

# ANNUAL REPORT

## 2019



# LETTER FROM OUR EXECUTIVE DIRECTOR



Greetings! 2019 was a milestone year as it marked the third anniversary of my tenure as the Lamy Center's executive director.

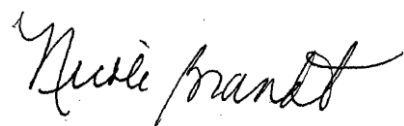
The great work conducted by our team members continues to excite and energize me. The Center's strategic priority areas are to cultivate leadership in geriatrics care; engage in policy and research initiatives; further interprofessional training in geriatrics care, and promote aging in place. As we continue to strengthen our foundation and build our network, we encourage you to reach out and join this important work of improving medication use and safety in older adults. Now more than ever, your support at any level is needed.

To personalize our annual report, we have added quotes from current and former trainees as we continue to promote leadership and development of a workforce ready to provide the needed services to care for an aging society. Team members have received local and national recognition for their clinical as well as scholarly work. I could not be prouder of the numerous presentations at regional, national, and international meetings to share best practices as well as cutting-edge research.

The Lamy Center team continues to work on research with policy implications such as a study with AMCP and IMPAQ on the Medicare Part D Standardized Format, as well as the CMMI Enhanced Medication Therapy Management Program. We have ongoing research on antipsychotics and other psychotherapeutic medication use and safety in the PALTC setting. The Lamy Center is a core leader in the newly formed US Deprescribing Research Network. As well, we joined pharmacists and students from across the country in Washington, DC to advocate for advancing the role of pharmacists, medication costs, and medication access for older adults. On a personal note, I have had the honor of being the first pharmacist to join the HRSA Advisory Committee on Interdisciplinary, Community-Based Linkages and to be part of the 18<sup>th</sup> report on [Preparing the Current and Future Health Care Workforce for Interprofessional Practice in Sustainable, Age-Friendly Health Systems](#).

This opportunity, coupled with our continued work in interprofessional education, positions the Lamy Center as a leader at UMB and beyond. In 2019, Lamy Center team members were awarded as the inaugural class of the [UMB GLOBALtimore Fellows](#). This international opportunity fortified relationships with the University of Helsinki faculty and students regarding older adults and community-based programs to help older adults age in place.

A highlight of 2019 was the launch of Age Friendly University systems, which unified efforts with the University of Maryland, Baltimore County. A quote that we have been living by at the Center: "Alone we can do so little, together we can do so much."

A handwritten signature in black ink that reads "Nicole Brandt".

**Nicole J. Brandt, PharmD, MBA, BCGP, BCPP, FASCP**  
**Executive Director**  
**Professor of Pharmacy Practice and Science**

# DIRECTORS' NOTES



Today, more than ever before, there is an urgent need for pharmacists and allied health professionals with expertise in the care of older adults, especially given the increasing complexity of managing older adults with multimorbidity.

The Lamy Center rises to meet this challenge through its continued legacy in geriatrics training and education.

In 2020, the PGY-2 Geriatric Pharmacy Residency Program will celebrate 20 years of training geriatric pharmacotherapy experts, leaders, and academicians. Our alumni are recruited into advanced clinical practice settings, academia or management roles. They are trail blazers and have established new geriatrics focused clinical pharmacy services, which speaks to their strong clinical and leadership abilities. To mark this exciting milestone and continue to develop great practitioner leaders as they enter the workforce, we plan to incorporate a leadership curriculum into our program.

In the spirit of collaboration, Center faculty helped establish an inaugural workgroup of directors of post-graduate geriatrics and gerontology training programs across the University of Maryland, Baltimore and the Baltimore Veterans Affairs Medical Center. This workgroup aims to develop strategies to increase interprofessional collaboration and clinical opportunities for health and social service profession trainees in geriatrics. In its first initiative, the workgroup piloted a successful IPE case workshop series that will continue through 2020.

I am excited that the Center continues to forge new partnerships and find innovative ways to foster our core mission. I look forward to further developing these relationships and opportunities to continue to educate and champion the cause of Dr. Lamy.

**Chanel Whittaker, PharmD, BCPS, CGP, FASCP**  
Director of Education and Training  
Associate Professor of Pharmacy Practice and Science



This past year, research conducted by Lamy Center members has continued at a steady rate. Collectively, we published more than 30 peer-reviewed manuscripts, received more than \$2 million in

grants and contracts, delivered 60 talks, and presented nearly two dozen posters at numerous international, national, and local conferences. We have represented the Center at grant reviews of our peers. These accomplishments are highlighted on pages 18 through 25.

More important than numbers are the collaborations fostered within and external to the Lamy Center. The Center has become a home for clinicians, educators, policy makers, researchers, and, most significantly, our trainees. Our pharmacy students, residents, fellows, and doctoral students represent the next generation of geriatric scholarship. This year we have involved more than a dozen students and fellows in Lamy-related research activities.

We continue to collaborate with our colleagues across UMB—the Schools of Nursing, Social Work, and Medicine. We collaborate with Johns Hopkins, our University of Maryland sister institutions at College Park and in Baltimore County, and other universities. We continue to work with state and city agencies, private sector research groups, and health systems.

In this age, one person cannot solve all the challenges facing older adults. It continues to be my honor to help lead this collective of passionate and inquisitive people and institutions to better understand, and help solve, the pressing health problems facing one of our most dynamic yet vulnerable populations—our older adults.

**Linda Wastila, BSPHarm, MSPH, PhD**  
Director of Research  
Professor & Parke-Davis Chair in Geriatric Pharmacotherapy

# LAMY CENTER AT A GLANCE

IN THE 2019 CALENDAR YEAR



**27 PEER-REVIEWED  
PAPERS**  
published by our team  
members



**1 BOOK CHAPTER**  
published by our team  
members



**8 AWARDS**  
received by our team  
members



**74 POSTERS AND  
PRESENTATIONS**  
given by our team members at  
local, state, national, and  
international conferences



**WEBSITE TRAFFIC**  
Lamy website accessed  
**32,694 TIMES**

[www.pharmacy.umaryland.edu/centers/lamy/](http://www.pharmacy.umaryland.edu/centers/lamy/)



**\$2,097,400**

in research grants and  
contracts



**28 SEMINARS**  
supported by our team  
members



**814 INDIVIDUALS**  
attended community and  
educational programs



**49 COMMUNITY &  
HEALTH PROMOTION  
EVENTS**  
supported by the Center



## ABOUT THE PETER LAMY CENTER

### Our Mission

**The Lamy Center is dedicated to improving drug therapy for aging adults through innovative research, education, and clinical initiatives.**

### Our Vision

**Improving the lives of older adults by optimizing medication safety and use.**

The Peter Lamy Center on Drug Therapy and Aging serves as the focal point for geriatric research, education, and service within the University of Maryland School of Pharmacy. Founded in 1978, the Center is named in honor of its founder, Peter P. Lamy, PhD, ScD (1925-1994), the renowned educator and mentor in the field of geriatric pharmacotherapy and the first holder of the Parke-Davis Chair in Geriatric Pharmacotherapy at the School of Pharmacy.

Lamy Center faculty conduct research directed toward the production of new scientific knowledge with practical application in improving the outcomes of pharmaceutical care for elderly patients. The Center's educational activities range from in-house training opportunities for predoctoral students and postdoctoral residents to organized community outreach programs. The Center also produces and distributes patient and provider education materials on best practices in pharmaceutical care. The Center's clinical mission is dedicated to strengthening the tie between education and practice through clinical rotations and consultancy arrangements in various practice settings.

The Lamy Center is a collaborative cross-departmental research and education center housed in the Departments of Pharmacy Practice and Science and Pharmaceutical Health Services Research in the School of Pharmacy. The Center boasts of faculty, staff, postdoctoral fellows, graduate students, residents, and pharmacy students with not only clinical backgrounds, but also advanced training in epidemiology, policy, economics, social work, and health services research.

The Center engages this diverse and dynamic team and the community to promote its four key strategic priority areas:

- Cultivating leadership in geriatrics care
- Engaging in policy and research initiatives
- Furthering interprofessional training in geriatrics care
- Promoting aging in place

The Center maintains close strategic partnerships and collaborations, including the John A. Hartford Foundation, Institute for Healthcare Improvement, Remedi SeniorCare, American Society of Consultant Pharmacists, American Geriatrics Society, Maryland Department of Health, Maryland Poison Center, MedStar Good Samaritan Hospital's Center for Successful Aging, the Johns Hopkins University, IMPAQ International, the U.S Deprescribing Research Network, and the Centers for Medicare & Medicaid Services. The Center also leverages its relationships with the Center on Aging at the University of Maryland School of Medicine and with the University's Schools of Nursing, Social Work, and Dentistry to promote interprofessional education.

