

UA/Banner Derm Update



University of Arizona College of Medicine - Tucson

December 2023

Issue #2

Message from the Division Chief

Welcome to our second annual "UA/Banner Derm Update" issue.

The Division continues to strategically expand to fill the needs of our community and our trainees. Several foundation blocks have been set in place this year, and we are excited to share these developments with all of you.

We must take a moment to share the successes and the special moments we have experienced throughout the year and maintain our unity and alignment as we build a brighter future for our patients, trainees and everyone involved.

I wish you all a healthy and joyful holiday season. Enjoy the update!

Yours,

Clara



Clara Curiel-Lewandrowski, MD Professor of Medicine



Welcome to new Faculty, Trainees, and Administrated Staff this Year!

- Daniel C. Butler, MD Associate Professor of Medicine - March 2023. As mentioned last year, Dr. Butler has a dual role as Director of the UA/Banner Inflammatory and Aging Skin Research Program (IASRP), and Assistant Dean of Students in the College of Medicine
- Julio Valencia Associate Director of the Division. We welcome back Julio as a dedicated administrator for the Division of Dermatology
- Sheyda Mesgarzadeh Cutaneous Oncology Research Fellow 2023-2024. Sheyda is an MS3 at UA COM-T who is taking a gap year to work on several exciting cutaneous oncology projects.
- Soha Ghanian, MD PGY2, Joined us from Brown University Medical School. Transitional year at Tucson Medical Center

- Alexander Rose, MD PGY2 Joined us from UNM Medical School. IM Preliminary year at Scripps MercyHospital
- Nathan Chow, MD PGY2 -Joined us from Texas Tech University Medical School, IM Preliminary year at Loyola-Macneal Hospital
- Luz Badilla Joined the Infammatory and Aging Skin Research Program to bring in sponsor initiated trials under the guidance of Dr. Daniel Butler as a Clincial Research Coordiantor in April 2023.
- Victoria Valdez Joined the Patient Registry -Imaging -Tissue Bank Team (PRIT) as a Clinical Research Coordiantor in June 2023. She supports enrollment and database update.

This is a publication of the <u>Division of Dermatology</u> in the <u>Department of Medicine</u> at the <u>University of Arizona College of Medicine – Tucson</u>. Contact: Angelica Bonfiglio, (520) 694-2020, <u>angelicab@arizona.edu</u> or <u>angelica.bonfiglio@bannerhealth.com</u>

Cutaneous Oncology



Mohammad Fazel, MD Assistant Clinical Professor

Cutaneous oncology is a pillar of our Dermatology Division, and we are fortunate to have an amazing team focused on taking care of our high-risk skin cancer patients. The dermatologists leading this team consist of **Drs. Clara Curiel** and **Mohammad Fazel** alongside **Delaney Stratton**, **PhD**, **DNP**, **FNP-BC**. In addition, our great medical assistant, **Abrielle Stikeleather**, provides the essential support needed to provide exceptional patient care. Our practice includes a weekly multidisciplinary cutaneous oncology tumor board which incorporates the expertise of physicians from disciplines including dermatology, medical oncology, surgical oncology, dermatopathology, and radiation oncology to aid in navigating our patients' complex disease states.

We provide care to patients with dermatologic diseases such as advanced melanoma, squamous cell carcinoma, and basal cell carcinoma, in addition to rare cutaneous malignancies such as merkel cell carcinoma, Sezary syndrome, mycosis fungoides, B cell lymphomas, T cell lymphomas, lymphomatoid papulosis, sebaceous carcinoma, and many others. Our cutaneous oncology clinics are on Mondays at the Pima Canyon clinic location (7165 N. Pima Canyon Drive) and Thursdays at the University of Arizona Cancer Center at Banner – University Medicine North in Tucson.

Inflammatory and Aging Skin Research Program



Daniel C. Butler, MD Associate Professor of Medicine Director, Inflammatory and Aging Skin Research Program



Rebecca Thiede, MD Assistant Clinical Professor Associate Program Director, Dermatology Residency

Our research and clinical program aim to address the medical dermatology needs of Southern Arizona and the state at large. We hope to provide a focus of innovation, creativity, discovery and excellence in clinical care. Diseases such as atopic dermatitis, hidradenitis suppurativa, pruritus, psoriasis, vitiligo, pemphigus and more require the expertise and focus we aim to provide. Furthermore, we will also explore the impact of aging on skin disease. We hope to lead a growing movement of aging research in the field of Dermatology as international experts.

Aesthetics/Lasers Program

Tired of patients asking you for aesthetic or laser medical procedures but having to send them away? Ready to rid yourself of that tattoo you got when you were 18 when you had the entire world figured out? Good news, you are in luck!

