

## **C. DANIEL MULLINS, PHD**

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### **EDUCATION**

PhD in Economics, Duke University, 1994  
BS in Economics, M.I.T., 1986

### **EMPLOYMENT**

#### **UNIVERSITY OF MARYLAND SCHOOL OF PHARMACY**

Professor	<i>July 2003 – present</i>
Chair, Pharmaceutical Health Services Research (PHSR) Dept	<i>July 2014 – June 2022</i>
Interim Chair, PHSR Dept	<i>October 2013 – June 2014</i>
Chair, PHSR Dept	<i>April 2003 – July 2008</i>
Associate Professor/Graduate Program Director	<i>July 1999 - June 2003</i>
Assistant Professor	<i>July 1995 - June 1999</i>

#### **UNIVERSITY OF NORTH CAROLINA SCHOOL OF PHARMACY**

Director of Graduate Studies	<i>July 1994 - July 1995</i>
Assistant Professor	<i>July 1993 - July 1995</i>

### **AWARDS**

2017 ISPOR Marilyn Dix Smith Leadership Award  
2017 UMB Martin Luther King Faculty Diversity Award  
2014 UMB Co-Researcher of the Year  
2013 UMB Champion of Excellence  
2013 University System of Maryland Wilson H. Elkins Professorship  
2013 Association of Black Cardiologists Dr. Daniel D. Savage Memorial Science Award  
2008 International Society For Pharmacoeconomics and Outcomes Research (ISPOR) Service Award  
2007 Dr. Patricia Sokolove Outstanding Mentor Award (University of Maryland Baltimore Graduate Student Association campus-wide Award)  
2006 International Society For Pharmacoeconomics and Outcomes Research (ISPOR) Service Award  
2002 ISPOR 5<sup>th</sup> Annual European Congress Best Podium Presentation  
2002 Drug Information Association (DIA) Outstanding Service Award  
1998 Faculty Development Award in Pharmacoeconomics. Provides \$40,000/year for 2 years  
Source: Pharmaceutical Research and Manufacturers of America (PhRMA) Foundation

**GRANTS**

- “Combat Insomnia: A Randomized Controlled Trial of Cognitive-Behavioral vs. Mindfulness-Based Treatment for TBI-related Insomnia and Post Traumatic Stress Symptoms.” Source Johns Hopkins University/Army Medical Research and Materiel Command 2022; \$696,713 (subcontract PI for patient and stakeholder engagement; PI: Buenaver LF).
- “Community Mistrust and Institutional Trustworthiness to advance health Equity research (COMMIT-EQ).” Source: **FDA (U01FD007563)** 2022; \$1,000,000 (Co-I; mPIs: Mattingly TJ and Baquet CR).
- “Community Mistrust and Measures of Institutional Trustworthiness (COMMIT).” Source: **NIH/NIMHD (U01MD017437)** 2022; \$1,196,222 (Administrative PI; mPI: Mattingly TJ).
- “Advancing Oncology Outcomes Through Health Equity (MSA).” Source: Ontada (McKesson Specialty Health Pharmaceutical & Biotech Solutions, LLC) 2022; \$16,405 for TO1; \$166,124 for TO2; \$202,352 for TO3 (PI).
- “Integrating patient and consumer-generated discursive data to inform and enhance FDA One Health Initiative communication strategies.” Source: US FDA 2021 and supplement 2023; \$698,224 (PI).
- “Communities and Universities Engaged Research Alliance to Fight COVID-19 Disparities.” Source: **NIH (OT2HL161612)** 2021; \$1,441,560 (subcontract PI; PI: Himmelfarb C).
- “University of Maryland Claude D. Pepper Older Americans Independence Center (OAIC).” Source: **NIH/NIA (P30AG028747)** 2021; \$1,003,217 (Co-I; mPIs: Magaziner J, Katzel LI, Ryan AS).
- “Patient and Caregiver Diversity in FDA Patient Engagement Activities and CBER-regulated Therapeutics.” Source: US FDA 2021; \$200,000 (Co-I; PI: Mattingly TJ).
- “The Economic Impact of Avoidable Healthcare-Associated Infections on Traumatic Extremity Fracture Patients.” Source: **AHRQ (R03HS027218)** 2020; \$99,135 (Multiple PI; Admin mPI: O’Hara NN).
- “Innovations in Recovery through Infrastructure Support (IRIS).” Source: **NIH/NIDA (R24DA051975)** 2020; \$2,248,386 (Co-I; mPIs: Unick GJ, Tuten LM).
- “Communicating about COVID-19 Testing to Underrepresented Populations.” Source: US FDA 2020; \$300,000 (PI).
- “Improving FDA Health Communications with Older Women Regarding FDA Regulated Products – Phase 1b.” Source: US FDA 2019; \$432,086 (PI).
- “Building Trust to Enhance Diversity in Aging Research.” Source: **NIH/NIA (R24AG063728)** 2019; \$2,621,036 (Administrative PI; mPI: Magaziner J).
- “Capacity Building for a Learning PCOR System.” Source: PCORI 2019; \$250,000 (PI).
- “Johns Hopkins Institute for Clinical and Translational Research.” Source: **NIH/NCATS (UL1TR003098)** 2019; \$15,388,930 (Co-Lead for Community & Collaboration Core; PI: Ford D).
- “Integrated Tele-Sleep Mobile Platform.” Source: Medical Technology Enterprise Consortium 2019; \$2,000,000 (Co-I; PI: Wickwire E).
- “Agency for Health Research and Quality (AHRQ) R24 Conference Grant Program.” Source: **AHRQ (R13HS026092)** 2018; \$97,994 (PI).
- “Peer Review: Mapping and Resourcing Patient and Stakeholder Engagement Along 10-Step PCOR Continuum Framework.” Source: PCORI (Modification of contract ME-1409-20792) 2018; \$58,126 (PI).
- “Family Social Inclusion: Learning from Brazil to Baltimore.” Source: Robert Wood Johnson Foundation 2018; \$239,973 (Co-I; PI: Ogbolu Y).
- “PCOR Training for Minority Practitioners and their Patients.” Source: PCORI 2018; \$187,392 (Co-I; PI: Cooke C).
- “Improving FDA Health Communications with Older Women Regarding FDA Regulated Products.” Source: US FDA 2018; \$162,000 (PI).
- “Center for Patient-Focused Value Assessment.” Source: PhRMA Foundation 2018; \$500,000 (Co-I; PI: dosReis S).

- “PREPARE: Pragmatic Randomized Trial Evaluating Preoperative Antiseptic Skin Solutions in Fractured Extremities.” Source: PCORI (contract PCS-1609-36512) 2017; \$10,799,706 (Co-Lead for Stakeholder Engagement; PI: Slobogean G).
- “Aqueous-PREP: A Pragmatic Randomized trial Evaluating Pre-operative aqueous antiseptic skin solutions in open fractures.” Source: US Department of Defense - Award W81XWH-17-1-0702.” PCORI 2017; \$2,990,463 (Co-I; PI: Slobogean G).
- “Direct Medical Costs of Alpha-1 Antitrypsin Deficiency-Associated Chronic Obstructive Pulmonary Disease in the United States.” Source: Alpha-1 Foundation 2017; \$157,753 (PI).
- “Co-developing Sustainable Learning Health Care Communities using CBPR.” Source: Merck 2017; \$250,000 (PI).
- “A Randomized Pragmatic Trial Comparing the Complications and Safety of Blood Clot Prevention Medicines Used in Orthopedic Trauma Patients.” Source: PCORI (contract PCS-1511-32745) 2016; \$11,198,854 (Co-Lead for Stakeholder Engagement; PI: O’Toole R).
- “Alpha-1 Antitrypsin Deficiency Costs and BIA.” Source: AlphaNet, Inc. 2016; \$191,515 (PI).
- “Integration of cancer health activities into African American churches.” Source: American Cancer Society 2016; \$1,667,000 (Subcontract PI; PI: Holt CL).
- “Community-Academic Partnerships to Improve Birth Outcomes: B’more for Healthy Babies Mondawmin.” Source: American Association of Medical Colleges 2016; \$300,000 (Co-I; PI: Lane WG).
- “Pragmatic Randomized Trial of Proton vs. Photon Therapy for Patients with Non-Metastatic Breast Cancer Receiving Comprehensive Nodal Radiation: A Radiotherapy Comparative Effectiveness (RADCOMP) Trial.” Source: PCORI (contract PCS-1403-12804) 2015; \$11,962,936 (Subcontract PI for Stakeholder Engagement; PI: Bekelman J).
- “Maryland Faith Community Health Network.” Source: Multiple Foundations 2015; \$25,000 (Subcontract PI as Head of Internal Evaluation; PI: DeMarco V).
- “Mapping and Resourcing Patient and Stakeholder Engagement Along 10-Step PCOR Continuum Framework.” Source: PCORI (contract ME-1409-20792) 2015; \$1,214,861 (PI).
- “PCOR Training for “Non-usual Suspects: A Program for Rare Disease Patient Advocates.” Source: PCORI 2015; \$248,937 (Co-I; PI: Perfetto EM).
- “Publication of Studies on Real-World Evidence: Journal Editor Perceptions and Approaches.” Source: National Pharmaceutical Council 2015; \$148,251 (Co-PI with Perfetto EM).
- “Modeling long-term versus short-term ICERs by incorporating pricing dynamics.” Source: Novartis 2015; \$107,588 (PI).
- “Genomic Diagnosis and Individualized Therapy of Highly Penetrant Genetic Diabetes.” Source: **NIH/NHGRI (U01HG007775)** 2014; \$3,732,721 (Co-I; PI: Pollin T).
- “Methods for Prioritizing Surrogate Desired Health Outcomes for Patients.” Source: PCORI (contract ME-1306-01511) 2014; \$937,520 (Co-I; PI: dosReis S).
- “Patient-Centered Research for Outcomes, Effectiveness, and Measurement (PROEM): A Center of Excellence in Comparative Effectiveness and Patient-Centered Outcomes Research Training.” Source: PhRMA Foundation 2014; \$250,000 (Co-I; PI: Perfetto EM).
- “PATIENTS: PATient-centered Involvement in Evaluating effectiveNess of TreatmentS.” Source: **AHRQ (R24HS022135)** 2013; \$4,940,615 (PI).
- “West Baltimore Primary Care Access Collaborative (WBPCAC) Health Enterprise Zone (HEZ).” Source: State of Maryland 2013; \$5,000,000 (Subcontract PI as Head of Internal Evaluation; PI: Ross SL).
- “Promise Heights: A Promise Neighborhood in Baltimore, MD.” Source: **US Department of Education (U215P120025)** 2013; \$499,735 (Co-I; PI: Mayden B).
- “GPC Endocrine-Metabolic (Diabetes) Consortium.” Source: CMTP 2013; \$30,000 (PI).
- “Heterogeneous Treatment Effects: DNA vs. MSA.” Source: National Pharmaceutical Council 2012; \$185,562 (PI).
- “Cancer Related Bone Metastasis.” Source: Amgen Inc. 2011; \$568,950 (Co-I; PI: Hussain A).
- “Interviews to Identify Evidence for Eliciting the Hard to Reach Patient’s Perspective in PCOR.” Source: PCORI (contract PCORI-SOL-PCWG-002) 2011; \$125,000 (PI).

