

Research Division

WELCOME FROM THE DIRECTOR

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Hello and welcome to the Summer Edition of the Department of Family & Community Medicine Research Division Newsletter. Here you will find updates and news on our many projects and community collaborations.

Let us know how we might work together and assist with building your project from grant submission to dissemination.

-Sandra (Soni) Regan, PhD
Director of DFCM Research Division

Research Division and students complete successful summer experience

The Research Division again hosted its summer experience to ten medical students in a primarily virtual environment. Despite some physical distance, the summer again proved high yield with strong contributions by the students in various stages of several projects under the mentorship of Research Division faculty and staff. This year's projects included: examining stress and depression in Latinx immigrants at La Salud with Shanna Stryker, MD MPH, updating content for substance use disorder training modules also with Dr. Stryker and Daniel Hargraves, MSW, collecting and reviewing microaggression survey data from medical students with Anisa Shomo, MD, identifying challenges in care of older adults with diabetes with Susan Davis, DO, and working with the Walnut Hills food project with Sandra Regan, PhD and family medicine residents, among many other projects. Many students have already begun to draft abstracts to present their work with these projects at national conferences, a perk and ongoing tradition of students staying connected to the projects and mentors after their summer experience has ended.

The staff and faculty of the Research Division also again hosted a distanced virtual iteration of their weekly research curriculum. The program features weekly sessions on conducting literature searches, IRB protocols, quantitative and qualitative methods and analysis, and interpreting and disseminating results. These sessions were archived with the plans of creating a catalog of enduring materials to share with the larger Department of Family & Community Medicine to facilitate research accessibility and collaboration for all faculty and staff.

The summer experience culminated in a presentation by each student detailing their project and curriculum experience. The curriculum was again evaluated so that the division maintains an active feedback loop for continuous improvement for future cohorts. Each year yields exceptional work from these dedicated students. We are grateful for the opportunity to share this experience each summer!



Abbey Epplen



Anthony Sara



Danielle Johnson



Isabella Toledo



Jourdan Mason



Lauren Houshel



Malea Rolfsen



Sam DeJesus



Maria VanBerkum



Susan Fain

SOCIAL DETERMINANTS OF HEALTH WEB-BASED SIMULATION PROJECT: HEALTHCARE EXPERIENCES OF UNDERSERVED PATIENTS

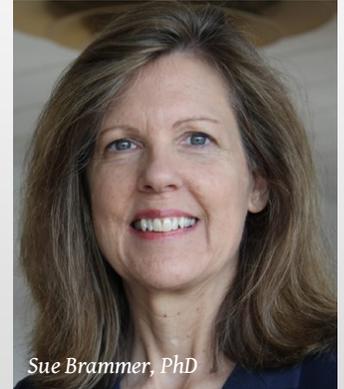
The UC Department of Family & Community Medicine and their partners at the UC College of Nursing have received a grant from the Ohio Department of Medicaid to create a new series of online patient experiences that will highlight underserved patients. Research Division Director Saundra Regan, PhD, will serve as PI for the College of Medicine, with Sue Brammer, PhD as PI for the College of Nursing.

The simulations will include experiences of a chronically homeless patient with severe mental illness, a transgender patient, and a patient with intellectual and developmental disabilities in the process of transitioning from Pediatric to Adult Primary Care. After development and evaluation, these tools will be available to Ohio Medicaid providers to enhance their education in the care and understanding of these underserved populations.

See page 3 to experience the current simulations now available online!



Saundra Regan, PhD



Sue Brammer, PhD



WELLNESS CORNER

By Mary Beth Vonder Meulen, RN

Bees and Wasps and Hornets, Oh My!

