He puts his heart into teaching. His knowledge in implants and implant restoration is phenomenal. He is very hands on and engaged while he is teaching," according to fellow faculty member and former student, Dr. Mahrufa Islam.

We thank him for all of his contributions to our department. If he helped in your education and would like to send him a note, his email is: dsimmo@lsuhsc.edu.



Genevieve Benoit, RDH has been selected as the recipient for the Allen A. Copping for Excellence in Teaching Award. This award recognizes faculty who are excellent teachers, have demonstrated a life-long quest for discovery, and inspire their students. The award was presented during the annual commencement ceremony. She has been with The LSU School of Dentistry for 25 years in various roles. Gen commented, "It is an honor to receive this prestigious award and the recognition from the students and faculty."

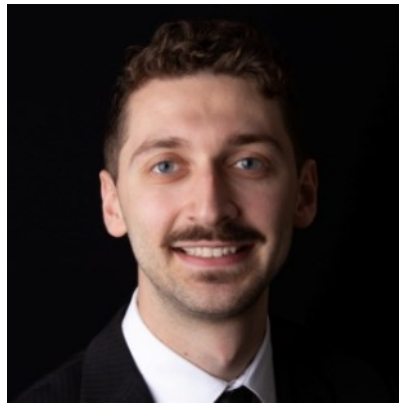
Louisiana Mission of Mercy will be held August 11-12, 2023 at The Cajun Dome in Lafayette, LA. A large-scale dental clinic is set up for the purpose of treating adults and children who have limited financial resources or are otherwise unable to visit a dental office. This year all six LSU Perio Residents and our Implant Fellow will travel to Lafayette to provide these important services.

Very High Success Rate of LSU Residents on ABP Exam since 2004. The LSU Program in Periodontics has a very good track record in candidates passing the ABP board exam on their first try! 47 out of 52 graduating residents since 2004 have become diplomates of The ABP. We are very proud of this academic success !!

Join Us In Welcoming Our New: First Year Perio Residents



Dr. Daeoo Lee



Dr. Cyrus Mansouri



Dr. Veronica Xia

Dr. Daeoo Lee was born in Utah, moved to Korea for his primary and part of his secondary education and came back to the USA for high school. In 2010, he earned a BS in computer Science at The University of California, Irvine and subsequently was employed by the US Patent Office in Virginia. After working 9 years in patents, he decided to pursue a career in dentistry and earned his DDS from the University of Utah in 2023. Following residency he states that he is willing live and work wherever there is good opportunity to continue to learn and grow as a periodontist. He is an avid hiker and walker.

Dr. Cyrus Mansouri is from Wheeling, Illinois. He attended college at The University of Iowa, graduating in 2019 with two degrees, a BS in Biochemistry and a BA in Chemistry. He earned his DDS in 2023 from The University of Iowa College of Dentistry. Following residency, he will eventually return to the Chicagoland area to be closer to family, but would like to remain in New Orleans for a few years to enjoy the local scene. He enjoys film photography, rock climbing and all fitness activities.

Dr. Veronica Xia is from Atlanta Georgia. She attended college at Augusta University and earned her BS in 2019. She then earned her DMD in 2023 degree from The Dental College of Georgia at Augusta University. She is an accomplished ballet and Chinese folk dancer and has competed nationally. Through out her academic career, she has made volunteerism a priority She loves to travel, try new cuisines and likes to bake. She is undecided as to where she may practice following the residency and is open to good opportunities.

We Greatly Appreciate Your Support

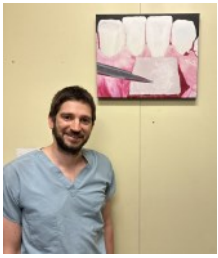
Through the years, numerous alumni of our residency program have contributed to our department on a regular basis and at a high level. The LSU School of Dentistry deeply appreciates the steadfast support of our donors. Numerous individuals have stepped up with generous contributions.

This year, we would also like to extend a special thank you to **Dr. Virginia Angelico-Tatum**, LSU DDS alumnus, Class of 1979 for her generous support of The Implant Restorative Fellowship Program.

Contributions to our LSU Health Foundation Perio Research and Education Fund go directly toward activities supporting our residents' education, such as attending The AAP and The Southwest Society of Periodontists Annual Meeting for third year students and funding their research. Contributions to The Perio Support Fund are unrestricted and help the Department Chairman take care of immediate needs for the whole department. We greatly appreciate all of our donors.

At the present time, we are aiming for a level in our Research and Education Fund where the State of Louisiana will provide a match, such that our fund becomes an endowed fund. At that time it will spin off regular proceeds to support resident education. Please keep this goal in mind. As always, we deeply appreciate and need your continued support! To contribute, please visit [The LSU Health Foundation Website](#).

Resident Education



Dr. Dragonas teaches proper graft placement



Dr. Langlois perfects her microsurgical techniques



Dr. Schwoegl and the erbium:YAG laser with Drs. Nguen-Luu and Thibodeaux



Microsurgery Class– 2023. Table-top procedures are practiced before clinical work begins.



First Year Residents enter clinic during their first week and begin by observing second and third year residents perform various procedures.

Graduation Dinner, June 22, 2023



Drs. Jerry Evans, Kathy Carmona, and David Simmons



Drs. Erin Schwoegl, Emily Williams, Brook Thibodeaux and Lauren Langlois



Mr. John Mayer, Drs. David Simmons, Chuck McCabe and Jerry Evans

LSU Perio Shown 'N Tell, June 5, 2023



From Left: Drs. Panos Dragonas, Ehab Moussa & Steven Spindler



Drs. Emily Williams, Lauren Langlois, Katherine Carmona & Panos Dragonas