



TEXAS A&M UNIVERSITY
Irma Lerma Rangel
School of Pharmacy



TEXAS A&M UNIVERSITY IRMA LERMA RANGEL SCHOOL OF PHARMACY
DEPARTMENT OF PHARMACY PRACTICE
ANNUAL REPORT - 2022



OUR MISSION

We develop future pharmacy leaders and advance health through innovation and compassionate care.

OUR VISION

To be leaders and innovators in the advancement of health, patient care, pharmacy education, and research.



Department of Pharmacy Practice



George Udeani, PharmD,
DSc, FCP, FCCP

Clinical Professor and
Department Head of
Pharmacy Practice

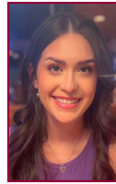


Rachel Garza
Executive Assistant I



Maria C. Benavides,
CPhT

Pharmacy Practice
Assistant



Samantha Gonzalez
Student Assistant



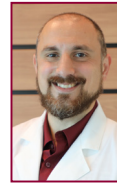
Joy Alonzo,
ME, PharmD

Clinical Assistant
Professor



Fatima Alshbool,
PharmD, PhD

Assistant Professor



Asim Abu-Baker,
PharmD

Clinical Professor
and Associate Dean
for Clinical and
Professional Affairs



Juan F. Castro,
MD, MBA

Clinical Assistant
Professor



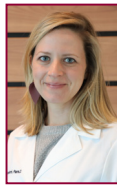
Annette DeSantiago,
PharmD

Clinical Assistant
Professor



Joan Everett-Houser,
PharmD, EdD

Instructional
Assistant Professor



Charlotte Farris,
PharmD, BCPS

Clinical Assistant
Professor



Stephen "Eric"
Grayson,
PharmD

Clinical Assistant
Professor



Heather Hay,
PharmD, BCPS,
BCACP, CD

Clinical Assistant
Professor



Trager Hintze,
PharmD

Clinical Assistant
Professor



Michael Allen
Horseman,
PharmD

Clinical Associate
Professor



Robert W.
Hutchison,
PharmD

Clinical Associate
Professor



Delaney Ivy,
PharmD, MSc,
BCPS, CDE

Clinical Assistant
Professor



Merlyn Joseph,
PharmD

Clinical Assistant
Professor



Henri R. Manasse, Jr.,
PhD

Adjunct Clinical
Professor



Anne-Cécile Mingle,
PharmD, MEd

Clinical Assistant
Professor



Andrea Mora,
PharmD

Clinical Associate
Professor



Frank North,
PharmD, MPA

Instructional
Assistant Professor



Theresa Ofili,
PharmD, MPH

Instructional
Assistant Professor



Ladan Panahi,
PharmD

Clinical Assistant
Professor



Pooja Patel,
PharmD

Clinical Assistant
Professor



Victoria B. Pho,
PharmD, BS, BCGP

Clinical Assistant
Professor



Sohail Rao,
MD, MA, DPhil

Adjunct Clinical
Professor



Sara Rogers,
PharmD, BCPS

Clinical Assistant
Professor



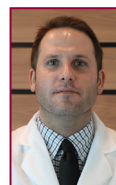
Nephy G. Samuel,
PharmD, BCPS

Clinical Assistant
Professor



Salim R. Surani,
MD, MPH, MSHM,
FACP, FCCP, FAASM

Adjunct Clinical
Professor



Andrew S. Tenpas,
PharmD, RPh

Clinical Assistant
Professor



Rene Verduzco,
PharmD, BCPS

Clinical Assistant
Professor



Jaye S. Weston,
PharmD, MS, RPh

Clinical Assistant
Professor

Letter from the Department Head

The year 2022 marked a remarkable success for the Department of Pharmacy as we emerged from the challenges of the COVID-19 pandemic. Our relentless dedication to Service, Teaching, Administration, and Research yielded significant dividends, which I am immensely grateful for. I extend heartfelt thanks to our exceptional faculty who have been at the forefront of these areas, ensuring that all departmental objectives are met. Additionally, I express deep appreciation to our invaluable stakeholders whose continuous support is crucial to the realization of our department's mission and vision.

The Departmental retreat held in December 2021 set a solid foundation for the year ahead, with a clear focus on Research and Well-being. In the realm of research, we collaborated with the American Association of Colleges of Pharmacy (AACP) and were honored to receive a \$1 million grant from the United States Food and Drug Administration (FDA). Our joint project, titled "Pharmacy Advances Clinical Trials (PACT) Network to Achieve Diversity in COVID Clinical Trials: A Strategic Framework," is dedicated to advancing the enrollment of underrepresented minorities (URM) in clinical trials. We recognize the vital role community pharmacies and pharmacists play in advocating for and recruiting URM populations. The project encompasses two aims: the first, led by our Department and Texas A&M University faculty, utilizes Artificial Intelligence (AI), Machine Learning (ML), Geospatial Intelligence (GEOINT), and Clintrials.gov data to optimize URM participation in COVID-19 clinical trials through environmental scans in target communities. The second aim, led by the AACP, focuses on creating and training a network of community-based investigators, pharmacists, and partners to increase URM participation in clinical trials. The PACT Network harnesses AI and Machine Learning tools, as well as environmental scans, to identify and recruit URM clinical trial participants. Additionally, we proudly highlight other impactful research projects and awards led by Drs. Joy Alonzo, Fatima Alshbool, Trager Hintze, and others in this report.

In the well-being arena, I am extremely pleased with the appointment of Dr. Victoria Pho as the Social Chair for the Department. Dr. Pho's creativity and unwavering commitment to faculty well-being have yielded positive outcomes in a short period. Together with the Department Head, Associate Head, Dr. Andrea Mora, and Executive Assistant, Ms. Rachel Garza, Dr. Pho spearheaded the development and implementation of the Faculty Care Team. This dedicated team has tirelessly organized various social and well-being activities, including recognizing faculty successes, celebrating birthdays, hosting a book club, arranging regional luncheons and dinner programs, conducting a well-being guest lecture, and facilitating SNACK (Stop-Nurture-Advocate-Compassion-Kindness) Time with Faculty.

