



THE *P*ETER *L*AMY CENTER  
DRUG THERAPY AND AGING

**FISCAL YEAR 2004 ANNUAL REPORT**

*July 2003 – June 2004*

# *The Peter Lamy Center*

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*The Lamy Center offices are located on the Baltimore campus of the University of Maryland at 515 West Lombard Street, rooms 154 to 166, Baltimore, MD 21201. For up-to-date news about the Lamy Center and for more information on participating faculty, Center projects, and relevant links, please visit our website at: [www.pharmacy.umaryland.edu/lamy](http://www.pharmacy.umaryland.edu/lamy).*

## Director's Letter

After decades of debate, Congress finally added a drug benefit to Medicare under the terms of the Medicare Modernization Act of 2003. This seminal event has raised awareness of geriatric medication issues to an all-time high. The structure of the benefit continues to fuel controversy about who will be helped and by how much, but other issues are also in the spotlight, including how to design formularies that ensure beneficiary access to needed drugs, how best to manage medication therapy for individuals with high chronic disease burdens, how to track the quality of prescribing in community and institutional settings, and, perhaps most important of all, how to empower beneficiaries to make the right medication choices in a complex new environment. These challenges provide an unprecedented opportunity for Lamy Center researchers and clinicians. Never has the Center's mission been more germane to the development of public policy and improved geriatric practice in the United States.

This FY 2004 annual report looks back at last year's accomplishments by faculty, staff, and students affiliated with the Lamy Center. It was a banner year in terms of research productivity and community outreach. But even more important, it was a year in which the Center was re-organized to meet the challenges and opportunities afforded by the increased attention the new law has given to geriatric drug therapy. This past year we identified four programmatic themes to help focus these efforts, each led by a core faculty member in the Center: Prescription Coverage and Payment (Bruce Stuart, PhD), Medication Issues in Long-Term Care Facilities (Linda Simoni-Wastila, PhD), Medication Appropriateness and Quality (Ilene Zuckerman, PharmD), and Medication Management in the Community (Nicole Brandt, PharmD). Assigning a point person to each domain will both increase the Center's responsiveness to calls for proposals and provide a structure for future program development. Members of the Center will continue to collaborate across the four domains, recognizing the natural overlap of ideas, findings, and interests. The program leaders present their inaugural accounts of progress and accomplishments in this annual report.



Bruce Stuart, PhD

## About The Peter Lamy Center



The Peter Lamy Center for Drug Therapy and Aging serves as the focal point for geriatric research, education, and service within the University of Maryland School of Pharmacy. The Center is named in honor of its founder, Peter P. Lamy, PhD, ScD (1925-1994, pictured), a renowned educator in the field of geriatric pharmacotherapy and

the first holder of the Parke-Davis Chair in Geriatric Pharmacotherapy at the School of Pharmacy. Dr. Bruce Stuart assumed the directorship of the Center in 1997 and is the current holder of the Parke-Davis Chair.

Research conducted by Lamy Center faculty is 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 pre-doctoral students and post-doctoral 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 research and education center housed in the Department of Pharmaceutical Health Services Research in the School of Pharmacy. There are two types of Center membership: core faculty, who have a primary research and/or practice specialty in geriatric pharmacotherapy, and affiliate faculty, who are frequent collaborators on Lamy Center projects. Currently, the Center has five core faculty and ten faculty affiliates representing the Schools of Pharmacy, Medicine, and Nursing. The Center also maintains close collaborative relationships with faculty and research centers at other academic institutions including Harvard University, Howard University, the Johns Hopkins University, the University of Massachusetts, the Medical College of South Carolina, the Pennsylvania State University, and the University of Pennsylvania. Staff support is provided by two full-time and two part-time staff personnel. The Center also supports graduate students through its grants and contracts.

## Lamy Center Staff

### CORE FACULTY

Nicole Brandt, PharmD *geriatric pharmacy practice*  
 Becky Briesacher, PhD *through March 2004:*  
*pharmaceutical health services research*  
 Jennifer Hardesty, PharmD *geriatric pharmacy practice*  
 Linda Simoni-Wastila, PhD *pharmaceutical and health*  
*policy, health services research*  
 Bruce Stuart, PhD *economics, health policy, health*  
*services research*  
 Ilene Zuckerman, PharmD *epidemiology, geriatric*  
*pharmacy practice*

### CORE STAFF

Chris Blumenfeld, *Program Coordinator*  
 Robyn Durchanek, BA, *Administrative Assistant*  
 Xiaoqiang Ren, MS, *Statistician*  
 Thomas Shaffer, MHS, *Research Analyst*

### AFFILIATE FACULTY

Ann Gruber-Baldini, PhD *School of Medicine*  
 Donald Fedder, DrPH, MPH  
*School of Pharmacy*  
 Cherokee Layson-Wolf, PharmD  
*School of Pharmacy*  
 Jay Magaziner, PhD *School of Medicine*  
 Robert Michocki, PharmD *School of Pharmacy*  
 Daniel Mullins, PhD *School of Pharmacy*  
 Denise Orwig, PhD *School of Medicine*  
 Frank Palumbo, PhD, JD *School of Pharmacy*  
 Ann Marie Spellbring, PhD, RN  
*School of Nursing*  
 Sheila Weiss, PhD *School of Pharmacy*

### AFFILIATE STAFF

Reba Cornman, MSW *Geriatrics & Gerontology Education and*  
*Research GGEAR Program*  
 Diane McNally, MS *Pharmaceutical Research Computing*

### PHD STUDENTS

Fatima Baysac, Jalpa Doshi, Cheryl Fahlman, Jose Hernandez,  
 Sachin Kamal-Bahl, Rhona Limcangco, Denesh Madnani,  
 Mikail Menes, Puneet Singhal

### Resident

Juliette Taylor Toure, PharmD

### Center-at-a-Glance FY 2004

Core faculty	5
Faculty affiliates	10
Staff	4
PhD students supported	9
Residents	1
New grants/contracts	12
New grant/contract funding	\$1.61 million
Publications	42
Presentations	103
ElderCare Brochures distributed	20,000

### Lamy Center faculty, staff and students

(left to right):

#### Back row:

Tom Shaffer,  
 Puneet Singhal,  
 Bruce Stuart,  
 Robyn Durchanek,  
 Chris Blanchette,  
 Jennifer Hardesty

#### Front row:

Linda Simoni-Wastila,  
 Nicole Brandt,  
 Chris Blumenfeld,  
 Fatima Baysac,  
 Rhona Limcangco,  
 Ilene Zuckerman

Not shown: Xiaoqiang Ren



## Program Descriptions

### Prescription Coverage & Payment Issues

Bruce Stuart, PhD

Professor and Executive Director



The Peter Lamy Center has a national reputation for its work on drug coverage and payment issues facing aged Americans. With passage of the Medicare Modernization Act the demand for strong, empirically based policy analysis in this area has never been greater. Responding to this demand, researchers at the Center initiated several new projects in FY 2004 focused on various aspects of the Medicare drug benefit. One new project sponsored by the

Commonwealth Fund addresses the needs of beneficiaries with multiple chronic conditions and persistently high medication use. Another, funded by the Kaiser Family Foundation, examines the stability of the Medicaid safety net for the poorest disabled and elderly Medicare beneficiaries. The Robert Wood Johnson Foundation is funding a new Center project examining the impact of benefit gaps on medication regimens and outcomes for beneficiaries at risk for falling into the MMA's notorious "doughnut hole." The fruits of these research efforts are just beginning to reach publication.

