UNGIVERSITY of MARYLAND
SCHOOL OF PHARMACY
THE PETER LAMY CENTER
ON DRUG THERAPY AND AGING

ANNUAL REPORT
2018
LETTER FROM OUR EXECUTIVE DIRECTOR

Thank you for making 2018 yet another remarkable year for the Peter Lamy Center at the University of Maryland School of Pharmacy. It is hard to believe that 2018 is over! This year marked 40 years of service of improving medication safety in older adults. Our dedicated team has done an incredible job of expanding our research, education, and clinical initiatives. In the words of Andrew Carnegie, "Teamwork is the ability to work together toward a common vision. The ability to direct individual accomplishments toward organizational objectives. It is the fuel that allows common people to attain uncommon results." This could not be a more apt description of our team here at the Lamy Center. I am so proud and incredibly excited to share this 2018 annual report that looks back at last year’s accomplishments by our faculty, staff, and students.

In many ways, the Lamy Center continues to leverage its unique position within the Departments of Pharmacy Practice and Science (PPS) and Pharmaceutical Health Services Research (PHSR) to refine and enhance its research productivity and scholarly programs as reflected in this report. This past year, we saw a 26% increase in the number of peer reviewed publications, and a 23% increase in posters and presentations, in addition to an increase in grant funding. We also launched a two-year fellowship in partnership with the MedStar Center for Successful Aging. This has provided our current fellow the opportunity to strengthen his clinical leadership as well as obtain a master’s degree in PHSR. Our post-doc fellows and residents at the Lamy Center bring an interprofessional perspective as well as strong qualitative and quantitative skill sets that help us with many of our research projects.

Our dedication to the community as well as interprofessional collaboration continues to be pillars of the Lamy Center’s work. To this end, the Center has built partnerships to help advance its work at the state, national, and international level. For instance, this past year we have been working with the Maryland Department of Health to improve antimicrobial stewardship in the post-acute long-term care setting. I have also been working as a faculty member in the Age Friendly Health system movement with the Institute for Healthcare Improvement and the John A. Hartford Foundation that focuses on "what matters" to older adults and assesses mentation, mobility, and of course medications in a coordinated framework.

I am hopeful that as you read through this report you will be met with a clear picture of a Center dedicated to carrying out its mission and vision. I am deeply grateful for the hard work and dedication of the Lamy Center team and in reading Andrew Carnegie’s words it is together that we will achieve the greatest success in meeting the medication related needs of older adults and their care partners.

Thank you wholeheartedly for being a part of the Lamy Center team!

NICOLE J. BRANDT, PHARMD, MBA, BCGP, BCPP, FASCP
EXECUTIVE DIRECTOR
PROFESSOR OF PHARMACY PRACTICE AND SCIENCE
DIRECTORS' NOTES

It has been a privilege to be part of the Lamy Center’s leadership team and celebrate Dr. Lamy’s legacy through education. As part of the Center’s strategic plan, our goal is to engage leaders, train future practitioners and researchers, and empower the community through innovative educational programs. In 2018, the Center continued to grow the Lamy Champion Coalition and welcomed three new Champions. Combined, these pharmacists have more than 50 years of experience that spans various practice setting. The Champions are an integral part of helping the Center set an education, research, and clinical agenda that is in step with current and future practice.

The Center offers a number of student and postgraduate training opportunities. Graduates of the programs have gone on to be leaders in clinical practice, academia, and industry. One of the earliest programs developed by the Center, the Geriatric Pharmacy Residency, will celebrate its 20th anniversary in 2020, and is one of the oldest residency programs in the country.

The Center has also been actively engaged with the community through various outreach and educational programs. In 2018, the Center collaborated with the Maryland Poison Center at the University of Maryland School of Pharmacy to develop an educational brochure, “Safe Medicine Use: A guide for older adults and caregivers,” a free resource that is available to the public online. The Center is currently developing a follow-up live program to this resource. Students and residents will be trained to facilitate skills-based workshops in the community to empower older adults and caregivers to choose and use OTC medicines wisely.

I am excited about the future of the Lamy Center as we strive to become a leader in medication use and safety in older adults through our innovative educational programs.

This past year, research conducted by Lamy Center members has exploded. Collectively, we published nearly three dozen peer-reviewed papers, submitted more than a dozen grants, received more than $1.4 million in grants and contracts, and presented at numerous international, national, and local conferences. These accomplishments are highlighted on pages 10 and 11.

