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National Church Residencies
New Life Methodist Health and Wellness Center
Physicians CareConnection
US Together
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Over the past twelve months the Office of Outreach and Engagement has continued to grow and expand our infrastructure, advocacy and partnerships.

We continue to enhance our infrastructure, putting in place the people, policies, and organization to create long-term, meaningful impact both locally and globally. The Outreach and Engagement Task Force has been busy guiding forward movement, with a focus on our strategic plan. The online tracking tools put in place last year to measure impact have already given our office a wealth of real-time information about the accomplishments of our faculty and students and are providing opportunities to foster new and existing partnerships.

The profession of pharmacy has seen tremendous growth in Ohio over the past year with legislation, such as HB116 (medication synchronization) and HB188 (collaborative practice agreements) expanding the scope of practice for pharmacists in the state. Many of our students, faculty, alumni, and preceptors have aided in helping to educate elected officials and others about pharmacy in order to improve patient health and encouraged their pharmacist and pharmacy student colleagues to get involved in advocacy for the profession.

The college continued its commitment to the surrounding community with students completing over 9,000 hours of community service that directly impacted nearly 38,000 patients in 130 locations. Much of what we do could not be possible with the partnerships we have with community partners and universities both locally and globally. We work alongside free clinics, businesses, non-profits, and citizens to enhance teaching and provide the best outcomes for patients.

While we continually strive to improve our services, we are honored to be recognized by our peers and other organizations for the outreach work being done here at Ohio State. Notably this year the College of Pharmacy was a finalist for the American Association of Colleges of Pharmacy (AACP) Lawrence C. Weaver Transformative Community Service Award and received the Student Community Engaged Service Award from this organization. Additionally, faculty received national practice awards, such as the American Pharmacists Association Pinnacle Award for their impactful work in patient care in Ohio State’s General Internal Medicine Clinics and were inducted into academic societies related to expansive public education through Generation Rx. Individual programs received University-wide awards, including Partner for Promotion and the OSU South Africa Partnership for service-learning and global outreach and engagement.

It has been an exciting and progressive year for outreach and engagement in the College of Pharmacy. Together we are building a framework that will enhance teaching, learning, and the well being of people everywhere. Enclosed you will find information for the 2015-2016 academic year that showcase the diverse and numerous ways we are engaging with our communities. We look forward to another wonderful year of service, education, and scholarship in our local to global communities.

Jennifer Rodis, PharmD, BCPS, FAPhA
Outreach & Engagement Faculty

Jennifer Rodis, PharmD, BCPS, FAPhA
Assistant Dean, Outreach & Engagement

Bella Mehta, PharmD, FAPhA
Director of Continuing Professional Development

Outreach & Engagement Staff and Trainees

Emily Keeler, MA
Program Manager & Community Builder

Hyun-Su Helen Kim, MA, PharmD
Global Pharmacy Practice and Education Fellow

Ashley Knackstedt
Program Assistant

BY THE NUMBERS

130
The number of locations engaged by College of Pharmacy faculty, students, and alumni.

9,551
The number of student volunteer hours

37,715
The number of patients served, many of these at locations caring for under-served or at-risk populations.
Student-led Program Named Recipient of National Pharmacy Award

An Ohio State student-led program for refugees has been named one of four recipients of the Student Community Engaged Service Award from the American Association of Colleges of Pharmacy (AACP). This award recognizes student-led community engagement projects conducted either as a component of the curriculum or as an extracurricular program.

“The community engagement programs we recognize this year demonstrate the broad and deep connections between our members and vulnerable communities,” said AACP Executive Vice President and CEO Lucinda L. Maine, PhD, RPh. “This is consistent with our vision that we will jointly work to create a world of healthy people. The focus on serving vulnerable populations and creating a diverse pipeline of future learners is remarkable.”

The program, “Orientation to Pharmacy Services” (OPS), recently renamed “Pharmacy Ambassadors”, began in 2013 through the collaboration of the Ohio State University College of Pharmacy’s Partner for Promotion (PFP) program, Kroger Pharmacy, and US Together Inc., a refugee resettlement agency. The program is run from the Kroger Pharmacy on Morse Road where staff pharmacists help oversee the program and the pharmacy students.

OPS is integrated into US Together’s refugee orientation sessions to provide education regarding the U.S. healthcare system and familiarize the refugees with the operations of a community pharmacy. With the help of an interpreter, the attendees learn about a variety of topics such as understanding the difference between over-the-counter and prescription medications, refills, and the medication labels. While the attendees feel more comfortable in the pharmacy, students learn valuable skills such as cultural sensitivity and working with interpreters making it a positive experience for everyone.

To date, the presentations have been provided to over 175 refugees in the greater Columbus area; 40 students from the College of Pharmacy have worked to provide this service.

An award was presented to the student leaders, Eric Chau, Natalie Fiorilli, and Helen Kim, in July at the AACP Annual Meeting in Anaheim, CA. The OPS program also received a $5,000 team prize to be used exclusively to support the program.

Outreach and Engagement Tool Launched

A new reporting tool for outreach efforts was launched in the Fall of 2015. The first phase gathered PharmD student hours. This new tool better tracks outreach and engagement efforts to facilitate enhanced collaborations and identify emerging opportunities. After a successful first run, it will be implemented college-wide in the Fall of 2016.

Ohio State Finalist in National Outreach Award

The Ohio State University was a finalist for the 2016 American Association of Colleges of Pharmacy (AACP) Lawrence C. Weaver Transformative Community Service Award. As part of the process representatives from AACP toured the college and several outreach sites in Columbus.
Two Pharmacy Outreach Programs Honored by Ohio State

Two programs at The Ohio State University College of Pharmacy have been named recipients of the 2016 Outreach & Engagement Awards from The Ohio State University. Pharmacy’s Partner for Promotion was named recipient of the Distinguished Service-Learning Award; the OSU-South Africa Partnership was honored with the Emerging International Engagement Award.