In addition to new project starts, Center faculty completed two research projects focused on prescription coverage and payment issues in FY 2004. A Commonwealth Fund grant addressed the cost and quality of prescription coverage for vulnerable Medicare beneficiaries including the disabled, near poor, and new retirees threatened with loss of employer-paid health benefits. An external evaluation of this grant commissioned by the sponsor concluded, "This project altered the terms of the debate regarding prescription drug coverage for Medicare beneficiaries by documenting the extent and complexity of the problem." Findings from the project have been published in *Health Affairs* and other top journals over the past two years. The second completed project was a collaborative effort with Abt Associates conducted for CMS. It examined persistency of drug spending by Medicare beneficiaries and the impact of prescription coverage on Medicare outlays for physician and hospital care. Findings from this project were published in the *Health Care Financing Review*, and other publications are pending. The next year will see a steady stream of new articles and presentations by Center faculty on the prospects and problems facing Medicare beneficiaries as they prepare for the new drug benefit.

### Long-term Care Initiative: Promoting Research and Awareness of Medication Issues in Long-term Care Facilities

Linda Simoni-Wastila, BS Pharm, PhD

Associate Professor and Director of the Long-Term Care Initiative



Since 2001, the Lamy Center has worked closely with the Federal government to develop a new, nationally representative database on medication information for residents in nursing homes and assisted living facilities who participate in the Medicare Current Beneficiary Survey (MCBS). The Lamy Long-Term Care Initiative was launched in January 2004 to

promote research and awareness of medication issues in long-term care utilizing this and other databases. The initiative has four aims:

- Building a long-term care medication research program at the Center
- Promoting facts about medication use in long-term care
- Providing national benchmarks of medication use for local interventions and studies.
- Collaborating with external researchers to develop fundable project proposals in partnership with Center faculty and staff.

During the first year of this program initiative, faculty members have worked hard to further develop the Center's research portfolio in long-term care medication issues. To that end, a number of projects were begun in FY 2004: examination of antipsychotic and other psychoactive drug use in skilled nursing facilities (Centers for Medicare and Medicaid Services); use of drugs with anticholinergic properties by nursing home residents with dementia (PhD dissertation); pain management in long-term care (PhD dissertation); and the role of inappropriate drug use in predicting admission to long-term care facilities (National Institute on Aging).

Quality of prescribing in nursing facilities was also an element of a grant completed in June 2004 for the National Institute on Aging (NIA) under the leadership of Jay Magaziner, PhD and Bruce Stuart, PhD. The primary focus of the grant was on cost differentials in treating nursing home residents with and without dementia, but one intriguing side finding was that demented residents were found to face a significantly lower risk of receiving drugs considered inappropriate for frail elders. Follow-up analyses are planned for FY 2005.

## Medication Appropriateness and Quality

*Ilene Zuckerman, PharmD*

*Associate Professor and Director of Studies in Medication Appropriateness*

Compared with their younger counterparts, older adults are at significantly higher risk for medication-related problems. There are many reasons for this: high disease burden; high utilization of prescribed and alternative medications; greater susceptibility to drug-disease, drug-nutrient, and drug-drug interactions; psychosocial and cognitive deficits that may affect treatment adherence; and prescribers' lack of knowledge of geriatric pharmacotherapy. Together, these factors can lead to overprescribing, inappropriate prescribing, and inadequate monitoring of drug-related events. Fear of drug-related adverse events can also lead to underprescribing of necessary medications.

The Lamy Center's focus on medication appropriateness and quality of care is intended to promote research on the causes, prevalence, and outcomes associated with suboptimal medication use among older adults. Our research agenda this past year included epidemiological studies of the prevalence of inappropriate drug use for aged Medicare beneficiaries (Commonwealth Fund and National Institute on Aging), a study of the appropriateness of Cox-2 use among older persons at risk of adverse gastrointestinal effects (Commonwealth Fund), development of a medication use screening instrument aimed at high-risk elders (National Institute on Aging), and development of a medication management instrument to address the special needs of elders in congregate housing (AARP Andrus). Other studies conducted under this program in FY 2004 included two PhD dissertations: one examining the correlates and consequences of propoxyphene use among aged Medicare beneficiaries (funded by an Agency for Healthcare Research & Quality dissertation grant), and another estimating rates of underprescribing of cardiovascular medications to residents of long-term care facilities.

This year also marked the completion of a 6-year service contract with the Pennsylvania Department of Public Welfare (DPW) led by Dr. Zuckerman. The goal of the contract was to provide clinical pharmaceutical, analytical, and computing expertise in the administration of drug utilization review to enable the DPW to lower the cost of health care and enhance the quality of prescribing to medical assistance



recipients. The contract resulted in several presentations and publications relating to appropriateness and quality of drug use for this underserved population. Dr. Simoni-Wastila completed a project funded by the Substance Abuse and Mental Health Services Administration that examined community-dwelling elders' exposure to prescription drugs with abuse potential. The lead paper for that study, which is currently under review, concluded that 21.7 percent of all aged Medicare beneficiaries (7.7 million individuals) received one or more abusable prescription drugs in 1999.

## Medication Management in the Community

*Nicole Brandt, PharmD, BCPP, CGP*

*Assistant Professor and Director of Clinical and Educational Programs*

An important mission of the Lamy Center is reaching out to the community at large through partnerships with such organizations as the Alzheimer's Association, the Beacon Institute, the American Society of Consultant Pharmacists, the National Council on Patient Information and Education, and the Centers for Medicare and Medicaid Services. Of particular note is our partnership with the Baltimore City Commission on Aging under the Medication Management Program. In the past year this program has touched the lives of approximately 800 seniors in the Baltimore community. All told, clinical faculty and staff associated with the Center participated in more than 50 educational programs and health fairs throughout the state of Maryland in FY 2004.