I am delighted and praise the well-deserved promotions of several faculty members in 2022. Drs. Charlotte Farris and Delaney Ivy were promoted to the esteemed rank of Clinical Associate Professor, while Dr. Ladan Panahi was promoted to Clinical Associate Professor and Associate Department Head. I extend my sincere gratitude to these accomplished individuals for their years of dedication to our learners, their hard work, and their staunch commitment to our service, teaching, and research agenda. Congratulations once again!

The Department also made significant strides in service and outreach programs. Dr. Joy Alonzo continued to make a profound impact through media engagement, continuing education, with the Opioid Overdose Education and Naloxone Administration (OENA) programs. Through this initiative, she disseminates critical information to the public and train healthcare professionals and students, in recognizing and reversing opioid overdoses with





naloxone. While quantifying the lives saved through these outreach programs is challenging, we acknowledge the immense positive influence they have had. Regarding professional service, Dr. Frank North completed his term on the Texas Pharmacists Association Board of Directors and embarked on a new role as President of the National Pharmaceutical Association, further amplifying his impact on the profession. In addition, our department actively participated in various outreach programs, such as Operation Health and Wellness, where our faculty and students provided much-needed pharmaceutical care to the medically underserved in Nueces County. We also lent our expertise to Operation Lone Star in the Rio Grande Valley, engaging in impactful service to support the community. These endeavors, alongside numerous other service, and outreach activities, exemplify our commitment to making a difference beyond the confines of our institution.

I am delighted to announce the successful launch of our highly anticipated Postgraduate Year-Two (PGY2) residency program in pharmacogenomics - ambulatory care at Texas A&M Health Family Care Clinic in Bryan. This groundbreaking initiative aims to equip future healthcare professionals with advanced knowledge and skills in the rapidly evolving field of pharmacogenomics.

In this report, we showcase the exceptional achievements of our revered faculty members in both clinical practice and teaching. Their unwavering dedication and expertise have significantly contributed to the success of our program, enabling us to provide top-notch education and training to our students and residents.

Additionally, I highlight in this report the remarkable productivity of our faculty in various domains; awards, groundbreaking research, and impactful publications. Their outstanding contributions not only advance the pharmacy profession but also serve as a testament to the high caliber of education provided at our institution.

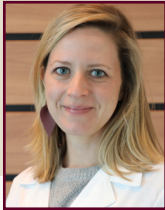
As I reflect on the accomplishments and progress made in 2022, I express my gratitude to all who contributed to the success of the Department. It is through collective efforts and unwavering dedication that we have surpassed challenges and achieved remarkable milestones. Looking ahead, I believe we will remain steadfast in our commitment to excellence, innovation, and service, eager to build upon our achievements and make even greater strides in 2023. Together, we will continue to shape the future of pharmacy and positively impact the health and well-being of our faculty and communities.

Sincerely,

George Udeani, PharmD, DSc, FCP, FCCP
Head and Clinical Professor



Teaching Achievements



**Teacher
of the Year (2022)**

Dr. Charlotte Farris, PharmD, BCPS,
P2 class



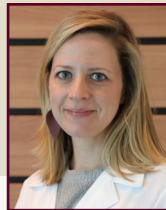
**Teacher
of the Year (2022)**

Dr. Trager Hintze, PharmD, BCCCP,
P3 class



**Faculty Preceptor
of the Year (2022)**

Dr. Nephy Samuel, PharmD, BCPS,
College Station Region



IPT 1: Electrolytes, Acid-Base, Anemia, and Kidney Disease (2022)

Pictured left to right: Dr. Charlotte Farris (coordinator), Dr. Merlyn Joseph, Dr. Fatima Alshbool, Dr. Trager Hintze

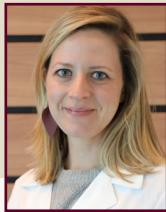


IPT 7: Infectious Diseases (2022)

Pictured left to right: Dr. Andrea Mora (coordinator), Dr. Simi Gunaseelan (co-coordinator), Dr. Hamed Ali, Dr. Michael Horseman, Dr. Ladan Panahi, and Dr. Jaye Weston



Faculty Promotions



Dr. Charlotte Farris

Clinical Associate Professor



Dr. Delaney Ivy

Clinical Associate Professor



Dr. Ladan Panahi

Clinical Associate Professor &
Associate Department Head



Service Highlights

OPERATION HEALTH AND WELLNESS



From June 21st through June 30th, 2022, Texas A&M University Health Sciences Center's Irma Lerma Rangel School of Pharmacy participated in the Operation Health & Wellness program for the medically underserved individuals in Nueces County. Operation Health and Wellness was developed in partnership with Nueces County Commissioner Joe Gonzalez, the US Army and Marine, Innovation Readiness Program (IRT), Texas A&M University Colonias program, Irma Lerma Rangel School of Pharmacy, Texas A&M Health Science Center, and local stakeholders.

Pharmaceutical services were delivered by Texas A&M faculty and students, who dispensed medications and provided therapeutic substitutions and alternate therapeutic regimens, given the limited drug formulary and drug supply. Additionally, faculty and students consulted with healthcare providers to optimize drug therapies. Medication Therapy Management activities were conducted, and several patients were counseled on their medications and drug therapy.