The official commencement of the Banner – University Medical Multispecialty Aesthetics Program and Laser Center has officially taken place at Pima Canyon! This new aesthetics program will be a collaborative approach between ENT, Plastic Surgery and Oculoplastics.

Gerald Goldberg, MD, and **Dr. Rebecca Thiede** are leading the laser section. We have eight lasers with over 15 modalities including PDL, KTP, CO2, IPL, Erbium, Nd:YAG, and non-ablative fractional – with more coming. This is the most diverse laser program in the state of Arizona! We look forward to serving our patients of all ages in this exciting new capacity!

Derm Residency Program



Clara Curiel-Lewandrowski, MD Program Director, Dermatology Residency Dermatology Division Chief

The UA/Banner Dermatology program continues to thrive. We had a terrific year with residents presenting at several meetings, including the AAD, Pacific Derm Society, and the UA Department of Medicine Grand Rounds. They also participated in the 2023 Dermoscopy Bowl and ranked number 7 in this highly competitive international event. Well done DermCats!

In addition to our continued dedication to excellence in clinical training, the residents have significantly increased their engagement in clinical and translational research in diverse topics ranging from the treatment of androgenetic alopecia to a novel app for dermoscopy training and unique imaging modalities, among others.

We also have diversified the dermatopathology training curriculum to include personalized education under the leadership of **Keliegh Culpepper, MD**, at UA, on-site sign-out of cases with Kim Hiatt, MD, at DermPath Diagnostics, and remote training with four different providers on the East Coast, significantly expanding the breadth of dermpath education.

Lastly, we are delighted to mention that our recent grads, **Melody Maarouf, MD**, **Christopher Moreno, MD**, and **Mitch Herold, MD**, passed their ABD board examination and have moved on to incredibly exciting careers. Congrats!

Mohs Fellowship



Jason DuPont, MD Clinical Associate Professor Mohs Program Director

Mohs surgery is a board-certified subspecialty in dermatology pioneered by Frederic Mohs at the University of Wisconsin in the 1930s. Mohs surgeons act as both surgeon and pathologist, essentially combining two disciplines into one role to treat many different types of skin cancer. There are two main advantages to Mohs. First, this "tissue sparing" technique preserves as much normal surrounding skin as possible by excising the skin cancer in "stages." Second, Mohs provides the highest possible skin cancer cure rate by carefully analyzing the entire peripheral and deep margins to make sure they are free and clear of tumor. Once the cancer is completely removed the surgical wound is typically repaired with stitches to give the best possible aesthetic and functional result.

At the University of Arizona Cancer Center, we have our own dedicated Mohs suite with two excellent surgeons, **Dr. Jason DuPont** and **Duane Whitaker, MD**, as well as an outstanding team of nurses, histology techs, and medical assistants. The University of Arizona Dermatology program has the only Mohs fellowship training program in the state, and we are pleased to welcome **Jeff Krase, MD**, as our fellow this year.

Division Updates UA/Banner Laser Center of Excellence

The Multispecialty Aesthetics Program and Laser Center hosted an Open House on July 25. A presentation detailing the breath of the program was presented by Dr. Rebecca Thiede, Dr. Gerald Goldberg and **David Chen, MD**, the Otolaryngology Department's director of the Division of Facial Plastic and Reconstructive Surgery.

For more on that, see the following DOM News items:

- "Dermatology to host open house for new Multispecialty Laser and Aesthetics Program" | Posted July 24, 2023
- "Photo Gallery: Derm open house unveils 'Multispecialty Laser & Aesthetics Program'" | Posted August 11, 2023

UA/Banner Laser Center of Excellence



Gathered for the open house (L-R): University of Arizona College of Medicine – Tucson Dean Michael M. I. Abecassis, MD, MBA; UArizona President Robert C. Robbins, MD; Senior Vice President for Health Sciences Michael D. Dake, MD; Rebecca Thiede, MD, associate program director, Advanced Dermatology Residency, Division of Dermatology; David Chen, MD, Division of Facial Plastic & Reconstructive Surgery in the Department of Otolaryngology; Gerald Goldberg, MD, a professor and laser surgery global expert in the Division of Dermatology and Department of Pediatrics; Clara Curiel-Lewandrowski, MD, Dermatology division chief and co-director UArizona Skin Cancer Institute; Banner – University Medical Center Tucson and South hospitals CEO Sarah Frost, and Banner – University Medical Group CEO "Bob" Venkata Evani, MD.

Dermoscopy Bowl



Pictured: Dr. Zaidal Obagi, Dr. Aleksi Hendricks, Dr. Katherine Robbins and Dr. Melody Maarouf



Pictured: Dr. Mitch Herold, Dr. Amy Singh, Dr. Aleksi Hendricks, Dr. Melody Maarouf and Dr. Zaidal Obagi

Imaging Sound and Light



Dermatology and UACC Interim Leadership Council

The UArizona Cancer Center is now led by an executive council of three well-respected research leaders while searching for a new director.

