

SCRIPTS

Volume 14; Fall 2021



Committed
TO OUR COMMUNITY

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OFFICE OF THE DEAN

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ON THE COVER

Front Row L to R: **Carmelita Brown, Vanessa Semke, Dr. Michelle Knight, Israa Shehata, Olukemi Omotola, Asjad Gariballa, Minh-Hanh Nguyen.**

Back Row L to R: **Dr. Gannett Monk, Darius Berry**

DEAN'S WELCOME



**Greetings UC School of Pharmacy Friends and Supporters:
Welcome to the Fall 2021 edition of Scripts!**

Extraordinary. Unprecedented. Historic. These are some of the words that have been used to describe the global COVID-19 pandemic that began in late 2019. And yet, in the face of incredible challenges, I am so proud of the ways in which our UCSOP community has stepped up to help each other and to take care of our community. Our faculty and students have played a critical role in the success of the COVID vaccination efforts here in West Virginia, administering over 50,000 shots across the state. These efforts have attracted national attention and acclaim, with our students featured in the New York Times, World News Tonight, NPR, and more. The COVID pandemic also impacted our campus, with classes shifting to remote or hybrid teaching. Throughout these changes, our faculty remained focused on making sure that our students continued to receive the same outstanding education that they need to succeed in their careers. In addition, we continue to improve our curriculum to ensure optimal learning outcomes for our students. I'm convinced that there isn't a group of faculty anywhere who are more committed to helping their students succeed than here at UCSOP.

We are proud of our UCSOP students and alumni and their continued success and impact on our community. For the seventh year, our program was honored to win the National Award from the National Consumers League (NCL) Script Your Future Medication Adherence Campaign. In making the award, the NCL specifically noted our impact in administering over 50,000 COVID vaccinations and directly counseling over 45,000 individual patients on medication adherence. In addition, our current UCSOP students continue to be recognized. Darius Berry (Class of 2023) was selected for a prestigious externship with the U.S. Public Health Service working with Native American communities in Arizona. Tristan Maynard (Class of 2020) was awarded the Excellence in Public Health Pharmacy Award from the U.S. Public Health Service. Alumna, Debbie Nag (Class of 2013) and her team at OhioHealth received the prestigious Pinnacle Award from the American Pharmacists Association.

I'm also very proud of the continued success of our faculty, not just in serving our community and in their dedication to teaching, but in their continued commitment to research and scholarship. Drs. Tamer Fandy and Aymen Shatnawi received \$445,000 in competitive grants from the West Virginia IDeA Network of Biomedical Research Excellence to support their research laboratories and bolster the core research capabilities here at UCSOP. Dr. Rebecca Linger co-authored a new book on the medicinal plants of the Appalachian Region. Dr. Faruk Khan was reappointed to the West Virginia Medical Cannabis Advisory Board.

As we continue to grow and develop the School of Pharmacy, I look forward to working with you in my role as the new dean. As a new resident of West Virginia, I am eager for the opportunity to engage with you as I travel around the state.

Sincerely,

**G. Scott Weston, PhD, MBA, BSPharm, RPh
Dean**

Q&A with DEAN WESTON



“For me, pharmacy has always offered the perfect opportunity to combine my desire to help and serve people with my interests in science. I love being able to use my knowledge and skills to make a difference in the lives of our patients.”

Tell us a little more about you!

I grew up in a rural part of northeastern Arkansas, but have since lived in nine states, including now being in West Virginia. My wife, Tammie, and I met while we were both students at the University of Mississippi. I initially began my career doing research in drug discovery and development in the pharmaceutical industry before transitioning into academia. As a pharmacy academician, I've helped launch three new schools of pharmacy, and I'm excited to now be here at the University of Charleston.

What are some of your goals for the first year as dean?

Being new to both West Virginia and to the University of Charleston, one of my goals is to get out around the state and meet people. I look forward to the opportunity to get to know our alumni, preceptors, and friends of the school. I also want to work on increasing the engagement that our alumni have with the program and to increase our program's engagement with our community. In addition, I look forward to the opportunity to share the story of UCSOP and the great things that we are doing here with a wider audience of potential students from across the nation and the world.

Why did you want to become a pharmacist?

For me, pharmacy has always offered the perfect opportunity to combine my desire to help and serve people with my interests in science. I love being able to use my knowledge and skills to make a difference in the lives of our patients. In addition, as a teacher, I'm able to bring first-hand observations from my pharmacy practice into the classroom to help educate our students. I love helping our students build their knowledge base and skill sets and hearing their own stories of how they've made a difference for their patients and communities, especially during the COVID pandemic.

What is the best advice you've ever been given?

Try to learn something from every person you meet and every situation that you're in. Stay awkward, brave, and kind (Brené Brown).

What do you like to do in your free time?

My wife and I like to travel and experience new places. I'm a big sports fan (Ole Miss Rebels, Kansas City Chiefs, San Antonio Spurs) and an avid reader (who thinks that the Kindle is one of the single greatest inventions ever).

What is your favorite movie or book?

Having grown up as the son of a preacher, the Bible would be number one on the book list. As a science fiction and fantasy fan, Asimov's Foundation series is another one of my favorites. For movies, the original "Star Wars" would be at the top of the list, although I'm also a fan of the classics like "Casablanca", as well.

Thank You, TO OUR SPONSORS

Thank you to our 2020-2021 sponsors!
We would like to express our sincere gratitude for your generous donations.

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Commencement ACTIVITIES

Commencement Activities took place on **April 24, 2021.**

The University was able to resume in-person graduation with social distancing measures. This was followed by the UCSOP Oath Ceremony on April 27, 2021.



Class of 2021



OATH CEREMONY

Keynote Speaker

DR. SHERRI YOUNG
DO, FAAFP



Dr. Sherri Young is the Associate Chief Medical Officer at Charleston Area Medical Center for the West Virginia Health Network. In 2019, her colleagues elected her to be the President of the West Virginia State Medical Association, the State's largest medical society. She is also the Immediate-Past President of the West Virginia Academy of Family Physicians.

Dr. Young has served many leadership positions in the past. Most notably, she was the first State Immunization Officer for West Virginia. She also served as Medical Director for Keystone Peer Review Organization, Aetna/Coventry commercial and Medicare divisions, and the University of Charleston Physician Assistant program. Prior to her administrative roles, she was in clinical practice.

Dr. Young has been recognized for her extensive work in Kanawha County leading Health Command through the Kanawha-Charleston Health Department (KCHD) during the COVID-19 pandemic. With her Health Command team and community partners, they have worked tirelessly throughout Kanawha County by setting the standard for nursing home testing, large-scale drive-up COVID-19 testing sites, and been nationally recognized for vaccination clinics.