LIVING AND GIVING FOUNDATION

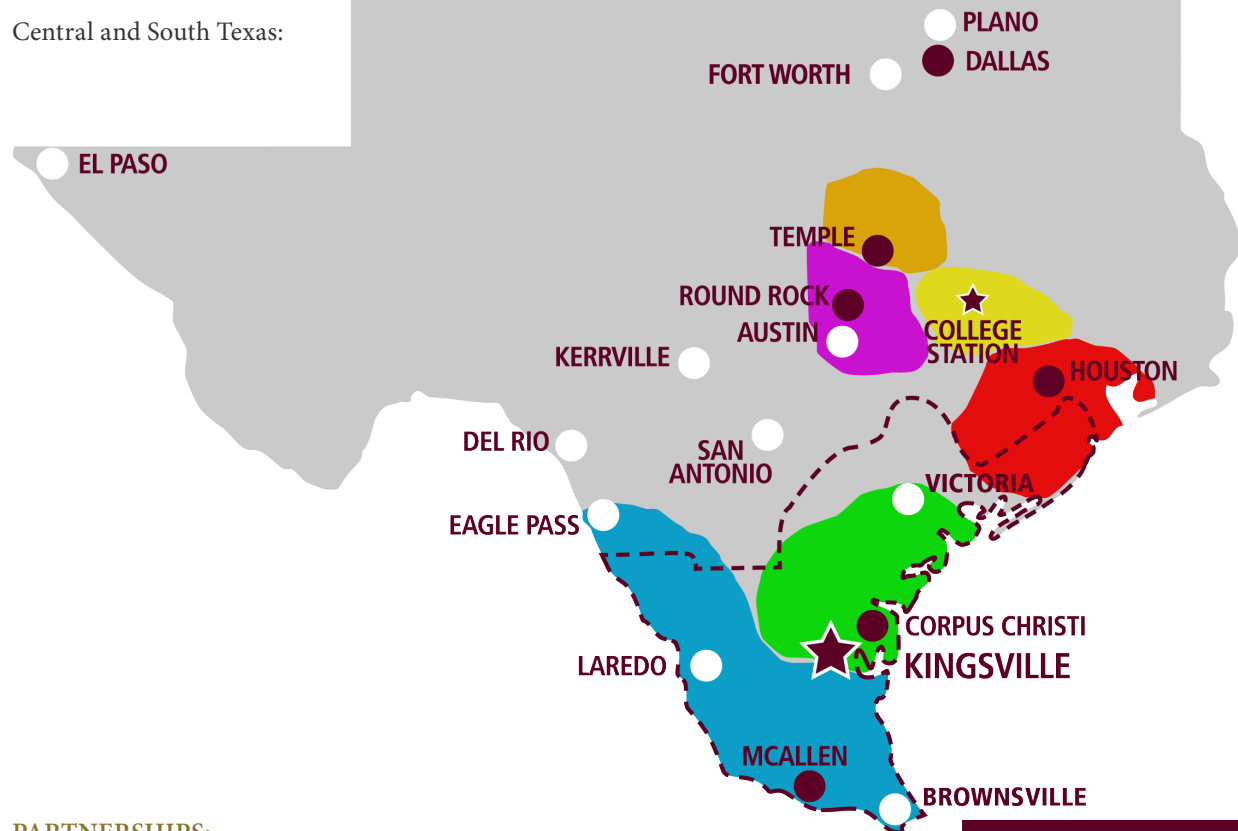
Dr. Victoria Pho, Clinical Assistant Professor, along with her husband Dr. Khoa D. Nguyen, raised over \$77,500 for the Texas A&M School of Pharmacy Endowed Scholarship and awarded nine pharmacy student scholarships in loving memory of Dr. Pho's mother, Mrs. Mai Nguyen, who passed away from cholangiocarcinoma on October 14, 2017.





Pharmacy Service

Clinical pharmacy services at the Rangel School of Pharmacy impact patients and institutions throughout Central and South Texas:



PARTNERSHIPS:

- Ascension Seton Williamson
- Baylor Scott & White Healthcare Georgetown Clinic
- Baylor Scott & White Hospital Temple
- CHI St. Joseph Health Regional Hospital
- Coastal Bend Health Education Center
- Doctor's Hospital at Renaissance
- FE Medical Services PLLC
- Health for All
- HealthPoint – Bryan/College Station
- Houston Methodist West Hospital
- Memorial Hermann - Texas Medical Center
- PAM Rehabilitation Hospital at Corpus Christi
- Sacred Health Community Clinic
- San Jose Clinic
- Texas A&M Health Family Care, Bryan
- Valley Baptist Hospital
- VA Texas Valley Health Care

32,630

DOCUMENTED INTERVENTIONS
FROM AMBULATORY CARE
FACULTY

51,960

DOCUMENTED INTERVENTIONS
FROM ACUTE CARE FACULTY

166

APPE AND IPPE
STUDENTS PRECEPTED

Scholarly Achievements

PUBLISHED ABSTRACTS AND MANUSCRIPTS

Joy Alonzo

Ory M, Lee S, Dahlke D, Pardo N, Zhong L, McCord CE, Alonzo J, Smith M. Physicians' interest in different strategies for supporting pain management and opioid prescribing: A cross-sectional study. *J Opioid Manag.* 2022 Nov-Dec;18(6):511-521. doi: 10.5055/jom.2022.0746. PMID: 36523202.

Ory M, Lee S, Smith M, Alonzo J, Clark H, Burdine J. Differences in the attitudes towards the opioid crisis between metropolitan and rural counties in Central Texas: Secondary data analysis using cross-sectional data. *Prev Med Rep.* 2022 Mar 8;26:101757. doi: 10.1016/j.pmedr.2022.101757. PMID: 35310324; PMCID: PMC8931431.

Fatima Alshbool

Ramirez J., Alarabi A, Khasawneh F, Alshbool F*, "A Novel Antibody Targeting the Second Extracellular Loop of the Serotonin 5-HT_{2A} Receptor Inhibits Platelet Function", *Int J Mol Sci.* 2022 Aug 8;23(15):8794.

Villalobos-García D, Ali H, Alarabi A.B., El-Halawany M, Alshbool F, and Khasawneh F.T., "Exposure of Mice to Thirdhand Smoke Modulates In Vitro and In Vivo Platelet Responses", *Int J Mol Sci.* 2022 May 17;23(10):5595.

Alarabi A, Mohsen A, Mizuguchi K, Alshbool F, and Khasawneh F, "Co-expression analysis to identify key modules and hub genes associated with COVID19 in platelets", *BMC Medical Genomics.* 2022 Apr 14;15(1):83.

Lozano P, Alarabi A, Garcia S, Boakye E, Kingbong H, Naddour E, Villalobos-García D, Badejo P, El-Halawany M, Khasawneh F, and Alshbool F*, "The Anti-depressant Duloxetine Inhibits Platelet Function and Protects against Thrombosis", *Int J Mol Sci.* 2022 Feb 26;23(5):2587.