The Center is fortunate to have brought on Jennifer Hardesty under a clinical agreement with Omnicare. This additional support has provided us with the opportunity to expand our community and long-term care activities, which offer additional learning environments for students and residents. We are also excited that our geriatrics residency was recently accredited and now has ongoing financial support from an endowment in the Department of Pharmacy Practice and Science. We are also grateful of the continued support from the Maryland Chapter of the American Society of Consultant Pharmacists.

To meet the medication information needs of individual elders, the Center publishes two consumer brochure series and offers a small personal consultation service. The ElderCare Patient Education Series includes eleven titles plus a personal medication record booklet designed to address general questions about medication use and safety. The Know Your Medication Series includes four titles focused on treatment of specific conditions (high cholesterol, osteoporosis, depression, and heart failure). The Lamy Center distributed approximately 20,000 ElderCare brochures in FY 2004.



## Supporting Graduate Education

The Lamy Center takes particular pride in supporting graduate students in their pursuit of the PhD in Pharmaceutical Health Services Research. This aid comes in many forms: graduate assistantships, formal mentoring by Center faculty, travel funds to attend professional meetings, work experience in interdisciplinary research teams, and training in the preparation of research publications and presentations. In a typical year the Center supports five or six research assistantships. In FY 2004, however, nine graduate students were supported for all or part of the year. Three of these students completed their dissertations in 2003 and have moved on to prestigious positions in industry, academe, and research organizations (see *Where Are They Now? right*).

The Center employs an integrated training model in which graduate assistants are exposed to several interdisciplinary research teams during the course of their studies. Each team is led by a Center faculty member and typically includes an entry-level and a more senior graduate assistant. The teams are organized around specific grant and contract deliverables, and members work together from initial project conceptualization through publication of results. This system enables graduate assistants to take on increasing responsibilities as they develop proficiency in research design, statistics, and computer programming. The team experience helps both to socialize students to the work environments they can expect upon graduation and to build a record of publications and presentations. In FY 2004, graduate students were primary authors or coauthors of 12 refereed publications and gave 13 presentations at professional meetings (see *Activities starting on page 8*).



### Current Lamy Graduate Students

(left to right): *Rhona Limcangco, Puneet Singhal, Fatima Baysac, Chris Blanchette*

## Where Are They Now?

The following former students received their PhD in Pharmaceutical Health Services Research with the aid of research assistantships provided by Lamy Center grants and contracts:

**Becky Briesacher, PhD** (2001). Assistant Professor, University of Massachusetts Medical School, Division of Geriatric Medicine, Worcester, MA.

**Sachin Kamal-Bahl, PhD** (2003). Manager, Outcomes Research & Management, Merck and Co., Inc., West Point, PA.

**Jalpa Doshi, PhD** (2003). Health Services Research Scientist, General Internal Medicine, University of Pennsylvania, Philadelphia, PA.

**Cheryl Fahlman, PhD** (2003). Senior Research Associate, Hospital Research and Educational Trust (HRET), Washington, DC.

## The Personal Face of The Lamy Center

Grants, publications, and clinical outreach activities by Lamy Center faculty and graduate students are important measures of academic achievement. These accomplishments are a reflection of the expertise of our faculty and graduate students and the collaborative nature of the environment in which our activities are conducted. Our environment is shaped by the people we work with and is inherently dynamic.

### Faculty and Staff News

The Lamy Center's new administrative assistant, *Robyn Durchanek*, joined us in March 2004, filling a vacancy created when *Kenya Crawford* took another position after completing her business degree at the University of Baltimore. Ms. Durchanek has a BA in American Studies from the University of Maryland, College Park and brings a wide range of experience to the Center. Among her many talents, she's our new web master and design maven for Center publications. In April, *Becky Briesacher* accepted a position as assistant professor in the Division of Geriatrics at the University of Massachusetts Medical School in Worcester. Dr. Briesacher will be missed both for her research productivity and for her enthusiasm for the Center's mission. However, she continues to collaborate with Lamy Center faculty on several projects. In October 2004, *Tom Shaffer* moved from being an informal, one-day-a-week consultant to a half-time research associ-

ate at the Center. He has an MHS from Johns Hopkins and worked as a project officer and intramural researcher at the Agency for Healthcare Research and Quality (AHRQ). He is also a doctoral student in the gerontology PhD program jointly offered by the University of Maryland Baltimore and the University of Maryland Baltimore County.

On the training front, *Juliette Taylor Toure* completed her geriatrics residency in June and took a position at Bering Point, where she works on projects for the Centers for Medicare and Medicaid Services (CMS) related to the new Medicare drug benefit. Our new geriatrics resident, *Amie Taggart*, joined the Center in July 2004. She is a graduate of Duquesne University's Mylan School of Pharmacy and completed a pharmacy practice residency at the Clement J. Zablocki VA Medical Center in Milwaukee, where she was also a clinical instructor at the University of Wisconsin. Between May and December 2003, a record three doctoral students affiliated with the Center (*Sachin Kamal-Bahl*, *Jalpa Doshi*, and *Cheryl Fahlman*) completed their dissertations. Then to top that off, Jalpa and Sachin were married in May 2004, in India. *Rhona Limcangco* and *Puneet Singhal* became official doctoral candidates in the fall of 2003 and both expect to complete their dissertations this year. Second-year doctoral students joining the Center include *Fatima Baysac*, a former staffer at CMS, and *Chris Blanchette*, former clinical research coordinator at the Duke University Medical Center.

### Accolades

It was a banner year for *Nicole Brandt*. In December 2003 she received an award as "Institutional Pharmacist Providing Exemplary Care to Individuals with Alzheimer's Disease" by the US Pharmacist. In June 2004 she was named "Young Pharmacist of the Year" by the Maryland Pharmacy Association. Dr. Brandt was also featured in a front-page story in the February 2004 issue of *Consultant Pharmacist* for her collaborative work with the Baltimore Veteran Affairs Alzheimer's Clinic and other community endeavors. In addition, she was appointed to the Beacon Institute Board of Directors and Executive Committee.

*Bruce Stuart* was named to the editorial boards of *Health Affairs*, and the new *American Journal of Geriatric Pharmacotherapy*.

*Sachin Kamal-Bahl* was one of 20 national recipients of the Agency for Healthcare Research & Quality Dissertation Grant Award for 2003-2004.

*Jalpa Doshi* won best poster awards for the Annual DIA meeting, San Antonio 2003, and the Annual DIA Pharmaceutical

Outcomes Research Workshop, Tucson 2004. She also won first prize for presentations at the University of Maryland Aging and Women's Health Research Poster Day, Baltimore, 2003, and the 25th Annual Graduate Research Conference, Baltimore, 2003. In April 2004, Jalpa was appointed Senior Fellow at the Leonard Davis Institute of Health Economics, University of Pennsylvania.