Dr. Young has received several awards including 2021 West Virginia Family "Doc" of the Year, from her colleagues at the West Virginia Academy of Family Physicians, the Angel Award, from Senator Joe Manchin for her work in COVID-19 response and a Certificate of Congressional Recognition from Senator Shelley Moore Capito. She also received a Certificate of Appreciation from 13 News Gives Back/West Virginia American Water, for COVID-19 response. She was a 2020 finalist for Remarkable Women Award, by WOWK TV. Other awards include the Public Health Merit Award from the West Virginia Public Health Association, the Preceptor of the Year Award for Clinical Faculty, from the West Virginia School of Osteopathic Medicine, the Above and Beyond Award for Outstanding Service, from Holzer

Health Systems and the Aetna Appreciates You Award in recognition of exemplary leadership and vigorous work ethic within these companies. She also received many prestigious awards during her medical training, including the Intern of the Year Award and the Resident of the Year Award during her Family Medicine Residency at Charleston Area Medical Center.

Dr. Young has extensive experience with more than 100 professional education presentations, providing CME for her peers at the local, state, national, and international levels. She has spoken extensively about immunizations and immunization laws in West Virginia. She is considered one of West Virginia's leading experts in immunizations and gave the keynote address at the International Zika Conference and Workshop. This conference took place as the Zika virus was identified as an emerging global public health crisis.

Dr. Young received her Doctor of Osteopathic Medicine degree from the West Virginia School of Osteopathic Medicine in 2003. She then completed her Residency in Family Medicine at Charleston Area Medical Center. She is a Fellow of the American Academy of Family Physicians. Dr. Young graduated Summa Cum Laude from West Virginia University with a Bachelor of Science in Speech Pathology and Audiology.

Honors & AWARDS

ACADEMIC EXCELLENCE AWARDS:

Class of 2022- Matthew Richardson and Jennifer Wine
Class of 2023- Petir Abdal and Zourayz Kamran
Class of 2024- AlexiAnn Drouin, Hanna Light, Hahn Nguyen, Olukemi Omotola, Botao Peng and Jonathan Robles Diaz

RITA CARRICO MEMORIAL SCHOLARSHIP:

Sara Goff- Class of 2022

MAGGIE KING MEMORIAL SCHOLARSHIP:

Johnna Ball- Class of 2024

PATRICK SCHNUR MEMORIAL SCHOLARSHIP:

AlexiAnn Drouin- Class of 2024

NNEOMA IMO MEMORIAL SCHOLARSHIP:

Darlene Fatunbi- Class of 2021

CATHERINE S. BOWYER MEMORIAL SCHOLARSHIP:

Isabelle Manewa Sitouok- Class of 2024

BRAYDON ELI SCHOLARSHIP:

Mena Kualleny- Class of 2022

PIONEERING SPIRIT AWARD:

Emily Chattin- Class of 2022

FRUTH SCHOLARSHIP:

Matthew Richardson- Class of 2022

Trey Lockhart- Class of 2021

WALGREENS DIVERSITY AND INCLUSION EXCELLENCE AWARD:

George Chalil- Class of 2023

WALGREENS MULTILINGUAL SCHOLARSHIP:

Ali Makki- Class of 2022

AMERICAN COLLEGE OF CLINICAL PHARMACISTS- CLINICAL PHARMACY CHALLENGE WINNERS:

Michaela Beron, Keren Hernandez, Matthew Richardson, and Adrian Rodriguez Negron

AMERICAN SOCIETY OF HEALTH-SYSTEM PHARMACISTS- CLINICAL SKILLS COMPETITION WINNERS:

Zachary Harris and Joy Zhang

LEADERSHIP ACHIEVEMENT AWARDS:

Ashley Luster, President, Class of 2022
Stanley Ogwotu, President, Student National Pharmaceutical Association
Olusola-Joy Okeyemi, Vice-President, Student National Pharmaceutical Association
Olukemi Omotola, President, Class of 2024

FACULTY MEMBER OF THE YEAR:

Class of 2021 Recipient: Dr. Jennifer Dettra
Class of 2022 Recipient: Dr. Jessica Robinson
Class of 2023 Recipient: Dr. Gannett Monk
Class of 2024 Recipient: Dr. Gregory Polsinelli
Golden Apple Award Winner: Dr. Gannett Monk

STAFF MEMBER OF THE YEAR:

Ms. Betsy Allen

COVID-19 APPRECIATION AWARD:

Ms. Marsha Sheets

PROFESSIONAL ORGANIZATION OF THE YEAR:

Student National Pharmaceutical Association

FALL 2020 **Dean's LIST**

*Received a 4.0

CLASS OF 2022
Michaela Beron*
Abigail Birikorang*
Emily Chattin*
Sara Coombs
Tara Evans
Nicholas Cavender
Joyce Fajuroki
Mena Kualleny
Moses Kusorgbor
Stanley Ogwotu*
Matthew Richardson*
Adrian Rodriguez Negron
Lauren Shelton*
Jennifer Wine*

CLASS OF 2023
Petir Abdal
Lujin Al Jishi
Ali Aldar
Austin Bertrand
Tara Evans
Nicholas Cavender
George Chalil
Lauren Coccaro
Thien Thanh Huynh
Zourayz Kamran
Dyllan Lewis
Mary Heather Walsh

CLASS OF 2024
Jessica Adams-Duffield
Johnna Ball
Sindy Canales
AlexiAnn Drouin*
Asjad Gariballa
Hanna Light*
Madison Loyer
Minh-Hanh Nguyen*
Olukemi Omotola*
Botao Peng*
Natan Perez Sola
Jonathan Robles Diaz*
Harrison Yoo

Ten Years in the Field: BETH TODD - CLASS OF 2011

By Betsy Allen, BA

Administrative Assistant for Professional Affairs,
Academic Affairs, and Enrollment and Admissions

Beth's acceptance into pharmacy school in 2007 was very competitive. She said it was a privilege to have a seat in the UCSOP as the second class. She graduated in 2011, and then completed a PGY1 residency with UCSOP in 2012. She obtained her board certification in BCPS (Board Certified Pharmacotherapy) and BCACP (Board Certified Ambulatory Care Pharmacist).

Beth's experience includes being an Assistant Professor in Pharmacy Practice at South College School of Pharmacy in Knoxville from 2012 – 2015. Her practice site was an ambulatory care practice in an independent community pharmacy, and the focus was medication therapy management, diabetes education, and medication adherence. Beth was also the preceptor of the year while at SCSOP.