- “Modifying Contact Precautions for MRSA in Extended Care.” Source: **AHRQ (R18HS019979-01A1)** 2011; (Economist; PI: Roghmann MC).
- “Colon Cancer SEER-Medicare CER: HEOR.” Source: Bayer HealthCare Pharmaceuticals 2011; \$398,700 (PI).
- “Prostate Cancer SEER-Medicare CER: HEOR.” Source: Bayer HealthCare Pharmaceuticals 2011; \$393,300 (Co-PI; PI: Onukwugha E).
- “Treatment Selection and CER of Liver Cancer Treatment.” Source: Bayer HealthCare Pharmaceuticals 2010; \$399,999 (Co-PI; PI: Shaya FT).
- “Interpreting IV Estimates with Treatment Effect Heterogeneity: ACE/ARBs & Race.” Source: **NIH/NIA (RC4AG038635)** 2010; \$1,458,033 (Co-I; PI: Brooks JM).
- “Do Bayesian Adaptive Trials Offer Advantages for CER?” Source: **NIH/NHLBI (RC4HL106363)** 2010; \$1,499,866 (PI).
- “The Value of Atorvastatin over the Product Life Cycle.” Source: Pfizer 2010; \$84,000 (PI).
- “Cost Study of Linezolid versus Vancomycin among Hospitalized Patients.” Source: Pfizer 2010; \$235,224 (PI).
- “FDA/CDER University of Maryland Basic Topics in Statistics: ANOVA, ANCOVA, Linear Regression, Logistics Regression and Survival Analysis.” Source: Food and Drug Administration (FDA) 2010; \$30,000 (PI).
- “Patient Flow and VTE Incidence among Colon Cancer Patients.” Source: Sanofi-Aventis 2009; \$237,600 (PI).
- “Analysis of the Baltimore Community Health Partnership (CHP): Feasibility and Effectiveness of Baltimore Community-based Engagement in MTM Adherence.” Source: Sanofi-Aventis 2009; \$244,026 (Multiple PIs: Mullins CD, Shaya FT).
- “The Comparative Effectiveness of Tiotropium Plus Long-Acting  $\beta$ 2-agonist in the Treatment of Chronic Obstructive Pulmonary Disease at the Veterans Affairs Maryland Health Care System.” Source: Novartis 2009; \$132,384 (Co-I; PI: Onukwugha E).
- “Treatment and Survival among Men Diagnosed with Prostate Cancer: An examination of newer management strategies and therapies.” Source: Sanofi-Aventis 2009; \$421,809 (Multiple PIs: Mullins CD, Onukwugha E).
- “Treatment Patterns, Outcomes, and Costs Related to Colon Cancer.” Source: Sanofi-Aventis 2009; \$319,337 (Multiple PIs: Mullins CD, Onukwugha E).
- “The Economic Burden of Overactive Bladder Symptoms.” Source: Pfizer, Inc. 2008; \$113,605 (Co-I; PI: Onukwugha E).
- “FDA/CDER University of Maryland Basic Topics in Statistics: ANOVA, ANCOVA, Linear Regression, Logistics Regression and Survival Analysis.” Source: Food and Drug Administration (FDA) 2008; \$30,000 (PI).
- “Response to Medicare Reimbursement Policy Change by Minority and All ESRD Patients.” Source: **NIH/NIA (R21AG033791)** 2008; \$325,433 (PI).
- “Computerized Decision Support at the Time of a Prescription.” Source: Department of Veterans Affairs Health Services Research and Development Service (HSR&D) 2008; \$110,810 (Co-I; DeLisle S).
- “Maryland Men’s CardioVascular Health Promotion Program (MVP).” Source: CareFirst BlueCross BlueShield 2008; \$1,000,000 (Co-I; PI: Shaya FT).
- “Treatment Patterns, Costs, and Outcomes across Various Cancer Sites.” Source: Sanofi-Aventis 2007; \$690,000 (PI).
- “Improving Quality through Health IT: Testing the Feasibility and Assessing the Impact of Using Existing Health IT Infrastructure for Better Care Delivery.” Source: **AHRQ HHS A290200600022, Task Order #3** 2007; \$393,457 (Consultant; PI: Hasnain-Wynia R).
- “Antithrombotic Therapy Outcomes Research Compendium.” Source: Pfizer 2007; \$129,357 (PI).
- “Linezolid vs. Vancomycin Outcomes among MRSA Patients.” Source: Pfizer 2007; \$322,676 (PI).
- “White Paper on Cost/QALY Threshold.” Source: GlaxoSmithKline 2007; \$55,000 (PI).

- “Health care utilization and spending among a commercially-insured population using antipsychotics: the influence of drug characteristics.” Source: Bristol-Myers Squibb 2007; \$144,160 (Co-I; PI: Simoni-Wastila L).
- “Barriers to Preemptive Kidney Transplantation.” Source National Kidney Foundation 2007; \$25,000 (Co-I; PI: Pradel FG).
- “Adverse Event Costs in Osteoarthritis NSAID Users.” Source: Novartis 2007; \$124,314 (PI).
- “Sutent Budget Impact Model and Dossier.” Source: Pfizer 2006; \$80,711 (PI).
- “Interface for Sutent Budget Impact Model.” Source: Pfizer 2006; \$29,383 (PI).
- “White Paper on Access to Drugs in the Medicare Part D era.” Source: Pfizer 2006; \$18,000 (PI).
- “Treatment Patterns, Costs, and Outcomes of Chemotherapy in Prostate and Lung Cancers.” Source: Sanofi-Aventis 2006; \$488,464 (PI).
- “Use and Outcomes of Novel Chemotherapeutic Agents in Colorectal Cancer” Source: Sanofi-Aventis 2006; \$650,514 (PI).
- “Pharmacy Dispensing Cost Analysis.” Source: Maryland Department of Health and Mental Hygiene (DHMH) 2006; \$24,395 (PI).
- “Pharmaceutical Health Policy Seminar Series.” Source: Pfizer 2006; \$50,000 (PI).
- “Cost-effectiveness Analysis of Sutent versus Interferon- $\alpha$  as First-line Treatment for Metastatic Renal Cell Carcinoma.” Source: Pfizer 2006; \$60,000 (PI).
- “Cost Per Successfully Treated Patient (CPSTP) Estimates for Medicaid Patients.” Source: Pfizer 2006; \$45,578 (PI).
- “Formulary Tier Placement for Commonly Prescribed Drugs: Benchmarking and Creation of an Accessibility Index.” Source: Pfizer 2005; \$40,000 (PI).
- “Specialty Injectables Benchmarking Study Part 2.” Source: BlueCross BlueShield Association (BCBSA) 2004-2005; \$140,090 (PI).
- “Center Effects Influence on Anemia and Mortality.” Source: **NIH/NIDDK (R21DK064126)** 2004; \$62,766 = subcontract amount (Co-I; PI: Fink JC).
- “Baltimore Partnership Program to Reduce Cardiovascular Disparities.” Source: **NIH/NHLBI (5U01HL079151)** 2004; \$6,000,000 (Co-I; PI: Saunders ET).
- “Hypertension Telemanagement in African Americans.” Source: **NIH/NHLBI (R01HL078579)** 2004; \$2,376,489 (Co-I; PI: Finkelstein J).
- “Starting Dose and Persistence of Geodon<sup>®</sup> Among Medicaid Patients.” Source: Pfizer 2004; \$240,850 (PI).
- “Evaluation of an Early Educational Program to Increase Live Kidney Donations.” Source: **HRSA R39OT03408** 2004; \$372,706 (Co-PI; PI: Bartlett ST).
- “Schizophrenia/Bipolar Outcomes Research Compendium.” Source: Pfizer 2004; \$55,000 (PI).
- “Antifungal Outcomes Research Compendium.” Source: Pfizer 2004; \$45,205 (PI).
- “Injectables Expenditure Variations/Benchmarking Study.” Source: BlueCross BlueShield Association (BCBSA) 2003; \$68,000 (PI).
- “University of Maryland Center for Health Disparities Research, Training, and Outreach” Source: **NIH (P60MD000532)** 2003; \$4,282,056 (Shared Resources Core Director; PI: Wilson D).
- “Evaluation of MedBank Demonstration Project.” Source: MedBank of Maryland, Inc. 2003; \$50,000 (PI).
- “MRSA Outcomes Research Compendium.” Source: Pfizer 2003; \$45,205 (Co-PI; PI: Pradel FG).
- “Overactive Bladder and urge urinary incontinence Outcomes Research Compendium.” Source: Pfizer 2003; \$45,205 (PI).
- “Switching and Discontinuation of SSRI Therapy.” Source: Pfizer 2003; \$139,570 (PI).
- “Determinants of Acceptability for Migraine Therapy.” Source: Pfizer 2002; \$50,000 (PI).
- “Migraine Budget Impact Model Interface.” Source: Pfizer 2002; \$40,000 (PI).
- “White Paper on the Value of Specialty Certification in Pharmacy.” Source: APhA/Board of Pharmaceutical Specialties 2002; \$29,497 (Co-I; PI: Pradel FG).

- “Combination Therapy Supplement to Eplerenone CEA Grant.” Source: Pharmacia 2002; \$39,704 (PI).
- “Migraine Treatment Outcomes Compendium.” Source: Pfizer 2002; \$40,000 (PI).
- “Compilation of SOURCE Document.” Source: Pharmacia 2002; \$20,384 (Co-PI; PI: Pradel FG).
- “Variations in the Cost of Cardiovascular events by Country.” Source: Pharmacia 2001; \$28,306 (PI).
- “Economic Impact of Uncontrolled Hypertension among chronic arthritis patients: Implications for African Americans.” Source: Pharmacia 2001; \$135,368 (PI).
- “White Paper on Direct-To-Consumer Advertising.” Source: Kaiser Family Foundation 2000; \$22,930 (Co-PI; PI: Palumbo FB).
- “Annotated Bibliography for Treatment of Congestive Heart Failure (CHF).” Source: USP 2000; \$66,700 (PI).
- “Eplerenone CEA.” Source: Searle 2000; \$347,300. (PI).
- “Living Donation & Laparoscopic Nephrectomy.” Source: Roche Laboratories 2000; \$130,000 (Co-PI; PI: Bartlett ST).
- “Impact of Pipeline Drugs on Future Pharmacy Costs.” Source: HIAA/BCBSA 2000; \$50,012 (PI).
- “Prescription Costs for Medicare Beneficiaries: What We Know and What We Need to Know.” Source: DHHS, Assistant Secretary for Policy and Evaluation. Contract No. SA-00-0064 2000; \$24,598 (Co-I; PI: Stuart B).
- “Adult Medicaid Patients’ Dental Visits in EDs.” Source: AHCPR (1 R01 HS10129-01) 1999; \$139,853 (Co-I; PI: Cohen L).
- “Alpha 1-Antitrypsin Deficiency Cost of Illness Model.” Source: Alpha One Foundation 1998; \$32,956 (PI).
- “Cost of IVIG Therapy for PIDDs by Site of Care.” Source: Immune Deficiency Foundation 1998; \$16,100 (PI).
- “An Economic Analysis of Alternative Treatment Regimens for Acromegaly.” Source: Novartis Pharmaceutical Corp. 1998; \$27,000 (Co-I; PI: Stuart B).
- “ZEBRA and EORTC Economic Evaluation.” Source: Zeneca Pharmaceuticals 1998; \$15,000 (PI).
- “Abciximab Outcomes/Cost Analysis.” Source: School of Pharmacy DRIF Award 1998; \$9,865 (PI).
- “Utilization and Cost of IVIG Therapy for PIDDs.” Source: Immune Deficiency Foundation 1998; \$16,675 (PI).
- “Econometric Model of Annual Expenditures for Cancer.” Source: School of Medicine DRIF Award 1998; \$15,000 (Co-I; PI: Brooks S).
- “Pharmacoeconomic Analysis of CAP Program.” Source: Pharmacia & Upjohn (In conjunction with BCBS of MD, BCBS of the National Capital Area, MAMSI, and NYLCare) 1997; \$41,254 (PI).
- “Evaluation of Emergency Medical Systems (EMS) Triage of Elderly Trauma Patients.” Source: UMAB Geriatrics and Gerontology Education and Research (GGEAR) Program 1997; \$25,000 (Co-PI; PI: Scott J).
- “Pharmaceutical Research Monitoring Project.” Source: Merck, Novartis, Pfizer, Pharmacia-Upjohn, and Wyeth-Ayerst 1997; \$25,000/firm = \$125,000 (PI on two; Co-I on three).
- “Update of Pharmacoeconomic Guidelines/Principle List.” Source: Health Outcomes Work Group at PhRMA 1997; \$14,500 (PI).
- “Unrestricted educational grant for development of economic models.” Source: Wyeth-Ayerst Research 1996; \$15,000 (PI).
- “Cost-Benefit Analysis of the Community Health Worker Initiative.” Source: UMAB Geriatrics and Gerontology Education and Research (GGEAR) Program 1996; \$19,499 (PI).