Created and run by Jennifer Rodis, PharmD, BCPS, FAPhA, Partner for Promotion (PFP) is a one-year educational experience that partners student groups with a community-based pharmacy practice and a pharmacist to create or expand specially-developed patient services for the site and its patients. PFP was created through grant funding from the Office of Outreach and Engagement and, with the help of the Technology and Commercialization Office, has been adopted at six additional colleges of pharmacy across the United States. PFP is currently celebrating its 10th anniversary.

Debra Goff, PharmD, FFCP, spearheaded the collaboration between Ohio State and South Africa to combat antibiotic resistant “superbugs.” The partnership seeks to develop a train-the-trainer pharmacist mentoring outreach program for antibiotic stewardship. This program impacts the quality of patients’ lives and citizens of South Africa, who are impacted everyday by superbugs. Ohio State faculty work with pharmacists in South African hospitals to understand local barriers related to superbugs. The pharmacists are mentored at Ohio State by faculty in the colleges of Pharmacy, Medicine and Veterinary Medicine during the 2-week program. This program was recipient of a 2014 Engagement Impact Grant.

Both programs were honored at an awards ceremony on May 3, 2016, in the Archie Griffin East Ballroom at the Ohio Union on Ohio State’s campus.

Pharmacy Continues Schweitzer Excellence

The College of Pharmacy continued its tradition of serving as a home to Schweitzer Fellows with the announcement of Jorge Ng Zheng being named a Schweitzer Fellow for 2016-2017 and Andrea Lee and Godsfavour Umoru finishing their 2015-2016 service year and becoming Schweitzer Fellows for Life (see update on page 23). Ng Zheng is the seventh Schweitzer Fellow from the college since the Columbus-Athens program started in 2010.

Ng Zheng’s project will pair at-risk patients with fellows who will help guide them through the medical system of their continued care. The goal is to reduce unnecessary hospital visits, decrease costs, increase health understanding, improve transitions of care, and develop partnerships between OSUMC and local free clinics.

Since its founding in 1940, The Albert Schweitzer Fellowship (ASF) has committed to preparing the next generation of professionals who will serve and empower vulnerable people to live healthier lives and create healthier communities. There are 16 chapters across the United States and Gabon.
Kwiek Recognized for Pharmacology Teaching Excellence

Nicole Cartwright Kwiek, PhD, clinical assistant professor of Pharmacology at The Ohio State University College of Pharmacy, was recently inducted into the Academy of Pharmacology Educators by The American Society for Pharmacology and Experimental Therapeutics (ASPET).

Established in 2010, the academy recognizes individuals who have made exemplary contributions to pharmacology education in student–teacher interaction, innovative contributions, scholarly endeavors, and/or professional development and service. Kwiek is one of only 12 faculty nationwide to be named to the academy.

“I feel so honored to be recognized by ASPET, but I have been unbelievably lucky to learn from incredible teaching mentors, trainees and colleagues,” said Kwiek. “It’s also easy to teach when you have such amazing students in the classroom.”

Kwiek has received the BSPS Distinguished Teaching award multiple times. In addition to her teaching, Kwiek co-directs the Generation Rx Initiative, serves as the director of the Generation Rx Lab at COSI, and is director of Undergraduate Studies for the college. She has taught massive open online classes (MOOCs) through Coursera and iTunesU and created a summer pharmacology program for high school students called Pills, Potions, and Poisons.

Awards

General Internal Medicine - Stuart Beatty, Kelli Barnes, Debbie Barnette, Laura Hall, Neeraj Tayal
APhA Foundation Pinnacle Award, July 2015

Sarah Adkins
Preceptor of the Year
Free Clinic of the Year in the state of Ohio from the Ohio Association of Free Clinics and Ohio Department of Health (December 2015) for the Ohio University Heritage College of Osteopathic Medicine Community Health Programs

Debra Goff
Emerging International Engagement Award, The Ohio State University
Deborah Goff / OSU-South Africa Partnership

Kenneth Hale
Cardinal Health, Pillar of Strength Award, 2015.
Cardinal Health, naming of the Ken Hale Generation Rx Champions Award (to recognize outstanding contributions by their employees in prescription drug misuse prevention), 2015.

Hyun-Su Helen Kim, Natalie Fiorelli, Eric Chau
AACP Student Community Engaged Service Award, American Association of Colleges of Pharmacy

Nicole Kwiek
Inducted into The American Society for Pharmacology and Experimental Therapeutics (ASPET) Academy of Pharmacology Educators

Jennifer Rodis
Partner for Promotion - Distinguished Service-Learning Award, The Ohio State University

College of Pharmacy, Office of Outreach & Engagement
Finalist, AACP Transformative Community Service Award, American Association of Colleges of Pharmacy

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**Student Awards**

**Schweitzer Fellowship**
New - Jorge Ng Zheng, a PharmD/MBA student, along with students from dietetics and nursing students
Completed - Andrea Lee and Godsfavour Umoru, PharmD students in collaboration with pharmacy clinical track faculty member, Deb Barnette and community preceptor, Michelle Maguire

**Schweitzer Fellowship**
New - Jorge Ng Zheng, a PharmD/MBA student, along with students from dietetics and nursing students
Completed - Andrea Lee and Godsfavour Umoru, PharmD students in collaboration with pharmacy clinical track faculty member, Deb Barnette and community preceptor, Michelle Maguire

**American Pharmacists Association Academy of Student Pharmacists (APhA-ASP)**
Region 4 Operation Immunization Award
Division AA First Runner Up Chapter Achievement Award *(presentation shown above)*

**Student National Pharmaceutical Association (SNPhA)**
Second Most Active Chapter in the Region

**Student Society of Health-System Pharmacists**
Outstanding Professional Development Project

**Naruhsa Oda**
Academy of Managed Care Pharmacy (AMCP)
Member of the Year

**David Wai**
Academy of Managed Care Pharmacy (AMCP)
Outstanding Leadership Award

**Matthew Wright**
National Community Pharmacist Association (NCPA)
Annual Convention Scholarship

**Grants**

**Generation Rx: Safe Medication Practices for Life**
Cardinal Health Foundation
Kenneth Hale, Nicole C. Kwiek
$200,000
Continuation of the Generation Rx partnership, revision and consolidation of Generation Rx websites, enhancements to the Generation Rx Lab at COSI, support for the Higher Education Center for Alcohol and Drug Misuse Prevention and Recovery National Meeting, revision of the community and teen toolkits.