Alarabi A, Lozano P, Khasawneh F, and Alshbool F*, "The Effect of Emerging Tobacco Related Products and Their Toxic Constituents on Thrombosis", *Life Sci.* 2022 Feb 1;290:120255. doi: 10.1016/j.lfs.2021.120255. Epub 2021 Dec 22.

Ali H, Alarabi A, Karim Z, Rodriguez V, Hernandez K

Lozano P, El-Halawany M, Alshbool F, and Khasawneh F.T., "In utero thirdhand smoke exposure modulates platelet function in a sex-dependent manner", *Haematologica.* 2022 Jan 1;107(1):312-315.

Daniela Bazan

Horseman M, Panahi L, Udeani G, Tenpas AS, Verduzco Jr R, Patel P, Bazan D, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus.*2022;14(7):e27278

Charlotte Farris

Farris C, Diec S, Patel P, Samuel N. Qualitative analysis of third-year pharmacy students' perceptions about the term "clinical pharmacy". *Am J Pharm Educ.* 2022;9026. Doi:10.5688/ajpe9026

Jacob J, Halliburton S, Lee J, Ivy D, Farris C. Evaluating changes in second-year pharmacy students study strategies in a pharmacotherapeutics course before and during the coronavirus disease 2019 (COVID-19) pandemic [abstract]. In: *Proceedings of Midyear Clinical Meeting for ASHP; 2022 December; Las Vegas, NV.*

Davis E, Farris C, Roberts M, Ivy D. Evaluation of elective APPE rotations available for fourth-year pharmacy students [abstract]. In: *Proceedings of Midyear Clinical Meeting for ASHP; 2022 December; Las Vegas, NV.*

Boyd T, Alyaseen L, Alyaseen G, Ivy D, Farris C. Direct oral anticoagulants versus warfarin in nonvalvular atrial fibrillation patients with end-stage renal disease on dialysis [abstract]. In: *Proceedings of Midyear Clinical Meeting for ASHP; 2022 December; Las Vegas, NV.*

Dunn K, LaDow T, Farris C. Evaluation of a novel guideline for managing oral factor Xa inhibitor to intravenous unfractionated heparin transitions by utilizing baseline anti-factor Xa levels [abstract]. In: *Proceedings of Midyear Clinical Meeting for ASHP; 2022 December; Las Vegas, NV.*

Heather Hay

Hay H, Ivy D, Zolfaghari K. Prescribing patterns and outcomes among patients treated for gestational diabetes mellitus. In *Baylor University Medical Center Proceedings* 2022 Feb 16 (Vol. 35, No. 2, pp. 172-175). Taylor & Francis.

Joshaghani M, Hay H. Perceived Value of Self-Monitoring Blood Glucose (SMBG) by Primary Care Physicians

and Endocrinologists. In 2020 ACCP VIRTUAL Annual Meeting (October 19-30) 2020 Oct 27. American College of Clinical Pharmacy.

Trager Hintze

Hintze T, Small C, Montgomery J, Reveles K, Hafeez S, Barthol C. Comparison of amantadine, modafinil, and standard of care on promotion of wakefulness following traumatic brain injury. *Clin Neuropharmacol.* 2022;45(1):1-6.

Hintze T, Small C, Montgomery J, Reveles K, Hafeez S, Barthol C. Amantadine, modafinil, or standard of care for disorders of consciousness after traumatic brain injury. *Crit Care Med.* 2022;50(1):411.

Funderburk D, Weston J, Hintze T. Effect of augmented renal clearance on anti-Xa levels in trauma patients taking enoxaparin. Poster presented at: ASHP Midyear Clinical Meeting; Dec 2022; Las Vegas, Nevada.

Varughese K, Weston J, Hintze T. Risk stratification and characterization of acetaminophen overdoses at a community hospital. Poster presented at: ASHP Midyear Clinical Meeting; Dec 2022; Las Vegas, Nevada.

Anderson E, Hintze T, Samuel N. Safety outcomes after sacubitril/ valsartan initiation in a community hospital. Poster presented at: ASHP Midyear Clinical Meeting; Dec 2022; Las Vegas, Nevada.

Sharma T, Deleon M, Booyesen L, Gollhofer B, Dodge D, Samuel N, Hintze T. Maximum dosage of intravenous diltiazem for the treatment of acute atrial fibrillation with rapid ventricular rate. Poster presented at: ASHP Midyear Clinical Meeting; Dec 2022; Las Vegas, Nevada.

Burum A, Carino J, Macbeth M, Samuel N, Hintze T. Review of weight based metoprolol for acute atrial fibrillation with rapid ventricular rate. Poster presented at: ASHP Midyear Clinical Meeting; Dec 2022; Las Vegas, Nevada.

Sellers J, Jones J, Hintze T. Comparison of 3 dosing strategies of four-factor prothrombin concentrate for warfarin reversal. Poster presented at: TSHP Annual Meeting; May 2022; Round Rock Texas.

Braaten B, Samuel N, Hintze T. Correlation of Emergency Severity Index and Medication Reconciliation Discrepancies in a Small Community Teaching Hospital. Poster presented at: TSHP Annual Meeting; May 2022;

Round Rock Texas.

Stonecipher A, Samuel N, Jones J, Hintze T. Intravenous iron use and protocol development at a community hospital. Poster presented at: TSHP Annual Meeting; May 2022; Round Rock Texas.

Michael Horseman

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Delaney Ivy

Davis E, Farris C, Roberts M, Ivy D. Evaluation of elective APPE rotations available for fourth-year pharmacy students [abstract]. In: Proceedings of Midyear Clinical Meeting for ASHP; 2022 December; Las Vegas, NV.

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Merlyn Joseph

Joseph, M, Von Buetter T. Using Design-Based Research Methodology to Improve Two Different Competency-Based Grading Schemas. 2022 ACCP Annual Meeting. San Francisco, CA.

Donaldson J, Chowdhury M, Dunlap K, Joseph, M. Student Conceptualizations of Learning in a Covid-19 Survey Study. 2022 Hawai'i International Conference of Education. Hawaii.