“Pharmaceutical Care Outcomes in a Well-Elderly and Frail-Elderly Continuing Care Retirement Community Population Using Multiple Medications.” Source: UMB Geriatrics and Gerontology Education and Research (GGEAR) Program 1996; \$18,886 (Co-PI; PI: Feinberg M).

“Medicaid Drug Rebates, Pharmaceutical Prices and Unintended Consequences of Health Policy Reform.” Source: Duke University Center for Aging Studies/The Glaxo Award in Long Term Care Research (Doctoral Dissertation Grant) 1992; \$2,000.

### **Funded Grants as Mentor**

“UMB Institute for Clinical & Translational Research (ICTR) KL2 Mentored Career Development Scholar” Source: **ICTR/CTSA (KL2TR003099)** 2022-2025; Faculty mentee = Yinin Hu.

“The ENRICH Study: Engaging Community and Municipal Services to Promote High Quality Aging in Place After Hip Fracture” Source: **NIA (K76AG074926)** 09/30/21-8/31/26; Faculty mentee = Jason R. Falvey.

“UMB Institute for Clinical & Translational Research (ICTR) KL2 Mentored Career Development Scholar” Source: **ICTR/CTSA (KL2TR003099)** 2019-2022; Faculty mentee = Sydnee Chavis.

“UMB Institute for Clinical & Translational Research (ICTR) KL2 Mentored Career Development Scholar” Source: **ICTR/CTSA (KL2TR003099)** 2019-2022; Faculty mentee = Jaih Craddock.

“Budget Impact of Antidiabetic Formulary Changes” Source: **AHRQ (F32HS024857)** 11/01/16-10/31/17; Postdoctoral mentee = Anna Hung.

“Prioritizing Quality Improvement for the Treatment of Psychiatric Disturbances Following Traumatic Brain Injury” Source: **AHRQ (K01HS024560)** 03/01/16-2/28/21; Faculty mentee = Jennifer S. Albrecht.

“Enhancing Clinical Guideline Development via Patient and Stakeholder Engagement” Source: **AHRQ (K08HS024159)** 07/01/15-6/30/20; Faculty mentee = Melissa J. Armstrong.

“Impact of Medicare Contracting Reform on Colon Cancer Treatment, Survival, and Costs” Source: **AHRQ (R36HS022387-01A1)** 04/01/14-3/31/15; Predoctoral mentee = Joseph Vandigo.

“Value of Information: The Contribution of the PSA Screening Test to Prostate Cancer Diagnosis” Predoctoral Fellowship in Health Outcomes. Source: Pharmaceutical Research and Manufacturers of America Foundation 06/01/12-05/31/13; Predoctoral mentee = Emily Reese.

“Discharges against Medical Advice among Cardiovascular Disease Patients” Source: **NIH (1K12RR023250-01)** 07/01/06-06/30/11; PI = Alan Shuldiner, MD; Faculty mentee = Ebere Onukwughu.

“Assessing Anticoagulation Therapy Management Services” Source: **AHRQ (5F32HS016275-01)** 02/01/06-6/30/07; Postdoctoral mentee = Danielle Chauncey.

“The Application of the Probabilistic Reduction Approach to Health Econometric Model Specification and Testing.” Postdoctoral Fellowship in Health Outcomes. Source: Pharmaceutical Research and Manufacturers of America Foundation 07/01/05-06/30/06; Postdoctoral mentee = Ebere Akobundu.

### **Funded Fellowship Contracts**

“CORE Research Fellowship.” Sources: Merck Sharp and Dohme, Inc; \$210,692 (PI). **Funded for 2 years 20016-2018.**

“Pharmacoeconomics/Formulary Management Postdoctoral Fellowship between the University of Maryland School of Pharmacy and the Baltimore Veterans Administration.” Sources: Elan, Sanofi-Aventis; \$75,000 (PI). **Funded for 4 years 2005-2009.**

“Pharmacoeconomics/Formulary Management Postdoctoral Fellowship between the University of Maryland School of Pharmacy and CareFirst BlueCross BlueShield (BCBS).” Sources: Pharmacia, Pfizer, Takeda; \$75,000 (PI). **Funded for 7 consecutive years 2001-2008.**

“Pharmacoeconomics/Pain Management Postdoctoral Fellowship.” Source: Alpharma; \$75,000 (PI). **Funded for 1 year 2007-2008.**

- “Pharmacoeconomics and Medicaid Formulary Management Postdoctoral Fellowship between the University of Maryland School of Pharmacy and various Medicaid Plans.” Sources: Novartis, Pharmacia, Pfizer; \$75,000 (Co-PI; PI = Fadia T. Shaya, PhD, MPH). **Funded for 5 consecutive years 2002-2007.**
- “Pharmacoeconomics/Formulary Management Postdoctoral Fellowship between the University of Maryland School of Pharmacy and the Mid Atlantic Medical Services, Inc. (MAMSI).” Sources: Pharmacia, Eli Lilly; Pfizer; \$65,000 (PI). **Funded for 5 consecutive years 2000-2005.**
- “Pharmacoeconomics/ Formulary Management Postdoctoral Fellowship between the University of Maryland School of Pharmacy and the Maryland Health Services Cost Review Commission (HSCRC).” Source: MedBank of Maryland, Inc.; \$55,000 (PI). **Funded for 1 year 2004.**
- “Pfizer Predoctoral Fellowship in Pharmacoeconomics and Outcomes Research.” Source: Pfizer; \$43,200 (PI). **Funded for 1 year 2003.**

## PUBLICATIONS

- Roth EG, Kim J, Slejko JF, et al. Constructing Health State Descriptions for Low-Risk Thyroid Cancer: Stakeholder Engagement and Formative Qualitative Research. *Patient* 2023; *forthcoming*.
- Chavis SE, Roth E, Dababnah S, Tepper V, Badawi DG, Mullins CD. Qualitative inquiry from multiple perspectives of barriers and facilitators of oral health care for adults with disabilities Special Care in Dentistry 2023; *forthcoming*.
- Ma EZ, Kuo JH, Malek R, et al. Total thyroidectomy is more cost-effective than radioactive iodine as an alternative to antithyroid medication for Graves' disease. *Surgery* 2023;173(1): 193-200.
- Gimie AM, Melgar Castillo AI, Mullins CD, Falvey JR. Epidemiology of public transportation use among older adults in the United States. *Journal of the American Geriatrics Society* 2022; 70(12):3549-3559.
- Gitajn IL, Werth P, Fernandes E, et al. Association of Patient-Level and Hospital-Level Factors With Timely Fracture Care by Race. *JAMA Network Open* 2022;5(11):e2244357.
- Mullins CD, Pantalone KM, Betts KA, et al. CKD Progression and Economic Burden in Individuals With CKD Associated With Type 2 Diabetes. *Kidney Medicine* 2022;4(11):100532.
- Rosen MA, Himmelfarb CD, Bauer T, Mullins CD. Expanding the learning health system model to be health literate. *Journal of Comparative Effectiveness Research* 2022;11(15):1079-1083.
- O'Hara NN, Heels-Ansdell D, Bzovsky S, Dodds S, Thabane L, Bhandari M, Guyatt G, Devereaux PJ, Slobogean GP, Sprague S; PREP-IT Investigators. A pragmatic randomized trial evaluating pre-operative aqueous antiseptic skin solutions in open fractures (Aqueous- PREP): statistical analysis plan. *Trials* 2022;23(1):772.
- Gressler LE, Marinac-Dabic D, dosReis S, Goodney P, Mullins CD, Shaya F. Creation of objective performance criteria among medical devices. *BMJ Surgery, Interventions, & Health Technologies* 2022;4(1):e000106.
- Natafji N, Ladeji O, Blackwell S, Hong YD, Graham G, Cort M, Mullins CD. Similar values, different expectations: How do patients and providers view 'health' and perceive the healthcare experience? *Health Expectations* 2022;25(4):1517-1528.
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## Reports

- Stuart B, Brandt N, Briesacher B, Fahlman C, Mullins D, Palumbo F, Pizarro J, Stuart L. Issues in Prescription Drug Coverage, Pricing, Utilization, and Spending: What We Know and Need to Know. *A report for the US Department of Health and Human Services (HHS), Office of the Assistant Secretary for Policy and Evaluation, Office of Health Policy*, February 18, 2000.
- Mullins CD, Palumbo F, Stuart B. Projections of Drug Approvals, Patent Expirations, and Generic Entry from 2000 to 2004. *A background report for the US Department of Health and Human Services (HHS) conference on: What is known and what needs to be known about prescription drug costs and pricing practices*. August 8-9, 2000, Georgetown University, Washington, DC.

## Book Reviews

- Mullins CD. *Review of Peter J. Neumann's Using Cost-Effectiveness Analysis to Improve Health Care: Opportunities and Barriers in Value in Health* 2006; 9(2):140.
- Mullins CD. *Review of Robert M. Sloane, et al.'s Introduction to Healthcare Delivery Organizations: Functions and Management, Fourth edition in American Journal of Pharmaceutical Education* Spring 2000; 64:106.
- Mullins CD. *Review of Stuart O. Schweitzer's Pharmaceutical Economics and Policy in American Journal of Pharmaceutical Education* Spring 1998; 62:104-5.