# LAMY CENTER TEAM

## EXECUTIVE TEAM

Nicole Brandt, PharmD, MBA, BCGP, BCPP, FASCP  
Executive Director  
Professor, Pharmacy Practice and Science

Chanel Whittaker, PharmD, BCGP, FASCP  
Director of Education and Training  
Associate Professor, Pharmacy Practice and Science

Linda Wastila, BSPHarm, MSPH, PhD  
Director of Research  
Professor & Parke-Davis Chair in Geriatric Pharmacotherapy

## LAMY CHAMPIONS

Avra Thomas, PharmD, FASCP  
Division Director Pharmacy Services  
Sava Senior Care Consulting, LLC

David Jones, RPh, FASCP  
Independent Consultant Pharmacist  
dhjRx Consulting

Jean McConnell Dinwiddie, PharmD  
Commissioner  
Montgomery County Commission on Aging

Jessica W. Merrey, PharmD, MBA, BCPS, BCACP, BCGP  
Clinical Pharmacy Specialist  
Johns Hopkins Hospital

Joshana K. Goga, PharmD, BCPP  
Clinical Pharmacy Program Manager  
Sheppard Pratt Health System

Michelle A. Fritsch, PharmD, BCGP, BCACP  
Founder and President  
Meds MASH, LLC

Patricia (Tricia) A. Cash, PharmD, BCPS, CCP  
Pharmacist  
Frederick Integrated Health Network

Stephanie M. Ozalas, PharmD, BCPS, BCGP  
Long-Term Care Clinical Pharmacy Specialist  
VA Maryland Health Care System

## FACULTY & STAFF TEAM MEMBERS

Barbara J. Zarowitz, PharmD, FCCP, FCCM, BCPS, BCGP, FASCP  
Senior Advisor & Affiliate Professor

Bruce Stuart, PhD  
Professor Emeritus of Pharmaceutical Health  
Services Research

Catherine Cooke, PharmD, BCPS, PAHM  
Associate Professor of Pharmacy Practice and Science

Daniel Mansour, PharmD, BCGP, FASCP  
Interprofessional Clinical Coordinator

Danya Qato, PhD, PharmD, MPH  
Assistant Professor of Pharmaceutical Health  
Services Research

Ednner Oketch, MS  
Coordinator

Eleanor Perfetto, PhD, MS  
Professor of Pharmaceutical Health Services Research

Rudolf B. Lamy, MLS, MAS  
Consultant

Monica Tong, PharmD, BCGP  
PGY-2 Geriatric Residency Coordinator

## POST-GRADUATE TEAM MEMBERS

Abisola Olopeina, RN, MPH  
PhD Candidate

Aida Kuzucan, PharmD  
PhD Candidate and T32 Fellow  
Epidemiology of Aging Training Program

Joshua Chou, PharmD, BCGP  
Geriatric Pharmacotherapy Fellow

Sarah Holmes, PhD, MSW  
Postdoctoral Fellow

Sean Fleming, MSW  
PhD Candidate

Shannon Riggins, PharmD  
PGY-2 Resident, Geriatric Pharmacy

Tham T. Le, Pharm, MPH  
PhD Candidate

## SENIOR ADVISOR COLUMN

### Emerging Opportunities and Needs when Caring for Older Adults

By Barbara Zarowitz, PharmD  
Senior Advisor and Affiliate Professor, Lamy Center



Our senior population has grown from 35 million in 2000 to 56 million in 2020. Projections are that by 2050, 22% of the population will be at least 65 years of age and over 17 million of them will be aged 85 and older.

Further, 40% of U.S. adults will belong to a minority and nearly 20% will be in poverty.

This will be a permanent and unprecedented shift in the demographic structure of our society. This demographic shift coupled with the rapid emergence of artificial intelligence (AI)-enabled deep algorithm learning and decision-support software means that as geriatric pharmacist specialists, we will need advanced training to care capably for older adults. While automation and digitalization will help us be optimally prepared for these challenges, our patients will expect us to have the expertise to assist them with these daunting changes in health care. Recent projections are that application of AI in medicine will spur the transition of care from reactive to proactive.

As a result of these changes to the aging adult population and digitization of health care,

clinicians will need to envision and validate new models of care that include real-time telehealth, mobile devices, and integrated deep learning algorithms. With the more widespread accessibility to genomic data, biomarkers can be redefined and expanded to provide more objective measures of therapeutic success. Large data sets will be used to develop clinical decision support and clinicians will need familiarity with these tools. The rapid pace of therapeutic advancement and value of precision medicine will require clinicians to develop genomics expertise. Advocacy for health plans to pay for social determinants of health is needed. Our patients will need to be educated about the value of shared data, the integrity of medical decision-making, and privacy in the era of AI and digitization.

Translational research should embrace the validation of AI-enabled health care solutions in randomized controlled trials. The science for identifying and validating clinically meaningful and actionable biomarkers will be needed to process raw sensor data from wearable mobile devices. Highly specific study populations with more defined inclusion of minorities of diverse ethnicity and age extremes will be needed to inform high quality clinical care.

The next 20 years promises to be exciting for clinicians and older adults we care for particularly those aged 85 and older with the application of technologies and logic heretofore unexperienced in clinical practice. Our patients will need support to overcome technology hesitancy and suspicion as well as user support for expected advancements in clinical care. We must step up to the learning challenges to assure that clinical pharmacists as part of the interprofessional team are equipped adequately for future challenges and opportunities.



## NOTE FROM RUDOLF B. LAMY

As I recap 2019, it has been an eventful year for the Lamy family in general, and for myself in particular. My niece got married, my mother celebrated her 96<sup>th</sup> birthday, and my nephew continued with his chemistry PhD program at Yale. I am no longer a solo caregiver, having placed my wife in the memory care unit at an assisted living facility near our home.

I have just completed my third year with the Lamy Center. While I am glad that I can be of service as a consultant, blog writer, and familial representative, I am ever more grateful for the resources at the Center that I and the Lamy family can consult when we need information and assurance. I am honored to continue to support the Center and am looking forward to lending my assistance wherever and whenever I can for as long as I can be of service.

## LAMY CHAMPIONS

This year, the Lamy Champion Coalition celebrated its annual kick-off meeting by launching the first coalition strategic plan. Focus areas include fostering interprofessional education (IPE) in geriatrics by recruiting other disciplines into the coalition, developing IPE education programs for 2020 in the areas of pain and policy, transitions of care and age-friendly institutions, and increasing collaboration between the Lamy Center and the coalition to promote the Center's mission and vision.

Similarly, the champions held quarterly meetings discussing various themes ranging from community outreach and partnerships, aging in place, strategic partnerships, and workforce development. Specifically, some of the topics were the role of geriatric pharmacists in transitions of care, the interprofessional model at Frederick Health, the role of geriatric pharmacists in promoting age-friendly initiatives in the community, and community engagement with the Montgomery County Commission on Aging. These meetings, in part, help to engage Champions and showcase initiatives at their various practice settings and communities.

The Center also worked with the coalition this year to develop an IPE continuing education series of timely topics geared towards the geriatric care team. These educational series will be offered in 2020 and will be led by our Champions, who are ambassadors for the Center's mission and vision.

### FEATURED CHAMPION



**Jean McConnell  
Dinwiddie, PharmD**  
*Commissioner, Montgomery  
County Commission on Aging*



## FEATURED LAMY CHAMPION

Jean McConnell Dinwiddie, PharmD  
Commissioner, Montgomery County Commission on Aging

Jean Dinwiddie, a Lamy Champion at the Peter Lamy Center on Drug Therapy and Aging, has decades of experience in a variety of pharmacy settings, from direct patient care to administration. She started her pharmacy career as a technician, where she was encouraged to pursue a Doctor of Pharmacy degree. While at the University of Maryland School of Pharmacy, Dinwiddie was mentored by Peter Lamy, PhD, ScD, and Maddy Feinberg, RPh, who piqued her interest in geriatrics. She went on to work for George Washington University Physicians Group, PharmaCare, and Caremark. While at the George Washington University Physicians Group, which Dinwiddie recalls as one of the most satisfying jobs she's had, she was one of the first pharmacists on its interprofessional staff. There she provided physicians with education on cost efficient prescribing. At PharmaCare, Dinwiddie transitioned into managed care, where she began to practice on the population level. As its chair of the national P&T committee, Dinwiddie traveled across the United States to present at a number of conferences. Throughout her experiences, Dinwiddie has played the instrumental role of an advocate and promoted the profession of pharmacy.

In her current role as chair of the Montgomery County Commission on Aging, Dinwiddie has focused on two initiatives. First, she has advocated for pharmacists to educate patients on personal sound amplification products (PSAPs). These devices, which are not FDA approved, have been showing up on pharmacy counters and can be bought without a prescription or any professional consultation. Second, she has been advocating to change regulations on assisted living facilities (ALF) to make pharmacist-led review of medications more frequent. Currently, ALFs must have a pharmacist review a resident's medications every six months if that resident is on nine or more medications. For comparison purposes, pharmacists conduct monthly reviews in nursing homes. The decreased frequency of reviews in ALFs is risky for patients. "The population is aging and there are more needs to come," Dinwiddie says. Changing this regulation would not only recognize the importance of the pharmacist's expertise in medication management, but also impact care when the work of pharmacists would stand to benefit more and more people.

Dinwiddie's leadership of the Montgomery County Commission on Aging has already made an impact in the care of older adults. Prior to her leadership of the Commission on Aging, pharmacists were not involved in senior centers or in the decisions that the Commission on Aging makes. Her leadership has put pharmacists into the discussion of how Montgomery County serves the needs of seniors. She is also sensitive to the needs of seniors and how understanding what a pharmacist does can play a vital role in their care. She notes, "The challenge is going to be that with all the services we offer, people don't ask. While we know there are lots of people who could benefit from medication reviews and medication check-ups, they don't ask until they are in crisis." Part of what Dinwiddie works toward is to help ordinary people understand, value, and seek out a pharmacist's services, which she accomplishes as the chair of the Commission on Aging, as a senior herself, and as a Lamy Center Champion.