In 2013, Beth married fellow graduate of the Class of 2011, Alex Todd. They moved back to WV for a job opportunity for Alex, and in 2016 Beth was the Pharmacy Clinical Services Manager of the Walmart Pharmacy in Charleston. She was in the position for two years, until 2018. During this time, the couple struggled with infertility. The desire to have a family led them to adoption, and in 2017, with only a 22-hour notice, a sibling group of 3 (then aged 6, 2, and 3 months) was placed with them. They adopted the children in 2018.

Also in 2018 Beth was the Clinical Assistant Professor at Marshall University School of Pharmacy. In 2019, she decided to be closer to home and left Marshall to come back to the University of Charleston School of Pharmacy. She is now an Assistant Professor in the Department of Pharmacy Practice, and her practice site is at Thomas Health Primary Care at Ashton Place. Her focus is diabetes management/education and medication adherence.



“ Beth's acceptance into pharmacy school in 2007 was very competitive. She said it was a privilege to have a seat in the UCSOP as the second class. She graduated in 2011, and then completed a PGY1 residency with UCSOP in 2012. ”

Also in 2019, she and her husband were notified that their children's birth mother had another child. They took in the little girl at one week old. She was officially adopted by the Todds in 2020.

Beth is very happy to be back home and plans to stay at the UCSOP with her family.

THE UCSOP FACULTY

have been busy with contributions to the profession of pharmacy and scholarly endeavors. Below is a sampling of some of their activities:

DR. REBECCA LINGER

- Co-authored along with Vazhappilly, CG., Amarathna, M., Cyril, AC, Matar, R, Merheb, M, Ramadan, WS, Radhakrishnan, R, Rupasinghe, HPV. "Current Methodologies to Refine Bioavailability, Delivery, and Therapeutic Efficacy of Plant Flavonoids in Cancer Treatment." Journal of Nutritional Biochemistry, vol. 94, August 2021, 108623.

DR. ALADIN SIDDIG, VICTOR OBI, YVONNE NGONG, DR. STEPHEN COOK, DR. LINDSAY ACREE, DR. AYMEN SHATNAWI AND DR. DEAN REARDON

- The Development and Assessment of Diabetes Patient Education Elective at The Doctor of Pharmacy Program. WJPPS, August 2020, Vol 9, Issue 9 2512-2529.

DR. AYMEN SHATNAWI

- Dr. Aymen Shatnawi, Nehad Ayoub and Amer Khalifah. ING4 Expression Landscape and Association With Clinicopathologic Characteristics In Breast Cancer. Manuscript submitted Clin Breast Cancer. 2020 Nov 19; S1526-8209(20)30295-0. doi: 10.1016/j.clbc.2020.11.011. Online ahead of print.

- Grants (Active 2021):

- Title: The Inhibitor of Growth Family Member 4 (ING4) Inhibits Amino Acid Transporter 1 (LAT1) Expression and Control Breast Cancer Pathogenesis. PI: Aymen Shatnawi, 60%.
- Date of Submission: 04/15/2020 o Supporting agency: NIH collaborative WV-INBRE supplementary.
- Requested Level of funding: \$ 100,000.00.
- Performance period: 08/2020 to 07/2021.
- Title: Modulation of Estrogen Related Receptor Alpha by ING4 in Breast Cancer PI: Aymen Shatnawi
- Date of Submission: 04/15/2020
- Supporting agency: NIH and WV-INBRE FDRA.
- Requested Level of funding: \$ 25,000.00
- Performance period: 08/2020 to 07/2021

- Title: West Virginia PharmD Students' Knowledge, attitude & Self-efficacy on Covid-19 CO-PI: Aymen Shatnawi
- Date of Submission: 09/09/2020
- Supporting agency: WV Clinical and Translational Science Institute.
- Requested Level of funding: \$ 5,000.00
- Performance period: 3/15/2021 to 09/14/2021

- External Appointment/Service:

- PhD thesis committee- external member/ examiner: North Carolina Central University 2021-present.

DR. MOHAMED RASHRASH

- Accepted for publication Manuscript Number: JAPHA-D-21-00117R1 Patient Characteristics Associated with the Use of Pharmacist-Administered Vaccination Services and Predictors of Service Utilization. Journal of the American Pharmacists Association (2021)
- Rashrash, Mohamed, et al. "Predisposing, Enabling, and Need Factors Associated with the Choice of Pharmacy Type in the US: Findings from the 2015/2016 National Consumer Survey on the Medication Experience and Pharmacists' Roles." (2021).

- Mehmood, S., Hasan, S.M.F., Razzakova, C.M., Rashrash, M., et al. Abstracts from the 1st JoPPP Conference on Pharmaceutical Policy and Practice. J of Pharm Policy and Pract 13, 3 (2020). <https://doi.org/10.1186/s40545-019-0201-2>

- El-Dahiyat, Faris, et al. "Herbal medicines: a cross-sectional study to evaluate the prevalence and predictors of use among Jordanian adults." Journal of pharmaceutical policy and practice 13.1 (2020): 1-9.
- Rashrash M, Sawesi S, Schommer JC, Brown LM. Predisposing, Enabling, and Need Factors Associated with the Choice of Pharmacy Type in the US: Findings from the 2015/2016 National Consumer Survey on the Medication Experience and Pharmacists' Roles. Pharmacy. 2021; 9(2):72. <https://doi.org/10.3390/pharmacy9020072>

- Rashrash M, Sawesi S, Schommer JC, Brown LM. Patient characteristics associated with the use of pharmacist-administered vaccination services and predictors of service utilization. Journal of the American Pharmacists Association. 2021 May 29.

- Service:

- Served in new students interviews University of Charleston
- Member of Faculty Affairs Committee
- Member of the Enrollment & Admissions committee University of Charleston
- Volunteered to Meal Plan Delivery at University of Charleston

DR. ALICE GAHBAUER

- Presented "From bench to bedside to bin: Teaching environmental sustainability principles across the pharmacy curriculum" at AACP Virtual Conference on along with P4 Ashley Lam and colleagues from other institutions.
- Gahbauer A, Gruenberg K, Forrester C, Saba A, Schauer S, Fravel M, Lam A, Brock

T. Climate Care is Health Care: A Call for Collaborative Pharmacy Action. Journal of the American College of Clinical Pharmacy. Published online February 12, 2021. doi: 10.1002/jac.5.1412.