*Chris Blanchette* won the University of Maryland Graduate School Merit Award for 2003-2004 and the Best Contributed Poster Presentation for the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 9th International Annual Meeting in May 2004.

*Jose Hernandez* received a Pre-Doctoral Award from Pfizer Global Epidemiology and had an abstract accepted for the 132nd Annual Meeting of the American Public Health Association. He also developed the first Journal Club in the Department of Pharmaceutical Health Services Research.

## Moving Forward:

### What to Expect in FY2005

As we settle into FY 2005, Lamy Center faculty and staff look forward to new activities on several fronts.

#### Expanded Faculty and Staff Affiliate Base

The Lamy Center has grown dramatically over the past five years, with a membership encompassing three schools at the University of Maryland Baltimore. This coming year we will be developing membership guidelines, with an eye toward expanding our current affiliate membership base to include colleagues at other universities and research centers.

#### New Project Starts / New Initiatives in Medication Management in the Community

The Office of the Assistant Secretary for Planning and Evaluation, US Department of Health and Human Services, has awarded a two-year contract to the Lamy Center effective September 2004. This project, directed by *Dr. Linda Simoni-Wastila*, will produce the first nationally representative estimates of drug spending for Medicare beneficiaries in nursing homes and assisted living facilities. Also started in September 2004 is a new clinical outreach and education program, which is based in a local Naturally Occurring Retirement Community (NORC) servicing 1,000 people, and focuses on the development of a pharmacist-driven medication management model. *Drs. Hardesty, Brandt* and *Taggart* plan to develop and present innovative models of care that pharmacists can provide in the community. Baltimore City has renewed our collaborative Medication Management Program as well as provided additional funding through a CMS demonstration grant to increase enrollment into prescription assistance programs.

## Enhanced MCBS Data Platform

Over the years, the Lamy Center has made a significant investment in upgrades and enhancements to the Medicare Current Beneficiary Survey (MCBS) prescription drug files extensively used by Center researchers. These improvements include development of institutional drug administration files, a brand/generic drug indicator, an AWP price indicator, correction and standardization of drug names, translation of previously untranslatable drug names, creation of new therapeutic drug classification variables, and linking of MDS records to MCBS files. In FY 2005 our goal is to create an integrated platform that makes these and other enhancements available to all Lamy Center members and selected external users. Under the direction of *Diane McNally*, the new system will include several added features including NDC codes for each drug, additional therapeutic classification options, a brand/generic drug pricing indicator, correction and standardization of dosage forms, addition of the generic name to single source brand drugs, and a legend/over-the-counter/dietary supplement indicator for drugs prescribed in long-term care facilities. These enhancements will improve the reliability and usefulness of the drug information provided by the MCBS for future Lamy Center projects.

## Data Profile Series: Facts About Medicine Use in Long-Term Care

As part of our continuing Long-Term Care Initiative we propose to develop a data profile series. We envision a series of 12 data profiles, published quarterly over a three-year period. Each profile will address a specific medication topic and be written in language accessible to an informed lay audience. The profiles will be distributed both in print form and on a dedicated website. The intended audience is health policy makers, researchers, providers, caregivers, the pharmaceutical industry, government agencies, and others with a stake in knowing more about medication issues in long-term care. Candidate topics for individual profiles include:

- A National Profile of Medication Use in Long-Term Care Facilities
- Trends in Prescription Drug Use in Long-Term Care Facilities
- The Challenge of Multiple Medication Use in Long-Term Care
- Use of Supplements and Over-the-Counter Drugs in Long-Term Care Settings
- Inappropriate Medication Use in Long-Term Care Facilities
- The Cost of Prescription Drug Use in Long-Term Care Facilities.

Other profiles might address treatment of specific conditions including depression, pain, dementia, osteoporosis, and incontinence.

The data profile series will require substantial external funds to reach fruition. We plan to underwrite the cost of the first issue and then to solicit funds from potential sponsors. If you are interested in providing sponsorship support for this endeavor, please contact Robyn Durchanek by telephone at 877-706-1489 or email at [rdurchan@rx.umaryland.edu](mailto:rdurchan@rx.umaryland.edu).

## Activities

*The following is a list of grants and contracts awarded to Lamy Center faculty as well as citations of publications and presentations by faculty, faculty affiliates, residents, and graduate students supported by the Center. Only works focused on geriatrics and medication therapy issues are included.*

### New Grants & Contracts

#### Awarded in FY2004

- Black, S. (PI), **Orwig, D. L. (CoPI)** Use of complementary and alternative medicine in older African-Americans: The Center for Integrative Medicine, University of Maryland School of Medicine, 2004-2005 (\$15,000).
- Brandt, N. (PI)** HMIS/Omicare clinical consulting service, 2003-2004 (\$89,698).
- Briesacher, B. (PI) & Simoni-Wastila, L.** Trends in antipsychotic use and other problematic drugs in long-term care facilities: Centers for Medicare and Medicaid Services, 2003-2004 (\$100,000).
- Briesacher, B. (PI) & Stuart, B.** Methodological issues in estimating prescription drug coverage with the Medicare current beneficiary survey: AARP, 2004 (\$18,210).
- Kamal-Bahl, S. (PI)** Propoxyphene use in the aged: Predictors and outcomes: Agency for Healthcare Research and Quality, 2003-2004 (\$19,459).
- Simoni-Wastila, L. (PI)** Massachusetts Medicaid infrastructure grant: Patterns of psychoactive drug use and impact on medical services utilization and productivity among Medicaid mentally disabled recipients: University of Massachusetts Medical School, 2004 (\$48,926).
- Simoni-Wastila, L. (PI)** Policy and outcomes evaluation of state-level prescription drug programs-focus on COX-2 and SSRI drug use in Medicaid populations: University of Massachusetts Medical Center, 2004-2005 (\$104,971).
- Stuart, B. (PI)** Analysis of the stability of Medicaid coverage for dual eligible Medicare beneficiaries: Kaiser Family Foundation, No. 01-1144-450, 2003-2004 (\$20,000).

**Stuart, B. (PI)** Prescription drug spending patterns of Medicare beneficiaries by income and payer source: Merck and Co., Inc., 2003 (\$28,083).

**Stuart, B. (PI), Briesacher, B., & Shea, D.** Evaluating the effect of Medicare drug policy decisions on vulnerable seniors: The Commonwealth Fund, 2004-2005 (\$278,757).