## PRESENTATIONS

- “The PATIENTS Program, Methods for Patient Engagement, and Trustworthiness” keynote address presented at the Network of the National Library of Medicine (NNLM) Advancing Engagement through Research: New Trends and Opportunities NNLM Virtual Symposium, March 2022.
- “Building Effective Multi-Stakeholder Research Teams: Resources for Engagement Success” pre-recorded virtual panel at the AcademyHealth 2021 Virtual Annual Research Meeting (ARM), June 2021.
- “The Critical Role of Health Systems and Community Networks” panelist at PhRMA’s Partnering for Health Equity: *Advancing Research through Representative Clinical Trials* Virtual Event, June 2021.
- “What is Good Evidence? The Placebo Effect and Research Quality” panelist at the 3rd International Conference of the Society for Interdisciplinary Placebo Studies (SIPS), May 2021.
- “How Can Medical Technology Researchers Engage Underrepresented Populations during a Pandemic Such As COVID-19?” session moderator at Virtual ISPOR 2021, May 2021.
- “Art and Science of Building Trust Among Stakeholders and Building Bridges Between Data Sources” panel at the FDA’s virtual Public Meeting “Patient-Generated Health Data (PGHD) Throughout the Total Product Life Cycle of Medical Devices,” May 2021.
- “Being a Credible Messenger without Losing Your Credibility” at an Institute for Public Health Innovation webinar, Baltimore, MD, April 2021.
- “Budget Impact Analysis I: A 6-Step Approach” short course at ISPOR Conferences (2014-2020), the ISPOR European Conferences (2013-2021), ISPOR Latin America Conference (2011, 2013, 2017, and 2019) and the ISPOR Asia Pacific Conferences (2012, 2018, and 2020).
- “Community-engaged and patient-centered research before, during, and after COVID-19” at the Johns Hopkins Welch Center Grand Rounds; repeat of the University of Maryland Medical Grand Rounds ICTR Lecture Series, Baltimore, MD, April 2020.
- “Creating a Learning PCOR System” National Maternal Health PCOR Network Webinar, March 2020.
- “High-Quality Evidence Based Approaches to Patient Engagement [this Master Class was offered at two back-to-back times]” at the 2020 CMS Quality Conference, Baltimore, MD, February 2020.
- “BFCC Mini Plenary: Opening Session Setting the Stage” at the 2020 CMS Quality Conference, Baltimore, MD, February 2020.
- “The PATIENTS Program and our PCOR/CER Experiences from the Field” Pre-Conference Diagnostic Researcher Workshop at the Diagnostic Error in Medicine 12th International Conference, Washington, DC, November 2019.
- “Patient Science and Engagement” Pre-Meeting Workshop Chair at the 10th MDEpiNet Annual Meeting, Silver Spring, MD, October 2019.
- “Session III: Patient Science and Engagement Efforts” Panel Moderator at the 10th MDEpiNet Annual Meeting, Silver Spring, MD, October 2019.
- “The PATIENTS Program and our 10-Step Framework for Continuous Patient Engagement” at the Maryland Board of Pharmacy Annual Continuing Education (CE) Breakfast, Towson, MD, October 2019.
- “Pharmapreneurship™—Disruptive Innovation in Pharmacy” at the American Association of Colleges of Pharmacy (AACCP) Annual Meeting, Chicago, IL, July 2019.
- “Funding for Improving Patient and Community Health” at the CASE Annual Conference for Corporate and Foundation Relations Officers, Washington, DC, May 2019.
- “Back to the Future in *Value in Health*” course presented at ISPOR 2019 Conference, New Orleans, LA, May 2019.

- “Engaging Community Partners to Transform Learning Healthcare Systems into Learning Health Care Communities” Keynote on Community Based Research at Society of Behavioral Medicine’s 40<sup>th</sup> Annual Meeting & Scientific Sessions, Washington, DC, March 2019.
- “Re-Imagining Healthcare: Making Learning Health Systems More Community Based” Keynote address at the University of Texas Health Science Center at San Antonio’s Re-Imagining Healthcare: A Lifecourse Approach to Community Based Care Conference, San Antonio, TX, November 2018.
- “Community-Engaged Research: Making Clinical and Translational Research More Meaningful to Patients and Communities” at the University of Maryland Medical Grand Rounds ICTR Lecture Series, Baltimore, MD, September 2018.
- “An Overview of The PATIENTS Program” at the American Association of College of Pharmacy and Research!America, Arlington, VA, September 2018 ; also presented at BCBSA Pharmacy and Medical Policy Committee (PMPC) Meeting, Washington, DC, September 2018; and at Baltimore County Association of Senior Citizens Organizations’ Educational Forum and Health & Wellness Fair, Randallstown, MD, September 2018.
- “Case Study #3: The RADCOMP Consortium Experience: Patient Engagement in a Large Pragmatic Randomized Clinical Trial” at The University of Maryland Center of Excellence in Regulatory Science and Innovation (M-CERSI) Medical Devices - Patient Engagement in Real World Evidence (RWE): Lessons Learned and Best Practices Conference, Baltimore, MD, September 2018.
- “From Community-Based Participatory Research to Community-Based Healing” at the IPFCC’s 8th International Conference on Patient- and Family-Centered Care, Baltimore, MD, May 2018.
- “Real-World Evidence, Digital Health, and the New Landscape for Health Decision Making” ISPOR 2018 Conference Co-Chair, Baltimore, MD, May 2018.
- “Second Plenary Session: Digital Health – Help or Hype?” Moderator at ISPOR 2018, Baltimore, MD, May 2018.
- “Transforming Health Care: Making Learning Health Systems more Community Base” at the Henry Ford Patient Engaged Research Center 2nd Annual Patient Advisor Retreat; Detroit, MI, May 2018.
- “Session III: Morning Synthesis Discussion” panel at the FDA and the Duke-Margolis Center for Health Policy Public Workshop: Evaluating Inclusion and Exclusion Criteria in Clinical Trials; Washington, DC, April 2018.
- “Patient-Centered Discovery” presented as the Coy W. Waller Distinguished Lecture at the University of Mississippi, University, MS, February 2018; also presented at the Howard University School of Pharmacy Dean’s Lectureship series; Washington, DC, February 2018.
- “Capacity Building and Sustainability: An Academic Perspective” presented at the FDA UCSF-CERSI Patient Preference Workshop, Silver Spring, MD, December 2017.
- “Introduction to Designing Authentic and Impactful Patient-Centered Outcomes Research” short course presented at the ISPOR 20<sup>th</sup> Annual European Congress, Glasgow, Scotland, November 2017.
- “Power Sharing and Collaboration in Community Engaged Research” presented at the Johns Hopkins Nuts & Bolts of Community Engaged Research Workshop, Baltimore, MD, December 2017.
- “Keynote Address” at PCORI Workshop at Indiana University, Indianapolis, IN, October 2017.
- “Medical Editor Panel” Moderator at the ISPOR/ISPE Summit on Real-World Evidence in Health Care Decision Making, Washington, DC, October 2017.
- “Transparency Recommendations” presented at the ISPOR/ISPE Summit on Real-World Evidence in Health Care Decision Making, Washington, DC, October 2017.
- “Budget Impact Models: How Payers Can Build and Validate” presented at AMCP Nexus, Dallas, TX, October 2017.

- “KEYNOTE: From Community-Based Participatory Research to Community-Based Healing;” at the University of Texas Health Science Center at San Antonio’s Community Engagement and Healthcare Improvement Conference, San Antonio, TX, September 2017.
- “Building a Budget Impact Model: Budget Impact Analysis Training”, ISPOR In-Person Training Program, New Brunswick, NJ, September 2017. Also presented in Durham, NC, November 2016.
- “OPENING MASTER CLASS: Patients & Advocacy Integrated into the Ethos of the Pharmaceutical Corporation” at the 6th Annual Strengthening Patient Advocacy Relations Conference, Baltimore, MD, July 2017.
- “Evidence base: community values, engagement, and health disparity” at the National Academy of Medicine’s Care Culture and Decision-Making Innovation Collaborative meeting, Washington, DC, May 2017.
- “Engaging Patients in Research Process” roundtable facilitator at the 2017 American Pharmacists Association (APhA) Annual Meeting, San Francisco, CA, March 2017.
- “ESAS Keynote: Making Community-Based Participatory Research Work in Health Care” presented at the 2017 American Pharmacists Association (APhA) Annual Meeting, San Francisco, CA, March 2017.
- “How the multi-stakeholder movement can lead to a better world of healthcare” presented at the Evidence-Based Guidelines Affecting Policy, Practice and Stakeholders (E-GAPPS III) Conference, New York, NY, March 2017.
- “Engagement in the Community” presented at the 2016 PCORI Annual Meeting: Pre-Conference for Ambassadors and Patient Scholarships, National Harbor, MD, November 2016.
- “Does Conservatism by Registration Authorities in their Requirements for Outcome Measures in Pain Trials Hamper Drug Development in that Area?” issue panel presented at the ISPOR 19<sup>th</sup> Annual European Congress, Vienna, Austria, October 2016.
- “Metrics and Measurement in Community Engaged Research: How Do We Assess Authenticity?” presented at the Advancing the Science of Community Engaged Research: Innovative and Effective Methods of Stakeholder Engagement in Translational Research, Washington, DC, August 2016.
- “Stakeholder Engagement and Communication” roundtable facilitator at the 2016 American Pharmacists Association (APhA) Annual Meeting, Baltimore, MD, March 2016.
- “Continuous Patient Engagement: How Do We Partner with Patients Throughout the Research Life Cycle?” panel moderator at the ISPOR 20<sup>th</sup> Annual International Meeting, Philadelphia, PA, May 2015.
- “Real World Evidence – Defining What “Good” Looks Like” panel member at the 2nd Annual Green Park Collaborative-USA Meeting, Baltimore, MD, April 2015.
- “Patient Differences: Biologic and Non-Biologic Factors” presented at the National Minority Quality Forum (NMQF) Conference on *Biodiversity and Health Care Quality: The 21st Century Challenge*, Washington, DC, April 2015.
- “PDUFA V Clinical Outcomes Assessment Development and Implementation: Opportunities and Challenges Public Workshop” Session 4: Strategies Going Forward panel member at the Food and Drug Administration (FDA) Meeting, Silver Spring, MD, April 2015.
- “Engaging multiple stakeholders in research/community based participatory research” roundtable facilitator at the 2015 American Pharmacists Association (APhA) Annual Meeting, San Diego, CA, March 2015.
- “Building sustainable PCOR partnerships with communities” presented at the University of North Carolina’s Cancer Outcomes Program Seminar, Chapel Hill, NC, March 2015.
- “Real-world treatment patterns and the uptake of biologics in elderly Medicare patients with metastatic colon cancer” (poster) presented at the ASCO 2014 Gastrointestinal Cancers Symposium, San Francisco, CA, January 2015.
- “Patient-Centered Outcomes Research Grand Rounds” presented at the Henry Ford Health System Medical Grand Rounds, Detroit, MI, November 2014.