DR. JULIE TESTMAN

- Service:

- Mid-Atlantic Experiential Education Consortium (Chair)
- AACP Experiential Education Section Awards Committee (Member)
- Poster Reviewer: Virtual Pharmacy Education AACP Annual Meeting 2021 (Experiential Education Section)
- West Virginia Geriatrics Society (Board of Directors)

DR. JULIE TESTMAN & MRS. JANE CONDEE

- EPAs for New Pharmacy Graduates: Addressing the Key Assumptions for Success. Presented at the West Virginia Pharmacists Association 113th Annual Convention (virtually via Zoom); November 15, 2020.

DR. KARRIE MURPHY

- Recertified as a Board-Certified Geriatric Pharmacist

DR. FARUK KHAN AND DR. KARRIE MURPHY

- Along with individuals from other institutions presented at the 2021 AACP Virtual Meeting- Medicinal Chemistry and Pharmacy Curriculum: A Comprehensive Analysis of Curricular Outcomes in U.S. Pharmacy Programs

DR. CHELSEY LLAYTON

- Took over a practice site at Dr. Sarah Nease's cardiology outpatient clinic, previously run by Dr. Kristy Lucas. Since she has been there, the average time in therapeutic range (TTR) for warfarin patients has exceeded the state average and remained above 70%.
- Presentation with Dr. Krista Donohoe from VCU SOP "LGBTQIA+ Patient Care Laboratory-Based Exercises" during the AACP Lab Sig Webinar showcasing LITE Award winners and nominees in August 2021.

DR. TAMER FANDY

- Research Articles:

- Elwaei T, Abbas S, Aly E, George RF, Ali H, Fandy TE, ElSayed K, Abd Elmageed Z, Ali H (2020). HER2 Kinase-Targeted Breast Cancer Therapy: Design, Synthesis, In vitro and In vivo Evaluation of Novel

Lapatinib Congeners as Selective and Potent HER2 Inhibitors with Favorable Metabolic Stability. J Med Chem. Dec 24;63(24):15906-15945.

- Carraway HE, Malkaram SA, Cen Y, Shatnawi A, Fan J, Ali HEA, Abd Elmageed ZY, Buttolph T, Denir J, Primerano DA, Fandy TE (2020). Activation of SIRT6 by DNA hypomethylating agents and clinical consequences on combination therapy in leukemia. Sci Rep. Jun 25;10(1):10325.

- Shatnawi A, Malkaram S, Fandy TE, Tsouko E (2019). Identification of the inhibitor of growth protein 4 (ING4) as a potential target in prostate cancer therapy. Mol Cell Biochem. 464(1-2):153-167.

- Book Chapters:
- Uddin GM, Fandy TE, DNA methylation inhibitors: Retrospective and perspective view, Advances in Cancer Research, Academic Press, 2021, (In Press).

- Fandy TE, Leffler M, Khan MF (2020). Medicinal Chemistry of Antiepileptic drugs. In Medicinal Chemistry of Drugs Affecting the Nervous System. Volume 2. Chapter 6. Edited by M.O. Faruk Khan & Ashok Philip, Bentham Science, Sharja, UAE. eISBN: 978-981-14-5407-3.

- Posters/Abstracts:

- Abd Elmageed ZY, Polsinelli G, Fandy TE (2020). Histone posttranslational modifications induced by DNA hypomethylating agents. American Association of Pharmaceutical Scientists (AAPS) annual meeting, October 25 - November 5 (Virtual).
- Abd Elmageed ZY, Shatnawi A, Fandy TE (2020). Comprehensive analysis of histone posttranslational modifications induced by curcumin analog. American Association of Pharmaceutical Scientists (AAPS) annual meeting, October 25 - November 5 (Virtual).
- Gaballah MS, Mahgoub S, Josaghani M, Ali HE, Fandy TE, Ali HI, Hassan ZA, Abd Elmageed ZY (2020). Exosome-transfer of miR-6068 mediates the aggressive phenotypes of prostate cancer cells. American Association of Pharmaceutical Scientists (AAPS) annual meeting, October 25 - November 5 (Virtual).
- Josaghani M, Ali HE, Gaballah MS, Haque M, Ali HI, Udeani G, Fandy TE, Abd Elmageed ZY (2020). TMTC4 is a novel biomarker and potential therapeutic target in prostate cancer. American Association of Pharmaceutical Scientists (AAPS) annual meeting, October 25 - November 5 (Virtual).
- H. Caraway, A. Shatnawi, Y. Cen, S. Malkaram, T. E. Fandy (2020). SIRT6 Activation by DNA Hypomethylating Agents and Clinical Consequences on Combination Therapy in Leukemia.

- Service:

- Member, Faculty Affairs Committee 2019-2021
- Advisor, UCSOP Class of 2023
- Advisor, Muslims Student Association (MSA) at the University of Charleston, 2013-2020
- Interviewer, UCSOP New Students for Admission 2007- 2020

American College of Clinical Pharmacology (ACCP) annual meeting September 21 -23 (Virtual). Clin Pharmol Drug Dev. Vol 9, S2 #54.

- Shatnawi A, Malkaram SA, Fandy TE, Tsouko E, Frigo DE (2020). The bimodal function of ING4 in prostate cancer reveals its potential role in the disease therapy. Permanent Abstract Number: 4677, AACR Annual Virtual Meeting.

- Presentations:

- American Association of Pharmaceutical Scientists (AAPS), Rapid Fire Session (2020). Clinical Implications of SIRT6 Enzyme Activated by DNA Hypomethylating Agents. Virtual Annual meeting PharmSci 360.
- American Association of Pharmaceutical Scientists (AAPS 2020), Special poster collection session (hosted by Dr. Meena Subramanyam, Vice President-Global Project Leader at Takeda). Comprehensive analysis of histone posttranslational modifications induced by curcumin analog.