**Stuart, B. (PI), Simoni-Wastila, L. & Terza, J.** Establishing the value of stable prescription coverage for Medicare beneficiaries: The Robert Wood Johnson Foundation, 2004-2005 (\$291,039).

**Zuckerman, I. (PI)** Predicting transitions among community-dwelling elders: National Institute on Aging, 2004-2009 (\$598,750).

### Continuing Grants & Contracts

#### Awarded Prior to FY2004

- Brandt, N. (PI)** Medication management program: Baltimore City Commission on Aging, 2001-2005 (\$53,652).
- Briesacher, B. (PI)** Evaluation of drug therapy guidelines to reduce the use of potentially inappropriate drug use in nursing homes: West Virginia Medical Institute, 2002-2003 (\$100,000).
- Fennell, M. (PI) **Stuart, B. & others,** Post-BBA changes in rural hospital LTC strategies: National Institute on Aging, 2002-2005 (\$235,019 subcontract to University of Maryland Baltimore).
- Goldberg, A. (PI), **Magaziner, J. (CoPI), Stuart, B. & others.** Claude E. Pepper-Older Americans Independence Center Grant: National Institute on Aging, 2001-2006 (\$8,115,842).
- Layson-Wolf, C., Brandt, N.** Impact of pharmaceutical industry-sponsored drug prescription plans on drug access for older individuals: University of Maryland School of Pharmacy, 2002-2003 (\$5,000).
- Magaziner, J. (PI), Stuart, B. (CoPI), Gruber-Baldini, A., Zuckerman, I. & others.** Epidemiology of dementia in aged nursing home admissions: National Institute on Aging, R01 AG08211, 1991-2004 (\$1,975,165).
- Simoni-Wastila, L. (PI)** Prescription drug policy and evaluation: University of Massachusetts Medical School, 2001-2004 (\$100,008).
- Simoni-Wastila, L. (PI)** Potentially problematic drug use in the elderly: Johnson, Bassin, and Shaw/Substance Abuse and Mental Health Services Administration, 2002-2003 (\$38,000).

**Simoni-Wastila, L. (PI)** Impact of 3-tier copays on use and spending: Agency for Healthcare Research and Quality. With Brandeis University, 2002-2005 (\$1,141,542).

**Stuart, B. (PI)**, Shea, D., **Briesacher, B.**, & **Brandt, N.** Addressing the cost and quality of prescription coverage of Medicare beneficiaries: The Commonwealth Fund, 2001-2003 (\$276,856).

Wrobel, M. (PI). **Stuart, B. (CoPI)**, & others. Impact of prescription drug coverage on Medicare program expenditures: A case study of the UMWA Demonstration: Centers for Medicare and Medicaid Services, Contract No. 500-00-0032, to Abt Associates, 2002-2003 (\$114,000 subcontract to the University of Maryland Baltimore).

**Zuckerman, I. (PI on subcontract)**. Center for Minority Health Services Research. Howard University, 2002-2005 (\$138,094 subcontract to the University of Maryland Baltimore).

**Zuckerman, I. (PI)** Pennsylvania Medicaid retrospective drug utilization review program: Pennsylvania Department of Public Welfare, 2003-2004 (\$1,292,398).

## *Publications*

Baumgarten, M., Margolis, D., **Gruber-Baldini, A. L.**, Zimmerman, S., German, P., Hebel, J. R., et al. (2003). Pressure ulcers and the transition to long-term care. *Advances in Skin and Wound Care*, 16(6), 299-304.

**Brandt, N.** (2003). Editorial: Atypical antipsychotic use in the elderly. *The Consultant Pharmacist*, 18(9), 4-5.

**Brandt, N.** (2003). Monitoring medication: Ongoing evaluation and communication can improve medication management in the elderly. *Advance for Providers of Post-Acute Care*, 6(5), 46.

**Brandt, N.**, **Hardesty, J.**, & **Doshi, J.** (2003). Highlights of the 19th Annual Peter Lamy Conference: High-tech, high-touch: Making the connection to improve patient care. *The Consultant Pharmacist*, 18(2), 20-26.

**Brandt, N.**, & McGath, J. (2003). Managing pain in ostomy patients. *Ostomy Quarterly*, 41(1), 60-61.

**Briesacher, B.**, **Kamal-Bahl, S.**, Hochberg, M., **Orwig, D.**, & Kahler, K. H. (2004). Three-tiered-copayment drug coverage and use of nonsteroidal anti-inflammatory drugs. *Archives of Internal Medicine*, 164(15), 1679-1684.

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**Doshi, J. A.**, **Brandt, N.**, & **Stuart, B.** (2004). The impact of drug coverage on COX-2 inhibitor use in Medicare. *Health Affairs*, 23:1web exclusive, February 18, 2004.

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## *Reports*

**Briesacher, B., Limcangco, R., Simoni-Wastila, L., & Doshi, J.** (2004). Evaluation of Drug Therapy Guidelines to Reduce the Use of Potentially Inappropriate Drug Use in Nursing Homes: Centers for Medicare and Medicaid Services.

**Briesacher, B., Limcangco, R., Simoni-Wastila, L., & Doshi, J.** (2004). Trends in Antipsychotic Use in Long-Term Care Facilities: Centers for Medicare and Medicaid Services.

**Doshi, J.** (2004). Underutilization of Cardiovascular Medications in Aged Medicare Beneficiaries with Heart Disease: Centers for Medicare and Medicaid Services under a service agreement with West Virginia Medical Institute.

**Simoni-Wastila, L., Singhal, P. K., Hsu, V. D., Gardner, J., Briesacher, B., & Zuckerman, I. H.** (2003). Potentially Problematic Drug Use in Community-Dwelling Elders: Johnson, Bassin and Shaw, Inc.

**Stuart, B., Briesacher, B., Doshi, J., & Wrobel, M.** (2003). Impact of Prescription Drug Coverage on Medicare Program Expenditures (No. 500-00-0032/TO#4): Centers for Medicare and Medicaid Services.

Wrobel, M., **Briesacher, B., Doshi, J., & Stuart, B.** (2003). Design Issues for the Evaluation of Prescription Run Programs (No. 500-00-0032/TO#4): Centers for Medicare and Medicaid Services.

Wrobel, M., **Briesacher, B., Doshi, J., & Stuart, B.** (2003). Predicting Drug Expenditures for Medicare Beneficiaries (No. 500-00-0032/TO#4): Centers for Medicare and Medicaid Services.

Wrobel, M., **Stuart, B., Briesacher, B., & Doshi, J.** (2004). Impact of Prescription Drug Coverage on Medicare Program Expenditures-A Case Study of the UMWA: Centers for Medicare and Medicaid Services.