- “Budget Impact Analysis: Applications and Design Issues” presented at the ISPOR 17<sup>th</sup> Annual European Congress, Amsterdam, The Netherlands, November 2014. Also presented at the ISPOR 19<sup>th</sup> Annual International Meeting.
- “Patient-Centered Outcomes Research Grand Rounds” presented at the University of Maryland Department of Pediatrics Grand Rounds, Baltimore, MD, November 2014.
- “Transforming the Research Enterprise through Meaningful Patient Engagement” presented to the University of Florida CTSI, Gainesville, FL, November 2014.
- “Engaging Hard-to-Reach Patients in Patient-Centered Outcomes Research” presented at the Association for Academic Minority Physicians 27<sup>th</sup> Annual Scientific Meeting, Alexandria, VA, October 2014.
- “A Report of the ISPOR Task Force II on Budget Impact Modeling” ISPOR Educational Webinar, September 2014.
- “Case study for Patient-Centered PCTs” presented at the University of Colorado-Denver CRISP Pragmatic Trials Workshop, Denver, CO, September 2014.
- “Models for Sustaining and Expanding Patient Involvement in PCOR,” AcademyHealth-sponsored webinar as part of EDM Forum, June 2014.
- “Innovations in Engaging Patients and Caregivers in the Research Process” panel presented at AcademyHealth Annual Research Meeting, San Diego, CA, June 2014.
- “How Can We Use Randomized Trial Data to Assess Heterogeneity of Treatment Effects? Let Me Count the Ways” Panel Discussion presented at the ISPOR 19<sup>th</sup> Annual International Meeting, Montreal, Canada, June 2014.
- “What is *Value in Health* Doing for its Authors?” Forum presented at the ISPOR 19<sup>th</sup> Annual International Meeting, Montreal, Canada, June 2014.
- “Proving the Value for Oncology Therapy Using Comparative Effectiveness Research,” presented at the Fourth Annual Association for Value-Based Cancer Care Conference, Los Angeles, CA, May 2014.
- “Patient Engagement for Sustainable Partnerships with Minority Patient Communities and their Health Care Providers,” webinar to AHRQ R24 Awardees, May 2014.
- “Building Patient Partnerships with Bridges, not Helicopters” presented at the University of Michigan MICHOPIS Symposium “Partnerships for Patient-Centered Outcomes Research,” Ann Arbor, MI, March 2014.
- “I’m a pharmacist, so aren’t I already patient-centered – what’s new?” presented at the University of Michigan, College of Pharmacy “Leading by Example” series, Ann Arbor, MI, March 2014.
- “Does first-line treatment impact the cost effectiveness of second-line treatment for elderly metastatic colon cancer patients?” (poster) presented at the ASCO 2014 Gastrointestinal Cancers Symposium, San Francisco, CA, January 2014.
- “I’m a healthcare professional so I thought I was patient centered: What’s new?” presented at the Northeastern University Bouvé Dean’s Seminar Series, Boston, MA, November 2013.
- “Patient-Centered Outcomes Research (PCOR): A Framework for Meaningful Assessment of Value” presented at the Eastern Medicaid Pharmacy Administrators Association 37<sup>th</sup> Annual Meeting, Ellicott City, MD, October 2013.
- “Setting the Stage for CER Usability: The Role of Patient Engagement” presented at the NHC/NPC meeting on “Putting Patients First<sup>®</sup>: Paving a Path to Useful CER,” Washington, DC, September 2013.
- “How Patient-Centered Outcomes Research Can Impact Use and Value of Specialty Medicine” presented at the Pittsburgh Business Group on Health meeting on “Advancing the Future of Specialty Pharmacy and Medical Management,” Pittsburgh, PA, September 2013.
- “How to Handle the Lack of Information in Emerging Markets: A List of Opportunities from Latin America” Workshop presented at the ISPOR 4<sup>th</sup> Latin American Conference, Buenos Aires, Argentina, September 2013.

- “A Framework for Meaningful Assessment of Value” presented at the MidAtlantic Business Group on Health meeting on “Specialty Rx: Understand, Identify, Manage the Cost,” Baltimore, MD, July 2013.
- “The Application of Bayesian Adaptive Designs for CER Trial” workshop presented at AcademyHealth Annual Research Meeting, Baltimore, MD, June 2013.
- “CMTP Webinar on Community-Based Participatory Research: Lessons for Stakeholder Engagement in Patient Centered Outcomes Research” AHRQ-sponsored webinar, June 2013.
- “Meet the Editors of Value in Health” Panel Discussion presented at the ISPOR 18<sup>th</sup> Annual International Meeting, New Orleans, LA, May 2013.
- “Stakeholder Engagement in Patient-Centered Outcomes Research: High Touch or High Tech?” Panel Discussion presented at the ISPOR 18<sup>th</sup> Annual International Meeting, New Orleans, LA, May 2013.
- “Incorporating Patient-Centered Outcomes within Comparative Effectiveness Research: Implications for Clinical Practice, Health Care Policy and Student’s Career Paths” Panel Discussion presented at the ISPOR 18<sup>th</sup> Annual International Meeting, New Orleans, LA, May 2013.
- “Financial Impact/Cost of Illness” Workshop presented at the ISPOR 18<sup>th</sup> Annual International Meeting, New Orleans, LA, May 2013; also presented at the 10<sup>th</sup> through 17<sup>th</sup> Meetings.
- “Patient Differences: Biologic and Non-Biological Factors” presented at the NPC Conference on *The Myth of Average: Why Individual Patient Differences Matter*, Washington, DC, November 2012.
- “Budget Impact Analysis for Rare Diseases” presented at the ISPOR-Colombia Chapter Congress II, Bogota, Colombia, November 2012.
- “Presenting Results to Payers” presented at the ISPOR-Colombia Chapter Congress II, Bogota, Colombia, November 2012.
- “Good Practices for Publishing/Manuscript Writing for Health Economics Studies” Workshop presented at the ISPOR-Colombia Chapter Congress II, Bogota, Colombia, November 2012.
- “Cost Estimation and Assessing Financial (Budget) Impact of New Health Care Technologies” Workshop presented at the ISPOR 15<sup>th</sup> Annual European Congress, Berlin, Germany, November 2012; also presented at 6<sup>th</sup> through 14<sup>th</sup> Congresses.
- “Frequency of Second and Third Line Treatment among Elderly Medicare Stage 4 Colon Cancer Patients” (poster) presented at the 37<sup>th</sup> European Society of Medical Oncology (ESMO) Conference, Vienna, Austria, October 2012.
- “Patient-Centered Outcomes Research (PCOR) with Hard-to-Reach Patients and Consumers” presented at the University of Florida, Gainesville, FL, October 2012.
- “Comparative Effectiveness Research (CER) for Health Intervention Assessments and Improving Health” presented at the National Taiwan University, Taipei, Taiwan, September 2012.
- “Conducting Oncology Health Services Research and Comparative Effectiveness Research Using Large Claims Databases: Taiwanese and United States Experiences” workshop presented at the ISPOR 5<sup>th</sup> Asia-Pacific Conference, Taipei, Taiwan, September 2012.
- “Ensuring input from hard-to-reach consumers” presented at the Consumers United for Evidence-based Healthcare (CUE) Annual Meeting, Washington, DC, June 2012.
- “Rehospitalization and Costs among Patients Treated with Linezolid versus Vancomycin following Hospitalization for Pneumonia in the Real-World Setting” (poster) presented at the ISPOR 17<sup>th</sup> Annual International Meeting, Washington, DC, June 2012.
- “Comparative Effectiveness Research: Methods and Applications” workshop presented at the ISPOR 17<sup>th</sup> Annual International Meeting, Washington, DC, June 2012.
- “Integrating patients’ voices in study design elements with a focus on hard-to-reach populations” presented at the PCORI Workshop on Incorporating the Patient Perspective into Patient Centered Outcomes Research, Baltimore, MD, March 2012.

- “Re-hospitalization and Direct Medical Costs Among Patients Treated with Linezolid (LZD) versus Vancomycin (VAN) Following Hospitalization for Complicated Skin and Skin Structure Infections (cSSSI)” (poster) presented at the Infectious Diseases Society of America 49<sup>th</sup> Annual Meeting, Boston, MA, October 2011.
- “Bayesian Clinical Trials: Using Priors and Planning for Post-Regulatory Translation” Session Chair at the 9<sup>th</sup> International Conference on Health Policy Statistics, Cleveland, OH, October 2011.
- “Cost-Effectiveness Analysis with and Without the QALY,” presented at the Center for medical Technology Policy (CMTP) CER Institute, Santa Fe, NM, July 2011.
- “Introduction and Overview: Reflections on the Importance of CER Methods Training – The Academic Perspective,” presented at the Center for medical Technology Policy (CMTP) CER Institute, Santa Fe, NM, July 2011.
- “Impact of VTE on Mortality” (poster) presented at the American Society of Clinical Oncology (ASCO) 47<sup>th</sup> Annual Meeting, Chicago, IL, June 2011.
- “Experimental vs. Observational Studies: Which should have a Higher Rank in Health Care Decisions” Issue Panel presented at the ISPOR 16<sup>th</sup> Annual International Meeting, Baltimore, MD May 2011.
- “How Can Patient-Reported Outcomes become a Part of Comparative Effectiveness Research” Issue Panel Chair presented at the ISPOR 16<sup>th</sup> Annual International Meeting, Baltimore, MD May 2011.
- “Webinar and Report on Comparative Effectiveness Research Aimed at Research Advocates” webinar presented to the Research Advocacy Network, February 2011.
- “PROs in CER: A Case Study in Oncology” presented at CBI’s 4<sup>th</sup> Annual Comparative Effectiveness Research Summit & CBI’s 7<sup>th</sup> Patient Reported Outcomes Conference, Prague, Czech Republic, November 2010.
- “Pharmacoeconomics and Value Assessments of Drugs and Biomarkers” presented at the 8<sup>th</sup> annual CMOD Biomarkers meeting on Science, Economics and the Globalization of Healthcare, Bethesda, MD, September 2010.
- “Baltimore Community Health Partnership: A Model for Local Empowerment” presented at the ISHIB 25<sup>th</sup> Annual International Interdisciplinary Conference, Washington, DC, July 2010.
- “Incidence of diagnosed VTE among elderly Americans in the year following stage III or IV colon cancer diagnosis” (poster) presented at the American Society of Clinical Oncology (ASCO) 46<sup>th</sup> Annual Meeting, Chicago, IL, June 2010.
- “Pragmatic Clinical Trials - How Broad is Too Broad and How Early if Too Early?” Moderator for Issue Panel presented at the ISPOR 15<sup>th</sup> Annual International Meeting, Atlanta, GA May 2010.
- “Selecting Comparators and Outcomes for Comparative Effectiveness Studies in Oncology” Workshop presented at the ISPOR 15<sup>th</sup> Annual International Meeting, Atlanta, GA May 2010.
- “Community Health Partnership: A Model for Local Empowerment” presented at the National Minority Quality Forum’s 7<sup>th</sup> Annual Leadership Summit, Washington, DC, April 2010.
- “Evidence-based Medicine & Health Technology Assessment: Moving from Separate Appraisals to Synergistic Communications,” Program Chair for Drug Information Association Workshop, Washington, DC, March 2010.
- “Evidence Based Medicine: Trials and Tribulations,” Tutorial at the Drug Information Association 21<sup>st</sup> Annual Workshop on Medical Communications, Phoenix, AZ, March 2010.
- “Comparative effectiveness of FOLFOX and FOLFIRI versus 5FU/LV among elderly stage IV colon cancer patients” (poster) presented at the ASCO 2010 Gastrointestinal Cancers Symposium, Orlando, FL, January 2010.
- “How Comparative Effectiveness Research is Transforming Pharmaceutical and Device R&D and promotion,” Webinar Moderator for the Drug Information Association sponsored webinar, November 2009.