**Higher Education Center for Alcohol and Drug Misuse Prevention and Recovery**

**Higher Education Center for Alcohol and Drug Misuse Prevention and Recovery**
Conrad Hilton Foundation
Kenneth Hale
$212,500 (College of Pharmacy)
2014-2017
The Higher Education Center’s mission is to provide education and training, research and evaluation, technical assistance, and technology development to support collegiate alcohol and drug misuse prevention and recovery. The Generation Rx Initiative’s role is to develop and support the use of prescription drug misuse prevention resources.

*Dr. Hale directs the College of Pharmacy’s role in the Higher Education Center partnership.*

**Medication Therapy Management in Federally-Qualified Health Centers**
Ohio Department of Health
Jennifer L. Rodis, Mary Borovicka (University of Toledo), Bethanne Brown (University of Cincinnati), Magdi Awad (NEOMED), Kelly Wright (Cedarville University), Michael Rush (Ohio Northern University), Lori Ernsthausen (University of Findlay)
$52,208 (2015-2016)
Demonstration project (Phase 1 & 2) to identify best practices for pharmacists providing care in Federally Qualified Health Centers in Ohio and develop opportunities for expansion across the state.
The Feasibility of Pharmacy and Home Healthcare Transitions of Care Services in an Elderly, Underserved Population in the ED
Community Pharmacy Foundation
Cara Hoyt, Jennifer L Rodis, Lauren Southerland, Kimberly Payne, Amy Lehman, Brianne Porter, Nick Newman
$34,750
Feasibility project to connect senior patients discharged from the Emergency Department at OSU East to transitions of care through Uptown Pharmacy and a home healthcare entity, Almost Family.

Patient education video productions for prescription drug misuse prevention
BioDelivery Sciences International
Kenneth Hale, Stuart Beatty, Kelli Barnes
$30,000
The development of two educational videos: one to be used in patient care settings to raise awareness about the scope, causes and consequences of prescription drug misuse; the second to be used for educating patients receiving a controlled substance prescription. These videos will also provide guidance to help prevent misuse and offer resources for those with substance use disorders.

Good4Growth Education
Cardinal Foundation
Kristin Casper, Jennifer Seifert
$15,000
The pharmacy team at the Charitable Pharmacy identified patients who serve as caregivers for children 18 years of age and younger, provided them with educational resources using the Cardinal Foundation Good4Growth program that focused on healthy eating, encouraging activity, creating a nurturing environment, and using medications safely. Information was reinforced at a subsequent visit and counseling about the importance of health behavior changes was provided.

Ohio Minds Matter
Columbus Foundation
Kristin Casper, Jennifer Seifert, Lisa Jacob
$9,000
The pharmacy team at the Charitable Pharmacy identified patients who would benefit from receiving educational information from Ohio Minds Matter. Understanding and utilization of the educational materials was assessed at a subsequent pharmacy visit. A mental health awareness day was organized to provide community resources to all patients, caregivers, and family members impacted by mental health conditions.

Orientation to Pharmacy Services – An educational program for newly resettled refugees
OSU CCTS Community Engaged Scholarship Voucher
Hyun-Su (Helen) Kim, Jennifer L Rodis, Ben Michaels
$4,000
Qualitative research project involving focus groups with PharmD students, resettlement agency staff, and refugees to determine impact of an education program on navigating pharmacy services presented to resettled refugees.

A Little Goes A Long Way Student Mini-Grant
Ohio State P12 Initiative
Nira Kadakia, Joe Cusimano, and Eun Jeong Park, PharmD students
$4,000
Collaboration grant from the P12 Initiative, a university-wide partnership connecting Ohio State administrators, faculty, students and staff with Ohio schools and organizations that promote collaboration and serve underserved school-aged children and their families.

My Pharmacist Mobile Application
American College of Clinical Pharmacy Ambulatory Care PRN Innovation Grant
Jennifer L. Rodis, Emily Keeler
$2,100
Funding to complete My Pharmacist mobile application through Office of Outreach and Engagement. App has been finished and pilot tested; rollout will occur in the 2016-2017 year.

Outreach and Engagement Travel Support Funding
Helen Kim
$2,000
Funding for travel to the Engagement Scholarship Consortium Conference at the University of Nebraska-Omaha in Fall 2015.

Community Mini Grant
Alcohol, Drug, and Mental Health Boardof Franklin County (ADAMH)
Adam Conley
$2,000
This grant helped to support Pharmacy Ambassadors, a program to orient new refugees to the American healthcare system.
HIGHLIGHTS

Critical Difference in Women Grant
Hyun-Su Helen Kim
$1,000
Critical Difference for Women (CDW) is a scholarship/grant-offering program for women seeking advanced education and enhanced professional lives at Ohio State.

Wellness Innovator Grant
Emily Keeler, Joy Scott
$500
Funding to expand wellness initiatives within the College of Pharmacy through the Wellness Innovator Program.

Staff Manager Grant
Emily Keeler
$250
Support for professional development in leadership.

Marianna Russell Technology Grant
Emily Keeler
$75
Support to attend training at The Ohio State University College of Nursing to learn about building mobile apps.

Scholarly Works


Hale KM. Hosted eight podcast recordings and two webinars relating to prescription drug misuse for the Higher Education Center for Alcohol and Drug Misuse Prevention and Recovery (October, 2015, and April, 2016). (All posted at HECAOD.osu.edu.)


Posters


Casper K, Seifert J. Good4Growth Education. Poster presented at OPA annual meeting, Columbus, OH. April 2016.

Kim HS, Rodis JL, Brueggemeier B, Hale K. Global Pharmacy Education Initiatives in the Ohio State University College of Pharmacy. Poster presented at ACCP Global Conference, San Francisco, CA, October 2015


Porter B, Edelstein J, Bosold J, Lehman A, Rodis JL. Evaluating the Impact of a Student Peer-Mentoring Program on Student Skills Conducting Comprehensive Medication Reviews. Encore poster presented at OSU College of Medicine’s Celebration of Scholarship, Columbus, OH, October 2015


Presentations

Kim HS, Fiorilli N, Chau E, Rodis JL. Orientation to Pharmacy Services. Workshop presentation at Engagement Scholarship Consortium Conference, State College, PA. September 2015


Emptage R. Medicare Part D and Medicare Plan Finder Demonstration. Pharmacists, Pharmacy Technicians and Staff at the Charitable Pharmacy, Columbus, OH, October 2015.