Chau T, Joseph M, Solomon DM, Lee B, Igneri LA. Heparin Resistance in SARS-CoV-2 Infected Patients with Venous Thromboembolism. *Hosp Pharm.* 2022 Dec;57(6):737-743. doi: 10.1177/00185787221111743. PMID: 36340634; PMCID: PMC9631007.

Zhao Y., Yixun Li A. Choi D. Joseph M, Dunlap K. Students' perceived support and motivational impact by transition to online learning during COVID-19 pandemic. 2022 AERA Annual Meeting (virtual). <https://repository.eduhk.hk/en/publications/students-perceived-support-and-motivational-impact-by-the-transit>

Anne-Cecile Mingle

Horseman M, Panahi L, Udeani G, Tenpas AS, Verdusco

co Jr R, Patel PH, Bazan DZ, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus*.2022;14(7):e27278

Andrea Mora

Horseman M, Panahi L, Udeani G, Tenpas AS, Verduzco Jr R, Patel PH, Bazan DZ, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus*.2022;14(7):e27278

Ladan Panahi

Horseman M, Panahi L, Udeani G, Tenpas AS, Verduzco Jr R, Patel PH, Bazan DZ, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus*.2022;14(7):e27278

Fontana S, Panahi L, Udeani G, Surani S, Desai D. Case Report Highlighting Cardiovascular Effects of Concomitant Use of Methamphetamine and Marijuana. *Cureus*. 2022 Aug 10;14(8).

Ngo H, Mbadugha UJ, Cepeda F, Surani S, Udeani G. Clinical and Economic Impact of Rapid Blood Pathogen Identification Via Verigene. *Cureus*. 2022 Oct 16;14(10).

Wilks A, Panahi L, Udeani G, Surani S. Review of Gastroesophageal Reflux Pharmacotherapy Management. *IntechOpen*; 2022. Available from: <http://dx.doi.org/10.5772/intechopen.106338>.

Sadera C, Halliburton S, Panahi L, Udeani G. Introductory Chapter: Pulmonary Embolism. In *New Knowledge about Pulmonary Thromboembolism* 2022 Oct 5. *IntechOpen* 2022. Available from: <http://dx.doi.org/10.5772/intechopen.105018>.

Pooja Patel

Patel PH, Ho T, Upadhyay S. A systematic review of warfarin use in post-bariatric surgery patients: Cases compiled for a literature review. *Ann Pharmacother*. 2022;57(2):193-197.

Farris C, Diec S, Patel P, Samuel N. Qualitative analysis of third-year pharmacy students' perceptions about the term "clinical pharmacy". *Am J Pharm Educ*. 2022;90:26. Doi:10.5688/ajpe9026

Horseman M, Panahi L, Udeani G, Tenpas AS, Verduzco Jr R, Patel PH, Bazan DZ, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus*.2022;14(7):e27278

Epanya EM, Patel PH, Huon C, Murhammer P, Hamper J. Evaluating prescriber's barriers to utilizing pharmacists in the administration of long-acting injectable antipsychotics in the community setting. Poster presented at: American Pharmacists' Association Annual Meeting. San Antonio, TX. March 18, 2022.

Garcia D, Herrera M, Patel PH. The relationship between sleep deprivation and academic performance: It's long-term effect on learning retention. Poster presented at: Texas Society of Health System Pharmacists' Annual Seminar. Round Rock, TX. May 13, 2022.

Lee S, Garrison D, Patel PH. How COVID-19 has impacted the different roles of pharmacists across Texas. Poster presented at: Texas Society of Health System Pharmacists' Annual Seminar. Round Rock, TX. May 13, 2022.

Nandakisore S, Gutierrez L, Patel PH. A comparison of burnout in pharmacy students with differing levels of prior pharmacy experience. Poster presented at: Texas Society of Health System Pharmacists' Annual Seminar. Round Rock, TX. May 13, 2022.

Molina A, Watkins A, Patel PH. Pharmacy directors' attitude on the benefits of infectious disease physician for the development of ASP policies. Poster presented at: Texas Society of Health System Pharmacists' Annual Seminar. Round Rock, TX. May 13, 2022.

Sara Rogers

Aziz AA, Rogers S, Hassanien O, Shalaby L, Nagy M. Knowledge, attitudes and practice regarding pharmacovigilance and adverse drug reaction reporting among physicians and pharmacists in Egypt: a step toward personalized medicine implementation. *Personalized Medicine*. 2022 Nov;19(6):495-507.

Crowder J, Determeyer P, Crowder J, Determeyer P, Rogers S. "Technology is Wonderful Until It Isn't": Community-Based Research and the Precarity of Digital Infrastructure. In *The Routledge Companion to Media Anthropology* 2022 Sep 30 (pp. 77-88). Routledge. "Technology is Wonderful Until It Isn't": Community-Based Research and the Precarity of Digital Infrastructure. In *The Routledge Companion to Media Anthropology* 2022 Sep 30 (pp. 77-88). Routledge.

Patel K, Mukhi H, Patel A, Nathwani N, Mehta D, Sherak J, Clinton N, Pizarik H, Brown B, Rogers S, Kruczynski M. Addressing cancer health disparities in

a multilateral collaboration in an independent community cancer clinic: translating words into action. *The American Journal of Managed Care*. 2022 Aug 1;28(6 Spec No.):SP398-401.

Patel K, Mukhi H, Patel A, Mehta D, Clinton N, Brown B, Oh W, Reddy P. Differentiating pseudoprogression from hyperprogression in patients treated with immunotherapies. *Targeted Therapies in Oncology*. 2022 Feb 14;11(3):16-.

Nephy Samuel

Bazan DZ, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus*.2022;14(7):e27278

Thomas A, Li Y, Kaunas C, Newcomb M, Carrino G, Greenwood L, St. Louis P, Marklund L, Samuel N, Chapa H Implementation of a Digital Live-Action Gaming Experience for Interprofessional Learning and Training. In: Dennen, V., Dickson-Deane, C., Ge, X., Ifenthaler, D., Murthy, S., Richardson, J.C. (eds) *Global Perspectives on Educational Innovations for Emergency Situations*. Educational Communications and Technology: Issues and Innovations. Springer, Cham. 2022. https://doi.org/10.1007/978-3-030-99634-5_20.