## *Doctoral Dissertations by Students Receiving Lamy Center Support in 2003*

**Doshi, J.** (2003). Underutilization of Cardiovascular Medications in Aged Medicare Beneficiaries with Heart Disease: University of Maryland Baltimore.

**Fahlman, C.** (2003). Turnover in Maryland Medicaid MCO Recipients: University of Maryland Baltimore.

**Kamal-Bahl, S.** (2003). Prevalence, Predictors, and Consequences of Propoxyphene Use in the Aged: University of Maryland Baltimore.

## *Presentations & Abstracts*

Bercovitz, A., Burton, L., & **Gruber-Baldini, A. L.** "Characteristics of nursing home decedents," annual meeting of the Gerontological Society of America, San Diego, CA. Abstract published in *The Gerontologist*, 43, October 2003.

**Blanchette C.** "Conflict management styles: Implications for pharmacists." Pharmacy Practice & Management Lecture. University of Maryland School of Pharmacy, Baltimore, MD, March 16, 2004.

**Blanchette C.** "Cardiovascular risk of selective cyclooxygenase-2 inhibitors compared to other nonsteroidal anti-inflammatory agents: An observational study of a Medicaid population," Weekly Seminar, Department of Pharmaceutical Health Services Research, University of Maryland School of Pharmacy, Baltimore, MD, March 29, 2004.

Boustani, M., Sloane, P., Zimmerman, S., Williams, C., Reed, P., **Gruber-Baldini, A. L., & Preisser, J.** "Evidence-based management of dementia-related agitation in residential care/assisted living facilities and nursing homes," annual meeting of the Gerontological Society of America, San Diego, CA. Abstract published in *The Gerontologist*, 43, October 2003.

**Brandt N.** "Substance misuse and abuse in the elderly," Maryland Gerontological Association Meeting, Baltimore, MD, June 17, 2004.

- Brandt, N.** "Prescription for advocacy on aging: A workshop for all generations." Aging Committee of the National Association of Social Workers, Maryland Chapter, Columbia, MD, June 15, 2004.
- Brandt, N.** "Seeking solutions to health workforce shortages in long-term care: Best practices," poster presented at the Second Virginia Lee Franklin Memorial Trust Conference, Baltimore, MD, June 4, 2004.
- Brandt, N.** "Pharmacological update: Disease and medicine," MAADS Nurses Conference, Columbia, MD, May 20, 2004.
- Brandt, N.** "Geriatric polypharmacy," Clinical Update on Geriatric Medicine forum, CMS, Baltimore, MD, April 27, 2004.
- Brandt, N.** "New medications for old diseases," Grand Rounds, Division of Geriatric Medicine, Union Memorial Hospital, Baltimore, MD, April 21, 2004.
- Brandt, N.** "Reading and reviewing journals: Tackling the challenges to literature evaluation," Connecticut Chapter of the ASCP, Senior Symposium '04, April 15-16, 2004.
- Brandt, N.** "Decreasing the burden of medication costs," Elder Care Expo, Baltimore, MD, April 3, 2004.
- Brandt, N.** "Update on medications for Alzheimer's Disease," Annual Caregiver's Conference, Alzheimer's Association, Greater Maryland Chapter, Eastern Shore Region, Salisbury, MD, April 2, 2004.
- Brandt, N.** "Managing medications in the community," Prescription for Healthy Aging: Managing Medications, Washington County Conference, Hagerstown, MD, March 26, 2004.
- Brandt, N.** "Update on the use of antipsychotics in long term care," speaking engagement for Bristol-Myers Squibb, Ellicott City, MD, March 24, 2004.
- Brandt, N.** "Making something old new again: Focusing on the roles of the antipsychotics in older individuals," American Society of Consulting Pharmacist, Maryland Chapter, Pikesville, MD, February 11, 2004.
- Brandt, N., Spellbring, A. M.** "Fall prevention in older individuals," Charlestown Retirement Community, Catonsville, MD, February 5, 2004.
- Briesacher B., Limcangco R., Simoni-Wastila L., Doshi J., Gurwitz, J., Mortimore, J.** "Evaluation of explicit criteria drug use review to improve patient safety in nursing homes," AcademyHealth annual meetings, San Diego, CA, June 6-8, 2004.
- Burton L., Hsu V. D., **Zuckerman I. H.** "Medicare costs for dually eligible related to timing of eligibility," annual meeting of the Gerontological Society of America, San Diego, November 23, 2003.
- Doshi, J., Stuart, B.** "Generosity of drug coverage and use of effective cardiovascular medications among aged Medicare beneficiaries with heart disease," AcademyHealth annual meetings, San Diego, CA, June 8, 2004.
- Doshi, J.** "Underutilization of ACE-inhibitors among elderly persons with diabetes and a concomitant cardiovascular risk factor," Drug Information Association Annual Outcomes Research Workshop, Tucson, AZ, January 22, 2004.
- Doshi, J., Stuart, B.** "Beta-blocker use among US elderly Medicare beneficiaries post-myocardial infarction: National patterns and predictors in the outpatient setting," International Society of Pharmacoepidemiology, Philadelphia, PA, August 22, 2003.
- Fahlman, C.,** "Factors influencing Medicaid recipient switching behavior in Medicaid MCOs," AcademyHealth annual meetings, San Diego, CA, June 6-9, 2004.
- Gruber-Baldini, A. L., May, C., & Kittner, S.** "Sensitivity of nursing home cost comparisons to method of dementia diagnosis ascertainment," annual meeting of the Gerontological Society of America, San Diego, CA. Abstract published in *The Gerontologist*, 43, October 2003.
- Gruber-Baldini, A. L., & Quinn, C.** "Medicare costs for patients with dementia in nursing homes: Results from the 'Epidemiology of dementia in nursing homes' study," annual meeting of the Gerontological Society of America, San Diego, CA. Abstract published in *The Gerontologist*, 43, October 2003.
- Gruber-Baldini, A. L., Zimmerman, S., Watson, L., Boustani, M., Port, C., Williams, C., Preisser, J., Reed, P.** "Recognition and treatment of depressive symptoms among residents with dementia in assisted living," annual meeting of the Gerontological Society of America, San Diego, CA. Abstract published in *The Gerontologist*, 43, October 2003.
- Hardesty, J.** "Decreasing your medication cost burden," Alzheimer's Association Caregivers Conference, Baltimore, MD, June 8, 2004.
- Hardesty, J.** "I feel your pain: Pain management in long term care," Mid-Atlantic Lifespan Annual Conference, Ocean City, MD, May 5, 2004.