DR. ALADIN SIDDIG

- Publications:

- Aladin Siddig, Victor Obi, Yvonne Ngong, Stephen Cook, Lindsay Acree, Aymen Shatnawi and Dean Reardon. "The Development and Assessment of a Diabetes patient Education Elective at the Doctor of Pharmacy Program". World Journal of Pharm. and Pharm Sci., Vol 9, Issue 9, 2512-2529. 2020
- A Siddig, Thi Diem My "Priscilla Bui, Dean R Reardon, Monica Ven, Zachary Bailes, Jacob Hefner, Aaron Gillig, Divansh Singh, and Kwame G Yeboah. "Analytical Comparison of Continuous Subcutaneous Insulin Infusion and Multiple Daily Injections in Children and Adolescents with Type I Diabetes Mellitus". Journal of Drug Research and Development, Vol. 6, issue 2, 1-7, 2020.
- Aladin Siddig, Ronaldo Ramirez, Mackenzie K Wood, Xiaoping Sun, Gretchen Smith and Kwame G Yeboah. "Formulation and Comparative Characterization of Methylcellulose, Carbomer and Petrolatum Gels for Topical and Transdermal Delivery of Zosyn (Piperacillin/Tazobactam) Antibiotics'. J Pharm Pract Pharm Sci 2020(1): 96-114

- Service:

- Member, Faculty Affairs Committee 2019-2021
- Advisor, UCSOP Class of 2023
- Advisor, Muslims Student Association (MSA) at the University of Charleston, 2013-2020
- Interviewer, UCSOP New Students for Admission 2007- 2020
- Member, Enrollment and Admission Committee 2018-2021
- Advisor, American Association of Pharmaceutical Scientists (AAPS)-UCSOP Student Chapter- 2013-2020
- Reviewer, World Journal of Pharmacy and Pharmaceutical Science, 2020

DR. KRISTY LUCAS

- Fall 2020 Invited member of the ACPE Task Force for Curricular Standards 2.
- May 5, 2021, presented a national educational webinar for educators with Drs. Leah Hall, Leiana Oswald, and Alejandra Zertuche entitled "Using Data to Drive Continuous Improvement in Student Learning"

MRS. BARBARA DOAK

- Completed the APhA Medication Therapy Management Certificate Program Faculty Training enabling her to be an instructor in the APhA MTM Certificate Program.
- Continued participation in the Creating Healthy Communities Coalition in Washington County, Ohio through which she and her P3 and P4 students offer community wellness events such as lunch and learn events and immunization clinics.
- The first employee at UC to receive the COVID-19 immunization through the Kanawha County Health Department on December 29 at UC, then also assisted with the clinic along with several faculty and students.
- Along with P3 and P4 students, offered wellness events in the Parkersburg and Marietta areas: October 2020 - Flu vs COVID-19 Information Display at Cox Family Pharmacy's location inside Piggly Wiggly (So. Parkersburg); February 1, 2020 - YMCA Wellness Event in Marietta, Ohio - offered a blood pressure screening and information display about Heart Health and Go Red for Women. We also did a Facebook live broadcast that day on these topics; Assisted with several COVID-19 immunization clinics in Marietta - Barbara administered the COVID immunizations and the students assisted with various tasks at the vaccinators' stations such as counseling the patients and vaccination prep; March - diabetes awareness information display at Cox Family Pharmacy in So. Parkersburg.
- Barbara, along with Jane Condee, Jennifer Dettra, and Beth Todd offered the APhA Diabetes Certificate Program to 10 UCSOP students (January 2021).
- Barbara Doak, Jane Condee, and Lynn Roth presented "New Year, New You - Let's Get Fit UC Community" during Enlightened Living Day - January 17, 2021.



Chelsey Llayton

How long have you been at the UCSOP?

1 year, I started in July 2020 (right in the middle of the pandemic, whew).

Favorite aspect of being a professor?

I've always enjoyed teaching and sharing knowledge. When most kids wanted to play with toys, I was playing school (much to my siblings' dismay). As a professor, I enjoy sharing my passion for pharmacy and helping students discover theirs.

Tell us about your practice site.

My practice site is an outpatient cardiology clinic with Dr. Sarah Nease. I primarily manage patients' anticoagulation regimens and consult on other patients as needed. Students on rotation with me are also able to see patients with Dr. Nease and medical students/residents for an interprofessional experience.

What's a fun fact about you that people may not know?

I tell the Pi's this, but my wife and I combined our last names when we were married. My maiden name is Lloyd and hers is Payton, so combined we made Llayton.

If you could have any superpower, what would it be?

My wife and I LOVE to travel, especially abroad, so having the ability to live out my Harry Potter dreams of apparition would be fantastic and allow us to visit family more often.



Erica Paxton

How long have you been at the UCSOP?

3 years.

Favorite aspect of working at the SOP?

I love the entire college atmosphere. There are so many different cultures, views, and wonderful energy. It is exciting to work in an environment that always has so much going on (it keeps me on my toes).

Three words that best describe you.

Hopeful, Nurturing and Thankful.

What's a fun fact about you that people may not know?

When I was MUCH younger, I played the violin and was a part of the WV Junior Symphony.

If you had to choose one food to eat for the rest of your life, what would it be?

PIZZA!

UCSOP and WV DII Collaboration

SmartRxU: West Virginia's First Medication Safety and Responsibility Program



By Dr. Rebecca S. Linger, Ph.D., Professor of Medicinal Chemistry

Dr. Rebecca Linger and student pharmacists from the University of Charleston School of Pharmacy (UCSOP) have been collaborating with the West Virginia Drug Intervention Institute, Inc. (WV DII) to increase the understanding of drug safety and drug misuse among West Virginia college students. One of several collaborative efforts between UCSOP and the WV DII is the SmartRx University™ program (SmartRxUI), which was created by the WV DII with support from the Maier Foundation. SmartRxU is West Virginia's first medication safety and responsibility program for college students.

The goal of this program is to provide medication safety education on collegiate campuses across West Virginia, reduce prescription misuse, and prevent medication-related overdoses and overdose deaths. "At the WV DII, we know that college students face unique stressors and circumstances, this course that acknowledges those circumstances and stressors, and focuses on prescription safety and responsibility, in an effort to prevent future prescription misuse and overdose deaths," explained Jessica Napier-Eagle, WV DII Education Director.

Due to the COVID-19 pandemic, WV DII staff had to be creative in the program's delivery by developing an asynchronous online course with learning modules. Working with the West Virginia Collegiate Recovery Program and the WV Higher Education Policy Commission, SmartRxU was shared with several public and private two and four-year campuses in West Virginia. (It is hoped that the program will be rolled out to all universities in West Virginia by the conclusion of the 2021-22 academic year.) College students were trained through the WV DII's online learning management system to deliver the program to peers on their campuses and serve as SmartRxU Ambassadors for the state of West Virginia.

Students who participated were given pre- and post-education surveys to assess their knowledge level in the areas of medication safety, statistics regarding substance misuse, the impacts of substance misuse, and perceived stigma towards substance misuse. By surveying participants prior and after training allows for assessment of students' pre-knowledge of drug safety and substance misuse as well as their ability to learn new material about these topics. Study participants consisted of students who were educated in the SmartRxU program as students who would be trained to present the program to peers (in person) at their universities.