Anderson E, Hintze T, Samuel N. Safety outcomes after sacubitril/ valsartan initiation in a community hospital. Poster presented at: ASHP Midyear Clinical Meeting; Dec 2022; Las Vegas, Nevada.

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Andrew Tenpas

Horseman M, Panahi L, Udeani G, Tenpas AS, Verduzco Jr R, Patel PH, Bazan DZ, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus*.2022;14(7):e27278

George Udeani

Horseman M, Panahi L, Udeani G, Tenpas AS, Verduzco Jr R, Patel PH, Bazan DZ, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus*.2022;14(7):e27278

Fontana S, Panahi L, Udeani G, Surani S, Desai D. Case Report Highlighting Cardiovascular Effects of Concomitant Use of Methamphetamine and Marijuana. *Cureus*. 2022 Aug 10;14(8).

Ngo H, Mbadugha UJ, Cepeda F, Surani S, Udeani G. Clinical and Economic Impact of Rapid Blood Pathogen Identification Via Verigene. *Cureus*. 2022 Oct 16;14(10).

Wilks A, Panahi L, Udeani G, Surani S. Review of Gastroesophageal Reflux Pharmacotherapy Management. *IntechOpen*; 2022. Available from: <http://dx.doi.org/10.5772/intechopen.106338>.

Sadera C, Halliburton S, Panahi L, Udeani G. Introductory Chapter: Pulmonary Embolism. In *New Knowledge about Pulmonary Thromboembolism* 2022 Oct 5. *IntechOpen* 2022. Available from: <http://dx.doi.org/10.5772/intechopen.105018>.

Galindo A, Bustamante J, Udeani G, Reddy I. Promoting Diversity, Racial Equity, and Inclusive Excellence through a New Initiative at Texas A&M University. Presented at the 123rd Annual Meeting of the American Association of Colleges of Pharmacy, July 23-27, 2022. *American Journal of Pharmaceutical Education* June 2022, 86 (5) 9172; DOI: <https://doi.org/10.5688/ajpe9172>.

Rene Verduzco

Horseman M, Panahi L, Udeani G, Tenpas AS, Verduzco Jr R, Patel PH, Bazan DZ, Mora A, Samuel N, Mingle AC, Lean LR, Varon J, Surani S. Drug-induced hyperthermia review. *Cureus*.2022;14(7):e27278

AWARDED GRANTS

FATIMA ALSHBOOL

- Principal-Investigator, Investigate the Mechanism and Impact of E-cigarettes on Platelet Function and Thrombogenesis, Research Project Grant (1R56HL158730-01A1; NIH/NHLBI; September 20, 2022- August 31, 2023), Total costs: \$534,874
- Principal Investigator, The Impact of In Utero E-Cigarette Exposure on Platelet Function and Thrombogenesis, NIH Exploratory/Developmental Research Grant Program (Parent R21 Clinical Trial Not Allowed; 1R21HD105187-01A1; NIH/NICHD; Total costs: \$416,625.00 (June 8, 2022- May 31, 2024).
- Co-Investigator, The Effects of Prenatal Thirdhand E-cigarette Exposure on Platelets, NIH Exploratory/Developmental Research Grant Program (Parent R21; 1R21ES034512-01 NIH/NIEHS; September 14, 2022- August 31, 2024), Total costs: \$416,625.00
- Co-Investigator/Co-Mentor, The Impact of Third-Hand Smoke on Platelet Function and Thrombogenesis, Research Supplements to Promote Diversity in Health-Related Research (3R01HL145053-03S1; NIH/NHLBI; April 20, 2022- June 30, 2024); Total costs: \$247,972

TRAGER HINTZE

- Principal Investigator, Effects of augmented renal clearance on enoxaparin levels, Texas A&M University Health Science Center Seedling Grant, Total: \$61,443

ROBERT HUTCHISON

- Bacillus Calmette-Guérin Vaccination as Defense Against SARS-CoV-2 (BADAS): A Randomized Controlled Trial to Protect Health Care Workers in the U.S. by Enhanced Trained Immune Responses Total 2.5 million Completed

ANDREA MORA

- A study of SARS CoV-2 infection and potential transmission in individuals immunized with Moderna COVID-19 Vaccine; Funded for \$217,788 by the National Institutes of Allergy and Infectious Disease (NIH-SSU00145690) –George Udeani, Principal Investigator, Joy Alonzo, Co-PI, Andrea Mora Co-Investigator, Asim Abu-Baker, Co-Investigator) – April 2021-2022.

LADAN PANAHI

- Utilizing the Pharmacy Advances Clinical Trials (PACT) Network to Achieve Diversity in COVID Clinical Trials: A Strategic Framework (In Collaboration with the American Association of Colleges of Pharmacy), Funded for \$1,000,000.00 by the Food and Drug Administration (F.D.A. - 1U01FD007574-01). Principal Investigator. Joy Alonzo, Ladan Panahi, Co-Investigators.

GEORGE UDEANI

- A study of SARS CoV-2 infection and potential transmission in individuals immunized with Moderna COVID-19 Vaccine; Funded for \$217,788 by the National Institutes of Allergy and Infectious Disease (NIH-SSU00145690) –George Udeani, Principal Investigator, Joy Alonzo, Co-PI, Andrea Mora Co-Investigator, Asim Abu-Baker, Co-Investigator) – April 2021-2022.
- A randomized controlled study to assess SARS CoV-2 infection, viral shedding, and subsequent potential transmission in university students immunized with Moderna COVID-19 Vaccine; Funded for \$2,000,000 by



the National Institutes of Allergy and Infectious Disease (NIH - SSU00145690). Co-Investigator. Joy Alonzo, Co-PI, Andrea Mora Co-Investigator, Asim Abu-Baker, Co-Investigator) – April 2021-2022.

- Utilizing the Pharmacy Advances Clinical Trials (PACT) Network to Achieve Diversity in COVID Clinical Trials: A Strategic Framework (In Collaboration with the American Association of Colleges of Pharmacy), Funded for \$1,000,000.00 by the Food and Drug Administration (F.D.A. - 1U01FD007574-01). Principal Investigator. Joy Alonzo, Ladan Panahi, Co-Investigators.

