

# CURRICULUM VITAE

## Patricia (Trish) Rippetoe Freeman

### I. GENERAL INFORMATION

Work Address: University of Kentucky College of Pharmacy  
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Personal Information: Born: Louisville, Kentucky  
Married: Kenneth C. Freeman  
Children: Kenneth Edward Freeman  
Mary Jacqueline Freeman  
Edward Rippetoe Freeman

Licensure: Registered Pharmacist, Kentucky

### II. EDUCATION AND TRAINING

1993 University of Kentucky  
College of Medicine  
Post-Doctoral Fellow

1992 University of Vermont  
College of Medicine  
Post-Doctoral Fellow

1991 University of Kentucky  
College of Pharmacy  
Ph.D., Pharmaceutical Sciences (Pharmacology)

1987 University of Kentucky  
College of Pharmacy  
B.S. Pharm.

### **III. ACADEMIC & ADMINISTRATIVE APPOINTMENTS**

University of Kentucky  
Lexington, KY

- 2018 - Associate Professor, with Tenure
- 2015 - Full Member, Graduate Faculty for Pharmaceutical Sciences, College of Pharmacy
- 2011 - Director, Center for the Advancement of Pharmacy Practice, College of Pharmacy
- 2007 – 2018 Clinical Associate Professor, College of Pharmacy
- 2009 – 2015 Associate Member, Graduate Faculty for Pharmaceutical Sciences, College of Pharmacy
- 2007 – 2011 Director, Professional Practice Programs (includes Experiential Education Program and Patient Care Laboratory), College of Pharmacy
- 2005 – 2007 Lecturer and Director, Lesshafft Patient Care Laboratory, College of Pharmacy
- 2004 – 2005 Assistant Professor (Part-Time), College of Medicine
- 2001 – 2005 Assistant Professor (Part-Time), Colleges of Pharmacy and Nursing
- 1998 – 2001 Voluntary Faculty, College of Pharmacy
- 1997 – 1998 Adjunct Assistant Professor, College of Pharmacy
- 1995 – 1997 Assistant Professor (Part-Time), College of Pharmacy
- 1993 – 2001 Instructor (Part-Time), College of Nursing
- 1993 – 1997 Instructor (Part-Time), College of Dentistry

### **V. PROFESSIONAL EXPERIENCE**

- 1994 – Clinical Pharmacist (Part-Time), Frankfort Regional Medical Center, Frankfort, Kentucky
- 2003 – 2006 Director of Education and Research, APSC Foundation for Education and Research, Inc., Frankfort, Kentucky

- 1998 – 2003 Vice President Professional Affairs, American Pharmacy Services Corporation, Frankfort, Kentucky
- 1997 – 1998 Clinical Pharmacist, University of Kentucky College of Pharmacy, Lexington, Kentucky
- 1992 – 1993 Staff Pharmacist (Part-Time), Berea Hospital, Berea, Kentucky
- 1991 – 1992 Staff Pharmacist (Part-Time), Knight's Pharmacy, Essex Junction, Vermont
- 1987 – 1994 Staff Pharmacist (Part-Time), Hi Acres Pharmacy, Lexington, Kentucky
- 1987 – 1994 Staff Pharmacist (Part-Time), Northside Pharmacy, Lexington, Kentucky

## VI. HONORS

- 2016 Pharmacy Leadership Award, National Community Pharmacists Association
- 2016 Cardinal Health Generation Rx Award, Kentucky Pharmacists Association
- 2016 Fellow, American Pharmacists Association
- 2013 Pharmacist of the Year, Kentucky Pharmacists Association
- 2012 Good Government Pharmacist of the Year, American Pharmacists Association
- 2012 Kentucky Commission on the Deaf and Hard of Hearing Service Award
- 2011 Advisory Council Service Award, Kentucky Board of Pharmacy
- 2009 Merck Vaccination Service Award
- 2009 Algernon Sydney Sullivan Award, University of Kentucky
- 2009 Kentucky Commission on the Deaf and Hard of Hearing Service Award
- 2008 Rho Chi Chapter Alumni Award, University of Kentucky College of Pharmacy
- 2007 William T. Miles Award, University of Kentucky College of Pharmacy
- 2007 Professional Promotion Award, Kentucky Pharmacists Association
- 2005 Faculty Achievement Award, Pharmacy Practice and Science, University of Kentucky College of Pharmacy
- 2005 Phi Lambda Sigma Society Chi Chapter Honorary Member
- 2005 Kentucky Colonel, Commissioned by Governor Ernie Fletcher
- 2004 Outstanding Second Year Teacher Award, University of Kentucky College of Pharmacy

- 2003 Kentucky Speech Language Hearing Association Appreciation Award
- 2002 Innovative Pharmacist of the Year, Kentucky Pharmacists Association
- 2002 Outstanding Second Year Teacher Award, University of Kentucky College of Pharmacy
- 2002 Preceptor of the Year, University of Kentucky College of Pharmacy
- 2000 Innovations in Teaching Award, Honorable Mention, American Association of Colleges of Pharmacy