But numbers are only one representation of the Lamy Center’s research. More importantly, we have begun to ‘gel’ as a collaborative, a home for clinicians, educators, policy makers, and researchers to articulate the important health and medical issues facing our nation’s older adults — and then to investigate the magnitude of and factors associated with these problems. Our ultimate goals? To implement and evaluate potent interventions.

Who comprises our team? Pharmacists, of course — and health services researchers, geriatricians, pharmacoepidemiologists, and policy researchers. We are seasoned faculty and pharmacy students, residents and fellows, staff and doctoral aspirants. Within the University, we span two departments in the School of Pharmacy, as well as the Schools of Nursing, Social Work, and Medicine. We collaborate with other universities, as well as state and city agencies, private sector research groups, and health systems.

It is my honor to help lead this collective of passionate and inquisitive people to better understand — and help solve — the greatest health problems facing one of our most dynamic yet vulnerable populations — our older adults.

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

Linda Wastila, BSPharm, MSPH, PhD
Director of Research
Parke-Davis Chair in Geriatric Pharmacotherapy
LAMY CENTER AT A GLANCE
IN THE 2018 CALENDAR YEAR

34 PEER-REVIEWED PAPERS
published by our team members

$1,438,426
in research grants

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

29 SEMINARS
supported by our team members

2 BOOK CHAPTERS
published by our team members

293 INDIVIDUALS
attended community and educational programs

WEBSITE TRAFFIC
Lamy website accessed 22,895 TIMES
www.pharmacy.umaryland.edu/centers/amy/

35 COMMUNITY 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 (PPS) and Pharmaceutical Health Services Research (PHSR) 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 training in epidemiology, policy, economics, 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 Institute for Healthcare Improvement, Remedi SeniorCare, American Society of Consultant Pharmacists, American Geriatrics Society, Maryland Department of Health, Maryland Poison Center, Maryland Health Care Commission, MedStar Good Samaritan Hospital’s Center for Successful Aging, the Johns Hopkins University, Chesapeake Regional Information System for our Patients (CRISP), Hospice & Palliative Care Network of Maryland, and Seasons Hospice & Palliative Care. The Center 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, BCPS, BCGP, FASCP
Director of Education and Training
Associate Professor, Pharmacy Practice and Science

Linda Wastila, BSPharm, MSPH, PhD
Director of Research
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
Geriatric Pharmacotherapy and Clinical Research Consultant

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

Reba Cornman, MSW
Community Liaison Advisor

Rudolf B. Lamy, MLS, MAS
Consultant

POST-GRADUATE TEAM MEMBERS

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

Joshua Chou, PharmD
Geriatric Pharmacotherapy Fellow

Kriti Sharma, MD, MPH
Postdoctoral Fellow

Monica Tong, PharmD
PGY2 Resident, Geriatric Pharmacy

Tham T. Le, Pharm, MPH
Doctoral Candidate
NOTE FROM
RUDOLF B. LAMY

It has been my pleasure to represent the Lamy family at and for the Center over the past two years. I am honored to be added to the list of Lamy Center staff. I have been actively posting caregivers blogs on the Lamy Center website, and I encourage you to read and comment on these blogs. I sat on the History Panel during the Centers’ 40th Anniversary celebration education sessions. I have also donated a pristine, never-been-opened, copy of my fathers’ groundbreaking book, Prescribing for the Elderly, to the Centers’ library.

Our Champions are a diverse group of pharmacists who provide specialized geriatrics care in various practice settings. This coalition is instrumental in assisting the Lamy Center in furthering its mission. The larger School of Pharmacy community also benefits from the Champions' pharmaentreurism, leadership, and clinical excellence.
**ANTIMICROBIAL STEWARDSHIP**

The Antimicrobial Stewardship in Long-Term Care Facilities Summit was the official kick-off activity of the partnership with the Maryland Department of Health. It was developed to prevent antibiotic resistant infections by training pharmacists, physicians, nurses, and other individuals working in Maryland’s long-term care facilities. The Summit, held on Sept. 14 at the Handelman Conference Center, brought together 112 participants across the health care professional spectrum and provided 488 hours of continuing professional education. The summit offered interactive sessions focused on the areas of optimization of antimicrobial therapy, infection control, and promotion of stewardship programs in long-term care facilities.

**40TH ANNIVERSARY CELEBRATION**

In 2018, the Peter Lamy Center celebrated its 40 year anniversary and reflected on past, current, and future work. Speakers included Rudy Lamy and Dr. Maddy Feinberg, who discussed the legacy of the Center, while Dr. Chanel Whittaker and Dr. Linda Wastila led a panel discussing the future of the center. The talks were followed by a reception to close the celebration. To further commemorate the 40th anniversary, Dr. Joseph Hanlon presented the 2018 ASCP Lamy Lecture, “Optimizing Medication Prescribing to Reduce Adverse Drug Reactions in Older Adults,” which discussed interventions to reduce adverse drug reactions and suboptimal medication prescription.