FACULTY PRESENTATIONS

FATIMA ALSHBOOL

- Alshbool F.Z., “Electronic Delivery Systems Modulate Platelet Reactivity and Gene Expression in Prenatally Exposed Mice”, Vascular Discovery: From Genes to Medicine 2022 Meeting, Seattle WA, May 13, 2022.
- Alshbool F.Z., “The Impact of E-cigarette Exposure on Platelet Function and Cardiovascular Health”, Experimental Biology Annual Meeting, Philadelphia, April 4, 2022.

DANIELA BAZAN

- Bazan D, Panahi L, Udeani G. Verduzco Jr. R, and Weston J. Updates and Pharmacological Review of Pulmonary Embolism In Special Populations: Panel Discussion. Texas Society of Health-System Pharmacists (TSHP) Annual Meeting, Round Rock, Texas. May 2022.

CHARLOTTE FARRIS

- Farris C. Charting your leadership development journey: what’s next for me? Presentation at Pharmacy Student Council – Leadership Retreat, TAMU School of Pharmacy – closing keynote, College Station, TX. Oct 2022.
- Farris C. Towards an equitable workload. Presentation at AACP Annual Meeting – education mini-session, Grapevine, TX. July 2022.
- Farris C. Cultivating an emotionally intelligent classroom. Presentation at TAMU Transformational Teaching and Learning Conference – education mini-session, College Station, TX. May 2022.

TRAGER HINTZE

- Hintze T. Comparison of amantadine, modafinil, and standard of care on promotion of wakefulness following traumatic brain injury. Society of Critical Care Medicine Annual Congress. Virtual due to COVID-19. April 2022.

ROBERT HUTCHISON

- Hutchison, R. Non-specific Effects of BCG Vaccination Enhancing Diseases-specific Vaccines. Infectious Disease Vaccine Symposium. Houston Jan 2022

LADAN PANAH

- Bazan D, Panahi L, Udeani G. Verduzco Jr. R, and Weston J. Updates and Pharmacological Review of Pulmonary Embolism In Special Populations: Panel Discussion. Texas Society of Health-System Pharmacists (TSHP) Annual Meeting, Round Rock, Texas. May 2022.

POOJA PATEL

- Patel PH. Why Mindset is important in leadership. Presentation at Pharmacy Student Council – Leadership Retreat, TAMU School of Pharmacy – opening keynote, Kingsville, TX. February 5, 2022.

GEORGE UDEANI

- Bazan D, Panahi L, Udeani G, Verduzco Jr. R, and Weston J. Updates and Pharmacological Review of Pulmonary Embolism In Special Populations: Panel Discussion. Texas Society of Health-System Pharmacists (TSHP) Annual Meeting, Round Rock, Texas. May 2022

RENE VERDUZCO

- Bazan D, Panahi L, Udeani G, Verduzco Jr. R, and Weston J. Updates and Pharmacological Review of Pulmonary Embolism In Special Populations: Panel Discussion. Texas Society of Health-System Pharmacists (TSHP) Annual Meeting, Round Rock, Texas. May 2022

JAYE WESTON

- Bazan D, Panahi L, Udeani G, Verduzco Jr. R, and Weston J. Updates and Pharmacological Review of Pulmonary Embolism In Special Populations: Panel Discussion. Texas Society of Health-System Pharmacists (TSHP) Annual Meeting, Round Rock, Texas. May 2022

Research Awards

FATIMA ALSHBOOL

- 2022 Early Career Investigator Award, Division of Cardiovascular Pharmacology, American Society for Pharmacology and Experimental Therapeutics.



Post-Graduate Programs 2022-2023

TEXAS A&M UNIVERSITY SCHOOL OF PHARMACY PGY1 RESIDENCY PROGRAM WITH DHR HEALTH, EDINBURG

PGY1 residency program director: **Rene Verduzco, PharmD, BCPS**

PGY1 residency program coordinator: **Daniela Bazan, PharmD, BCPS**

PGY1 Residents: **Arnoldo Gonzalez Pharm.D. – TAMU SOP ‘23**

Major Project: “Assessing the safety of IV Opioids in patients with renal failure in a South Texas inpatient institution”

Post-Residency Plans: Clinical Pharmacist, Knapp Medical Center

Medication Use Evaluation: “Ketamine IV infusion at a South Texas Critical Care Unit”

Kevin Quidilla, Pharm.D. – UT Austin COP ‘23

Resident Major Project: “What is the proportion of patients treated for Clostridium difficile infection (CDI) based on their diagnostic molecular test in a South Texas Hospital”

Medication Use Evaluation: “Alteplase in Patients Presenting with Ischemic Stroke at a Medical Center in South Texas”

Awards & Honors: First Prize Resident Poster – Texas A&M Rangel School of Pharmacy Research Colloquium

TEXAS A&M UNIVERSITY SCHOOL OF PHARMACY PGY1 RESIDENCY PROGRAM WITH ST. JOSEPH REGIONAL MEDICAL CENTER

Residency Program Director: **Jessica Jones, Pharm.D., BCPS**

Residency Program Coordinator: **Trager Hintze, Pharm.D., BCPS**

PGY1 Residents: **Erin Anderson Pharm.D. – University of Houston ‘23**

Major Project: Safety outcomes after sacubitril/ valsartan initiation in a community hospital

Post-Residency Plans: Academic Fellowship, University of Houston College of Pharmacy

DJ Funderburk Pharm.D.