- “Linezolid vs. Vancomycin: Re-hospitalization Rates among Patients with Pneumonia, Staphylococcal Infection, and Skin and Soft Tissue Infection” (poster) presented at the IDSA 47<sup>th</sup> Annual Meeting, Philadelphia, PA, October 2009.
- “The Policy Perspective: The subtle and not-so-subtle influences on physician prescribing – impact of insurance and payers through formularies, guidelines, and quality measures” lecture provide at Johns Hopkins Medical School, Baltimore, MD, October 2009.
- “Assessing Costs of New Drugs and Health Technologies: The Importance of Budgetary Impact In Addition to Cost-Effectiveness Analysis” presented at the Colegio Mexicano de Farmacoeconomía e Investigación, A. C. V Reunion de Farmacoeconomía, Juriquilla, Querétaro, Mexico, April, 2009.
- “Describing and Researching Health Disparities – The Role of Communities and Partnerships: Health Disparities and the Role of Services Research in the Community” presented at the Third Annual Health Disparities Conference, New Orleans, LA, April 2009.
- “Pharmacoeconomics Fulbright Senior Specialist Program” presented at the University of Galway, Galway, Ireland, March 2009.
- “Trends in Health Disparities in Staging of Prostate cancer Patients” (poster) presented at the ASCO 2009 Genitourinary Cancers Symposium, Orlando, FL, February 2009.
- “Medical Decision-Making: The Payer Perspective” lecture provide at Johns Hopkins Medical School, Baltimore, MD, February 2009.
- “Budget Impact Analysis: An Overview” presented at the ISPOR Mexico Chapter Annual Meeting, Mexico City, Mexico, December 2008.
- “Trends in Health Disparities in Staging of Prostate cancer Patients” guest seminar presented at the University of Rhode Island, Kingston, RI, November 2008; also presented at the University of Southern California, Los Angeles, CA, December 2008.
- “Trends in Health Disparities in Staging of Prostate cancer Patients” presented at the Association for Academic Minority Physicians Annual Meeting, Naples, FL, October 2008.
- “Evidence-Based Medicine and Health Technology Assessment: Can We Find Common Ground,” Conference Chair for the Drug Information Association, Alexandria, VA, September 2008.
- “Unequal Health Burden,” presented at the American Cancer Society Cervical Cancer Conference: Tipping the Scales, Better Health for Generations of Women, Research Triangle Park, NC, August 2008.
- “Disparities and Trends in Prostate Cancer Screening Over Time” (poster) presented at the American Society of Clinical Oncology (ASCO) 44<sup>th</sup> Annual Meeting, Chicago, IL, May 2008. Conference co-Chair for the ISPOR 13<sup>th</sup> Annual International Meeting, Toronto, ON, Canada, May 2008.
- “Building a Research Agenda: A Case Study in Health Disparities in End Stage Renal Disease (ESRD)” presented at the University of Tennessee School of Pharmacy, Memphis, TN, April 2008.
- “The Future of Pharmacoeconomic Analyses: How Can We Best Evaluate Advanced Therapeutic and Preventive Options” presented at an AMCP Satellite Symposium, San Francisco, CA, April 2008.
- “Debate: The Pros and Cons of ePROs” presented at the DIA Annual Meeting, Atlanta, GA, June 2007.
- “The Economic Implications of New Episodes of MDD for Non-stable Versus Stable Depression” (poster) presented at the American Psychiatric Association’s 160<sup>th</sup> Annual Meeting, San Diego, CA May 2007.
- “Probability of Increase in Healthcare Costs in Non-Stable Depressed Individuals Compared to Stable Patients” (poster) presented at the American Psychiatric Association’s 160<sup>th</sup> Annual Meeting, San Diego, CA May 2007.
- “Predicting the Budgetary Impact of New Drugs: Applying Microeconomic Theory and Case Studies” Workshop presented at the ISPOR 12<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2007.

- “Quality Issues Related to the Use of Patient Level Databases” Workshop presented at the ISPOR 12<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2007.
- “Formulary Applications in Translational Medicine” Workshop presented at the ISPOR 12<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2007.
- “Manuscript Writing and the Peer-Review Process” Forum presented at the ISPOR 12<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2007.
- “Value-based Decision Making: US Perspectives” presented at the Alzheimer’s Association Research Roundtable: Health Economics and Real World Value of Therapy in Alzheimer’s Disease Conference, Washington, DC, November 2006.
- “Introduction to Global Health Economics” presented at the Alzheimer’s Association Research Roundtable: Health Economics and Real World Value of Therapy in Alzheimer’s Disease Conference, Washington, DC, November 2006.
- “Health Disparities in the 21<sup>st</sup> Century” Keynote Address presented at the ACCP Annual Meeting, St. Louis, MO, October 2006.
- “Pharmacoeconomics Fulbright Senior Scholar Program – Part 2” presented at the Universidad de Montevideo, Montevideo, Uruguay, October 2006.
- “Case Studies of New and Specialty Pharmaceuticals” presented at the Society of Actuaries’ “Maximizing the Value of the Pharmacy Benefit” Seminar, Chicago, IL, July 2006.
- “Rapid Cycle Research Based in Organized Health Care Delivery Systems” presented at the AcademyHealth 2006 Annual Research Meeting, Seattle, WA, June 2006.
- “Initial Dose and Persistence for Five Major Atypical Antipsychotic Agents in Medicaid Enrollees” (poster) presented at the American Psychiatric Association’s 159<sup>th</sup> Annual Meeting, Toronto, Canada, May 2006.
- “Continuous Enrollment and the Incomplete Information Tradeoff” Workshop presented at the ISPOR 11<sup>th</sup> Annual International Meeting, Philadelphia, PA, May 2006.
- “Formulary Decisions for Medicare Part D” Workshop presented at the ISPOR 11<sup>th</sup> Annual International Meeting, Philadelphia, PA, May 2006.
- “Incorporating Compliance Measures in Retrospective Cost Studies” Workshop presented at the ISPOR 11<sup>th</sup> Annual International Meeting, Philadelphia, PA, May 2006.
- “Starting Dose and Persistence for Ziprasidone Users in Medicaid” (poster) presented at the Association of European Psychiatrists’ 14<sup>th</sup> European Congress of Psychiatry, Nice, France, March 2006.
- “Budget Impact Modeling: Appropriateness and Determining Quality Input,” presentation to ISPOR Student Chapters” as an ISPOR educational teleconference, February, 2006.
- “Factors Influencing Ziprasidone Prescribed Doses among Medicaid Patients with Schizophrenia” (poster) presented at the ISPOR 8<sup>th</sup> Annual European Congress, Florence, Italy, November 2005.
- “Major GI Events among Cox-2 Inhibitor, NSAID, and Aspirin Users” (poster) presented at the American College of Gastroenterology Meeting, Honolulu, HI, October 2005.
- “Pharmacoeconomics Fulbright Senior Scholar Program – Part 1” presented at the Universidad de Montevideo, Montevideo, Uruguay, October 2005.
- “Pharmacoeconomics” at the Johns Hopkins Bloomberg School of Public Health’s Twenty-Third Annual Graduate Summer Institute of Epidemiology and Biostatistics: Pharmacoepidemiology summer course” at the, Baltimore, MD, June 2005.
- “Starting Dose and Persistence for Ziprasidone Users in Medicaid” (poster) presented at the American Psychiatric Association’s 158<sup>th</sup> Annual Meeting, Atlanta, GA May 2005.
- “Assessment of the Impact of Valdecoxib on Systolic Blood Pressure in Clinical Practice” (poster) presented at the American Society of Hypertension Twentieth Annual Scientific Meeting, San Francisco, CA May 2005.
- “Formulary Decisions: Assessing Harm, Showing Benefit, Proving Value, From Managed Care Data” Workshop presented at the ISPOR 10<sup>th</sup> Annual International Meeting, Washington, DC, May 2005.

- “The Peer Review Process: How Editors Draw the Line Between Science and Advertising” Issues Panel presented at the ISPOR 10<sup>th</sup> Annual International Meeting, Washington, DC, May 2005.
- “Starting Dose and Persistence for Ziprasidone Users in Medicaid” (poster) presented at the ISPOR 10<sup>th</sup> Annual International Meeting, Washington, DC, May 2005.
- “Triptans for Migraine Therapy: A Comparison Based on Number Needed to Treat and Doses Needed to Treat” (poster) presented at the ISPOR 10<sup>th</sup> Annual International Meeting, Washington, DC, May 2005.
- “Cost-Effectiveness of Eletriptan versus Zolmitriptan: results from a Randomized Controlled Trial” (poster) presented at the ISPOR 10<sup>th</sup> Annual International Meeting, Washington, DC, May 2005.
- “Science or Advertising: How Editors Draw the Line” Issues Panel presented at the ISPOR 7<sup>th</sup> Annual European Congress, Hamburg, Germany, November 2004.
- “Disparities in Medicaid Cancer Expenditures” (poster) presented at the ISPOR 7<sup>th</sup> Annual European Congress, Hamburg, Germany, November 2004.
- “Pharmacoeconomics/Outcomes Research Mini Course” presented at the Universidad de Montevideo, Montevideo, Uruguay, October, 2004.
- “The Economic Impact of Laparoscopic Kidney Retrieval on the Medicare Program” presented at a Congressional Staff briefing on *Organ Transplant Issues*, Washington, DC June 2004.
- “Cost Effectiveness of Kidney Transplantation” presented at the University of Cincinnati School of Pharmacy Graduate Research Seminar Series, Cincinnati, OH, May 2004.
- “The Formulary Decision Process: What Kind of Information is Truly Helpful?” Workshop presented at the ISPOR 9<sup>th</sup> Annual International Meeting, Arlington, VA, May 2004.
- “Managed Care Data: Tools and Metrics for Formulary Development” Workshop presented at the ISPOR 9<sup>th</sup> Annual International Meeting, Arlington, VA, May 2004.
- “Economic Analysis - Financial Impact/Cost of Illness” Workshop presented at the ISPOR 9<sup>th</sup> Annual International Meeting, Arlington, VA, May 2004.
- “Comparison of First Refill Rates Among Branded SSRI Users” (poster) presented at the American Psychiatric Association’s 157<sup>th</sup> Annual Meeting, New York, NY May 2004.
- “Translating Clinical Outcomes into Economic Outcomes” presented at the University of Iowa School of Pharmacy Graduate Research Day, Iowa City, IA, April 2004.
- “Translating Clinical Outcomes into Economic Outcomes” presented at IIR’s 2<sup>nd</sup> Annual Outcomes Research Conference on *Closing the Gap between Drug Manufacturers and Customers*, Washington, DC, February 2004.
- “The Impact of Pharmacogenomics on the Cost-Effectiveness Ratio,” presented at the Southern Economic Association 73<sup>rd</sup> Annual Meeting, San Antonio, TX, November 2003.
- “The Changing Landscape of Dyslipidemia: Emerging Approaches to Achieving Lower Lipoprotein Targets - Pharmacoeconomic Outcomes for Treating Dyslipidemia” presented at the Academy of Managed Care Pharmacy’s 2003 Educational Conference, Montreal, Canada, October 2003.
- “The AMCP Format for Formulary Submissions: Collecting and Evaluating Cost-Effectiveness and Budget Impact Information” presented at the Academy of Managed Care Pharmacy’s 2003 Educational Conference, Montreal, Canada, October 2003.
- “Demystifying Pharmacoeconomics for the Practitioner” presented at the Academy of Managed Care Pharmacy’s 2003 Educational Conference, Montreal, Canada, October 2003.
- “Racial Disparities in Smoking and Clinical Trials Knowledge and Participation” presented at Howard University College of Pharmacy Graduate Seminar, Washington, DC, October 2003.
- “Pharmacoeconomics/Outcomes Research Mini Course” presented at Chulalongkorn University, Bangkok, Thailand, August 4 - 14, 2003.
- “Outcomes Research for Everyone Else: A Primer for the Non Outcomes Researcher” Tutorial at the DIA 39<sup>th</sup> Annual Meeting, San Antonio, TX, June 2003.
- “From Good to Blockbuster: Successes in Outcomes Research” Session Chair at the DIA 39<sup>th</sup> Annual Meeting, San Antonio, TX, June 2003.