Learn more: bit.ly/3N8mPzX and ow.ly/IZcV50Q7w8r

Pictured right: Juanita Merchant, MD, PhD, Rachna Shroff, MD, MS, and Dr. Clara Curiel-Lewandrowski **Eric Reichel, PhD**, successfully defended his dissertation with the support of our Dermatology Division in collaboration with the Medical Imaging Department. Eric's project was focused on "IMAGING SOUND AND LIGHT: A NOVEL PHOTOACOUSTIC VOLUME IMAGING SYSTEM FOR THE ASSESSMENT OF SUSPICIOUS SKIN LESIONS". It is exciting for our division to be part of the development of this novel skin directed imaging technologies.

Pictured left: Dr. Clara Curiel-Lewandrowski, Dr. Eric Reichel and **Russell S. Witte, PhD**



Awards

Academy of Medical Educational Scholars (AMES)



Katherine Robbins, MD Dermatology Resident PGY3

Grant: Academy of Medical Educational Scholars (AMES) **Project:** Dermoscopy Performance and Educational Phone Application

Supervisor: Clara Curiel-Lewandrowski, MD

Description: Despite the wide use of phone apps in today's age, personalized educational resources for dermatologists in this space are lacking. To fill this gap, we are developing a dermoscopy phone application that tracks the dermatologist's diagnostic accuracy of skin biopsies over time. Users can utilize built in app statistics to identify areas for improvement and review their personal image library. In addition to enhancing self-directed learning, this software would be a valuable tool in a medical residency setting.

Academy of Medical Educational Scholars (AMES)



Delaney Stratton, PhD Nurse Practitioner

A Special Thank You!

We are grateful to Dr. & Mrs. Whitaker for their generosity. They have established the Linda A. and Duane Whitaker Dermatology Travel Endowment at the University of Arizona College of Medicine – Tucson.

The intention of this gift is to support residents and junior faculty to attend educational events and advance their academic development.



We were able to support attendance by Dr. Melody Maarouf and **Amy Garcia-Singh, MD**, at the American Society for Laser Medicine and Surgery (ALSMS) Conference, held in Phoenix in April 2023.

With Gratitude

We also would like to thank our outgoing clinical associate director **Monique Murillo** (second from right in photo at right) for her dedicated support to the division over the past $3^{1/2}$ years. We were awarded the Academy of Medical Education Scholars (AMES) grant for our study: "Dermatocast for 'onthe-go' dermoscopy training: a feasibility study." The study aims to create a novel dermoscopy screen (or Dermatocast attachment) for residents to increase their dermoscopy exposure and improve their identification of suspicious skin lesions. With our funding, we were able to create the dermatocast to bring to the clinic for testing. This pilot grant will allow us to fine tune the dermatocast for future educational use.

Donations

To support the Dermatology Residency Program or our research efforts Please click here!

If you have any questions, please contact:

donorservices@uafoundation.org

(520) 621-5491

or

(800) 409-9791



Research Post-Docs



Sheyda Mesgarzadeh Cutaneous Oncology Research Fellow June, 5, 2023

Projects:

- Prognostic models in melanoma
- Clinical research databases for melanoma
- Safety profile of treatments for non-melanoma skin cancers
- Medical decisions making algorithms for nonmelanoma skin cancer.
- Clinical trials
 - o Androgenetic Alopecia



Sami Jelousi, PhD Post-doctoral Fellow in the Inflammatory and Aging Skin Research Program July 3, 2023

Projects:

- Medication access in dermatology for Medicare patients
- Medication safety in older adults
- Outcome measures in Older Adults
- Recreation of the Tucson Dermatology Society
- Clinical Trials
 - HS
 - Scalp and Genital Psoriasis

Skin P01 EAB Image

The Targeted Prevention for Nonmelanoma Skin Cancer NIH P01 grant (PIs: Dr. Clara Curiel-Lewandroski and **Georg Wondrak, PhD**) held their annual External Advisory Board (EAB) meeting in September to discuss research progress and future plans. P01 team members and the EAB traveled to Tucson from multiple collaborative institutions across the country to participate in the discussions. The day-long meeting concluded with dinner at the Arizona Inn with the P01 Project and Core Leaders and the EAB members.



Dermatology Pilot Grants

The 2022 Dermatology Seed Grant for Trainees was awarded to **Patrick Jedlowski, MD**, with Dr. Rebecca Thiede as his mentor. These funds are being used to support the LaserCap Clinical Trial for male and female pattern hair loss / androgenetic alopecia.