## THE YEAR IN REVIEW

YEAR 2019



### AGE-FRIENDLY UNIVERSITY GLOBAL NETWORK

On Nov. 21, 2019, the University of Maryland, Baltimore (UMB) and University of Maryland, Baltimore County (UMBC) celebrated becoming the first universities in the State of Maryland to receive Age-Friendly University (AFU) distinction. They join more than 50 higher education institutions worldwide that make up the [Age-Friendly University \(AFU\) Global Network](#), which is led by Dublin City University in Ireland and inspired by the World Health Organization's age-friendly cities movement.

This milestone event was attended by then **University System of Maryland Chancellor Robert Caret** and then **UMB President Jay Perman** and **UMBC President Freeman Hrabowski**, who gave key remarks demonstrating the campuses' strong commitment to the 10 AFU principles. Their remarks were followed by a presentation from **Dr. Amy Berman**, a senior program officer at The John A. Hartford Foundation, and a networking activity by the more than 85 faculty, staff, and students from both universities and community partners who attended the kick-off event.

Together, UMB and UMBC are committed to fostering an inclusive approach to health and active aging through this AFU initiative.



### THE ANNUAL LAMY LECTURE SERIES

Energy, exchange, and electrifying are words used to describe the 50<sup>th</sup> Annual Meeting of the American Society of Consultant Pharmacists (ASCP), which was held in Grapevine, Texas from Nov. 7-10, 2019. The Peter Lamy Center on Drug Therapy and Aging team was well represented with five posters (one receiving a top poster award) and four podium presentations.

The 2019 Peter P. Lamy Memorial Lecture, titled "Aging in Place: What Pharmacists can do to Reduce Community Based Medication Harms in Older Adults," occurred on Nov. 7. This was a fireside chat featuring **Karen Pellegrin, PhD, MBA**, director of continuing education and strategic planning at the Center for Rural Health Science at the Daniel K. Inouye College of Pharmacy at the University of Hawai'i at Hilo (UH Hilo). She has led teams that have won more than \$30 million in competitive federal grants for UH Hilo since joining the College of Pharmacy in 2008 and has served as principal investigator and project director for the Pharm2Pharm program funded by the Center for Medicare and Medicaid Innovation. The highly successful program has advanced knowledge and practice of pharmacist-led care models while providing educational and professional opportunities for many students.

# IPE Care in Geriatrics Aging in Place

By Daniel Mansour, PharmD



The IPE Care in Geriatrics Aging in Place (CIPP 621) is a three-credit interprofessional (IPE) graduate course designed to empower and engage neighbors in West Baltimore in all aspects of their health and wellbeing. Every week the IPE team brings hope, laughter, cheer, exercise, home visits, educational presentations, and one-on-one consultations to the residents of two high rise buildings, thanks to the support of an incredible IPE faculty and staff from the Lamy Center and collaborative programs in the Schools of Nursing, Social Work, Medicine, Dentistry, and Pharmacy.

Over the years, the course has touched the lives of the neighbors with more than 370 one-on-one encounters aimed at enhancing the safety of older adults taking high risk medications, helping with the rising cost of medications and dental care, enhancing the social determinants of health, connecting with primary care and the emergency department, and lending a helping hand in medication management. Students enrolled in this course conduct exercise sessions and blood pressure assessments to help prevent falls and strokes, and give more than 90 health related presentations.

The trainees' feedback has been consistently positive. One student stated, "It has been an incredibly fulfilling experience to work with these older adults. Having the ability to have a longitudinal relationship with patients in the community is unique." Another stated, "Many patients struggled with chronic pain or physical disabilities. I did not expect this clinical experience to provide so much interaction with the residents. This clinical placement is a big learning experience for me. I am encountering problems and situations that I've never had before from a health professional viewpoint."

Students' perceptions before and after taking the course show upward trends in enhanced interprofessional communication, team member appreciation, and the value of teamwork. Other competencies of outcome-driven IPE learning such as understanding their role and the roles and responsibilities of others in team dynamics and appreciating the value and ethics of providing care to older adults have been enhanced.



## TRAINEES' HIGHLIGHTS

### 2019 ASCP Annual Meeting & Exhibition, Grapevine, Texas (Nov. 7-10, 2019)

*"While the ASCP annual meeting was my first, it was beyond insightful. As the geriatric population continues to grow so will the need for geriatric pharmacists. It was inspiring to attend an annual meeting where like-minded professionals were given a platform to share the successes of the innovative work they were doing. Without discussion, innovation, and collaboration, pharmacy practice would remain stagnant. I feel that it is the momentum generated from these types of meetings that allows us to create and evaluate the best pharmacy forward patient-centered care practices."*

- **Shannon Riggins, PharmD, PGY-2 Geriatric Pharmacy Resident**



The Lamy Center has given me the opportunity to be involved in the local community. At school, you are in a bubble, but the Lamy Center gives you firsthand experience in the Baltimore community.

- **Taylor Kaminsky, 4<sup>th</sup> Year PharmD Student**

Over the years, the Lamy Center has provided opportunities for participation in several research projects, which led to presentations at national conferences and enhanced my knowledge regarding the importance of helping older adults age in place. - **Sierra Simpkins, PharmD, Geriatric Pathway Graduate**

## Lamy Center Trainee Insights

The Center is home to a dynamic team of leadership, clinical pharmacists, researchers, and community outreach stakeholders. I have had excellent opportunities throughout my training to learn from, to participate, and to receive support in geriatric research and initiatives.

- **Tham Le, Pharm, MPH, PhD Candidate**

The Lamy Center has challenged me to think about what matters to patients, and to apply that mindset in my education, research, and practice. I believe that the mindset and skillset that I have gained from my training at the Lamy Center will truly help me become a pharmacist and researcher committed to helping older adults age successfully in place.

- **Joshua Chou, PharmD, Geriatric Pharmacotherapy Fellow**

As a postdoctoral fellow at the Lamy Center, I have received tremendous support from the faculty to grow and develop my scholarly interests. At the same time, I am exposed to various topics and methodologies, which have enhanced my skills and challenged me to expand my scope of knowledge. The highlight of my experience has been working with an interprofessional team of clinicians, researchers, and trainees who bring together a multitude of ideas and perspectives in a collective effort to improve the health and quality of life for older adults.

- **Sarah Holmes, PhD, MSW, Postdoctoral Fellow**



## LAMY CENTER TEAM ACCOLADES

### DR. BRANDT RECEIVES DENNIS W. JAHNIGEN MEMORIAL AWARD

Dr. Brandt was named the 2019 recipient of the American Geriatrics Society's (AGS) Dennis W. Jahnigen Memorial Award, which recognizes individuals who have provided leadership to train students in geriatrics and significantly helped to advance geriatrics education across health professions. She is the first pharmacist to be honored with the award.

A past recipient of the award and one of Brandt's long-time mentors, Barbara Resnick, PhD, RN, CRNP, FAAN, FAANP, professor in the Department of Organizational Systems and Adult Health and co-director of the Adult-Gerontology Primary Care Nurse Practitioner Specialty and Center for Excellence in Biology and Behavior Across the Life Span at the University of Maryland School of Nursing, said, "I am so excited to see AGS recognizing Dr. Brandt for all of the work that she has done to advance geriatrics education not only at the School of Pharmacy, but across the entire University of Maryland, Baltimore campus. It is always exciting to see non-physician health care professionals be recognized for their important work, and to see Dr. Brandt receive this recognition is particularly meaningful to me."



*"I was incredibly excited to learn that Dr. Brandt had been selected to receive the 2019 Dennis W. Jahnigen Memorial Award. Dr. Brandt has dedicated her career to educating pharmacists and other health care professionals about the field of geriatric pharmacy. She is a champion of promoting safe medication use among older adults, and this award validates so much that she has accomplished over the years."* says **Jill A. Morgan, PharmD, BCPS, BCPPS, professor and chair of the School of Pharmacy's Department of Pharmacy Practice and Science.**

*"As someone who knew Dr. Jahnigen, I believe he would be extraordinarily proud to learn that Dr. Brandt was selected to receive his memorial award. Dr. Jahnigen believed that geriatrics should be inclusive of everyone in the health professions, and Dr. Brandt's work is completely consistent with his vision. She is making enormous contributions not just at the School of Pharmacy, not just in partnership with us at Johns Hopkins Medicine, but across the entire country."* says **John R. Burton, MD, professor of medicine and director of the Johns Hopkins Geriatric Education Center,** the first recipient of the Dennis W. Jahnigen Memorial Award in 1999, and another beloved mentor to Dr. Brandt.

## LAMY CENTER TEAM ACCOLADES

**Avra Thomas, PharmD, BCGP, FASCP**, was elected co-chair of the new Women in Leadership Committee of the American Society of Consultant Pharmacists. In 2019, she enrolled in the School of Pharmacy's MS in Palliative Care program.

**Brandt N, Chou J, Cooke CE, Sharma K.** "A National Survey of Medicare Beneficiary Perspectives on the Medicare Part D Medication Therapy Management (MTM) Standardized Format" selected as one of the top three abstracts based on originality of research at the 2019 Pharmacy Quality Alliance (PQA) Annual Meeting, May 2019.

**Brandt NJ, Cooke CE, Sharma K, Chou J, Carden MJ, Kumbera P, Pellegrin K.** "Listening to the Medicare Beneficiaries: Findings from a National Survey on the Medication Therapy Management (MTM) Standardized Format" received the Gold Medal Award for research abstract presented at the Academy of Managed Care Pharmacy (AMCP) Annual Meeting in San Diego, CA in March 2019. <https://www.jmcp.org/doi/pdf/10.18553/jmcp.2019.25.3-a.s1>

**Congratulations** to Drs. **Avra Thomas, Joshua Chou, and Monica Tong** on passing their boards in 2019 and obtaining their BCGP credentials.