**INTERPROFESSIONAL EDUCATION**

One of the pivotal activities of the year was further development and implementation of the IPE (Interprofessional Education) course at the University of Maryland School of Pharmacy, started in the Fall 2017 and led by Dr. Mansour. It is a course that trains an interdisciplinary cohort of graduate students across the medical professions in geriatric care. The students work with older adults within the community at sites such as Mount Clare Overlook Apartments, and serve in an outreach capacity, performing blood pressure screenings, providing educational activities such as fall safety and medication safety, and providing Medicare enrollment during the fall open enrollment period.
**LAMY CENTER TEAM ACCOLADES**

**DR. WHITTAKER RECEIVES NATIONAL CONSULTANT PHARMACY AWARD**

The American Society of Consultant Pharmacists (ASCP) presented Dr. Whittaker with the Armon Neel Senior Care Pharmacist Award. The award recognizes geriatric pharmacists who consistently exemplify the ideals of senior care pharmacy while contributing significantly to the goals of ASCP.

**DR. BRANDT RECEIVES ASCP’S GEORGE F. ARCHAMBAULT AWARD**

Dr. Brandt was awarded consultant pharmacy’s highest honor, the George F. Archambault Award, by the American Society of Consultant Pharmacists (ASCP) in November 2018. The award is presented each year to individuals who have made significant contributions to the field of consultant and senior pharmacy. She now joins Bruce Stuart, PhD, professor emeritus in the Department of Pharmaceutical Health Services Research, and Peter P. Lamy, PhD, ScD, former faculty member and founder of the Lamy Center, in the revered list of Lamy Center’s executive directors who have received the award.

**DR. WASTILA RECEIVES $1.6M ANTIPSYCHOTICS GRANT**

Under the leadership of Dr. Wastila, the National Institute on Aging funded a three-year, $1.6 million R01 grant “Antipsychotic reduction in nursing home residents with Alzheimer’s disease: Impact on state, facility, and resident psychopharmacological medication use and outcomes.” The research team, which includes Drs. Brandt, Qato, and Zarowitz, as well as fellows and students in the Lamy Center, will use a 100% sample of Medicare data representing long-stay nursing home residents to determine the use of other medications and outcomes associated with the tremendous reduction in antipsychotic use between 2012 and 2016.
SCHOLARLY ACTIVITY IN 2018

Each year, our staff members publish their research results in scientific papers. Over the year, there has been a 26% increase in the number of peer-reviewed papers published in journals such as Addictive Behaviors, Pharmacoeconomics, Journal of Applied Gerontology, International Journal of Geriatric Psychiatry, Journal of Comparative Effectiveness Research, and Journal of Managed Care & Specialty Pharmacy. There has also been a 23% increase in the number of presentations and lectures given at professional events and summits such as the Janssen IDEA Summit for Advocacy Organizations and the American Society of Consultant Pharmacists annual meeting. A list of papers published by our team members in 2018 is presented in pages 13 and 14 with the team member names bolded.
GRANT FUNDING FOR THE YEAR 2018

In 2018, Lamy faculty wrote and/or participated in 13 grant/contract proposals to a number of sponsors, including the National Institutes of Health, Association of Health Research Quality, and others. Research conducted by Peter Lamy Center faculty have been funded through a variety of sources. A majority has been awarded through federal departments and agencies such as HRSA, SAMSHA, FDA, AHRQ, and CMS. Two research proposals have been funded through two leaders in the pharmaceutical industry Acadia and Novartis. Finally, one grant was awarded from the Academy of Managed Care Pharmacy Foundation. Refer to Table 1 for a list of funded grants.
COMMUNITY PROGRAMS
Selected Programs

Stepping On
Building Confidence and Reducing Falls

Several programs have been completed throughout the older adult community, including the Stepping On program, offered at several locations such as the Westminster House and Linden Park Apartments. Stepping On is an eight week course aimed at reducing falls within the aging in place community.

MEDICATION OUTREACH

Another key area of community outreach was around medication safety and adherence. Dr. Daniel Mansour led an event with Apostolic Towers residents on the importance of continuous medication adherence. Another event at Paul’s Place focused on a discussion about brand versus generic medications in the context of health care costs.