The study aims to provide additional information supporting the use of photobiomodulation for androgenetic alopecia. Photobiomodulation (also called low level laser therapy) is based upon the use of light to stimulate cellular proliferation, in this case the hair follicle, for the treatment of androgenetic alopecia.

The clinical trial is double blinded and randomizes patients to either a sham, low-energy and high-energy device.

This clinical trial began recruitment on 7/13/2023, and has recruited 14 of its goal of 50 patients thus far and is expected to finish recruitment by the end of the academic year.

Alumni Spotlight



The Entrepreneurs: Drew Kurtzman, MD, and Christie Alexander, MD

"Our company is founded and operated by two U.S. board-certified dermatologists with more than 20 years of patient care experience. We founded <u>MDCrafted</u>, a skin care brand intent on providing you with effective and natural skin care solutions that actually work."

Congratulations Christie and Drew! We wish you success on this exciting venture.

Residency Graduation 2023





Mitch Herold, MD, Melody Maarouf, MD, Christopher Moreno, MD and Brianna Castillo, MD

Dermatology Family Life

Dermatology faculty & staff celebrate Halloween 2023!





Becky and Rob's Baby shower for Baby Everett!



Retirement Party for Yolanda Ritter, MA







Dermpath Diagnostics Departure Allen Miraflor, MD

Publications 10/2022 – 11/23

Dermatologic facial applications of Morpheus8 fractional radiofrequency microneedling. Hendricks AJ, Farhang SZ. J Cosmet Dermatol. 2022 Oct;21 Suppl 1:S11-S19. doi: 10.1111/jocd.15231. Epub 2022 Aug 2. PMID: 35916259 Review. This article aims to describe the technology utilized in fractional RF microneedling (Morpheus8, InMode Aesthetics) and its studied applications in dermatology for treatment of the face....

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While alternate technologies for radiofrequency facial remodeling are commercially available, Evoke is the first of its kind in introducing a reliable, operator-independent hands-free device developed based on InMode's proprietary Acquire, Control, and Extend technology...

<u>Review: PD-L1 as an emerging target in the treatment and prevention of keratinocytic skin</u> <u>cancer.</u> Vaishampayan P, Curiel-Lewandrowski C, Dickinson SE. Mol Carcinog. 2023 Jan;62(1):52-61. doi: 10.1002/mc.23464. Epub 2022 Sep 19. PMID: 36121318 Review.

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Handheld cross-polarised microscope for imaging individual pigmented cells in human skin in vivo. Romero R, Zhao J, Stratton D, Marcelino K, Sugimura M, Nichols A, Gonzalez S, Jain M, Curiel-Lewandrowski C, Kang D. J Microsc. 2023 Oct;292(1):47-55. doi: 10.1111/jmi.13225. Epub 2023 Sep 17. PMID: 37698068

More Publications 10/2022 - 11/23

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Innovative Rocuronium Bromide Topical Formulation for Targeted Skin Drug Delivery: Design, Comprehensive Characterization, In Vitro 2D/3D Human Cell Culture and Permeation. Ruiz VH, Encinas-Basurto D, Sun B, Eedara BB, Roh E, Alarcon NO, Curiel-Lewandrowski C, Bode AM, Mansour HM. Int J Mol Sci. 2023 May 15;24(10):8776. doi: 10.3390/ijms24108776. PMID: 37240122

Disseminated sporotrichosis mimicking pyoderma gangrenosum in a patient with chronic lymphocytic leukemia. Thompson AM, Obagi Z, Ramos-Herberth FI. Int J Dermatol. 2023 Sep;62(9):e483-e484. doi: 10.1111/ijd.16589. Epub 2023 Jan 22. PMID: 36683128 No abstract available.

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Characterizing Dermal Transcriptional Change in the Progression from Sun-Protected Skin to Actinic Keratosis. LaFleur B, Curiel-Lewandrowski C, Tapia E, Parker J, White L, Chow HS, South AP. J Invest Dermatol. 2023 Jul;143(7):1299-1302.e3. doi: 10.1016/j.jid.2022.12.021. Epub 2023 Jan 26. PMID: 36708948

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Association of Nonmelanoma Skin Cancers, Melanoma, and Merkel Cell Carcinoma with Dermatologic Medications: A Case-Control Pharmacovigilance Study of the FDA Adverse Events Reporting System. Jedlowski PM. Dermatology. 2023;239(5):694-699. doi: 10.1159/000530107. Epub 2023 Apr 13. PMID: 37054693

Retrospective Cohort Analysis of Sex Differences in American Indians and Alaska Natives with Invasive Melanoma from the National Cancer Database. Fernandez JM, Mata EM, Erdrich J, Fazel M. Dermatol Surg. 2023 Aug 14. doi: 10.1097/DSS.00000000003898. Online ahead of print. PMID: 37602949 No abstract available.

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