**Chou J, Fornaro R, Zarowitz B, Brandt N.** received Top Poster Award at the 2019 American Society Consultant Pharmacists Annual Meeting in Grapevine TX on Nov. 8, 2019.

**Daniel Mansour, PharmD**, received the Creighton University School of Pharmacy 2019 Spirit of Ignatius in Health Care Award presented by Miriam Opara, PharmD, and Maryann Skrabal, PharmD, CDE, on May 1, 2019 in gratitude for mentoring students in the spirit of St. Ignatius of Loyola.

**Daniel Mansour, PharmD, and Ednner Oketch, MS**, received the 2019 University of Maryland School of Pharmacy's Spirit Award presented by Dean Natalie D. Eddington, PhD, FAAPS, FCP on May 29, 2019, in recognition for exemplifying the spirit of the School by promoting a healthy School community that values excellence through professional collegiality, mentoring, and citizenship.

**Jean Dinwiddie, PharmD**, was elected chair of the Montgomery County Commission on Aging.

**Jessica Merrey, PharmD**, is part of a Johns Hopkins Medicine research leadership team that received a \$50,000 grant from the NCPDP Foundation to validate and evaluate a real time prescription benefits (RTPB) tool. With the mandate from CMS for Medicare Part D plans to implement the RTPB tool by January 2021, the team hopes that their assessment will be timely.

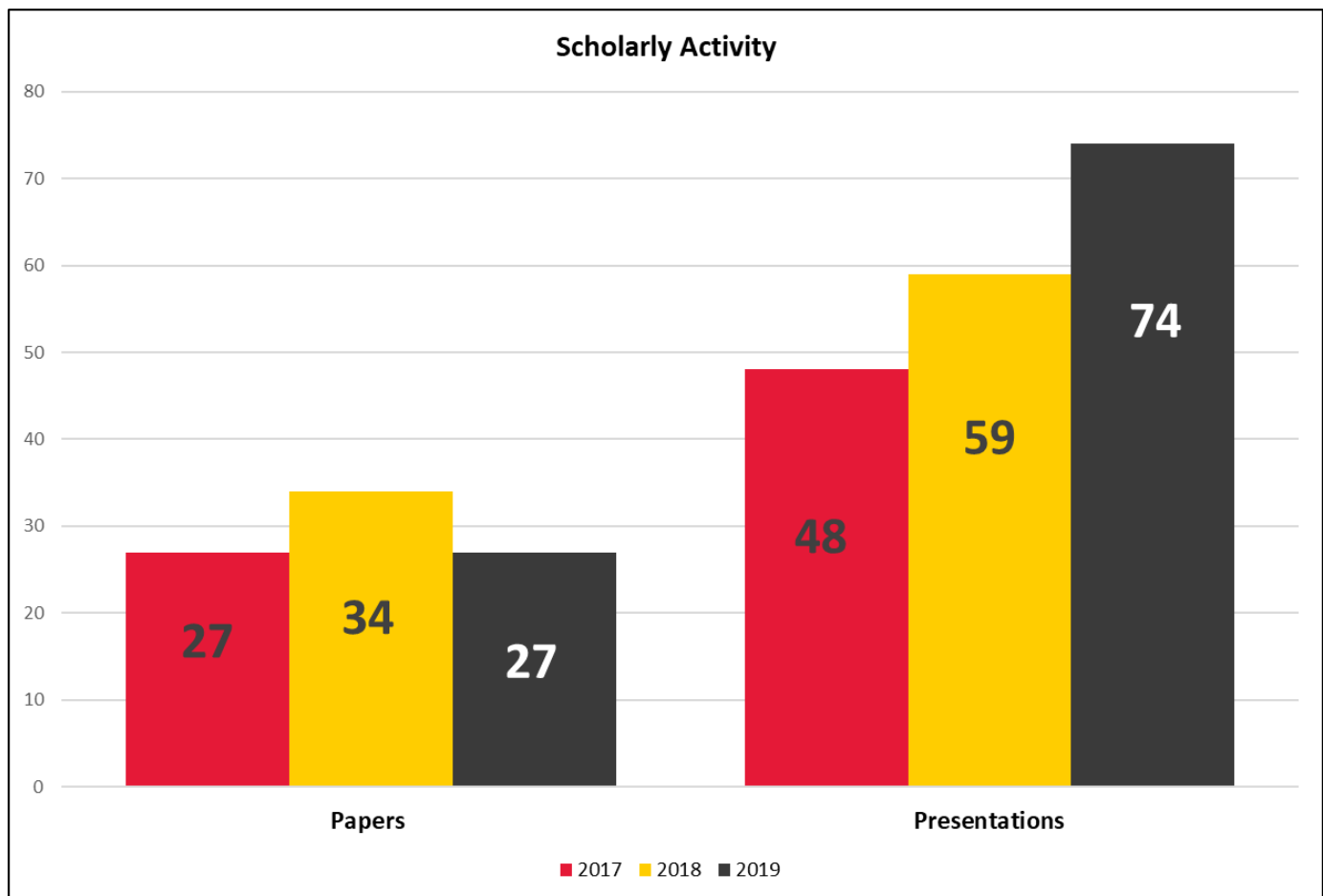


# SCHOLARLY ACTIVITY IN 2019

As in previous years, our faculty, fellows, residents, and postdoctoral graduate students remain continually engaged in a variety of scientific scholarly research and professional development activities, including conducting dissertation research, publishing peer-reviewed papers and book chapters, giving seminars and lectures, and presenting research poster and podium presentations at national and international scientific meetings and other venues.

The number of peer-reviewed publications represents a 20 percent decrease from the previous year, due to the focus of implementing new grants. However, the number of presentations increased from 69 to 74, representing a 25 percent increase from the previous year. The full list of publications and speaking engagements by Peter Lamy Center on Drug Therapy and Aging team members is listed on pages 18 – 25 and spans the period from Jan. 1, 2019 – Dec. 31, 2019. The team members are noted in **bold**.

**Figure 1. Scholarly Activity in 2019**

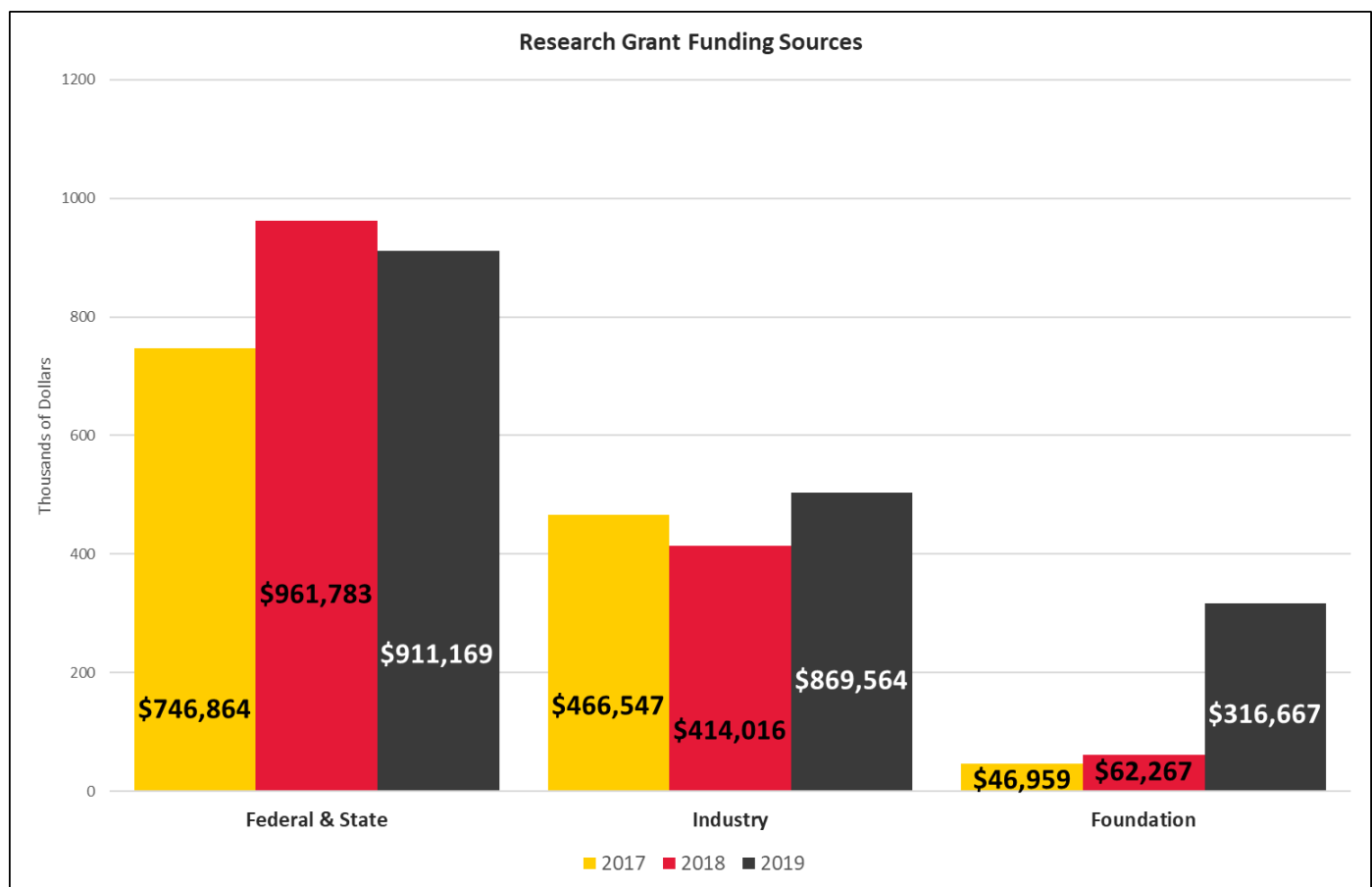


# GRANT FUNDING FOR THE YEAR 2019

Increasing and expanding research, clinical service, and education activities are top priorities at the Lamy Center. In 2019, our faculty and staff received more than \$2 million in grants and contracts funding from the National Institute on Aging, the Maryland Department of Health, the PhRMA Foundation, Novartis, and other sponsors. The majority of our grants come from federal and state agencies.