Heart attack versus Heartburn. Presentation created by Jade Besnick and updated by Mackenzie Piche and Megan Johnson (P2 students) as part of the OSU APhA-ASP Operation Heart who then trained the P1 class as an option to present to their Geriatric Experience Sites.

Script Your Future: Take the Pledge- Take Your Meds. Presentation about medication adherence found by Melvi Chacko (P2 student) who then trained the P1 class as an option to present to their Geriatric Experience Sites.

Hale KM. Generation Rx and the Academy of Pharmacy of Central Ohio (Chapter VII), September 2, 2015, Columbus, Ohio (co-presented with PharmD candidates)


Hale KM. Generation Rx and the Pharmacy Community’s Obligations in Prescription Drug Misuse Prevention. Cedarville University College of Pharmacy, Cedarville, Ohio, March 29, 2016.
Hale KM. The Pharmacy Community’s Obligations in Prescription Drug Misuse Prevention. Marshall University College of Pharmacy, Huntington, West Virginia, October 9, 2015. (Keynote Pharmacy Month speaker)

Hale KM. The Pharmacy Community’s Obligations in Prescription Drug Misuse Prevention. Cedarville University College of Pharmacy, Cedarville, Ohio, August 14, 2015.


Rodis JL, Ulbrich T. 3rd annual Ohio Innovative Practice Forum and Showcase. Co-facilitated presentation at Ohio Pharmacists Association Annual Meeting, Columbus, OH, April 2016

Rodis JL. What Doctors and Patients Don’t Know about Pharmacists. BrutX presentation at OSU’s Clinical & Translational Sciences Annual Meeting, Columbus, OH, September 2015


Downing MN, Summers KE, and Kwiek NC. The Generation Rx Laboratory: An Innovative Drug Education Hub. Talk delivered at The Ohio State University College of Medicine Celebration of Educational Scholarship. Columbus, Ohio, 10/20/15.


Barnette, D. Teaching with Simulations: Focus on Team Based Learning. Talk delivered the Thailand National Pharmacy Education Pre-Conference, Chulalongkorn University, Bangkok, Thailand, 5/30/2016

*Other community educational presentations provided by individual programs are included in area updates.
Advocacy

Project Lead: Jennifer Rodis, Henry Mann, faculty
Collaborators: Residents, Fellows, PharmD Students, specifically E. Michael Murphy (P2) and Michael Baxter (P3)

The 2015-2016 academic year at The Ohio State University (OSU) College of Pharmacy was successful when it came to advocating for the profession. As the push for provider status has intensified from national organizations over the past several years, and the intent to introduce provider status legislation in Ohio in the near future, OSU student pharmacists took advantage of their resources to form relationships with legislators and advocate for expanded scope of pharmacists’ practice.

In August students welcomed Ohio State Senator Charleta B. Tavares to the Helping Hands Free Clinic. During the tour of the facilities it was shown how much student pharmacists contribute to the success of the clinic and the great impact pharmacist provided care can have on the medically underserved. Senator Tavares entered Helping Hands hesitant to support some pro-pharmacy legislation, but since then has been more open to supporting legislation that allows pharmacists to better care for their patients.

As the academic year began, students were motivated to reach out to Ohio Congressmen and women to ask for their support of HR.592 – Pharmacy and Medically Underserved Areas Enhancement Act. A large black and white congressional district map was hung up in the student lounge and, as Representatives agreed to cosponsor HR.592, their districts were colored in. This visual representation of the state’s progress allowed students to see the great work that had been accomplished and which areas to focus on next. In total, students sent over 50 letters to 3 Ohio Congressmen and women with one Congresswoman, Marcy Kaptur, consequently cosponsoring HR.592. As a thank you to all Ohio Congressmen and women and Senators that cosponsored HR.592 & S.314 Ohio State student pharmacists also sent holiday thank you cards to commend them for their determination to improve patient care in America.

Following winter break, the Ohio State Chapter of the American Pharmacists Association Academy of Student Pharmacists (APhA-ASP) welcomed Columbus City Councilman Michael Stinziano to the College to tour our building and speak at a chapter meeting about the importance of advocacy.

The College engages with the lobbying organization for the state of Ohio, the Ohio Pharmacists Association through committee work, officer service, annual appointment of a student liaison to the OPA board, as well as faculty, staff, and student involvement with the annual Student Legislative Day held at the Ohio Statehouse.

In addition to the above events, an elective course was resurrected, Pharmacy Advocacy PH7160. For this year, a resident and fellow collaborated with faculty to re-create the course and teach this interactive 7-week elective. Other efforts to foster advocacy by the Office of Outreach and Engagement include increasing awareness of legislation in Ohio impacting the profession of pharmacy through emails to all users, running “Did You Know” images on monitors in the lobby of Parks Hall to educate visitors on the role of pharmacists, and hosting an all-college seminar on grassroots advocacy by a representative from the National Association of Chain Drug Stores (NACDS) that was well-attended by students across the college.
Continuing Professional Development

Project Lead: Bella Mehta
College collaborators: Adam Betz, Jonathan Gladden, Casey Hoerig, Ashley Knackstedt, Emily Keeler, Alyssa Grovemiller, James Logan, teaching faculty for CPD programming.
Community partners: Corvel, American Pharmacists Association, National Association of Chain Drug Stores, Ohio Pharmacists Association, ODEE

Continuing Professional Development had a dynamic year with their first full season of offering continuing professional development opportunities.