- “Demystifying Pharmacoeconomics for the Practitioner” presented at the American Society of Health-System Pharmacists’ 2003 Summer Meeting, San Diego, CA, June 2003.
- “Cost estimation and Assessing Financial (Budget) Impact of New Health Care Technologies” Workshop presented at the ISPOR 8<sup>th</sup> Annual International Meeting, Arlington, VA, May 2003.
- “Risk Management: Implications for Formulary Decision-Making from Risk-Benefit to Cost Effectiveness” Workshop presented at the ISPOR 8<sup>th</sup> Annual International Meeting, Arlington, VA, May 2003.
- “The Societal Benefits and Costs of the 4<sup>th</sup> Hurdle: The European Experience - Evidence of the Impact on the Pharmaceutical Industry” Plenary Talk presented at the ISPOR 5<sup>th</sup> Annual European Conference, Rotterdam, The Netherlands, November 2002.
- “Multi-Country Comparison of Hypertension Costs from Hospitalizations and Ambulatory Care” presented at the ISPOR 5<sup>th</sup> Annual European Conference, Rotterdam, The Netherlands, November 2002.
- “Sinusitis-Related Provider and Patient Burden” presented at the DIA 4<sup>th</sup> Annual Pharmaceutical Outcomes Research Meeting, Newport, RI, October 2002.
- “Pharmacoeconomics and Outcomes Research: Issues in Study Design, Analysis and Interpretation” presented at Howard University College of Pharmacy Preceptor Recognition Event, Washington, DC, September 2002.
- “Outcomes Research for Everyone Else: A Primer for the Non Outcomes Researcher” Tutorial at the DIA 38<sup>th</sup> Annual Meeting, Chicago, IL, June 2002.
- “From Good to Blockbuster: Successes in Outcomes Research” Session Chair at the DIA 38<sup>th</sup> Annual Meeting, Chicago, IL, June 2002.
- “Communicating Pharmaceutical Value” presented at the DIA 38<sup>th</sup> Annual Meeting, Chicago, IL, June 2002.
- “Pharmaceutical Costs, Expenditures, and Policy Implications” Breakfast with the Experts presented at the ISPOR 7<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2002.
- “Careers in Academia, Consulting, Government and Industry: A View from the Ivory Towers” ISPOR Student Forum presented at the ISPOR 7<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2002.
- “Incidence or Prevalence: Implications for Formulary Decision-Making” Workshop presented at the ISPOR 7<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2002.
- “Healthcare Financing in the 21<sup>st</sup> Century: Cost Implications for Employers, Insurers, and Policy Makers” CDPP Conference Chair, Washington, DC, April 2002.
- “A Comparison of Flow of Funds for Treatment of ESRD by Treatment Modalities” (poster) presented at the American Transplant Congress 2002 Meeting, Washington, DC, April 2002.
- “Communicating Pharmaceutical Value” presented at the DIA 13<sup>th</sup> Annual Workshop for Medical Communications, Tampa, FL, March 2002.
- “Arthritis Economic Decision-Making for Drug Therapies” presented at The Maryland Academy of Family Physicians conference on *The Arthritis Connection: Promising Trends and Perspectives*, Baltimore, MD, February 2002.
- “Regulation of Drug Prices” presented at the University of Arizona’s 10<sup>th</sup> Annual Invitational Conference - Pharmaceutical Costs: The Debate Continues, Tucson, AZ, January 2002.
- “The Impact of Pipeline Drugs on United States Drug Expenditure Growth Trends” presented at the ISPOR 4<sup>th</sup> Annual European Conference, Cannes, France, November 2001.
- “Pharmacoeconomic and Quality of Life Labeling and Promotional Claims: A Global Update” DIA Workshop Chair, Philadelphia, PA, October 2001.
- “Outcomes Issues for Regulatory Professionals” Tutorial at the DIA workshop on Pharmacoeconomic and Quality of Life Labeling and Promotional Claims: A Global Update, Philadelphia, PA, October 2001.
- “The Cost on the Healthcare System” presented at The MediMedia Managed Care conference on *Best Practice Guidelines & Current Treatment Trends for Improving Hypercholesterolemia Risk Reduction*, St. Louis, MO, August 2001.

- “Arthritis Economic Decision-Making for Drug Therapies” presented at The Arthritis Foundation/NAMCP/ACMCM conference on *The Arthritis Connection: Promising Trends and Perspectives*, Virginia Beach, VA, July 2001.
- “Outcomes Research for Everyone Else: A Primer for the Non Outcomes Researcher” Tutorial at the DIA Annual Meeting, Denver, CO, July 2001.
- “From Good to Blockbuster: Successes in Outcomes Research” Session Chair at the DIA Annual Meeting, Denver, CO, July 2001.
- “Cost of Treatment for AAT-Deficiency” presented at the Alpha-1 Foundation 3<sup>rd</sup> International Scientific Conference, Warrenton, VA, June 2001.
- “Challenges in Performing Meta Analysis in Heart failure Outcomes Research” Workshop presented at the ISPOR 6<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2001.
- “Comparability of Published Studies on Cost-Effectiveness of Antihypertensive Therapy: Do the Results Help the Decision-Making Process?” (poster) presented at the ISPOR 6<sup>th</sup> Annual International Meeting, Crystal City, VA, May 2001.
- “Pharmacoeconomics: Optimizing the Use of Data” Institute for International Research Conference Chair Philadelphia, PA, March 2001.
- “Building Pharmacoeconomic Models that Address Decision-Makers' Concerns” presented at IIR's Conference on *Pharmacoeconomics: Optimizing the Use of Data*, Philadelphia, PA, March 2001.
- “Exploring Decisions about Formulary Adoption and Clinical Pathways/Guidelines” presented at IIR's Conference on *Pharmacoeconomics: Optimizing the Use of Data*, Philadelphia, PA, March 2001.
- “Merging Marketing and Clinical Development” DIA Workshop Program Committee, Philadelphia, PA, March 2001.
- “Pharmaceutical Market Impact of the Early 1990s Health Care Debate” presented at the Midwest Business Administration Association/Business & Health Administration Association Annual Meeting, Chicago, IL, March 2001.
- “Predicting Future Drug Expenditures: Where Are We Headed and Can We Do Anything About It?” presented at IIR's 2<sup>nd</sup> Annual National Forum on *Controlling Escalating Pharmacy Benefit Costs*, Atlanta, GA February 2001.
- “Pharmacogenomics: Methodological Considerations for Evaluating Outcomes and Cost Effectiveness” presented at the University of Arizona's 9<sup>th</sup> Annual Invitational Conference - Pharmacogenomics: Implications for Patients, Providers, Policy and Payers, Tucson, AZ, January 2002.
- “Analysis of an Osteoporosis Model” presented at the Department of Obstetrics and Gynecology at UCLA and the UCLA/Harbor OB/GYN Collegium Conference on *A Pharmacoeconomic Approach to Clinical Decision-Making for the Menopause*, Los Angeles, CA December 2000.
- “Modeling the Annual Cost of Postmenopausal Osteoporosis Treatment Using Raloxifene, Bisphosphonates, or Calcitonin” (poster) presented at the 35<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Las Vegas, NV, December 2000.
- “Justifying Product Value with Indirect Costs: An Application to Migraine” Workshop presented at the ISPOR 3<sup>rd</sup> Annual European Conference, Antwerp, Belgium, November 2000.
- “Integrated Health Systems Delivery I: Understanding, Developing, and Documenting Integrated Patient (Pharmaceutical) Care” presented at the Thunderbird Executive Education Conference on *Leadership in Healthcare Administration for Pharmacists*, Glendale, AZ, October 2000.
- “Integrated Health Systems Delivery II: The Role of Outcomes Research” presented at the Thunderbird Executive Education Conference on *Leadership in Healthcare Administration for Pharmacists*, Glendale, AZ, October 2000.
- “Case Study: Analysis of an Osteoporosis Model” presented at a session on “A Turn-Key Approach to Utilizing Valuable Economic Models” at the AMCP 2000 Educational Conference, San Diego, CA, October 2000.

- “Pharmacoeconomic and Quality of Life Labeling and Marketing Claims” DIA Workshop Chair, New Orleans, LA, October 2000.
- “Presidential Race: Costly Pills” broadcast appearance on *The Marc Steiner Show* - 88.1 FM WJHU (local Public Radio station) Baltimore, MD, September 2000.
- “Outcomes Research for Everyone Else: A Primer for the Non Outcomes Researcher” Tutorial at the DIA Annual Meeting, San Diego, CA, June 2000.
- “From Good to Blockbuster: Successes in Outcomes Research” Session Chair at the DIA Annual Meeting, San Diego, CA, June 2000.
- “Study Design Issues in Health Economics” Session Chair at the DIA Annual Meeting, San Diego, CA, June 2000.
- “Cost-Effectiveness/Cost-Benefit Analyses (Session 2)” Session Chair at the ISPOR Annual Meeting, Arlington, VA, May 2000.
- “Employer Costs of Diabetes” presented at the BMS Employer Diabetes Health Panel, Carlsbad, CA May 2000.
- “The Impact of Pipeline Drugs on Pharmaceutical Expenditures” presented at the HIAA/BCBSA Pipeline Pharmaceuticals Symposium, Washington, DC, April 2000.
- “The Impact of Pipeline Drugs on Pharmaceutical Expenditures” presented at the HIAA/BCBSA Pipeline Pharmaceuticals Symposium, New York, NY, April 2000.
- “Outcomes Collected in Randomised Clinical Trials and Retrospective Database Studies” presented at the DIA EuroMeeting, Nice, France, March 2000.
- “Estimates of the Indirect Cost of HIV and AIDS in the United Kingdom” (poster) presented at the ISPOR EuroMeeting, Edinburgh, Scotland, November 1999.
- “Government’s Role in Pharmaceutical Pricing” presented at the Drug Pricing Policy Forum, Kunming, China, October 1999.
- “Pharmaceutical Pricing and International Practice” presented at the Drug Pricing Policy Forum, Kunming, China, October 1999.
- “Cancer Screening in Maryland: A Review of the Cancer Insurance Study and Cost Related Aspects” presented at the Maryland State Council on Cancer Control: Cancer Roundtable Meeting at Johns Hopkins School of Hygiene & Public Health, Baltimore, MD, October 1999.
- “Applied Pharmacoeconomics for Formulary Decision Making” presented at the 7<sup>th</sup> Annual ASCP Mid-Atlantic Conference, Cumberland, MD, August 1999.
- “Outcomes Research for Everyone Else: A Primer for the Non Outcomes Researcher” Tutorial at the DIA Annual Meeting, Baltimore, MD, June 1999.
- “Recent Successful Launches: The Role of Outcomes Research” Session Chair at the DIA Annual Meeting, Baltimore, MD, June 1999.
- “Pharmacoeconomic Decision-Making: Observations from the Real World” presented at the DIA Annual Meeting, Baltimore, MD, June 1999.
- “Outcomes Data on Osteoporosis for Formulary Decisions” presented at the Lilly Centre for Women’s Health Outcomes Symposium, Indianapolis, IN May 1999.
- “Cost-of-Treatment vs. Cost-of-Illness Analysis” presented at The Wintergreen Conference V, Wintergreen, VA, May 1999.
- “Pharmacoeconomic Evaluation of a Community Acquired Pneumonia Program” presented at the Academy of Managed Care Pharmacy’s Annual Meeting, Minneapolis, MN, April 1999.
- “Impact of Community Acquired Pneumonia (CAP) Guidelines on Treatment Costs” presented at the DIA’s Pharmaceutical Outcomes Research: Past, Present and Future Workshop, Seattle, WA, April 1999.
- “Alpha 1-Antitrypsin Deficiency Cost of Illness Analysis” presented at the American Thoracic Society Annual Meeting, San Diego, CA, April 1999.
- “Cost-of-Treatment Models: Tools for Comparative Cost Analyses” (poster) presented at the PhRMA Foundation Annual Awardee Meeting, New York, NY, April 1999.
- “Practical Overview of Pharmacoeconomic Research” presented at ASCP’s Generating and Analyzing Data for Clinical and Business Applications Workshop, Seattle, WA, November 1998.