**Hardesty, J.** “Breaking the barriers to patient compliance,” Third Annual Forum on Patient Compliance and Persistency, Center for Business Intelligence, Philadelphia, PA, April 19, 2004.

**Hardesty, J.** “Balancing act: Risks vs. benefits of medications in the elderly,” Washington County ARC Conference, Hagerstown, MD, March 26, 2004.

**Hardesty, J., Brandt, N.,** Billington-McEvoy, A., **Singhal, P.,** Rosiak, B. “Evaluation of concomitant use of anticholinergic medications in long term care patients using cholinesterase inhibitors,” American Society of Consultant Pharmacist’s 34th Annual Meeting, San Antonio, TX, November 18, 2003. Abstract published in *The Consultant Pharmacist*, October 2003.

**Hardesty, J., Brandt, N.,** Baylis, R. “Diabetes disease state management program in long term care: A pilot project,” American Society of Consultant Pharmacist’s 34th Annual Meeting, San Antonio, TX, November 18, 2003. Abstract published in *The Consultant Pharmacist*, October 2003.

**Hardesty, J.** “Improving the use of OTC medications in the older adult,” 20th Annual Peter Lamy Center Conference, Columbia, MD, October 23, 2003.

**Hardesty, J.** “Red flags,” Focus on Seniors, WCBM 680 AM Radio, Baltimore, MD, September 20, 2003.

**Hardesty, J.** “Improving care for residents with diabetes mellitus: A nursing perspective,” HMIS Education Seminar, Linthicum Heights, MD, September 18, 2003.

Hill-Westmoreland, E. E., **Gruber-Baldini, A. L., Spellbring, A. M.** “Reporting of falls: Agreement of the MDS with chart abstractions of medical and nursing documentation,” annual meeting of the Gerontological Society of America, San Diego, CA, Abstract published in *The Gerontologist*, 43, October 2003.

**Kamal-Bahl, S.** “Time dependent COX regression models to estimate risk of fractures with opioid analgesic use,” International Society of Pharmacoepidemiology (ISPE) annual meeting, Philadelphia, PA, August 22, 2003.

Malecki, E. A., Vaughan, C., **Gruber-Baldini, A.,** Anderson, K., Spriggs, M., Pabst, K., Dignon, C., Whitmer, M., Fishman, P., Reich, S., Weiner, W., & Shulman, L. “What causes the greatest distress to patients with Parkinson’s Disease?” American Academy of Neurology, San Francisco, CA, April 2004.

**Mullins, D.** “The economic impact of laparoscopic kidney retrieval on the Medicare program.” Congressional Staff briefing on Organ Transplant Issues, Washington, DC, June 7, 2004.

**Orwig, D. L., Brandt, N., Gruber-Baldini, A.** “Assessing medication management abilities of community-dwelling elderly using the MedMaIDE,” University of Maryland Aging and Women’s Health Research Poster Day, Baltimore, MD. March 18, 2004. Abstract published in the *Journal of the American Geriatrics Society*. 51:S85.

**Mullins, D.,** “The development of direct-to-consumer prescription drug advertising regulation,” American Pharmaceutical Association Annual Meeting, Seattle, WA, March 2004.

**Palumbo, F.** “Hatch-Waxman and other legal issues associated with the use of generic drugs,” Baltimore Senior Pharmacists Association, Baltimore, MD, September 2003.

Park, N. S., Zimmerman, S., Sloane, P., **Gruber-Baldini, A.L.,** Eckert, J. K. “An organizing framework for a diverse field: Typology of residential care/assisted living,” annual meeting of the Gerontological Society of America, San Diego, CA. Abstract published in *The Gerontologist*, 43, October 2003.

Pina I., **Briesacher B., Singhal P. K.,** Frech F., Subedi P., Yokoyama K. “Self-assessments of health status predict hospitalization in patients with heart failure,” 19th Annual American Society of Hypertension Scientific Meeting and Exposition, New York, NY, May 22, 2004.

Pradel, F., **Palumbo, F.,** Flowers, L., **Mullins, D.,** Haines, S., Roffman, D., “White paper on the value of specialty certification in pharmacy,” American Pharmaceutical Association Annual Meeting, Seattle, WA, March 2004.

Shaya F. T., Blume, S. W., **Blanchette, C. M.,** Weir, M. R., **Mullins, C.D.** “Cardiovascular risk of selective cyclooxygenase-2 inhibitors compared to other non-steroidal anti-inflammatory agents: an observational study of a Medicaid population,” International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Arlington, VA, May 18, 2004.

Shaya F. T., Blume, S. W., **Blanchette, C. M., Mullins C. D.** “Racial disparities in prescribing of selective cyclooxygenase-2 inhibitors over other nonsteroidal anti-inflammatory agents in a Medicaid managed care population,” International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Arlington, VA, May 18, 2004.