MENTAL HEALTH OUTREACH

Many community programs are centered around mental health in older adults. A series of events held through the Lamy Center is the “Talk on Memory” at the Bartholomew, Raphael, and Malta Houses, where residents took part in a program discussion around dementia, Alzheimer’s, and memory. At another event at the Pickersgill Retirement Community, students helped craft fidget blankets with the residents to help with anxiety and under-stimulation.
Peer-Reviewed Publications in 2018


<table>
<thead>
<tr>
<th>Grant</th>
<th>Name of Principal Investigator(s)</th>
<th>Total Value</th>
<th>Time Frame</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Epidemiological Outcomes Workgroup</td>
<td>Linda Wastila</td>
<td>$200,000 per year</td>
<td>5/1/2011 – 9/30/2019</td>
<td>Funded</td>
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<tr>
<td>Novartis HEOR Fellowship</td>
<td>Linda Wastila</td>
<td>$367,000 annually</td>
<td>7/1/2010 – Present</td>
<td>Funded</td>
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<tr>
<td>Clinical and functional characteristics of Nursing Home Residents with Parkinson’s Disease and Psychosis Compared to those with Parkinson’s Disease without Psychosis</td>
<td>Barbara J Zarowitz</td>
<td>$152,805</td>
<td>9/25/2015 – Present</td>
<td>Funded</td>
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<tr>
<td>Development of An Intensive Introduction to the Science of Clinical Outcomes Assessment (COA)</td>
<td>Eleanor M Perfetto</td>
<td>$75,000</td>
<td>May 2018 – Nov 2018</td>
<td>Funded</td>
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<tr>
<td>Mapping and resourcing patient and stakeholder engagement strategies along the 10-step PCOR continuum framework</td>
<td>Daniel Mullins Co-Investigator Eleanor M Perfetto</td>
<td>$1,234,891</td>
<td>09/01/2015 – 08/31/2018</td>
<td>Funded</td>
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<tr>
<td>Modernization and Testing of Alternate Formats of the Medicare Part D Medication Therapy Management (MTM) Program Standardized Format</td>
<td>Nicole Brandt</td>
<td>$72,645</td>
<td>11/2017 – Present</td>
<td>Funded</td>
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<tr>
<td>Antimicrobial Stewardship in Long-Term Care Facilities Maryland Train the Trainer Program</td>
<td>Nicole Brandt Co-Investigators Emily Heil and Kimberly Claeyes</td>
<td>$200,000</td>
<td>03/2018 – 06/30/2019</td>
<td>Funded</td>
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<tr>
<td>Geriatric Pharmacist Directed Services Contract with Center for Successful Aging, MedStar Good Samaritan Hospital:</td>
<td>Nicole Brandt</td>
<td>$160,000</td>
<td>2/1/2017 – 2/12/2019</td>
<td>Funded</td>
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<tr>
<td>HRSA Geriatric Workforce Enhancement Program</td>
<td>Nicole Brandt</td>
<td>$50,000</td>
<td>9/1/2017 – Present</td>
<td>Funded</td>
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<td>University of Maryland School of Pharmacy Geriatric Pharmacotherapy Residency Funding</td>
<td>Nicole Brandt</td>
<td>$50-55,000 annually</td>
<td>9/2005 – Present</td>
<td>Funded</td>
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<tr>
<td>CMS RMADA Part D Enhanced Medication Therapy Management Technical Implementation</td>
<td>Nicole Brandt Co-PI with Catherine Cooke</td>
<td>$58, 000</td>
<td>11/8/2016 – Present</td>
<td>Funded</td>
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<tr>
<td>Patient, Pharmacist, and Physician Perspectives on Atrial Fibrillation Risk Stratification Schemes and Shared Decision-Making</td>
<td>Elisabeth M. Oehrlein Co-Investigator Catherine Cooke</td>
<td>$5,000</td>
<td>2/16/16 – Ongoing</td>
<td>Funded</td>
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<td>Patient-centered approach to developing a plan to achieve blood pressure control while on medication for hypertension (high blood pressure)</td>
<td>Catherine Cooke</td>
<td>$5,000</td>
<td>1/15/16 – Ongoing</td>
<td>Funded</td>
</tr>
</tbody>
</table>
University of Maryland School of Pharmacy Student ASCP Chapter at National ASCP Meeting

Lamy Center Alumni Dinner honoring Dr. Joseph Hanlon in November 2018

Lamy Center Holiday Luncheon 2018

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PQA Scholars with Dr. Zarowitz

L to R: Drs. Wastila and Brandt