In this first year of the program, 65 students from BridgeValley Community and Technical College, 47 students from West Virginia University, 14 from the University of Charleston, five from West

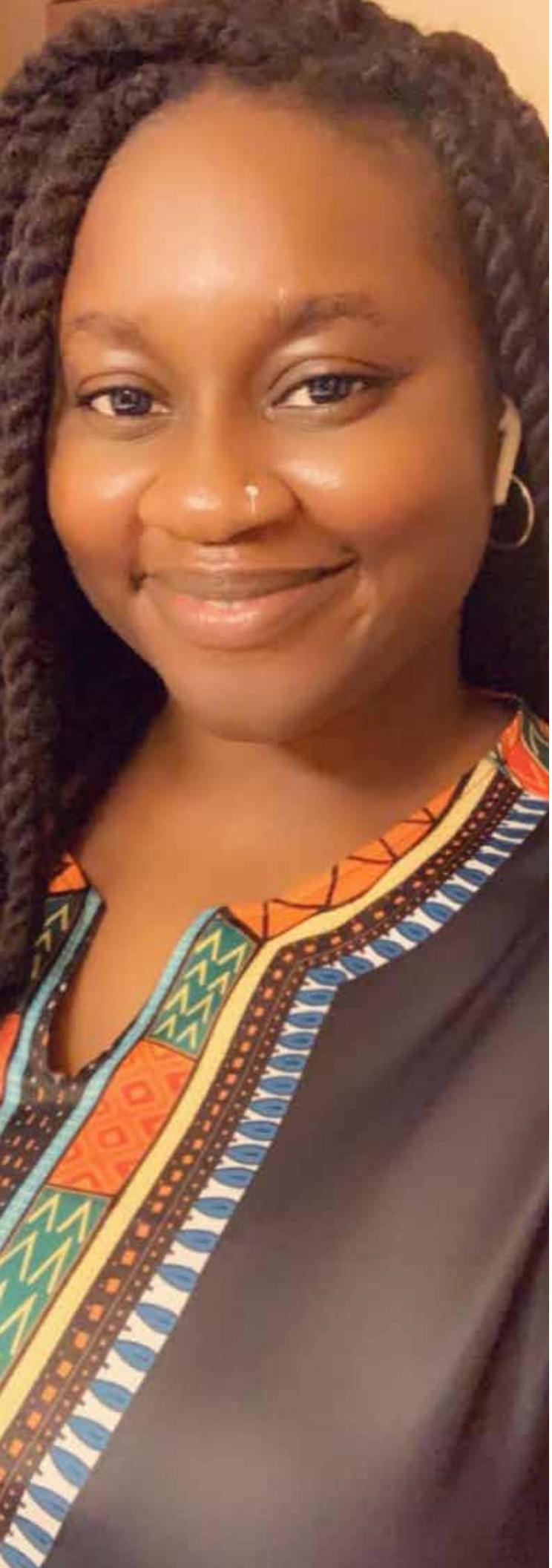
Virginia State University, four from Concord University, and four from the West Virginia School of Osteopathic Medicine participated in the education program online.

Comparing the change in answers from the pre-knowledge survey to the post-survey, we saw a 76% improvement in the knowledge of how to safely dispose of medication by using medication disposal kits or mixing them with other materials (such as cat litter) when disposing in the trash. The students also learned that most misused prescription drugs come from a friend or relative (87% improvement). Assumptions of drug misuse among college students was also believed to be greater than the actual value; at first only 29% believed that 75% of students have never misused medications. After viewing the education materials, 90% of participants recognized that stimulant misuse occurs in approximately 16% of college students. With opioid use, a greater proportion of the participants recognized that 9% of college students have misused prescription opioids, however, we saw a 48% improvement of knowledge with this question.

In the program evaluation, 93% indicated the program increased their knowledge of medication safety and that the information presented was useful to them. Overall, the program was well received by the students and the WV DII plans to continue to offer SmartRxU to additional colleges in the fall with UCSOP assisting in program evaluation and delivery.

Feedback from the campuses that participated this year has been positive. In fact, two campuses included the course in their curriculum. At BridgeValley Community and Technical College, the course was offered as part of the clinical experience for behavioral health majors. At WVU, the program was included in courses required for addiction studies majors. According to Frankie Tack, Clinical Assistant Professor at West Virginia University, "The SmartRxU program and our partnership with the West Virginia Drug Intervention Institute provided an accessible opportunity for our students to become informed consumers of prescription medications with addictive potential. As a result of SmartRxU, our students will also be equipped to share this information with their future clients in mental health and addiction treatment settings which could have life-saving results."

This partnership between the UCSOP and WV DII has provided student pharmacists many advocacy and outreach opportunities. West Virginia needs advocacy efforts like the SmartRxU program to stem the tide of the opioid crisis and to educate our population on the risks of drug misuse.



SNPhA Wins Professional Organization of the Year

By Stanley Ogwotu & Joy-Olusola Okeyemi
Class of 2022 student pharmacists

The Student National Pharmaceutical Association (SNPhA) is a student-run educational service organization concerned with the pharmacy profession, healthcare problems, and the under-representation of minorities in these fields. The SNPhA Chapters at the University of Charleston School of Pharmacy (UCSOP) have aided in the development, organization, coordination, and implementation of programs targeted at improving the health, educational, and social environments of minorities.

The UCSOP SNPhA chapter offers six initiative chair positions. Diabetes, chronic kidney disease, HIV/AIDS, immunization, stroke, and legislation are among the issues addressed by the Initiative chairs. Chair positions are often held by first-year pharmacy students. The purpose of giving these roles to first-year students is to provide them with the opportunity to develop their leadership and professional skills. They are in charge of conceptualizing and coordinating activities relating to their position.

SNPhA is also recognized for its entertaining activities. Every year, after the white coat ceremony for the incoming class, SNPhA hosts a patio party (formerly a roof-top party). This is a gathering for families to commemorate their loved ones' passage into pharmacy school. SNPhA also organizes the annual cultural week. This is a full-week event in February when members of the UCSOP community may dress up in cultural clothing and engage in a variety of cultural events. These events create happiness, inclusiveness, and a culturally harmonious environment. In recent years, these events have been successful that the UCSOP SNPhA chapter hosted the region I & II conference in April of 2016.

The UCSOP SNPhA chapter had a very different academic year in 2020-2021 than in previous years. As a result of the present pandemic, a new normal has formed. Wearing masks on campus, holding virtual organizational meetings, and being randomly selected for COVID testing made it difficult to get things done.