Major Project: Effect of augmented renal clearance on anti-Xa levels in trauma patients taking enoxaparin

Kevin Varughese Pharm.D. – University of Texas Tyler ‘23

Major Project: Risk stratification and characterization of acetaminophen overdoses at a community hospital

Award & Honors: Highest scoring abstract for TAMU Research Colloquium and invited to complete podium presentation

TEXAS A&M UNIVERSITY VETERINARY MEDICINE PHARMACY RESIDENCY

Program Director: **Amy Savarino, Pharm.D.**

Pharmacy Resident: **Victoria Higgins, Pharm.D.**

Major Accomplishments & Research:

- Primary Lab Instructor for College Station Sterile IV admixture Course
- Guest Lecturer for SOP & School of Veterinary Medicine
- Co-Coordinator and Lecturer for Veterinary Pharmacy Elective
- Research: Potency and Stability Analysis of in-house compounded gabapentin cat treats (GABA-CAT)

Currently Interviewing for Full Time Veterinary Pharmacy Positions

TEXAS A&M COMMUNITY PHARMACY PGY1 PHARMACY RESIDENCY AT RANDALLS, HOUSTON

Program Coordinator: **Pooja Patel, Pharm.D.**

Pharmacy Resident: **Gabrielle Washington, Pharm.D.**

Research: Assessing Patient's comfortability discussing mental health since the beginning of COVID-19 Pandemic During Patient Care Services in the Community Pharmacy Setting.

Currently pursuing job opportunities in a community setting

TEXAS A&M HEALTH FAMILY CARE CLINIC PGY2 AMBULATORY CARE RESIDENCY

Residency Director: **Sara Rogers, Pharm.D., BCPS**

Overview: The purpose of the PGY-2 Ambulatory Care Residency Program is to develop an expert-level evidence-based knowledge base in the area of chronic disease management, implement and manage new areas of pharmacy practice in the outpatient environment, conduct research in practical areas of ambulatory care pharmacy practice, become an expert in the education of learners of pharmacy and other professions, and to become a highly skilled professional leader in the field of ambulatory care pharmacy.

Expected Start Date: July 3, 2023



TEXAS A&M UNIVERSITY SCHOOL OF PHARMACY ACADEMIC TRAINING PROGRAM FOR RESIDENTS

Delaney Ivy, PharmD, MSc, BCPS, CDE



Charlotte Farris PharmD, BCPS



This academic training program is a 12-month longitudinal experience designed to teach PGY-1 and PGY-2 residents how to integrate effective educational techniques into a variety of learning experiences with diverse audiences. The purpose of the training program is to provide current residents with effective education and training, through mentorship from current Texas A&M Rangel School of Pharmacy faculty members, to effectively employ appropriate preceptor roles when engaged in teaching students, pharmacy technicians, or fellow health care professionals. During 2020 to 2021, 22 residents located throughout the state of Texas and 16 Texas A&M Rangel College of Pharmacy faculty participated in the academic training program. Residents perform activities such as lecturing in a didactic setting, facilitating lab sessions, facilitating service-learning events, precepting students, developing course syllabus all under the direct mentorship of experienced faculty members. Each year, the success of the academic training program leads to further program expansion.



RESIDENCY PROGRAM	RESIDENT	MENTOR
CCMC, PGY1 <i>Corpus Christi</i>	Erica Aguilar Cheryl Mathew Kathy Nguyen	Delaney Ivy Heather Hay Mahua Choudhury
VA Texas Valley Coastal Bend Health Care System, PGY1 <i>Corpus Christi</i>	Anthony Arizpe Madison Yates	Anne-Cecile Mingle Annette DeSantiago
Driscoll's Children's Hospital, PGY1 <i>Corpus Christi</i>	Dawn Nguyen	Andrew Tenpas
Christus Spohn, PGY1 <i>Corpus Christi</i>	Christina Gonzalez Sarah Greene	Andrea Mora Juan Bustamante
DHR, PGY1 <i>Edinburg</i>	Arnoldo Gonzalez Kevin Quidilla	Nephy Samuel Daniela Bazan
CHI St. Joseph's <i>College Station</i>	Erin Anderson David (DJ) Funderburk Kevin Varughese	Nephy Samuel Trager Hintze Pooja Patel
Albertsons, PGY1-community <i>Houston</i>	Gabrielle Washington	Delaney Ivy
TAMU Vet Med <i>College Station</i>	Victoria Higgins	Charlotte Farris
BSW, PGY1 <i>Temple</i>	Elizabeth Davis Koren Dunn Suzanne Roberts Emily Ly Alonzo Gutierrez Quynh Tran	Charlotte Farris Delaney Ivy Charlotte Farris Charlotte Farris Rene Verduzco Charlotte Farris
BSW / TAMU, PGY2 <i>Temple</i>	Tyler Boyd	Charlotte Farris
BSW, PGY1-community <i>Temple</i>	Christopher Perry Kylie (Zoe) McQueen	Delaney Ivy Delaney Ivy



Faculty Care & Wellness

Dr. Victoria Pho, Clinical Assistant Professor, *new* Faculty Care and Social Chair for the Department of Pharmacy Practice

In the summer of 2022, the Department of Pharmacy Practice voted to nominate a new social chair with goals of promoting wellness, well-being, and a positive climate change in the Department. Dr. Victoria Pho was appointed and accepted the challenge with enthusiasm and great passion. Dr. Pho's wellness activities for the year included:

REGIONAL POWER LUNCHEONS WITH DEPARTMENT HEAD, DR. UDEANI.

These luncheons served to celebrate faculty care, birthdays, hard work, and selfless dedication to students, interns, patients, classwork, and research for the School of Pharmacy, hospitals, clinics, research labs, and the community.



A&M PHARMILY PHOTO GALLERY COLLECTION.

Dr. Pho's love for photography led her to capture and compile the faculty's milestones and moments at work and in life. She has also volunteered for the past 14 years to be the department and school historian to help seize the moments during the School's special events.



DEPARTMENT BOOK CLUB

The Culture Code

S.N.A.C.K. TIME WITH FACULTY

Stop, Nurture, Advocate, Compassion, and Kindness

On behalf of Mrs. Galvan and the Well-being Committee, S.N.A.C.K. Time with Faculty was created to provide compassionate support for our faculty and facilitate gatherings to reflect on all the hard work and dedication provided by faculty to support our students' professional growth.



RXMOMS & RXDADS

was created to recognize caring moms and dedicated dads, to empower and support them, and to appreciate their valuable contributions at home, at work, in the classroom, and in the community.





TEXAS A&M UNIVERSITY
Irma Lerma Rangel
School of Pharmacy