- Hosted 13 in-person programs that reached over 500 pharmacists and student pharmacists including:
  - APhA Pharmacy-Based Cardiovascular Disease Risk Management Certificate Program
  - APhA The Pharmacist and Patient-Centered Diabetes Care Certificate Program
  - APhA Pharmacy-Based Immunization Delivery Certificate Program
  - APhA Delivering Medication Therapy Management Services Certificate Program
  - NACDS Community Pharmacy-Based Point-of-Care Testing Certificate Program
  - APhA Pharmacy-Based Travel Health Services Certificate Program
- Conducted a preceptor needs assessment in conjunction with the Office of Experiential Education to guide future offerings.
- Successfully negotiated a contract with a national company and provided a Pharmacy Technician Training course for their Dublin call center. Additional live offerings will be offered starting in July 2016.
- Created a strategic proposal for the creation of a Center for the Advancement of Pharmacy Practice (CAPP) and presented the proposal to the Executive Committee. The Director of CPD is working with College and University Development to seek potential funding entities for CAPP.
- Online modules of original content are being created to expand web-based offerings in topics such as Immunization Bridge Course, Naloxone Training, E-cigarettes, Direct Oral Anticoagulants, and Lipids Update. These are expected to go live in late 2016.
Free Clinics

The College of Pharmacy engages students, alumni, preceptors, and faculty across Central Ohio in free clinic service to our communities. The models of care and patient populations are varied; all clinics engage PharmD student and pharmacist volunteers and involve interprofessional team experiences and care. These experiences link to the curriculum through achievement of Community Health Service Hours for time spent. Dr. Anna Haas-Gehres fosters communication, growth, and accountability among these clinics through an independent study for student chairs of these free clinics as well as representing the College of Pharmacy at the regional free clinic association monthly meetings. For the first time this year, our free clinics began collecting data related to impact of the service. Activities at individual free clinic sites at which our students, faculty, and alumni volunteer is described below.

Asian Free Clinic
College collaborators: Helen Kim, SNPhA volunteers
At the Asian Free Clinic, **260 patients were seen with 166 of them being counseled**

Columbus Free Clinic
College collaborators: Alexa Sevin, OSU Residency Program, PharmD students, OSUWMC Pharmacy Department

A new service-learning elective course, PHR 7694, was created to care for patients longitudinally. The course development was funded through the Service Learning Institute at Ohio State. This elective course will transition into an APPE rotation experience for the 2016-2017 year and will continue to care for patients and possibly expand the scope of practice.

Faith Mission
College collaborators: OSU COP alumni, preceptors, PharmD students
Faith Mission saw and **counseled 335 patients and dispensed 817 prescriptions**

Helping Hands Free Clinic
College collaborators: Anna Haas-Gehres, OSU COP alumni, preceptors, PharmD students
Helping Hands Free Clinic **helped 120 patients and dispensed 193 prescriptions**

New Life Health and Wellness Center
College collaborators: Anna Haas-Gehres, OSU COP alumni, preceptors, PharmD students
The faculty and students at the New Life Health and Wellness Center continue to make progress having seen **873 patients and dispensed 1525 prescriptions** with **55 hours of faculty volunteer time** and **320 student volunteer hours**.

Physicians Care Connection
College collaborators: OSU COP alumni, preceptors, PharmD students
PCC **helped 697 patients and dispensed 741 prescriptions**
Generation Rx

Project leads: Ken Hale, Nicole Kwiek
College collaborators: Cindy Clouner, Emily Keeler, The Generation Rx Collaborative Student Organization
Community partners: Cardinal Health Foundation, Drug Free Action Alliance

Scholarship pertaining to prescription drug misuse prevention continues to flourish. Generation Rx’s partnership with Cardinal Health and the American Pharmacists Association (APhA) has now produced an estimated public relations reach of more than 37 million nationwide since 2010. Generation Rx has developed/revised educational resources for people of all ages; partnered with key organizations to enhance medication safety; engaged in presentations at the local and national levels; and advocated for the involvement of the pharmacy community around this serious public health issue. We have also continued and enhanced Generation Rx’s partnership with the College of Social Work and Office of Student Life within the Higher Education Center for Alcohol and Drug Misuse Prevention and Recovery. The Higher Education Center, which was formally approved as a University Center this year, launched its first National Meeting in August 2015, has developed innovations in SBIRT models (screening, brief interventions, and referral for treatment) relating to prescription drug misuse, is driving innovations in prevention/recovery technology, and is providing support and technical assistance for other colleges and universities in alcohol and drug misuse prevention and student recovery.

2015-2016 Highlights:
• Updated the Adult Toolkit
• Updated the Teen Toolkit
• Updated the Elementary Toolkit

In addition to Generation Rx, faculty and staff that work on the project often lend their expertise to other organizations to improve their programming.

Generation Rx Lab

Project leads: Nicole Kwiek, Katie Summers
College collaborators: Molly Downing, undergraduate pharmacy students, PharmD students
Community partners: Cardinal Health Foundation, The Ohio State University Office of Research

The lab had over 1300 general COSI guests participate in the Generation Rx Lab daily shows. Also, over 800 students participated in field trips through the lab that included interacting with the patient simulator as he experienced a trauma, testing natural products for antibiotic properties, developing hand sanitizer, and observing the effects different drugs had on the heart rate of a water flea or the neuronal signaling of a cricket. Finally, lab staff and volunteers participated in COSI’s interactive videoconference programming and reached 739 students across the country as they learned about the roles community or hospital pharmacists play in the healthcare field.
Global Initiatives

Project leads: Hyun-Su Helen Kim, Jennifer Rodis
College collaborators: Undergraduate, Graduate, and PharmD students, residents, and faculty (Amanda Hafford, Ken Hale, Bob Brueggemeier, Ching-Shi Chen, Julie Legg, Chenglong Li, Milap Nahata, Karl Werbovitz, Tom Li, Jim Fuchs, Debra Goff, Debra Barnette), Office of Student Affairs, Office of Experiential Education

Community partners: Office of International Affairs, The Ohio State University; Global Gateways, The Ohio State University; University of Michigan; University of Minnesota; China Pharmaceutical University (CPU), China; Fudan University (FU), China; Peking University (PU), China; Shenyang Pharmaceutical University (SPU), China; Hong Kong Baptist University, China Medical University (CMU), Taiwan; National Taiwan University (NTU), Taiwan; Taipei Medical University (TMU), Taiwan; National Yang-Ming University, Taiwan; Netcare Sunward Park Hospital, South Africa; Sefako Makgatho Health Sciences University, South Africa; Universidad Nacional Autonoma de Nicaragua–León, Facultad de Ciencias Quimicas, Nicaragua; University of Cagliari, Italy