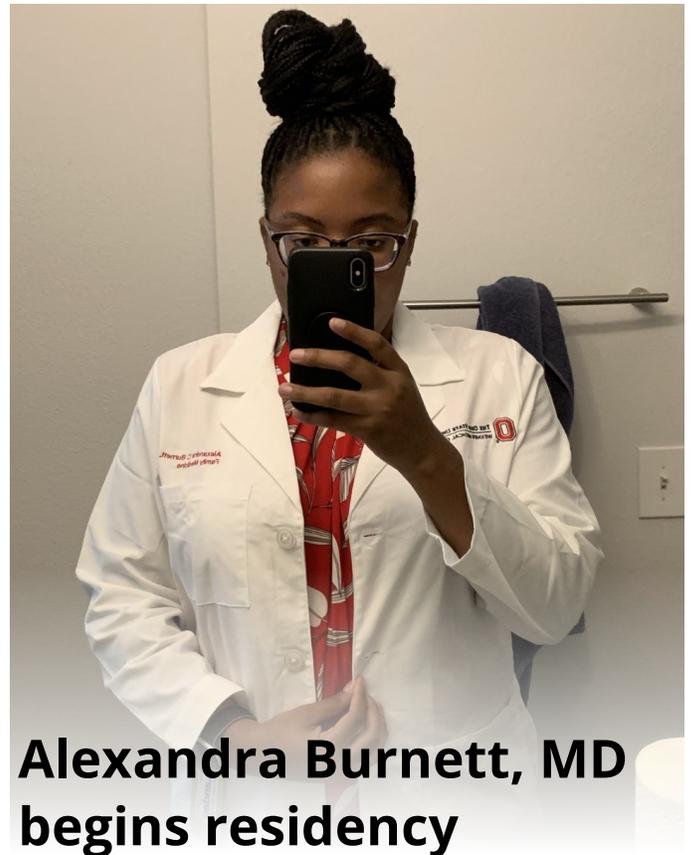
Bees, wasps and other stinging insects can be found throughout the US and are abundant in warmer months. They may build nests and hives in trees, under eaves and even in equipment.

How to prevent those stings?

- ◆ Avoid perfume and scented body products
- ◆ Avoid banana or anything with banana scent.
- ◆ Bathe and wear clean, light-colored clothes daily (sweat may anger some bees).
- ◆ Keep work areas clean, esp. of food/drink waste.
- ◆ If attacked by several stinging insects, run to get away from the area. Bee stings release a chemical which may attract other bees.
- ◆ Do not jump into the water. Some insects will hover above water
- ◆ Everyone with a known allergy should wear a medical ID bracelet/necklace and carry an EpiPen (epinephrine auto injector)

If stung

- ◆ Have someone stay with you in case of allergic reaction.
- ◆ Wash with soap and water. Ice may help to reduce swelling.
- ◆ Remove stinger by wiping gently over area. Never squeeze stinger or use tweezers.
- ◆ Avoid scratching as may increase risk of infection.
- ◆ Seek medical care immediately for difficulty breathing, severe swelling or other symptoms



Alexandra Burnett, MD begins residency

Former Research Division team member Alexandra Burnett, MD officially began her family medicine residency at the Ohio State University in June 2021. With so many accomplishments and contributions in her brief time here, we are confident she will be highly successful in her journey!

DISSEMINATION

Posters and Presentations

Mendell A, Schuckman S, Hildreth L, Kues JR, **Knapke JM**. “Professional Development for Team Science Faculty.” International Network for the Science of Team Science (INSciTS) Annual Conference, Blacksburg VA (virtual), June 2021.

Knapke JM, Tobias B, McCabe E, Mount HR, **Regan SL**. “Use of Machine Learning to Guide Qualitative Data Analysis of Medical School Admissions Data.” International Congress of Qualitative Inquiry (ICQI), Urbana-Champaign IL (virtual), May 2021.

Mount H, **Knapke JM**, McCabe E, Keiser T, Olaniyan H, **Regan S**, and Tobias B. “Pipeline tracking: Use of Artificial Intelligence To Identify Potential FM Students.” Society of Teachers of Family Medicine (STFM), New Orleans LA (virtual), May 2021.

Knapke JM, Straughn V, Schuckman SM, Veevers J, Blackard JT, Ryan PH. “Pipeline Programming to Increase Clinical & Translational Research Workforce Diversity.” Translational Science Annual Meeting, Washington, D.C. (virtual), March 2021.

