The College of Dentistry Welcomes Kelsey Fisk

Kelsey Fisk joined the Department of Periodontics in November as a dental assistant. She previously worked in private practice for two years and at Broadlawns Dental Clinic for two years. She is currently a certified dental assistant and expanded functions. Kelsey, her husband, Adam, and their one-year-old daughter, Karlee, relocated to Oxford from Centerville, Iowa.

In her spare time, Kelsey enjoys spending time with her family, boating on the lake and exploring the outdoors.

Dr. Gustavo Avila-Ortiz Researches Alveolar Ridge Preservation to Minimize Tooth Loss

In dentistry, when a tooth cannot be saved and must be extracted, there are a number of detrimental consequences that may affect the patient at a local and systemic level. Tooth loss has several negative aspects: eating food may be more difficult for the patient and their speech may be altered. Also, a patient’s facial appearance and smile esthetics may be affected, which sometimes results in low self-esteem.

Following tooth extraction, the bone that forms the tooth socket, known as the alveolar bone, inevitably undergoes a process of volume loss that typically peaks within the first 3 to 6 months. Thus, it is important to limit the amount of alveolar ridge loss that follows tooth extraction in order to preserve the natural ridge architecture and/or to facilitate esthetic and functional rehabilitation of an edentulous site or span via dental implants.
Dr. Gustavo Avila-Ortiz, a faculty researcher in the Department of Periodontics, became interested in studying interceptive therapies to minimize alveolar bone loss during his specialty training. “The alveolar bone is one of the components of the periodontium. As I learned more about alveolar bone biology, my interest in this part of the attachment apparatus of a natural tooth grew exponentially,” he says. “What we know about its variable response in the pathogenesis of periodontitis, as well as its fate after prolonged occlusal trauma or tooth loss, is truly fascinating, but there is so much more that we still do not know about. As a clinical researcher, that makes the alveolar bone very attractive to me.”

Currently, Dr. Avila-Ortiz is studying the use of different alveolar ridge preservation (ARP) techniques to minimize the detrimental effects of tooth loss and shorten the amount of healing time needed after tooth extraction prior to placing a dental implant. Although evidence shows that ARP cannot predictably prevent all bone resorption, it can make a significant difference in maximizing the ability of a surgeon to place a dental implant in the ideal restorative position later.

The success of ARP also varies among individual patients, depending, for instance, on the number of extracted adjacent teeth, the integrity of the tooth socket, the features of the alveolar bone (e.g. wall thickness), health issues of the patient (e.g., smoking, diabetes, disorders of the bone), as well as the patient’s compliance. While there are several options for ARP, Dr. Avila-Ortiz has studied the combined use of bone substitutes, barrier membranes and innovative tissue engineering strategies for ARP via socket grafting. ARP via socket grafting involves filling a tooth socket with a biomaterial. Bone substitutes are biocompatible materials that are expected to provide a “support” for the alveolar bone, to prevent the collapse of the ridge, reduce the need for additional grafting, facilitate implant placement, ensure a higher success for the dental implant therapy and, in some cases, minimize the inflammatory response.

Aside from its potential therapeutic benefits, ARP via socket grafting is a valuable clinical research model to study the safety and clinical performance of different biomaterials in function of individual local and systemic factors. In 2014, Dr. Avila-Ortiz and his collaborators at the University of Michigan published the results of a pilot study, which evaluated three different ARP modalities compared with a control: 20 patients were divided into four groups (Group 1, tooth extraction + Collagen plug; Group 2, Allograft + PTFE membrane; Group 3, Allograft + Overbuilding + PTFE barrier; and Group 4, Allograft + Collagen barrier + PTFE barrier). The randomized clinical trial’s purpose was to acquire preliminary data about the efficacy of the three ARP techniques when compared to a control. Dr. Avila-Ortiz used the data to conduct a larger trial study involving 60 patients that has recently been completed at the University of Iowa College of Dentistry. This randomized controlled trial has produced relevant evidence pertaining ARP techniques and local topographic factors that influence the outcomes of ARP via socket grafting.

RecycleMania at the University of Iowa: The College of Dentistry Receives 1st Place for Week 5

March 1 marked the halfway point of RecycleMania at the University of Iowa (UI). During weeks one and two, the UI recycled or composted 67 percent and 57 percent of its waste.

The UI ranked first and second in the Big Ten for the first two weeks of the competition. Nationally, the UI has been in 10th and 21st place out of 149 colleges and universities.

During week five, the Dental Science Building received first place.

More than 1,000 Hawkeyes have taken a pledge to recycle and have participated in RecycleMania activities. You can still win a variety of prizes, such as Downtown Association gift cards, mugs/tumblers, and the coveted RecyHawk Trophy for the building you represent.

For additional information, go to https://sustainability.uiowa.edu/news/recyclemania-2017-update/.
2017 AADR Meeting
Dental School Rankings
by Number of Presenters

University of California, San Francisco 83
University of Michigan 63
University of Iowa 58
Tufts University 56
Boston University 53
Ohio State University 53
University of North Carolina 49
New York University 47
University of Minnesota 45
University of Alabama-Birmingham 43
**Recent Publications**

Adams DF. The embedded counseling model: an application to dental students. *J Dent Educ.* 2017 Jan;81(1):29-35. (Note: Dr. Adams was staff psychologist here at the UI CoD at the time of this study.)