In 2019, total grant funding from federal and state agencies decreased by 5% from \$961,783 in 2018 to \$911,169. Funding from industry and foundations increased over the same time period. **Figure 2** and **Table 1** lists funding sources over the course of the last year, and represents the range and caliber of agencies and organizations with whom we collaborated in 2019.

**Figure 2. Research Grant Funding Sources**





# COMMUNITY PROGRAMS

## Selected Programs

### AGING 2.0: TACKLING MEDICATION OVERLOAD

The Aging 2.0 Baltimore Chapter partnered with Lamy Center team members **Nicole Brandt PharmD, MBA**, and **Michelle Fritsch, PharmD**, and IMPAQ's Ilene Harris, PharmD, PhD, to host an evening discussion and networking event focused on tackling medication overload. Some overall takeaways:



- Polypharmacy and overmedication are not synonymous. There is no "magic number" of prescriptions that is "too much." Any number can be dangerous.
- Overmedication is not just limited to prescribed medications. Vitamins, supplements...etc. can also have an impact.
- Overmedication can result in delirium, falls, and higher rates of mortality.
- Medication management is a significant stressor for caregivers.
- Provider and patient communication are extremely important when trying to reduce the potential of adverse effects of medication.
- Innovation is happening! CMMI's Enhanced Medication Therapy Management Model (MTM) is testing whether regulatory flexibility and payment incentives to Medicare prescription drug plans can optimize medication use, improve care coordination, strengthen health care system linkages, and reduce cost.

The event's [video recording](#), along with [speaker presentation slides and pictures](#), are available on the Aging 2.0 archive. Lamy Center team members will continue to support Aging 2.0 activities that create innovative and entrepreneurial mechanisms to support the needs of older adults and their caregivers.

### CHOOSING AND USING OTC MEDICINES WISELY WORKSHOP

Over-the-counter (OTC) medications are easily accessible, and older adults are at increased risk of adverse drug events if used inappropriately. **Monica Tong, PharmD**, the 2018-2019 PGY2 geriatrics resident and current residency coordinator, and **Chanel Whittaker, PharmD, director of education and training**, led an interprofessional research team to develop and implement an interactive one-hour educational workshop for older adults and their caregivers on choosing and using OTC medications wisely. This evidence-based workshop was informed by interviews with key stakeholders including older adults, caregivers, and health care providers who practice in geriatrics. The workshop used real life scenarios and provided resources for older adults and caregivers to use when choosing and taking OTC medications. The 2019 workshops were held at St. Mary's Outreach Center, Hollins House, and Stadium Place. More will be held in 2020 in collaboration with the Baltimore City Department of Aging to continue to raise awareness about using OTC medications appropriately.



## Peer-Reviewed Publications in 2019

- 2019 American Geriatrics Society Beers Criteria® Update Expert Panel, Fick, D. M., Semla, T. P., Steinman, M., Beizer, J., **Brandt, N.**, & Flanagan, N. (2019). American Geriatrics Society 2019 Updated AGS Beers Criteria® for Potentially Inappropriate Medication Use in Older Adults. *Journal of the American Geriatrics Society*, 67(4), 674-694.
- Albrecht, J. S., Hanna, M., Randall, R. L., Kim, D., & **Perfetto, E. M.** (2019). An Algorithm to Characterize a Dementia Population by Disease Subtype. *Alzheimer Disease & Associated Disorders*, 33(2), 118-123.
- Brandt, N. J.**, **Cooke, C. E.**, Sharma, K., **Chou, J.**, Carden, M. J., Kumbera, P., & Pellegrin, K. (2019). Findings from a National Survey of Medicare Beneficiary Perspectives on the Medicare Part D Medication Therapy Management Standardized Format. *Journal of Managed Care & Specialty Pharmacy*, 25(3), 366-391.
- Chou, J.**, **Tong, M.**, & **Brandt, N. J.** (2019). Combating Polypharmacy Through Deprescribing Potentially Inappropriate Medications. *Journal of Gerontological Nursing*, 45(1), 9-15.
- Cook, H., Parson, J., & **Brandt, N.** (2019). Identifying Potential Medication Discrepancies During Medication Reconciliation in the Post-Acute Long-Term Care Setting. *Journal of Gerontological Nursing*, 45(7), 5-10.
- Fritsch, M. A.**, & Shelton, P. S. (2019). Geriatric Polypharmacy: Pharmacist as Key Facilitator in Assessing for Falls Risk: 2019 Update. *Clinics in Geriatric Medicine*, 35(2), 185-204.
- Gibson, A., **Holmes, S.D.**, Fields, N., & Richardson, V.E. (2019). Providing Care for Persons with Dementia in Rural Communities: Informal Caregivers' Perceptions of Supports and Services. *Journal of Gerontological Social Work*, 62(6), 630-648.
- Gray, C., **Cooke, C. E.**, & **Brandt, N.** (2019). Evolution of the Medicare Part D Medication Therapy Management Program from Inception in 2006 to the Present. *American Health & Drug Benefits*, 12(5), 243-251.
- Ikeji, C., Williams, A., Hennawi, G., & **Brandt, N. J.** (2019). Patient and Provider Perspectives on Deprescribing Proton Pump Inhibitors. *Journal of Gerontological Nursing*, 45(10), 9-17.
- Lasota, S. T., **Merrey, W.**, Ross, P. A., Martin, A., & Feeser, S. A. (2019). Provider Responsiveness to Pharmacist Recommendations in a Population Health Setting. *The Senior Care Pharmacist*, 34(5), 308-316.
- Le, T. T.**, Park, S., Choi M., Wijesinha, M., Khokhar, B., **Simoni-Wastila, L.** (2019). Respiratory Events Associated with Concomitant Opioid and Sedative Use among Medicare Beneficiaries with Chronic Obstructive Pulmonary Disease. *Value in Health*, 21(1), 231.
- Mansour, D. Z.**, Sharma, K., & **Brandt, N. J.** (2020). Understanding the Medication List and Addressing Polypharmacy in Older Adults. In *Geriatric Practice* (pp. 201-209). New York, NY: Springer, Cham.
- Mattingly, T. J., Slejko, J. F., Onukwugha, E., **Perfetto, E. M.**, Kottlil, S., & Mullins, C. D. (2019). Value in Hepatitis C Virus Treatment: A Patient-Centered Cost-Effectiveness Analysis. *PharmacoEconomics*, 1-10.
- Mattingly, T. J., Slejko, J. F., **Perfetto, E. M.**, Kottlil, S., & Mullins, C. D. (2019). What Matters Most for Treatment Decisions in Hepatitis C: Effectiveness, Costs, and Altruism. *The Patient-Patient-Centered Outcomes Research*, 12(6), 631-638.
- Moyo, P., **Simoni-Wastila, L.**, Griffin, B. A., Harrington, D., Alexander, G. C., Palumbo, F., & Onukwugha, E. (2019). Prescription Drug Monitoring Programs: Assessing the Association between "Best Practices" and Opioid Use in Medicare. *Health Services Research*, 54(5), 1045-1054.
- Oehrlein, E. M., Graff, J. S., Harris, J., & **Perfetto, E. M.** (2019). Patient-Community Perspectives on Real-World Evidence: Enhancing Engagement, Understanding, and Trust. *The Patient-Patient-Centered Outcomes Research*, 12(4), 375-381.

## Peer-Reviewed Publications in 2019

Oehrlein, E. M., Love, T. R., Anyanwu, C., Hanna, M. L., Kraska, J., & **Perfetto, E. M.** (2019). Multi-Method Patient-Engagement Approach: A Case Example from a PCORI-Funded Training Project. *The Patient-Patient-Centered Outcomes Research*, 12(2), 277-280.

**Olopoenia, A.**, Slejko, J., **Simoni-Wastila, L.**, & Camelo-Castillo, W. (2019). Patterns of Prescription Opioid Use among Commercially Insured United States Youth and Young Adults with Co-morbid Chronic Pain and Mental Health Conditions. *Pharmacoepidemiology and Drug*, 28(8), 445-446.

Park, S., **Le, T. T.**, Slejko, J. F., Villalonga-Olives, E., & Onukwugha, E. (2019). Changes in Opioid Utilization Following Tumor Necrosis Factor Inhibitor Initiation in Patients with Rheumatoid Arthritis. *Rheumatology and Therapy*, 6(4), 611-616.