With things transitioning virtually for the year, SNPhA took advantage of all social platforms. From Facebook to Instagram and Snapchat, SNPhA promoted all events and showcases on their social media page. One of the first major events SNPhA held was the



"MASKED up COVID down" event. At this event, SNPhA donated over 600 face masks and 50 hand sanitizers to two homeless shelters in the Charleston, WV area. SNPhA also hosted an event called, "Sock it to Diabetes" where socks were donated to at-risk seniors and people who are homeless. The goal of these events was to equip the community members with important resources such as masks, hand sanitizers, and socks so that members of the community can protect themselves.

SNPhA's biggest event was the inaugural virtual annual culture week event, held February 8-12, 2021. The event comprised of the cultural fashion show, poster presentation, black history month Kahoot, and a tribute to Nneoma Imo and Zach Long, two excellent students at UCSOP student and SNPhA members. As a result of everything accomplished this school year, SNPhA was awarded the Professional Organization of the Year.

Despite the challenges of COVID during the 2020-2021 academic year, SNPhA found ways to fulfill its mission of serving the community while representing the University of Charleston School of Pharmacy. As President of the organization, I was impressed and grateful for the creativity and dedication of each member in making this year a success.



UCSOP Aids in WV COVID-19 Vaccine Rollout

By Carly Stover Williams, BS- Editor in Chief, Communication Coordinator & Assistant to the Dean

West Virginia is a leader in the COVID-19 vaccine rollout in the U.S. as reported by the NY Times and various other national news outlets, and University of Charleston School of Pharmacy (UCSOP) students and faculty have played a huge role in its success. Pharmacists and student pharmacists are the unsung heroes in the fight against the disease that has plagued our nation for over a year.

The UCSOP immediately took action after the Moderna and Pfizer vaccines were approved by the FDA for emergency use in December. The students and faculty understood that the pharmacy community would be a vital partner in seeing that West Virginia residents receive vaccines in a timely manner. "UCSOP was approached by a number of different representatives, from the WV Board of Pharmacy, Higher Education Policy Commission, Kanawha-Charleston Health Department and West Virginia University to work in collaboration to expand the workforce and ease the burden on the overwhelmed public health system," Kristy Lucas, Associate Dean for Academic Affairs stated. Student pharmacists at UC have the unique opportunity to receive their APhA Immunization Training Certificate in their first year of school and are able to vaccinate under the direct supervision of a pharmacist. Because of our state laws allowing this, and our strategic curricular planning, all of our students have been able to make an impact almost immediately in the fight to end the pandemic.

Immunization clinics began with our most vulnerable population in nursing homes. Many students spent several hours of their holiday break traveling to these locations with community pharmacists to administer the COVID-19 vaccine to the elderly. The work then continued with the UCSOP partnering with clinics held by the Kanawha-Charleston Health Department, Kanawha County School Board, Cabin Creek Health Systems, and Family Care Health Centers.

With the assistance of the UCSOP, the vaccinating potential has significantly increased. All doses that had been allotted at clinics were able to be administered. These clinics could have administered more vaccines if the state was provided more doses. The UCSOP has had 119 student pharmacists, 14 faculty advisors, and one staff member assist at 44 vaccination events so far. UCSOP students and faculty have volunteered over 1,100 hours and have assisted in administering approximately 50,000 COVID-19 vaccines.

"This challenging time has allowed me to rediscover and witness the power of our UCSOP team in their dedication to community service

and productive work. The students, faculty and administrators have been together in this novel venture to keep our campus and community safe from the pandemic. Under this trying time, they have made history and will continue to do so. This is one of the proudest moments of my service as the interim dean of the UCSOP," said Faruk Khan.

UCSOP students will soon have the opportunity to begin vaccinating state residents in rural areas of the state, far from the Charleston campus. Several UCSOP students have signed up to be members of the WV VACS Team (Vaccine Administration, Collaboration & Support), and plan to travel with students from other health science programs to assist local health departments, hospitals and community partners to reach these WV residents. "This is an amazing opportunity to build relationships with other future health care providers from medicine, nursing, physician assistant and other state pharmacy programs, all while providing life-saving vaccinations to residents of our state that may otherwise not have the opportunity to be vaccinated," said Gannett Monk, Executive Director of Professional Affairs at UCSOP.

Pharmacists are the drug experts and are one of the most accessible healthcare professionals to the public. They are an incredible resource for vaccine information including ingredients, process for approval, possible side effects, and whether you are a good candidate to receive a particular vaccine. "Perhaps one silver lining of the pandemic has been highlighting the critical role pharmacists play on the healthcare team. Pharmacists are conducting COVID-19 tests, administering the new vaccines, educating patients and other healthcare professionals, evaluating the literature, assisting with research and clinical trials, and communicating important information to the public," noted Michelle Knight, Executive Director of Enrollment and Admissions at the UCSOP.

Current students during this global pandemic will be more prepared than ever to immunize their communities after graduation. "History is being made and UC School of Pharmacy is thrilled to be a positive contributor to this chapter, dedicated to ending the COVID-19 pandemic. When our students don their white coats and step out with a vaccination in hand and a caring smile upon their face, I see gratitude overriding apprehension in the hearts of the patients they approach, and I am assured that these future pharmacists are already making a difference!" Lucas stated.



Tristan Maynard named USPHS Excellence in Public Health Award and Viatris Excellence in Pharmacy Award Winner

By Jamie L. Bero, MA, Director of Student Affairs

Tristan Maynard was awarded the United States Public Health Service (USPHS) Excellence in Public Health Pharmacy Award for graduates in the Class of 2021. The pharmacists of the USPHS established this award in 2003 to encourage student pharmacists to become active in public health. They believe that pharmacists are trusted, accessible healthcare providers and they have the capability and responsibility to produce a positive impact on our nation's health by educating members of their local community on the importance of living a healthy lifestyle. They also believe that student pharmacists have similar opportunities to make positive impacts on public health in their communities and hope that they strive to continue and increase those positive impacts as pharmacists after graduation. Pharmacists and student pharmacists alike are pivotal in advancing public health.

The USPHS award recognizes student pharmacists who demonstrate a commitment to public health. It recognizes student pharmacists who are active in developing innovative approaches to current public health challenges and those who will help lead our nation to a healthier future! Nominees for the Excellence in Public Health Service Award are reviewed by the Pharmacist Professional Advisory Committee. This group is comprised of highly qualified healthcare professionals that focus on public health leadership and clinical service in the federal government. This year 90 student pharmacists from across the country were recognized for their innovative and impactful efforts to address current public health challenges. According to Maynard, "I am beyond grateful

American Pharmacists Association-Academy of Student Pharmacists (APhA-ASP) Policy Vice-President, and P4 Class Historian. During the spring semester of 2020, he was instrumental in planning an on-campus health & wellness fair. Unfortunately, the University of Charleston campus was closed to all in-person events due to the pandemic before the event could occur. Maynard completed five of his eight APPE rotations at Charleston Area Medical Center (CAMC).