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**Lend a Hand to a Co-Worker**

Due to a serious medical issue, Sherry L. Harris, our College of Dentistry custodian from Facilities Management, will soon exhaust her sick leave and vacation. Anyone who wishes to help Sherry by contributing vacation time can go to [https://hr.uiowa.edu/sites/hr.uiowa.edu/files/contrib.pdf](https://hr.uiowa.edu/sites/hr.uiowa.edu/files/contrib.pdf). Once the form is completed, please send it to the Benefits Office, USB. Any contributions of one hour or more on Sherry’s behalf will be truly appreciated.

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**Cedar Rapids Vanpool Opening**

*(8 am-5 pm)*

Please contact Steve Luckman

(steve-luckman@uiowa.edu)

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**Enjoy the Galapagos Islands Vicariously!**

If you missed Dean Johnsen’s travel presentation about his trip to the Galapagos Islands, you can still enjoy his photos — go to: [https://www.dentistry.uiowa.edu/galapagos](https://www.dentistry.uiowa.edu/galapagos).

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**Attention ADEA/AADR Attendees:**

**Request for Hotel Shampoos/Soaps**

For those of you who will be attending either the ADEA or AADR meetings in March, please consider bringing back your extra hotel shampoos and soaps so they can be given to our Muscatine Clinic.

You may drop them off in a designated box outside Penni Ryan’s office (N348 DSB).

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**Dental Filling Station**

**March 27-31, 2017**

**Monday**

Fried Chicken with Potato & Vegetable $6.00

$1.00 Fountain with any Purchase

Soup du Jour $2.65 / $3.65

Salad Bar, Deli, Pizza, & Paninis

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**Tuesday**

Chicken Enchilada with Rice & Beans $6.00

$1.00 Coffee with any Hot Breakfast

Soup du Jour $2.65 / $3.65

Salad Bar, Deli, Pizza, & Paninis

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**Wednesday**

Smoked Pork Sandwich & Chips $4.80

$1.50 Granola Bar & Yoplait Yogurt

Soup du Jour $2.65 / $3.65

Salad Bar, Deli, Pizza, & Paninis

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**Thursday**

Taco Bar!!!!

Meatloaf with Potato & Vegetable $6.00

$2.00 Breakfast Sandwich

Soup du Jour $2.65 / $3.65

Salad Bar, Deli, Pizza, & Paninis

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**Friday**

Chicken Parmesan with Pasta $6.00

2 for $2.50 on 20 oz. Coke Product

Soup du Jour $2.65 / $3.65

Salad Bar, Deli, Pizza, & Paninis

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**Any Witnesses to Car Damage in Lot 40?**

Karen Kluesner, Dental Research, discovered that someone had scraped her red Chevy Malibu, which was parked in the first row of Lot 40, on Monday, March 20. The bumper will need to be repaired. She parked next to a white SUV and that is the suspected vehicle because white paint was left on her car. Karen usually arrives at work before 7 am and yesterday she left around 4:30 pm.

Campus police are reviewing cameras to identify the suspected vehicle. If the person steps forward, charges will not be filed. If charges are filed, they could face a $695 fine, 30 days in jail and suspension of their license for one year. If anyone has information or witnessed the accident, please contact Karen Kluesner (319-335-7377) or the police (gabriella-blanchard-shreck@uiowa.edu).
Noon Seminar Series

“Person-Centered Management of Dental Caries.”

Galagan 14B DSB
Thursday, March 30, 2017
12:00 – 1:00 PM

Student Seminar Credit available

Individuals with disabilities are encouraged to attend all University of Iowa-sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact The College of Dentistry at (319)335-9650.
An evening with David J. Skorton

Education and What We Value:
How STEM and the Liberal Arts Nourish Each Other

Thursday, March 30, 7:30 p.m.
Hancher Auditorium
College of Dentistry

Fei Liu, DDS, PhD
Assistant Professor of Dentistry -
Department of Biologic and Materials
Sciences, Division of Prosthodontics –
School of Dentistry – University of
Michigan – Ann Arbor

Noon Seminar Series

“The Mechanism of Increased Craniofacial Bone Formation in a Mouse Model of Tubercous Sclerosis”

Galagan 14A DSB
Tuesday, April 4, 2017
12:00 – 1:00 PM

Student Seminar Credit available

Individuals with disabilities are encouraged to attend all University of Iowa-sponsered events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact The College of Dentistry at (319)335-9650.
The University of Iowa
College of Dentistry &
Dental Research Clinics

Faculty Lecture Series

“Oral Streptococci and Microbial
Contributions to Dental caries”

Jeffrey Banas, PhD
Professor,
Department of Pediatrics

12:00-1:00 P.M.
Tuesday, April 11, 2017
Galagan 14C DSB

Seminar credit for Students available.
Refreshments will be served. We hope to see you there

Individuals with disabilities are encouraged to attend all University of Iowa-sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact The College of Dentistry at (319)335-9650.