The global initiatives have continued to grow through this academic year as well as formulate more structure to these important college efforts. Key highlights in this area include:

Experiences
A variety of experiences and exchanges happened with faculty and students including hosting one Fulbright Scholar from the University of Cagliari facilitated by Dr. Jim Fuchs; four MS in Clinical Pharmacy students, two from NTU and two from CMU; one clinical pharmacy faculty member for experiential training from Taipei Medical University; and two pharmacists from South Africa for a short-term visit and training experience facilitated by Dr. Debbie Goff. In addition, the college engaged in an annual video conference with two Taiwanese universities; a new independent study course was created and offered to facilitate this experience called, “Pharmacy Students: East Meet West”

COP faculty maintain links to the Pharmacy Thai Consortium, with Dr. Tom Li as the main liaison for this initiative. This past spring Dr. Debra Barnette traveled to Thailand to present on interprofessional simulations and attend meetings to explore further opportunities for collaboration

Also, a comprehensive presentation on U.S. Pharmacy System/Practice/Education was developed as a resource for staff, faculty, or students to give presentations to international colleagues and collaborators

Partnerships
The College of Pharmacy signed a Memorandum of Understanding (MOU) for academic cooperation between Ohio State, the University of Michigan, and the University of Minnesota for work in collaboration with the China Consortium. The college also renewed a Memorandum of Understanding for academic cooperation between Ohio State and Universidad Nacional Autonoma de Nicaragua–León with Dr. Esperanza Carcache de Blanco as the faculty liaison. In addition, an MOU was signed with National Yang-Ming University with Dean Mann and Cynthia Carnes as the faculty liaison.

Infrastructure
- A new International student group is being considered, with two meet and greets held this year to provide an opportunity to connect for foreign students in the COP across undergraduate, PharmD, and graduate programs
- A group of faculty and staff engaged in global endeavors across the college were brought together to discuss current happenings in the global arena and opportunities moving forward; we plan to hold these meetings one to two times annually to continue fostering collaboration among faculty and staff as well as involvement from the college community in global engagement.
- A database of all student and pharmacist international visitors has been created and will be updated regularly to keep track of our international network.
Fulbright Scholar Bridges Research and Collaboration

As a Fulbright scholar, Graziella Tocco came to the College of Pharmacy to increase ties between Ohio State and her home university in Italy while researching and connecting minds across the ocean. She is an assistant professor at the University of Cagliari where she studies and teaches organic chemistry.

Tocco’s research is focused on HIV drug research and discovery. During her stay, she has studied new molecules in the research lab of James Fuchs, PhD. She is studying these molecules and their effectiveness of inhibiting integrase functions. According to Tocco, the possibilities are endless.

“To me elements are like musical notes. Each one by itself is very simple, but you can combine these in so many creative ways and produce so many different outcomes.”

In addition to her research, her second goal was to help create an international link between Ohio State and the University of Cagliari to open up future collaboration and learning experiences. Because of her time here, an international learning experience is planned for Ohio State students to travel to the University of Cagliari and other points of interest in Italy in 2018.

Tocco is very passionate about travel and connecting with other researchers. She says, “I think it is important for students to go abroad and see the world in order to see what they really want from life. Universities are the perfect place to help promote and encourage this learning.”

While Tocco’s time in the college has come to a close, the door for future collaborations is just opening. It is through these connections that scientists around the globe can work together to enhance research and improve the health of people across the world.

“I tell my students they have to try,” said Tocco, “Don’t be scared. If you really believe your research has the right stuff you have to try.”

According to the Fulbright Program, the first agreement between the US government and the Italian government was signed in 1948. Since then, about 8,000 Italian and American fellows have participated in the Fulbright Program.
Medicaid Technical Assistance and Policy Program (MEDTAP)

Project Lead: Don Bennett
College collaborators: Office of Experiential Education
Community partners: Heart of Ohio Family Health Centers (Capital Park and Whitehall Family Health Centers)

The Ohio State University College of Pharmacy continues to produce PharmD graduates and Pharmacy Residents who seek to opportunities to practice in settings that serve a large population of Medicaid and other underserved populations. The College estimates that for the last several years that 25% of its PharmD students and 50% of its Pharmacy Residents are working in settings that provide services to a substantial number of Medicaid, uninsured, and other underserved populations. This trend is projected to continue for at least the next several years.

As such, this grant supports student experiential training and care for underserved citizens in Central Ohio in collaboration with Heart of Ohio. Three practitioners provide care and education at federally-qualified health centers part of the Heart of Ohio system. Heart of Ohio has been a practice site for over eight years for PharmD students. Each year 40 PharmD students in their last year (4th) of education spend one month each with pharmacist preceptors at these sites. In addition, approximately 100 third year PharmD students spend significant time at these locations. Heart of Ohio also has served as rotation sites for the last 3 years for nurses completing their requirements to become Certified Nurse Practitioners (Ohio State and Mount Carmel Health programs).

PharmD students (with pharmacist oversight) help patients select the most cost effective prescription pharmacy services and non-prescription (OTC) medications. They provide education to patients and families about optimal use and prevention of undesirable and dangerous side effects and drug-drug, drug-herbal products, or drug-food interactions. This education is delivered in group sessions as well as one on one sessions. Prior to clinical experience, the students have received instruction on appropriate, cost effective and safe use of medications, health disparities, healthcare policies and health literacy. They also receive a thorough orientation to Heart of Ohio operations. As a result of the high prevalence of diabetes in this patient population, is has been a disease state of focus. There are some patient outcome successes that have been well documented because of patient education and individual intensive management. Heart of Ohio managed a two-year grant from 2006-2008 for a Diabetes Intensive Case Management Program. Using an interprofessional patient-centered team approach, physicians, pharmacists, nurses, dietitians, and case workers worked with 100 patients. A primary marker for controlled diabetes is hemoglobin A1c (HbA1c) levels. For these intensely managed patients, the HbA1c decreased by 2 percentage points from baseline levels. Even two years after the program ended, the HbA1c for the study patients only increased by 1 percentage point.