Jamie Bero, Director of Student Affairs, had the opportunity to work with Maynard during his days as a student pharmacist. "Tristan was a creative student leader. It was fun working with him and seeing his ideas come to fruition during the PSGA Gala," she said. According to Lindsay Acree, APhA-ASP co-advisor, "Tristan always stepped up into leadership roles whenever needed. He was highly involved with APhA-ASP and could be counted on to volunteer for events. In addition, Tristan is very professional in all of his interactions and is able to instill confidence in others, which is extremely important when communicating to an individual how to improve his or her health."

A preponderance of Maynard's co-curricular activities centered around his contributions as a Tech Sergeant in the West Virginia Air National Guard (WVANG) serving as a medic. In this role, he collaborated with a multidisciplinary team to provide medical services for 300 patients per drill weekend. He has obtained over 4,000 patient contact hours in various specializations (ER, ICU, multi-service unit, internal medicine, pediatrics, OBGYN, and optometry). While also completing his P3 spring semester, he served as the non-commissioned officer in charge of medical in-processing for the WV COVID-19 Task Force. He medically screened and tracked over 2,000 service members and government contractors from March-June 2020. He facilitated and performed COVID-19 swabbing and antibody blood drawing of military and government contractors to allow these individuals to continue their duties. His efforts allowed six task force teams to continue their duties to:

- Safely deliver medical supplies and food to underserved areas of West Virginia,
- Provide sanitation training to businesses to reduce the possibility of transmission of COVID-19,
- Facilitate the augmentation of service members to the WV Department of Health and Human Resources where they assisted epidemiologists in contact tracing

Tristan has been involved with several research projects based on his interest in public health and desire to make a difference. The Impact of Opioid Administration on Previously Opioid Naïve Intensive Care Unit Survivors was published through a local hospital's research center and will be used to teach students and medical providers about the delicacy of opioid naive patients versus opioid dependent patients. He is currently enrolled in a PGY1 residency at Cabell Huntington Hospital.

Graduates Begin Post-Graduate Residency Training

JULIA GOODIN

North Country HealthCare
Flagstaff, AZ

BRIAN GRAY

Holzer Hospital
Gallipolis, OH

ANDREA HARMON

Marshall University/KDMC
Ashland, KY

DANIELLE HOFF (CLASS OF 2020)

CAMC PGY2 Geriatrics
Charleston, WV

TRISTAN MAYNARD

Cabell Huntington Hospital
Huntington, WV

FAITH PETERS

Marshall University/KDMC
Ashland, KY

DYLAN ROSE (CLASS OF 2012)

Novant Health Forsyth Medical Center
Winston-Salem, NC

TAYLOR SCHLEISSEN

CAMC
Charleston, WV

LOGAN WHITE (CLASS OF 2020)

Penn State Milton S. Hershey Medical Center,
Critical Care-PGY2
Hershey, PA

TYLER SIMS

Holzer Family Pharmacy
Gallipolis/Marshall University
Gallipolis, OH



UCSOP Wins National Script Your Future Medication Adherence Challenge Award

By Jamie L. Bero, MA, Director of Student Affairs

For the seventh time, the University of Charleston School of Pharmacy (UCSOP) was a national award winner in the Script Your Future Medication Adherence (SYF) campaign. This campaign is a competition designed to engage health profession students and faculty/staff across the nation by encouraging teams to develop creative initiatives to raise public awareness about the importance of medication adherence in improving health outcomes and reducing total healthcare costs. During the 2021 competition, 78 health profession schools in 13 states participated.

The University of Charleston Script Your Future interprofessional team leadership included Ms. Jamie Bero (Director of Student Affairs), Ms. Jane Condee (Director of Experiential Education), and Ashley Lam (Class of 2022) from the School of Pharmacy; Ms. Melissa Jensen, from the Physician Assistant Program, and Ms. Melissa Layne form the School of Nursing. Most of the outreach was achieved at immunization clinics sponsored by the Kanawha-Charleston Health Department (KCHD). We also collaborated with other community partners including Bypass Pharmacy, Clendenin Pharmacy, Kanawha County Schools, Boone County Schools, Cabin Creek Health, Man Pharmacy, Family Care, Jackson County Health Department, Maranatha Church, and the West Virginia Vaccine Administration, Collaboration & Support (VACS) Team.

When asked about this year's SYF challenge, Jamie Bero commented, "I am very proud of the School of Pharmacy's impactful involvement in 35 COVID-19 immunization clinics with our colleagues from the Physician Assistant and Nursing programs. I know that the community was happy to have someone to talk to while they waited (after their vaccinations) and to receive the medication wallet cards. I would like to thank our Script Your Future team as well as Dr. Gannett Monk for coordinating all the clinic participants. It was

a difficult year to find community outreach events because of the pandemic. Our community outreach and involvement were deemed exemplary in the nation and garnered us winning this national Script Your Future Overall Award." Our Script Your Future team participated in clinics where over 50,000 COVID-19 vaccinations were administered during the Script Your Future Challenge time frame of February 1- April 1, 2021. The University of Charleston (School of Pharmacy, Physician Assistant Program and School of Nursing) was consistently mentioned as an active participant in the COVID-19 vaccination clinics in Charleston and the surrounding communities in weekly press releases.

Our participants planned and executed 46 unique, innovative activities resulting in over 28,000 pledges to take their medications as prescribed. According to Jane Condee, "I think that the COVID-19 immunization clinics were a great way for our student pharmacists to practice their immunization skills as well as a fantastic way to disseminate the medication wallet cards and emphasize medication adherence. The patients were happy to have someone to talk to during their 15-minute recovery/observation time and many of them asked for additional wallet cards for family members and friends."

During the SYF challenge period 118 student pharmacists and 14 School of Pharmacy faculty/staff participated in this endeavor. This includes 67% of the student pharmacists and an astounding 85% of the P1 class. The University of Charleston Team participated in 35 unique COVID-19 vaccination clinics. Additionally, over 100 student nurses and physician assistants and faculty participated. These student health professionals were thrilled to be able to practice their skills. This group volunteered over 2,300 hours of service.

PHARMACY phun
Despite COVID-19 restrictions we managed to still have a lot of fun throughout the school year!





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