- “Pharmacoeconomics - A Practical Approach” presented at the Maryland Society of Health-System Pharmacists 33rd Annual Seminar, Deep Creek Lake, MD, October 1998.
- “Cost of Treatment vs. Cost of Illness Analysis: Managing Annual Budgets vs Projecting Lifetime Expenditures for your Patients” presented at the Zitter Group’s 5th Annual Congress on Health Outcomes & Accountability, San Diego, CA, October 1998.
- “Pharmacoeconomics/Outcomes Research Mini Course” presented at the Clínic Barcelona, Hospital Universitari, Barcelona, Spain, September 28 - October 4, 1998.
- “Pharmacoeconomics/Outcomes Research” presented at the Regulatory Affairs Professional Society Conference on “International Clinical Trials,” Newark, NJ, August 1998.
- “International Pharmacoeconomics Guidelines: Areas of Consensus and Disagreement” presented at the Regulatory Affairs Professional Society Conference on “International Clinical Trials,” Newark, NJ, August 1998.
- “Outcomes Research for Everyone Else: A Primer for the Non Outcomes Researcher” Tutorial at the DIA Annual Meeting, Boston, MA, June 1998.
- “Case Study: The Health Care System Focus” presented at Howard University’s “Pharmacoeconomics, Clinical Outcomes and Patient Care Seminar” Greenbelt, MD, June 1998.
- “Issues in Developing Economic Models for Managed Care: The Case of Osteoporosis Prevention” workshop presented at ISPOR’s Third Annual International Meeting, Philadelphia, PA, May 1998.
- “Practical Overview of Pharmacoeconomics” presented at ASCP’s “Data...Your Competitive Edge” Workshop, Baltimore, MD, April 1998.
- “Decision Modeling in Pharmacoeconomics” presented as a roundtable discussion at the APhA Annual Meeting, Miami, FL, March 1998.
- “Outcomes Research for Everyone Else...Introduction to the History, Jargon and Definitions” presented at the DIA Conference on Outcomes Research for the Non Outcomes Researcher, Baltimore, MD, March 1998.
- “Pharmacoeconomic Guidelines: Areas of Consensus and Disagreement” presented at the ISPOR Conference on Pharmacoeconomics: Identifying the Issues, Crystal City, VA, February 1998.
- “Pharmacoeconomics of NSAIDs: Beyond Bleeds” presented at the APhA Annual Meeting, Los Angeles, CA, March 1997.
- “Economic Model of NSAID Use and Upper Gastrointestinal Symptoms” presented at the Association of Rheumatology Health Professionals National Scientific Meeting, Orlando, FL, October 1996.
- “Outcomes Research Assessment” presented at a USP Mini-Symposium, Rockville, MD, July 1996.
- “Strategic Drug Pricing in the Presence of Managed Care Competition” presented at The Wintergreen Conference IV, Wintergreen, VA, May 1996.
- “Strategic Drug Pricing in the Presence of Managed Care Competition” presented at the Southern Economic Association Annual Meeting, New Orleans, LA, November 1995.
- “Unintended Consequences of Medicaid Rebates” presented at the DIA Annual Meeting, Orlando, FL, June 1995.
- “The Appropriate Setting for Measurements in Pharmacoeconomic Evaluations” presented at CePOR Conference, Chapel Hill, NC, April 1995.
- “Medicaid Drug Rebates, Pharmaceutical Prices and Unintended Consequences of Health Policy Reform” presented at the Glaxo Career Development Awards Convocation, Durham, NC, March 1995.
- “Medicaid Drug Rebates, Pharmaceutical Prices, and Unintended Consequences of OBRA 1990” presented at The Wintergreen Conference III, Wintergreen, VA, October 1994.
- “The Interface of Methodologies from Epidemiology and Economics,” presented at the American Association of Colleges of Pharmacy Annual Meeting, Albuquerque, NM, July 1994.

“Pharmaceutical Managed Care: A Penny Saved is a Penny Earned,” poster presentation at the American Pharmaceutical Association Annual Meeting, Seattle, WA, March 1994.

“Most-Favored-Customer Protection and Medicaid Rebates under OBRA 1990,” presented at the Southern Economic Association Annual Meeting, New Orleans, LA, November 1993.

**SERVICE ACTIVITIES - UNIVERSITY OF MARYLAND (UMB) SCHOOL OF PHARMACY**

A Bridge to Academic Excellence Tutor	2001
Admissions Committee – PharmD (Committee Chair 2013-2014)	2011-2014
ASCP Student Chapter Faculty Advisor	1998-2001
Assessment Focus Group	1995, 1996
Community Outreach Partnership Centers Committee	1997
Computer Working Group	2000-2003
Curriculum Committee	1996, 1997, 2008
DEI Task Force	2021
Experiential Learning Program (ELP) Committee	2008
Faculty Affairs Committee	1999-2001
Faculty Development Committee	1997
Faculty Senator	1997-1999
ISPOR Student Chapter Faculty Advisor	2002-2015
PHSR Graduate Program Director	1998-2003
Professional Reimbursement Committee	1998
Research and Graduate Education Committee (ad hoc)	1998-2002
Research and Graduate Education Committee Chair	2002-2003
Various Faculty Search Committees	1997-present

**SERVICE ACTIVITIES - EXTERNAL**

AcademyHealth 2018 ARM “Patient-Centered Research” meeting theme co-leader	2018
AHRQ Ad hoc Reviewer	2004, 2008-2012
AHRQ Healthcare Research Training (HCRT) Study Section	2013-2019
AHRQ Health Systems Research (HSR) Study Section	2005-2007
AHRQ Expert Meeting on Evidence Evaluation for Assignment of HCPCS Codes	2007
APHA Annual Meeting Abstract Reviewer	1997
APhA Annual Meeting Abstract Reviewer	1996-2002
ASCP Pharmacoeconomic Fellowship Selection Panel	1996
ASCP Advisory Panel for ASCP Fleetwood Project	1995-1999
Cancer Care Ontario Grant Reviewer	2011
DIA Annual Meeting Planning Committee - EBM Section Chair	2006-2009
DIA - IMPACT SIAC Chair	2008-2010
DIA Research Grant Award Program Committee Member	2001
DIA Steering Committee of the Americas Vice Chair	2000-2001
DIA Steering Committee of the Americas Programming Chair	2002-2004
Institute for Medicaid Innovation Advisory Board	2017-2019
ISPOR Awards Committee Chair	2004-2006
ISPOR Various Task Forces on Good Research Practices	2006-2020
ISPOR 13 <sup>th</sup> Annual International Meeting co-Chair	2008
ISPOR Student Chapter Faculty Advisor Council Chair	2009-2011
Maryland Public Health Association (MPHA) Board Member	1996-2001
MPHA Treasurer	1998-2000
National Academy of Medicine “Stakeholder Support and Demand for Health Data Sharing Initiative” Steering Committee Member	2018-2019
NIH/NCI Ad hoc Reviewer	2008-2011
NIH/NCI Study Section J Committee Member	2011-2015
NIH/NHLBI Ad hoc Reviewer	1997, 1998
Maryland Health Care Commission (MHCC) Hospital and Ambulatory Surgical Facility Report Card Steering Committee Member	2000-2002
MHCC Hospital Performance Guide Steering Committee Member	2002-2006
PhRMA Foundation Health Outcomes Research Grants Committee Member	2008-2016
PCORI Study Section Chair for various Study Sections	2013-present

**JOURNAL REVIEWS**

<i>American Journal of Geriatric Pharmacotherapy</i> , Reviewer	2005
<i>American Journal of Hypertension</i> , Reviewer	2004
<i>American Journal of Pharmaceutical Education</i> , Reviewer	1997 – 2002
<i>American Journal of Pharmacy Benefits</i> , Reviewer	2010 – 2015
<i>American Journal of Transplantation</i> , Reviewer	2004
<i>American Journal of Managed Care</i> , Reviewer	1999 - 2020
<i>Annals of Internal Medicine</i> , Reviewer	2011
<i>Applied Health Economics and Health Policy</i> , Reviewer	2020
<i>Arthritis Care &amp; Research</i> , Reviewer	2006
<i>Cancer Investigation</i> , Reviewer	2008
<i>Cancer</i> , Reviewer	2010 - 2018
<i>Chest</i> , Reviewer	2007 - 2011
<i>Clinical Drug Investigation</i> , Reviewer	2000, 2004
<i>Clinical Epidemiology</i> , Reviewer	2018
<i>Clinical Therapeutics</i> , Section Editor	2000 - 2010
<i>Clinical Therapeutics</i> , Reviewer	1999 - 2012
<i>Clinical Trials: Journal of the Society for Clinical Trials</i> , Reviewer	2016
<i>Contemporary Economic Policy</i> , Reviewer	2002
<i>Current Therapeutic Research</i> , Reviewer	2002 - 2011
<i>Disease Management &amp; Health Outcomes</i> , Reviewer	2001 - 2003
<i>Drugs &amp; Aging</i> , Reviewer	2002
<i>Health Affairs</i> , Reviewer	1997 - 2020
<i>Health Economics</i> , Reviewer	2003, 2010
<i>Health Policy</i> , Reviewer	2007
<i>Health Services Research</i> , Reviewer	1998, 2012
<i>Inquiry</i> , Reviewer	2001
<i>Journal of Comparative Effectiveness Research</i> , Reviewer	2015 - 2019
<i>Journal of Clinical Epidemiology</i> , Reviewer	2012
<i>Journal of Health Expectations</i> , Reviewer	2018
<i>Journal of Health Politics, Policy and Law</i> , Reviewer	1997, 2003, 2004
<i>Journal of Managed Care &amp; Specialty Pharmacy</i> , Reviewer	2002 - 2019
<i>Journal of Managed Care Medicine, Genomics &amp; Biotech</i> , Reviewer	2008, 2009
<i>Journal of the American Geriatrics Society</i> , Reviewer	2020
<i>Journal of the National Cancer Institute</i> , Reviewer	2014, 2018-2020
<i>Journal of the National Medical Association</i> , Reviewer	2003 - 2008
<i>Journal of Pharmacy Teaching</i> , Reviewer	1994 - 2002
<i>Medical Care</i> , Supplemental Issue Reviewer	1995, 2008
<i>Milbank Quarterly</i> , Reviewer	2007- 2015
<i>Nature Clinical Practice Oncology</i> , Reviewer	2007
<i>Osteoporosis International</i> , Reviewer	2002
<i>PharmacoEconomics</i> , Reviewer	1995 - 2018
<i>PharmacoEconomics</i> , Editorial Advisory Board	2002 - 2011
<i>Research in Social &amp; Administrative Pharmacy</i> , Reviewer	2011
<i>Science</i> , Reviewer	2000
<i>Seminars in Arthritis and Rheumatism</i> , Reviewer	2018
<i>Social Science &amp; Medicine</i> , Reviewer	2004
<i>Treatments in Respiratory Medicine</i> , Reviewer	2004
<i>Value in Health</i> , Editorial Board	1998 - 2001
<i>Value in Health</i> , co-Editor	2002 - 2010
<i>Value in Health</i> , co-Editor-in-Chief	2010 to present

**CONSULTING/ADVISORY BOARDS (WITHIN LAST 3 YEARS)**

Bayer Pharmaceuticals

Incyte

Merck

Pfizer

Takeda