Because of this demonstrated success, the Heart of Ohio sites are working with Molina (Medicaid Managed Care) to improve care for 150+ patients with diabetes and high blood pressure.

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- Other trending issues
Pharmacy Ambassadors - Refugee Education Program

Project lead: Hyun-Su Helen Kim  
College collaborators: Jennifer L. Rodis, PharmD students, SNPhA  
Community partners: US Together, Inc., Kroger Pharmacy (Morse Road), CRIS: Community Refugee & Immigration Services, Catholic Charities in Cleveland

The Refugee Program continues to flourish at the Kroger on Morse Road in Columbus, Ohio and has expanded to reach more refugees through a collaboration with CRIS and the Catholic Charities in Cleveland. Through a partnership with US Together, Inc., newly resettled refugees are introduced to the American healthcare system and the basics of how medicine and the pharmacy works. Because of this project, a paper was presented at the Engagement Scholarship Consortium, a poster was presented at the American College of Clinical Pharmacy conference, and stories were published by the Columbus Dispatch, Pharmacy Times, Pharmacy Today, and an audio story on Public Radio International (PRI). The program materials are being formatted for public use with plans for release this upcoming academic year. The refugee model of education is being expanded to another resettlement agency in Central Ohio as well as to an agency in Cleveland, Ohio.

P1 Geriatric Experience

Project lead: Ruth Emptage  
College collaborators: Donnie Sullivan, Bonnie Spiers, Pharmacy Resident Priya Sahadeo, all P1 students, select P4 students  
Community partners: Various National Church Residence Independent Living Sites / Gillie 50+ Recreational Center / Griswold Center / Hilliard Senior Center / The Forum at Knightsbridge / Evans Senior Center / Villages at Westerville / Jewish Community Center / Lutheran Social Services Independent Living Sites

The P1 Geriatric Experience continues its program to place groups of 4-5 students at various independent living or senior centers to interact with older adults and provide some basic health education and offer comprehensive medication reviews. The P1 students also spend time building their communication skills.

A highlight from this past year was when a COP student group met with a small bus load of older adults from one of the sites and led a tour of campus. The event ended with an ice cream social and reminiscing about their memories of Ohio State.
Partner for Promotion

Project lead: Jennifer Rodis
College collaborators: Mary Higginbotham, Emily Keeler, Joni Warren, 1 PGY1 community practice resident, 1 community advancement fellow/MS student, 12 PharmD students
Community partners: Kroger Pharmacy Columbus Division, The Ohio State Wexner Medical Center, CVS at Target Pharmacy, Walgreens Pharmacy, Whitehall Family Health Center
Awards: Distinguished Service Learning Award, Ohio State University; Highlighted in President’s Community Service Honor Roll

The Partner for Promotion (PFP) program integrates teaching through education and training of students and preceptors and practice development through mentoring by the OSU College of Pharmacy to assist pharmacies with the development and implementation of patient-centered services to be offered at their pharmacy sites. Patients seen vary according to pharmacies involved in the program.

2015-2016 Highlights
- PFP celebrated its 10th Anniversary and held a celebration with former and current students and supporters in July of 2015
- The third Daniel B. and Rita F. Waitzman Community Pharmacy Scholarship was awarded to Peshan Ngo and Jorge Ng Zheng
- Work continues on a national level with the six partnering colleges of pharmacy who have adopted the program into their curricula
- Programs developed include tobacco cessation, transitions of care with TLC, “Breath Easy” (targeted care for COPD/asthma), medication reconciliation, prescription delivery, and pharmacy referral services
- Over 2000 hours were served by students in the program
Pills, Potions, and Poisons

Project lead: Molly Downing, Nicole Kwiek
College collaborators: Katie Summers, Colleen Dula, two undergraduate and three PharmD teaching assistants

Pills, Potions, and Poisons continues to offer the summer day camp for high school students, with 48 students participating in 2015. During the week-long session, students discover the science behind drugs and learn about careers in the biomedical sciences. Students learn through a variety of approaches including lecture, discussion, debate, games, laboratory visits, field trips and hands-on experiments.

New for 2015, a more structured BSPS program overview was initiated on the final day of the program. During this session parents are invited to participate with students and learn more about an undergraduate degree in the pharmaceutical sciences.

Albert Schweitzer Fellowship

Southeast Inc. Healthcare Services
Student leads: Godsfavour Umoru and Andrea Lee
Collaborators: Michelle Maguire, Debra Barnette, Jennifer Rodis

A Schweitzer Fellowship project from Godsfavour Umoru and Andrea Lee was implemented at this site as part of their fellowship project. Southeast Inc. and the two students paired to address the health of patients with serious and persistent mental illnesses (SPMI). Southeast Inc. Healthcare Services provides behavioral and physical health services to over 10,000 patients each year.

Andrea and Godsfavour spent 200 hours of service (125 hours of direct patient contact) at the clinic site. Under the supervision of Dr Maguire, the students extended medication therapy management services and utilized comprehensive medication reviews to identify drug therapy problems requiring interventions. Complete medication reviews and a medication action plan were given to 45 individuals to improve medication use.

In addition to the Schweitzer project, during the flu season weekly immunization and blood pressure screening opportunities were coordinated between Southeast, Inc. Healthcare Services and students at The Ohio State University College of Pharmacy. During these events the students administered 250 influenza vaccines to reduce Southeast patients’ flu-induced doctor visits and hospitalizations.

A third-year pharmacy student has been recruited to sustain the project and build on the services established during the Schweitzer project.
Medication Therapy Management (MTM) in Federally Qualified Health Centers (FQHCs): Improving Chronic Disease Outcomes
Jennifer L. Rodis, Barbara Pryor, Jennifer Clark, Alexa Sevin, Magdi Awad, Ashley Ballard, Carrie Hornbeck, Brianne Porter, Emily Keeler

Chronic diseases are an epidemic in the United States contributing to 7 of the top 10 causes of death\(^1\) with hypertension and diabetes as two of the most common chronic diseases, affecting 70 million and 29 million Americans, respectively\(^1\). Further, there are links to disparate disease control in medically underserved areas.