Resnick, B., Boltz, M., Galik, E., **Holmes, S.D.**, Vigne, E., Fix, S., Zhu, S., Renn, C., Dorsey, S. (2019). Pain Assessment, Management, and Impact Among Older Adults in Assisted Living. *Pain Management Nursing*, 20(3), 192-197.

Resnick, B., Galik, E., Boltz, M., Vigne, E., **Holmes, S.D.**, Fix, S., Zhu, S., Lewis, R. (2019). Psychometric Testing of the Assessment of Environment and Policy for Optimizing Function and Physical Activity in Assisted Living. *Journal of Housing for the Elderly*, 33(2), 153-172.

Schepis, T. S., **Simoni-Wastila, L.**, & McCabe, S. E. (2019). Prescription Opioid and Benzodiazepine Misuse is Associated with Suicidal Ideation in Older Adults. *International Journal of Geriatric Psychiatry*, 34(1), 122-129.

Sharma, K., **Cooke, C. E.**, Howard, A. K., Chater, R., & **Brandt, N. J.** (2019). Beneficiary, Caregiver, and Case Manager Perspectives on the Medication Therapy Management Program Standardized Format. *Journal of Gerontological Nursing*, 45(4), 7-13.

Tong, Z., **Cooke, C. E.**, & **Brandt, N. J.** (2019). Online Provision of Part D Medication Therapy Management Program Information. *Journal of Managed Care & Specialty Pharmacy*, 25(8), 898-903.

**Whittaker, C. F.**, Nelson, S. A., & Tom, S. E. (2019). Impact of the Pharmacists' Patient Care Process on Medication Adherence in Older Adults with Multimorbidity. *The Senior Care Pharmacist*, 34(7), 456-463.

**Zarowitz, B. J.**, Nace, D. A., **Brandt, N.**, & Schwartz, J. B. (2019). Pharmacotherapy Research Priorities in Older Adults with Cardiovascular Disease in Nursing Homes, Assisted Living, and Home Care: Report from a Satellite Symposium of the ACC, AGS, NIA Workshop. *Journal of the American Medical Directors Association*, 20(6), 787-789.

**Zarowitz BJ**, O'Shea T, Shim A, Fredericks D, Norton J. Retrospective Analysis of Demographic, Clinical and Functional Characteristics of Nursing Home Residents in the United States with Parkinson's Disease Compared to those with Parkinson's Disease Psychosis. *Annals of Long-term Care*, 27(10), 14-21.

**Zarowitz, B. J.**, & Tisdale, J. E. (2019). Navigating the Minefield of QTc Interval-Prolonging Therapy in Nursing Facility Residents. *Journal of the American Geriatrics Society*, 67(7), 1508-1515.

## *Poster Presentations in 2019*

Anti S, Ogagwu P, Simon-Ebughu C, Adjin-Tettey N, **Mansour D.** (May 2019). Christmas Pajama Drive to The Critically Ill Children 2018. Poster presented at CPFI Annual Convention, Myrtle Beach, SC.

**Brandt NB, Cooke C, Sharma K, Chou J, Carden MJ, Kumbera P, Pellegrin K.** (March 2019). A National Survey of Medicare Beneficiary Perspectives on the Medicare Part D Medication Therapy Management (MTM) Standardized Format. Poster presentation at the 2019 Aging Research Symposium, University of Maryland School of Medicine, Baltimore, MD.

**Brandt NB, Cooke C, Sharma K, Chou J, Carden MJ, Kumbera P, Pellegrin K.** (March 2019). Listening to the Medicare Beneficiaries: Findings from a National Survey on the Medication Therapy Management (MTM) Standardized Format. Poster presentation at the Academy of Managed Care Pharmacy Managed Care and Specialty Pharmacy Annual Meeting 2019, San Diego, CA.

**Brandt NB, Cooke C, Sharma K, Chou J, Carden MJ, Kumbera P, Pellegrin K.** (May 2019). A National Survey of Medicare Beneficiary Perspectives on the Medicare Part D Medication Therapy Management (MTM) Standardized Format. Poster presentation at the 2019 Pharmacy Quality Alliance Annual Meeting, Baltimore, MD.

**Chou J, Lee M, Kaminsky T, Namvar T, Cooke C, Brandt N.** (October 2019). Understanding Patient Preferences Regarding Multi-Medication Packaging. Poster presentation at the 2019 American College of Clinical Pharmacy Annual Meeting. New York Hilton Midtown, New York, NY.

**Chou J, Fornaro R, Zarowitz B, Brandt N.** (November 2019). An Interprofessional Collaborative to Identify and Bridge the Gaps in Antimicrobial Stewardship in Post-Acute and Long-Term Care. Poster presentation at the 2019 American Society Consultant Pharmacists Annual Meeting, Gaylord Texan Resort and Convention Center, Grapevine, TX.

**Chou J, Lee M, Kaminsky T, Namvar T, Cooke C, Brandt N.** (November 2019). Understanding Patient Preferences Regarding Multi-Medication Packaging. Poster presentation at the 2019 American Society Consultant Pharmacists Annual Meeting, Gaylord Texan Resort and Convention Center, Grapevine, TX.

**Cooke C, Sharma K, Chou J, Pellegrin K, Brandt NB.** (May 2019). National Survey Findings of Medicare Beneficiary Perspectives of the Medicare Part D Medication Therapy Management Standardized Format. Poster presentation at the 2019 Annual Scientific Meeting of the American Geriatrics Society, Oregon Convention Center, Portland, OR.

**Fleming S, Le T, Simoni-Wastila L.** (August 2019). Predictors of in-hospital Psychiatric Care among Alcohol- and Drug- related Hospitalizations in Maryland, 2016. Poster presentation at 35<sup>th</sup> ISPE International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Philadelphia, PA.

**Le TT, Fleming S, Pham N, Qato DM, Wastila L.** (May 2019). Burden of Chronic Obstructive Pulmonary Disease (COPD) Among Older Adult Medicare Beneficiaries in the United States. Poster presentation at American Geriatric Society Annual Meeting 2019, Portland, OR.

**Le TT, Fleming S, Simoni-Wastila L.** (August 2019). Patterns of Opioid Use Among Patients with Cancer-related Pain Diagnoses. Poster presented at ICPE Annual Meeting 2019, Philadelphia, PA.

**Olopoenia A, Onukwugha E, Simoni-Wastila L, Camelo-Castillo W, Villalonga-Olives E, Gandhi A, Slejko J.** (June 2019). Patterns of Prescription Opioid Utilization among Adolescents and Adults with Co-morbid Chronic Pain and Mental Health Diagnosis. Poster Presentation at Academy Health Meeting, Behavioral Health Services Research, Washington, DC.



## *Poster Presentations in 2019*

**Olopoenia A, Camelo-Castillo W, Simoni-Wastila L.** (August 2019). Concurrent Use of Gabapentin, Benzodiazepines and Opioids: Prevalence and Risk Factors Among Commercially Insured United States Adults. ICPE Poster Presentation, Drug Utilization session, Philadelphia, PA

**Olopoenia A, Camelo-Castillo W, Simoni-Wastila L.** (August 2019). Patterns of Prescription Opioid Use Among Commercially Insured United States Youth and Young Adults with Co-morbid Chronic Pain and Mental Health Conditions. ICPE Spotlight poster presentation, Pediatrics session, Philadelphia, PA.

Gressler L, McRae J, Bajracharya R, **Olopoenia A, Castillo WC, Qato DM.** (November 2019). Does the Methodology to Measure Multimorbidity Matter? Assessing Measurement Techniques of Multimorbidity in Nationally-Representative Medical Expenditure Panel Survey Data. Poster presentation in APHA's 2019 Annual Meeting and Expo, Philadelphia, PA.

**Mansour D, Miller J, Ahn S, Tendoh E, Lee A, Semma B, Brandt N.** (November 2019). Scaling Up and Sustaining a Geriatric Interprofessional Educational Program: Recap of the Last 5 Years. Poster presentation at the 2019 American Society Consultant Pharmacists Annual Meeting, Gaylord Texan Resort and Convention Center, Grapevine, TX.

**Tong M, Whittaker C, Kaminsky T, Ennis B, Tendoh E, Brandt N.** (November 2019). Choosing and Using OTC Medicines Wisely: An Evidence-Based Educational Program Geared Towards Community-Dwelling Older Adults. Poster presentation at the 2019 American Society Consultant Pharmacists Annual Meeting, Gaylord Texan Resort and Convention Center, Grapevine, TX.

Tyson P, Morton C, Edwards L, Miller J, Rao V, **Mansour D,** (November 2019) The Effects of University of Maryland Baltimore: Health Alliance (UMBHA). Poster at 42nd Annual Medical Student Research Day, University of Maryland School of Medicine, Baltimore, MD.

**Whittaker C, Nelson S, Tom S.** (November 2019). Improved Therapeutic and Safety Outcomes Using the Pharmacists' Patient Care Process in an Interprofessional Geriatrics Clinic. Poster presentation at the 2019 American Society Consultant Pharmacists Annual Meeting, Gaylord Texan Resort and Convention Center, Grapevine, TX.

**Zarowitz, B.** (October 2019). Preparing Advanced Scientific Clinicians in the Age of AI and Digitization. Poster presentation at 40th Annual Meeting of the American College of Clinical Pharmacy, New York, NY.

## *Oral Presentations in 2019*

**Brandt NJ, Cooke CE, Sharma K, Chou J, Carden MJ, Kumbera P, Pellegrin K.** (March 2019). Listening to the Medicare Beneficiaries: Findings from a National Survey on the Medication Therapy Management Standardized Format. AMCP Annual Meeting 2019, San Diego, CA.