- Shaya F. T., Blume, S. W., **Blanchette, C. M.**, **Mullins C. D.** “Cardiovascular risk of selective cyclooxygenase-2 inhibitors compared to other nonsteroidal anti-inflammatory agents: An observational study of a Medicaid population.” Aging and Women’s Health Poster Day, University of Maryland, Baltimore, MD, March 18, 2004; University of Maryland School of Pharmacy Research Poster Day, Baltimore, MD, April 27, 2004.
- Shaya F. T., Blume, S. W., **Blanchette, C. M.**, Weir M. R., **Mullins, C. D.** “Racial disparities in prescribing of selective cyclooxygenase-2 inhibitors over other nonsteroidal anti-inflammatory agents in a Medicaid managed care population,” Aging and Women’s Health Poster Day, University of Maryland, Baltimore, MD, March 18, 2004; University of Maryland School of Pharmacy Research Poster Day; Baltimore, MD, April 27, 2004.
- Shaya F. T., Blume, S. W., **Blanchette, C. M.**, **Mullins, C. D.**, Foster, S. A. “Propensity to prescribe COX-2 inhibitors vs. all other NSAIDs in Medicaid managed care plans,” Academy of Managed Care Pharmacy (AMCP) Annual Meeting; San Francisco, CA; April 3, 2004.
- Shea, D., **Stuart, B.**, **Briesacher, B.** “Eating the doughnut hole: Who benefits?” AcademyHealth annual meetings, San Diego, June 8, 2004.
- Shea, D., **Stuart, B.**, **Briesacher, B.**, Vasey, J., Ganesh, G. “Take-up among the near poor: Challenges for Medicare prescription drug coverage,” AcademyHealth annual meetings, San Diego, June 7, 2004.
- Shulman, L. M., Anderson, K. E., Vaughan, C. G., **Gruber-Baldini, A.**, Fishman, P. S., Reich, S. G., Weiner, W. J. “The impact of symptoms of advanced Parkinson’s Disease on daily function and quality of life,” American Academy of Neurology, San Francisco, CA, April 2004.
- Simoni-Wastila, L.** “Prescription drug problem use in mature women,” Department of Epidemiology and Preventive Medicine, University of Maryland School of Medicine, Baltimore, MD, June 10, 2004.
- Simoni-Wastila, L.** “Prescription drug monitoring programs: Please explain!” annual Common Threads V conference, American Society of Addiction Medicine, Washington, DC, April 22, 2004.
- Simoni-Wastila, L.** “Prescription drug abuse: Prevalence and risk factors,” annual conference of the National Council on Patient Information and Education (NCPIE), Washington, DC, December 9, 2003.
- Simoni-Wastila, L.** “Prescription drug monitoring programs, or who’s looking over my shoulder?” Prescription Opioid Use, Abuse, and Diversion: Treating Pain Effectively, Minimizing Abuse and Diversion, Concord, NH, November 13, 2003.
- Simoni-Wastila, L.** “Medication misuse and abuse in aging women,” Sex and Rx: A Symposium on Women and Medications, Tenth Annual Interdisciplinary Women’s Health Research Symposium, Baltimore, MD, October 24, 2003.
- Singhal P. K.**, **Stuart B.**, Menis, M., **Kamal-Bahl, S.** “Medicare expenditures in relation to functional status post-stroke for a nationally-representative sample of Medicare beneficiaries, 1996-2000,” Aging and Women’s Health Research Poster Day, University of Maryland, Baltimore, MD, March 18, 2004.
- Stuart, B.** “Quality implications of Medicare Part D,” The Commonwealth Fund Quality Improvement Colloquium, Washington, DC, June 30, 2004.
- Stuart, B.** “The United States in a world prescription drug market,” AcademyHealth annual meetings, San Diego, CA, June 8, 2004.
- Stuart, B.**, **Doshi, J.**, **Briesacher, B.**, Wrobel, M., **Baysac, F.** “The impact of prescription drug coverage on drug and non-drug spending under Medicare,” AcademyHealth annual meetings, San Diego, CA, June 6, 2004.
- Stuart, B.** “The Medicare drug benefit: implication for the state,” Understanding the Medicare Drug Benefit Plan: Federal, State, and Local Perspectives, Pittsburgh, PA, April 8, 2004.
- Stuart, B.** “Where’s the beef? Assessing the returns from the new Medicare drug benefit,” Conference on Public Policy and Responsibility Across the Generations,” Newton, MA, March 15, 2004.
- Stuart, B.** “The new Medicare drug benefit deserves watchful monitoring,” Howard University, Washington, DC, February 20, 2004.
- Stuart, B.**, **Fahlman, C.**, **Gruber-Baldini, A.** “Treatment cost differences for nursing home residents with and without dementia,” Gerontological Society of America, San Diego, CA, November 23, 2003.
- Stuart, B.**, **Doshi, J.**, **Briesacher, B.**, Wrobel, M. “Cost offsets from prescription coverage of aged persons with COPD,” International Society for Pharmacoeconomics and Outcomes Research, Barcelona, Spain, November 10, 2003.

Taylor J., Brandt, N., Limcangco, R., Briesacher, B. "Impact of antipsychotics on the use of antiparkinson agents among Medicare beneficiaries," American Psychiatric Association Annual Meeting, New York, NY, May 3, 2004.

Wrobel, M., Stuart, B., Briesacher, B., Doshi, J. "Design issues for the evaluation of prescription drug programs," AcademyHealth annual meetings, San Diego, CA, June 7, 2004

## *Community Outreach*

### *Presentations—Baltimore*

#### **Nicole Brandt, PharmD**

"A, B, C & D's of Medicare," Sandtowne-Winchester Senior Center, CARE program of Baltimore City, June 2004.

"A, B, C & D's of Medicare," Harbor Life Resource Center, CARE program of Baltimore City, June 2004.

"Be sun smart!" Rosemont Senior Center, June 2004.

"A, B, C & D's of Medicare," Waxter Senior Center, CARE program of Baltimore City, May 2004.

"Medication check-up," Epiphany House, May 2004.

"Medication check-up," Christ Church Harbor Apartments, April 2004.

"Medication check-up," Hanover Square Apartments, April 2004.

"Medication check-up," Wyman House, April 2004.

"Ask a pharmacist," Social Security Administration Career/Life Resource Center, April 2004.

"Osteoporosis," Rosemont Towers, March 2004.

"Medication check-up," Mt. Clare Overlook Apartments, March 2004.

"Medication check-up," Park Heights, March 2004.

"Osteoporosis," Hatton Senior Center, March 2004.

"Healthy hearts," Bolton North, February 2004.

"Healthy hearts," Hatton Senior Center, February 2004.

"Senior safety/winter medicine," Allendale Apartments, February 2004.

"Medication education," Zion Towers, January 2004.

"Fall prevention and medications," Charlestown Retirement Community, January 2004.

"Exercise and the elderly," Rosemont Towers, January 2004.

"Medication education," Rosemont Towers, January 2004.

"Memory," Hatton Senior Center, November 2003.

"Memory," Rosemont Towers, November 2003.

"Medication education," Rosemont Towers, October 2003.

#### **Nicole Brandt & Jennifer Hardesty**

"Ask a pharmacist," Christ Church Harbor Apartments, June 2004.

"Healthy hearts," Rosemont Senior Center, February 2004.

#### **Nicole Brandt & Juliette Taylor Toure**

"Medication check-up," Augsburg Lutheran Church, March 2004.

#### **Jennifer Hardesty, PharmD**

"Savings for seniors," July 2002 to present.

"Allergies," Mount Street Senior Center, March 2004.

"Medication check-up," Bel Park Towers, March 2004.

"Healthy hearts," Marlborough Apartments, February 2004.

"Healthy hearts," Mount Street Senior Center, January 2004.

"Falls," Marlborough Apartments, January 2004.

"Diabetes and healthy eating," Mount Street Senior Center, December 2003.

"Senior Community Health Fair," Fairhaven Retirement Community, August 2003.

#### **Juliette Taylor Toure, PharmD**

"Preakness Senior Health & Fitness Fair," Baltimore City Department of Recreation and Parks and CARE, May 2004.

"Healthy hearts," Coldstream Recreation & Parks, March 2004.

"Healthy hearts," Abundant Life Towers, February 2004.

"Healthy hearts," Coldstream Recreation & Parks, February 2004.

"Healthy hearts," Memorial Apartments, February 2004.

"Healthy hearts," Hanover Square, February 2004.

"Health Fair & medication review," St. Luke's Place, February 2004.