Federally Qualified Health Centers, funded by the U.S. Department of Health and Human Services Agency of Health Resources and Service Administration (HRSA), provide care to the underserved population while focusing on chronic disease markers such as a blood pressure and A1C hemoglobin numbers. Pharmacists have been shown to positively impact chronic disease outcomes through Medication Therapy Management (MTM) but are often an underutilized member of the healthcare team.

This demonstration project aims to expand MTM into FQHCs across the state of Ohio in order to improve chronic disease outcomes. Three FQHCs were selected based on established MTM services in the areas of diabetes and hypertension, provision of care via distinct staffing models, and geographic diversity across the state.

Patients were recruited at each FQHC and were included if they were aged 18-75 years and had a diagnosis of hypertension with diagnosis occurring at least one year prior, seen for a medical visit(s) at least once in the last year, had a most recent A1C > 9% or a most recent systolic blood pressure > 140 mmHg or a diastolic blood pressure > 90 mmHg. Patients were excluded if pregnant, diagnosed with end stage renal disease, or had received a pharmacist visit within one year prior to enrollment.

The enrolled patients received MTM from a pharmacist at each FQHC which included face-to-face, on-site visits, electronic communications via email and/or texting, as well as telephone visits and follow-ups according to each site’s standards of usual care.

Patient recruitment began in March 2014 and is currently ongoing. As of December 31, 2015, 700 patients were enrolled. Three FQHCs in Ohio successfully impacted chronic disease outcomes through varied models of pharmacist-provided MTM services within their clinics (Figures 1 and 2).

Phase 2 of this project supports the expansion of MTM and patient care enhancement in FQHCs across the state of Ohio. Two additional cohorts will be added by January 2017 and will include various models of care including community pharmacist engagement with FQHCs. Methods to continue support and expansion of MTM in Ohio beyond June 2016 are being explored, including training programs and online networks.

Seventy-two patients (15.52%) achieved an A1C between 8% and 9%, 16.16% (n=75) of patients achieved an A1C less than 8% and greater than or equal to 7%, and another 16.16% (n=75) of patients achieved an A1C less than 7% (Figure 1).

The number of patients with blood pressure at goal, defined as less than 140/90 mmHg has improved from 0% in control baseline to 65.45% (n=305) in control (Figure 2).
Script Your Future Medication Adherence Challenge

College collaborators: Ruth Emptage, PharmD students
Community partners: Asian Free Clinic, Charitable Pharmacy of Central Ohio, Ohio Pharmacists Association, American Association of Colleges of Pharmacy

The Script Your Future (SYF) Medication Adherence Challenge had a significant impact both at The Ohio State University College of Pharmacy and community settings. In prior years, the SYF challenge was implemented at a community setting successfully for 2-3 months; however, sustainability was a major issue. This year, maintaining sustainability at the sites we worked with became a major priority. Through the use of wallet cards, PowerPoint presentation, and SYF pledge cards, the OSU team had a positive impact on the community.

- The SYF online content materials were used during the presentation to the first-year students in an educational setting. Specifically, the SYF PowerPoint presentation and website were used during the presentation. The presentation was used to convey information about medication adherence. The website was referenced as a resource that both students and patients could use. The students were encouraged to tell patients to sign up for text reminders and take Script Your Future pledge online.
- The wallet cards were used during a meeting with a student representative from the Asian Free Clinic that is associated with OSU College of Pharmacy, which led to their use in that particular clinic. These wallet cards were requested in Chinese, Vietnamese, and English languages.
- The wallet cards were shown and discussed during the meeting with the executive director at Charitable Pharmacy as part of the overall goal to increase awareness and provide education to patients. Both English and Spanish wallet cards were given to the executive director for the clinic’s use.

Ohio State Student Named President-elect of National Student Pharmacist Organization

E. Michael Murphy, a third-year pharmacy student at Ohio State, was named president-elect of the American Association of Pharmacists Academy of Student Pharmacists (APhA-ASP).

"As the APhA-ASP national president-elect and president I will uphold the values of student pharmacists and promote the mission of APhA-ASP," said Murphy. "I will strive to increase the support structure for student pharmacists, improve patient care through interprofessional collaboration, and advance the profession globally."

Murphy’s experience with the organization is well established stretching back to his undergraduate years. He has served as a liaison, chapter president-elect, regional delegate, and participated in the Carl F. Emswiller Summer Internship Program.
Southeast Ohio

Project lead: Sarah Adkins
College collaborators: Office of Experiential Education, PharmD students
Community partners: Ohio University Heritage College of Osteopathic Medicine (OUHCOM), Dr. Wayne Carlsen, Dr. Nicole Wadsworth, OUHCOM Community Health Programs, Ben Holter / Shriver’s Pharmacy, Kurt Conkey and Mike Tenoglia / Appalachian Behavioral Health, University Medical Associates Endocrinology Clinic, The Diabetes Institute, Drs. Mark and Lauren McMills and the Ohio University Chemistry Department, Ohio Health O’Bleness Memorial Hospital, Kroger Pharmacy (Athens)

The Southeast Ohio Program is a partnership between The Ohio State University College of Pharmacy and the Ohio University Heritage College of Osteopathic Medicine. This pairing, which began in 2011, helps bring the expertise of faculty and staff at both colleges to the underserved populations in rural Southeast Ohio.

The partnership continues to expand. The number of students per month has increased to a total of 19 OSU COP APPE students and 15 pre-pharmacy Ohio University students this past year to the largest total number of OSU COP students yearly in Athens (Southeast Ohio) on rotation. The OUHCOM Community Health Programs Free Clinic has expanded to Racine, Ohio (on the Ohio River) to assist with migrant workers. Jose Lopez (OSU COP APPE student in 2014/15) who is fluent in Spanish was able to join in on three of the clinics in Racine. This year, four students from Ohio University’s pre-pharmacy program have been accepted into The Ohio State University College of Pharmacy PharmD program.
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