Publications

Knapke JM, Schuckman SM, Lee RC. Collaboration in Appointment, Reappointment, Promotion, and Tenure Criteria: Does It Matter? *Higher Education Policy*, accepted March 2021. DOI :10.1057/s41307-021-00238-w

Kaeppler C, Holmberg P, Tam RP, **Stryker S** et al. The impact of global health opportunities on residency selection. *BMC Med Educ* 21, 384 (2021). <https://doi.org/10.1186/s12909-021-02795-5>

Yockey A, **Stryker S**. The Epidemiology of Cocaine Use Among Hispanic Individuals: Findings From the 2015–2018 National Survey of Drug Use and Health. *Hispanic Health Care International*. 2021;19(2):105-111. doi:10.1177/1540415320971634

Stryker S, Pallerla H, Yockey RA, Bedard-Thomas J, Pickle S. *Transgender Health*. In press. doi.org/10.1089/trgh.2020.0123

Stryker S, Yockey RA, Rabin J, Vaughn LM, Jacquez F. *Health Equity*. Aug 2021.338-344. <http://doi.org/10.1089/heq.2020.0112>

Ohio Department of Medicaid Virtual Sim experience now online



All healthcare professionals are invited to experience a healthcare encounter from the point of view of an underserved patient. These simulations, developed with a grant from the Ohio Department of Medicaid, will let you experience the challenges faced by patients beyond the symptoms of their illnesses, such as unstable housing and social isolation, and to see how those challenges impact health care.

We invite you to try one or both simulations which are available online at <https://nursing.uc.edu/mespsdoh.html>

Research Division team member Shanna Stryker, MD MPH demonstrates project focus on improving health outcomes in our communities and beyond



The newest member of the Research Division is already making a substantial impact. Shanna Stryker, MD MPH brought her strengths in successfully managing multiple projects to the division, as evidenced by just a few of the several initiatives below where she is active.

From Dr. Stryker:

LU-SALUD

For our study funded by Next Lives Here, Latino community co-researchers collected 121 surveys from Cincinnati Latinos. The surveys revealed information about stress and preferences for learning stress management during the pandemic. We found that levels of stress were surprisingly not very high during the pandemic, and are setting up community conversations to share the results with participants and lead a discussion on why stress levels were not very high.

In addition, our team had a literature review published on the psychometric properties of stress scales in Latinos, and a team of medical students and FMP resident Dr. Crosbie-Cockroft helped us complete a literature review on the psychometric properties of resilience scales in Latinos that we are currently writing.

Refugee Health Literacy

Last school year Dr. Stryker and Mentalla Ismail evaluated a pilot program of a health literacy curriculum implemented by Refuge Cincinnati volunteers to high school ESL students at Aiken High School. Undergraduates Adam Elzarka and Sonali Doshi presented preliminary results at the UC Undergraduate Symposium (<https://www.youtube.com/watch?v=7OUx8vDdxoQ>) and won best presentation award! Next, the team will present our work at the North American Refugee Health Care Conference in September, and are planning on scaling up the curriculum to include more ESL classes across Cincinnati Public Schools.

Immigrant Refugee Law Center Partnership

This summer, medical students worked with Dr. Stryker and two clients of the Immigrant and Refugee Law Center (IRLC) to plan a large-group participatory group session for IRLC clients, in which we learned about the impact of the pandemic on the life course of immigrants/refugees, about their experiences accessing health care services in Cincinnati, and planned how to improve health access.

In addition, two medical students and a law student have been working with Dr. Stryker to do a study evaluating the feasibility of a student-centered medicolegal partnership advocating for individuals seeking asylum.

Medical Student Global Health Interest Survey

Drs. Schubert and Stryker worked with physicians across the region to survey graduating medical students on how the availability of global health programming affects residency rank lists. Results showed that global health opportunities are important to medical students applying to residency, and were just published in BMC Medical Education.

Guatemala Mental Health Project ECHO

Drs. Schubert, O'Dea, and Stryker worked with psychologist Dr. Maria Espinola from UC, Dr. Ana Cordon Juarez from Wuqu' Kawoq, and psychologists Dr. Dina Elias Rodas and Maria del Pilar Grazioso from la Universidad del Valle de Guatemala to lead a pilot Project ECHO program. Our five sessions were well-attended by Wuqu' Kawoq nurses and physicians, as well as medical and nursing students on their rural health rotation from the Universidad de San Carlos de Guatemala. We are evaluating participants' changes in attitudes and self-efficacy, as well as program implementation outcomes and sustainability.

Research Directory

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Dedicated full-time staff members with over 50 years of cumulative experience provide full project support from assisting in design and implementation to analysis and evaluation. The division offers expertise in:

- Project Management
- Data Management
- Grant Writing
- IRB Protocols
- Statistical Analysis
- Data Collection Methods
- Project Reports
- Manuscript Development, Writing and Editing
- Research Nurse
- Qualitative Research



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