**Brandt N, Chou J, Cooke CE, Sharma K.** (May 2019). A National Survey of Medicare Beneficiary Perspectives on the Medicare Part D Medication Therapy Management Standardized Format. Platform presentation at 2019 PQA Annual Meeting, PQA Rapid Fire Research Rounds session, and poster presentation, Baltimore, MD.

**Brandt N, Pellegrin K.** (November 2019). Peter P. Lamy Memorial Lecture: Aging in Place: What Pharmacists can do to Reduce Community-Acquired Medication Harm in Older Adults. Presentation at 2019 American Society Consultant Pharmacists Annual Meeting, Grapevine TX.

Beliard R, **Merrey JW.** (November 2019). New Drug Update 2018-2019. Johns Hopkins Community Physicians Annual Provider Retreat. Baltimore, MD (one contact hour CME).

**Chou J, Cooke CE, Sharma K, Brandt NJ.** (March 2019). A National Survey of Medicare Beneficiary Perspectives on the Medicare Part D Medication Therapy Management (MTM) Standardized Format. National Institutes of Aging/Center for Research and Aging Symposium, Baltimore, MD.

**Chou J, Cooke C, Brandt NB.** (May 2019). A National Survey of Medicare Beneficiary Perspectives on the Medicare Part D Medication Therapy Management (MTM) Standardized Format. Presentation at 2019 Pharmacy Quality Alliance Annual Meeting, Baltimore, MD.

**Chou J, Cooke CE, Zarowitz B, Brandt N, Pellegrin K.** (May 2019). Understanding Social Determinants of Medicare Part D Medication Therapy Management Programs. Presentation at American Geriatric Society (AGS) Annual Meeting, Long Beach, CA.

**Chou J.** (June 2019). Polypharmacy. Presentation at Lifebridge Health Chief Resident Immersion Training in the Care of Older Adults, Hershey Lodge, Hershey, PA.

**Chou J, Cooke CE, Brandt N.** (October 2019). Perceptions and Preferences of Older Adults Regarding Multi-Medication Packaging. Presentation at 2019 American College of Clinical Pharmacy Annual Meeting, New York, NY.

**Chou J.** (November 2019). Antibiotic Adverse Drug Events: Improving Patient Assessment and Management. Presentation at 2019 American Society Consultant Pharmacists Annual Meeting, Gaylord Texan Resort and Convention Center, Grapevine, TX.

**Chou J, Lee M, Kaminsky T, Cooke CE, Brandt N.** (November 2019). Understanding Patient Preferences Regarding Multi-Medication Packaging. Presentation at American Society of Consultant Pharmacists Annual Meeting, Grapevine, TX.

**Cooke C.** (March 2019). Cardiovascular Patient-Centered Outcomes Research. Workshop for Association of Black Cardiologists presented at the American College of Cardiology 2019 Annual Scientific Session, New Orleans, LA.

**Cooke CE, Burroughs A, Perfetto E, Mullins CD, and the Stakeholder Advisory Board** (in alphabetical order): Clarence Ancar III, Sharon Bond, Philip Duncan, Daphne Ferdinand, F. Roosevelt Gilliam III, Scott Johnson, and Eldrin Lewis. (May 2019). Training for Cardiologists and their Patients about Patient-Centered Outcomes Research. Annual PATIENTS Day 2019, Baltimore, MD.

**Cooke C.** (July 2019). What is Patient-Centered Outcomes Research? Patient training webinar presented to patients of Association of Black Cardiologists.

## *Oral Presentations in 2019*

**Cooke CE**, Burroughs A, **Perfetto E**, Mullins CD, and the Stakeholder Advisory Board (in alphabetical order): Clarence Ancar III, Sharon Bond, Philip Duncan, Daphne Ferdinand, F. Roosevelt Gilliam III, Scott Johnson, and Eldrin Lewis. (September 2019). Patient Centered Outcomes Research Institute (PCORI) Engagement Awardee Presentation for Researcher and Patient. Training for Cardiologists and their Patients about Patient-Centered Outcomes Research (PCOR). 2019 PCORI Annual Meeting, Washington, DC.

**Cooke C.** (September 2019). How does CER/PCOR Fit into the Value Conversation? 2019 Inaugural Academy of Managed Care Pharmacy Mid-Atlantic Regional Conference, Baltimore, MD.

**Cooke C.** (October 2019). Co-presented Evolving Opportunities for Medication Therapy Management with N. Brandt for seminar sponsored by the AMCP and ASCP student chapters at University of Maryland School of Pharmacy, Baltimore, MD.

Crowder A, **Merrey JW.** (November 2019). Medication Stewardship. Architecture of High Value Health Care National Conference. Baltimore, MD (0.25 contact hour CME).

**Fleming S.** (April 2019). "Pharm to (Data) Table: Substance Use Epidemiology in Public Health Pharmacy." Presentation at University of Maryland, Baltimore, School of Pharmacy, Baltimore, MD.

**Fleming S, Kuzucan A, Simoni-Wastila L.** (October 2019). Cocaine and Opioid Polysubstance- Related Hospitalizations on the Rise in Maryland. Podium presentation at Addiction Health Services Research Meeting, Park City, UT.

Gale SE, Devabhakthuni S, Noel Z, Reed BN, Watson K, **Cooke CE.** (October 2019). Absence of Compelling Indications in Patients with Hypertension Prescribed Beta-blockers. 2019 American College of Clinical Pharmacy Annual Meeting, New York, NY.

Gerber D, Roefaro J, **Brandt N.** (November 2019). AGS 2019 Beers Criteria Update: Front of the Stage, and Behind the Scenes. Presentation at 2019 American Society Consultant Pharmacists Annual Meeting, Grapevine TX.

**Holmes SD**, Galik, E., Boltz, M., & Resnick, B. (June 2019). Measurement of the Assisted Living Environment and Influence on Function and Physical Activity. Poster session presented at the annual meeting of the Society for Behavioral Medicine, Washington, DC.

**Holmes SD**, Resnick B, Galik E. (November 2019). Developing and Testing a Model of the Assisted Living Environment. Poster session accepted for presentation at the annual meeting of the Gerontological Society of America, Austin, TX.

**Holmes SD**, Resnick B, Galik E. (November 2019). Testing the Reliability and Validity of the Resident Satisfaction Index. Poster session accepted for presentation at the annual meeting of the Gerontological Society of America, Austin, TX.

Johnson K, Triebwasser C, Harris I, Dowell P, Haidar T, Kiptanui Z, Bundschuh O, Harris I, **Cooke C, Brandt N.** (August 2019). The Part D Enhanced Medication Therapy Management Model: Monitoring Findings as the Model Enters Year Two. ISPE's 35th International Conference on Pharmacoepidemiology & Therapeutic Risk Management), Philadelphia, PA.

**Kuzucan A, Fleming S, Wastila L.** (October 2019). Discharge to Substance Abuse Treatment or Psychiatric Care after Hospitalization for Alcohol and Drug-related Poisonings, Maryland 2016 and 2017. Poster presentation at Addiction Health Services Research meeting, Park City, UT.

**Le TT, Fleming S, Simoni-Wastila L.** (August 2019). Patterns of Opioid Use Among Patients with Cancer-related Pain Diagnoses. Presentation at ICPE Annual Meeting 2019, Philadelphia, PA.

## *Oral Presentations in 2019*

**Le TT, Fleming S, Ngan Pham, Qato D.M, Simoni-Wastila L.** (May 2019). Burden of Chronic Obstructive Pulmonary Disease (COPD) Among Older Adult Medicare Beneficiaries in the United States. Presentation at American Geriatric Society Annual Meeting 2019, Portland, OR.

**Mansour D,** Nkimbeng M, Reese M. (April 2019). Housing and Health: Examining the Impact of Housing Policies Across the Life Course. Part 3: Housing Concerns of the Elderly that Impact Health Outcomes. Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.

**Mansour D,** Brandt N, Wagner L, Malcolm O, Tata A, Callahan C. (June 2019). Improving Medication Safety & Management in the Community part of the West Baltimore Collaborative. Presentation given to the medical staff at the University of Maryland Medical Center, Baltimore, MD.

Mattocks N, Baik, S, Cheon, JH, **Holmes SD.,** Millar R. (March 2019). Identifying Pathways from Neighborhood Environments to Hypertension in Baltimore City. Poster session presented at the University of Maryland Baltimore Aging Research Symposium, Baltimore, MD.

**Mansour D,** Miller J. (November 2019). Dentistry and Pharmacy: Working Together as New Practitioners to Combat the Opioid Crisis. Presentation given to practitioners and students from Schools of Dentistry, Medicine, Nursing, and Pharmacy, Baltimore, MD.

**Merrey JW.** (March 2019). Antithrombotics: Which One to Use. Current Topics in Geriatrics Johns Hopkins Medicine and Gerontology. Baltimore, MD. (1 contact hour CME)

**Olopoenia A,** Onukwugha E, **Simoni-Wastila L,** Camelo-Castillo W, Villalonga-Olives E, Gandhi A, Slejko J. (June 2019). Patterns of Prescription Opioid Utilization Among Adolescents and Adults with Co-morbid Chronic Pain and Mental Health Diagnosis. Presentation at Academy Health Meeting,

Behavioral Health services research interest group, Washington, DC.

Onasanya O, Hanna ML, Crawford T, **Perfetto EM.** (May 2019). Patients with Anti-Dementia Drug Use but No Documented Dementia-Related Diagnosis: How Do They Compare to Those with a Diagnosis? ISPOR, New Orleans, LA.

**Perfetto EM.** (March 2019). Patient-Reported Outcomes and Patient Preferences: Considerations for Coverage Policy Decisions? Presentation at AMCP Managed Care & Specialty Pharmacy Annual Meeting, San Diego, CA.

**Perfetto EM.** (March 2019). Inclusive by Design: Evidence Synthesis Track. Presentation at Genentech's 2019 Medical Affairs Summit, San Diego, CA.

**Perfetto EM.** (May 2019). The Controversial Qaly: Is There A Middle Ground in The Debate? Presentation at ISPOR 2019, New Orleans, LA.

**Perfetto EM.** (May 2019). The Controversial QALY: Is There A Middle Ground in The Debate? ISPOR 2019, New Orleans, LA.

**Perfetto EM.** (June 2019). Patient-Focused Drug Development: From Concept to Reality. Presentation at 2019 BIO International Convention, Philadelphia, PA.

**Perfetto EM.** (June 2019). The Forecast for Value – The Role of Value Assessment Frameworks. Presentation at 2019 BIO International Convention, Philadelphia, PA.

**Perfetto EM,** Salamido G, Helms E, Shipley B. (January 2019). Panel Discussion: Defining Value in Health Care: The Opportunity for Medication Optimization in Balancing Care, Quality and Cost Equation. University of North Carolina Medication Optimization Collaboration Summit, Chapel Hill, NC.



## *Oral Presentations in 2019*

**Perfetto EM**, Thompson A. (May 2019). Increasing Patient-Community Capacity to Engage on Quality of Health Care. Pharmacy Quality Alliance Annual Meeting, Baltimore, MD.

**Perfetto EM**. (June 2019). The Forecast for Value – The Role of Value Assessment Frameworks. 2019 BIO International Convention, Philadelphia, PA.

**Perfetto EM**. (June 2019). Patient-Focused Drug Development: From Concept to Reality. 2019 BIO International Convention, Philadelphia, PA.

**Perfetto EM**. (October 2019). Patient Engagement Across the Health Ecosystem. NIAMS Coalition Outreach and Education Meeting, Washington, DC.

**Perfetto EM**, Capps K, Parkinson C, Favro K, Brown S. (November 2019). Panel: Getting Real on Personalized Medicine. National Alliance Annual Forum, Washington, DC.

Resnick B, Boltz M, Galik E, **Holmes SD**. (November 2019). The Assisted Living Setting: Clinical care and outcomes. Symposium accepted for presentation at the annual meeting of the Gerontological Society of America, Austin, TX.

**Riggins S**. (November 2019). Comparative Efficacy and Safety of Selective Serotonin Reuptake Inhibitors and Serotonin-Norepinephrine Reuptake Inhibitors in Older Adults: A Network Meta-Analysis. Presentation at 2019 American Society Consultant Pharmacists Annual Meeting, Grapevine TX.

Sharma K, **Cooke CE**, Howard AK, Chater R, Brandt NJ. (March 2019). Listening to the Medicare Beneficiaries' Voice to Optimize the MTM Program Standardized Format. National Institutes of Aging/Center for Research and Aging Symposium, Baltimore, MD.

Triebwasser C, Johnson K, Liu M, Haidar T, Dowell P, Xu L, Kiptanui Z, Perlman E, Bundschuh O, Harris I, Brandt N, **Cooke C**. (June 2019). The Part D Enhanced Medication Therapy Management (MTM) Model:

Monitoring Findings as the Model Enters Year Two. Academy Health Annual Research Meeting, Washington, DC.

Yeh YC, **Cooke CE**, Seo C, Gao X, Shapovalov Y, Yegin A, Chen SY. (May 2019). A Literature Review of Burden Associated with Large Hemispheric Infarction (LHI) From the Patient's Perspective. 5<sup>th</sup> European Stroke Organization Conference, Milan, Italy.

**Zarowitz BJ**. (July 2019). Addressing Challenges in Conducting Clinical Research in Older Adults. Presentation at Forum on Drug Discovery Development, and Translation, National Academies of Sciences, Engineering, Medicine, Washington, DC.

**Table 1. Funded Grants and Contracts**

<b>Name</b>	<b>Project Title</b>	<b>Source</b>	<b>Total</b>	<b>Dates</b>
<b>Nicole Brandt (PI)</b> Emily Heil (Co-PI) Kimberly Claeys (Co-PI)	Antimicrobial Stewardship in LTCFs in Maryland	Maryland Department of Health	\$200,000	4/16/2018 – 07/31/2019
<b>Linda Wastila (PI)</b> <b>Nicole Brandt (Co-I)</b> <b>Barbara Zarowitz (Co-I)</b> <b>Danya Qato (Co-I)</b>	Antipsychotic reduction in nursing home residents with Alzheimer's disease: Impact on state, facility, and resident psychopharmacological medication use and outcomes	National Institute on Aging	\$1,597,610	3/1/2019 – 2/28/2022
Ashwini Davison (Co-PI) Douglas Robin (Co-PI) <b>Jessica Merrey (Co-I)</b> Michael Miller (Co-I)	Barriers and Facilitators to Provider Adoptions of Medication Price Transparency Tools in Electronic Medical Records: A Qualitative Study	Johns Hopkins Medicine/Kaiser Permanente	\$75,000	2019 – Present
Ashwini Davidson (Co-PI) <b>Jessica Merrey (Co-PI)</b> Danny Lee (Co-I) Nicholas Chambers (Co-I)	Characterizing and Validating the National Council for Prescription Drug Programs (NCPDP)	NCPDP Foundation	\$50,000	2019 – Present
<b>Barbara Zarowitz (Co-PI)</b> <b>Nicole Brandt (Co-PI)</b>	Empirian Short Stay Prescribing Guideline	Empirian Health, LLC	\$113,400	7/1/2019 – Present
<b>Nicole Brandt (PI)</b>	Geriatric Pharmacist Directed Services Contract	MedStar Good Samaritan Hospital, Center for Successful Aging	\$80,000	2/12/2019 – Present
<b>Nicole Brandt (Co-PI)</b> <b>Daniel Mansour (Co-PI)</b>	GLOBALtimore Fellowship	University of Maryland Baltimore, Center for Global Education Initiatives	\$2,000	5/1/2019 – Present
<b>Nicole Brandt (PI)</b>	HRSA Geriatric Workforce Enhancement Program	Health Resources and Services Administration	\$35,000	9/1/2019 – Present
<b>Linda Wastila (PI)</b>	Novartis Post-Doctoral HEOR Training Grant	Novartis	\$367,000 annually	7/1/2010 – Present
<b>Catherine Cooke (PI)</b> Leah Sera (Co-PI)	Opioid Use and Prescribing Analysis	CareFirst BlueCross BlueShield	\$27,500	8/2019 – 10/2019
<b>Eleanor Perfetto (Co-I)</b>	Patient-Driven Values in Healthcare Evaluation (PAVE)	PhRMA Foundation	\$500,000	1/2018 – 12/2020

Name	Project Title	Source	Total	Dates
<b>Catherine Cooke (PI)</b> Daniel Mullins (Co-I)	PCOR Training for Minority Practitioners and their Patients. Eugene Washington PCORI Engagement Award	Patient Centered Outcomes Research Institute (PCORI)	\$187,393	5/2018 – 10/2019
<b>Nicole Brandt (PI)</b> <b>Catherine Cooke (Co-PI)</b>	Research, Measurement, Assessment, Design, & Analysis (RMADA) 2 Indefinite Delivery Indefinite Quantity (IDIQ) contract	As subcontract to Impaq who was awarded Contractor status from Centers for Medicare and Medicaid Services (CMS)	—	9/26/2019 – 9/25/2024
<b>Linda Wastila (PI)</b>	State Epidemiological Outcomes Workgroup	Behavioral Health Administration/DHMH/SAMHSA	\$200,000 annually	5/1/2011 – 9/30/2019
<b>Eleanor Perfetto (PI)</b>	Transparency in Selection of Sources of Published Input for Value and Health Technology Assessment	Excerpta Medica	\$38,991	11/2018 – 9/2019
<b>Nicole Brandt (Co-PI)</b> <b>Catherine Cooke (Co-PI)</b>	Understanding Patient Preferences Regarding Multimed Packaging	Omnicell, Inc. and American Society of Consultant Pharmacists (ASCP)	\$48,500	4/30/2019 – 10/30/2019
Michael Steinman (PI) Cynthia Boyd (PI) <b>Nicole Brandt (Co-PI SEC)</b> Catherine Sarkisian (Co-PI SEC)	U.S Deprescribing Research Network (USDeN)	NIA/NIH	\$6,232,178	8/15/2019 – 7/31/2024
<b>Eleanor Perfetto (PI)</b>	Use of Real-World Evidence in Value and Health Technology Assessment	Pfizer Inc	\$91,998	11/2018 – 12/2019
<b>Eleanor Perfetto (PI)</b>	Value Assessment Research Awards. Methods Principles	PhRMA Foundation	\$100,000	1/2019 – 12/2019





University of Maryland School of Pharmacy students and Dr. Brandt



Lamy Center team supporting Hampden Community Outreach program and fundraiser



Advocacy Action with ASCP in Washington, DC



Lamy fellow, Dr. Chou presenting at PQA

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Age Friendly faculty gathering at American Geriatrics Society (AGS)