#### Graduate Program

- 1989 Burrough's Pharmacology and Toxicology Fellow, American Foundation for Pharmaceutical Education
- 1988 Rho Chi National Honor Society
- 1988 H.A.B. Dunning Memorial Fellowship, American Foundation for Pharmaceutical Education

#### Professional Pharmacy Program

- 1987 Who's Who Among American Colleges and Universities
- 1987 National Dean's List
- 1987 The Bristol Award
- 1986 Achievement Award, American Institute of the History of Pharmacy
- 1986 National Collegiate Greek Merit Award
- 1986 Phi Delta Chi Service and Leadership Award
- 1986 Upjohn Undergraduate Research Award
- 1986 Research and Creativity Award, Biological Sciences Division, University of Kentucky

## VII. TEACHING EXPERIENCE

University of Kentucky  
College of Pharmacy

- 2018 - PHR 760: Special Topics in Pharmacy – Epidemiology Applications in Pharmacy; Co-director for 3 credit hour graduate course; 6 students.
- 2017 - PHR 933 Policy, Outcomes and Public Health: Course coordinator and primary

lecturer for 3 credit hour course; 145 students.

- 2017 PPS 950 Pharmaceutical Policy and Public Health: Presented lectures on immunizations, TB skin testing, and harm reduction; 134 students, 20 lectures.
- 2016 - PHS 760 Drug Discovery, Development Commercialization and Outcomes: Presented lectures and served as module leader on pharmaceutical outcomes and policy; 20-25 graduate students.
- 2016 - PPS 996: Advanced Pharmacy Practice Experience Elective in Professional Advocacy; 2-3 APPE student rotations per year.
- 2016 - PPS 996: Advanced Pharmacy Practice Experience Elective in Research; 2-3 APPE student rotations per year.
- 2013 - 2017 PPS 953 Current Topics in Pharmacy Seminar: Presented lecture on pharmacy practice models and advancing pharmacy practice; 132-140 students, 1 lecture.
- 2013 - 2015 PPS 920 Communication and Behavior in Pharmacy Practice: Course coordinator and primary lecturer for 3 credit hour course; 134-140 students.
- 2015 - 2016 PPS 950 Pharmaceutical Policy and Public Health: Course coordinator and primary lecturer for 4 credit hour course; 135-140 students.
- 2013 - 2014 PPS 950 Pharmaceutical Policy and Public Health: Presented lectures on drug abuse policy and prescription drug monitoring programs; 132 students, 2 lectures.
- 2007 - 2014 PPS 950 Pharmaceutical Policy and Public Health: Presented lectures on adult immunization, theory and practice; 132 students, 6 – 8 lectures.
- 2010 - 2014 PPS 959: Assisted with adult immunization lectures and laboratory activities; 134 students; 8 contact hours.
- 2010 - 2012 PPS 939 Patient Care Laboratory III: Assisted with sterile compounding competency activities, 132 students, 8 contact hours.
- 2011 - 2012 PPS 910 Introduction to Pharmacy Practice: Course coordinator and primary lecturer; 134 students.
- 2010 - 2012 PPS 969/MD 824: Developed and implemented with faculty colleagues first large-scale inter-professional education activity for pharmacy and medical students, 250 students, 18 direct student contact hours.
- 2009 - 2011 PPS 948 Introductory Pharmacy Practice Experience II: Co-director of course for PY2 students; 125 students, 1 rotation each.

- 2008 - 2011 PPS 928 Introductory Pharmacy Practice Experience I: Co-director of course for PY1 students; 125 – 130 students, 1 rotation each.
- 2007 - 2011 PPS 988 Advanced Pharmacy Practice Experience: Co-coordinator of course for PY4 students; 102 – 125 students, 10 rotations each.
- 2009 - 2010 PPS 939 Patient Care Laboratory III: Assisted with development and implementation of new laboratory activities focused on sterile compounding.
- 2007 - 2010 PPS 959-969 Patient Care Laboratory V- VI: Assisted with development and implementation of new laboratory activities focused adult immunization, identification of more complex drug therapy problems, and chronic disease management.
- 2006 - 2010 PHR 910 Introduction to Pharmacy Practice: Presented lectures on models of pharmacy practice, with an emphasis on institutional practice in hospitals; 131 students, 8 – 10 lectures.
- 2006 - 2009 PPS 919-929 Patient Care Laboratory I – II: Assisted with development and implementation of new laboratory activities focused on patient assessment, identification of simple drug therapy problems, dispensing of antibiotics and self-care assessment and recommendation.
- 2006 - 2009 PHR 939-949 Patient Care Laboratory III – IV: Assisted with development and implementation of new laboratory activities focused on physical assessment, identification of more complex drug therapy problems, and basic sterile and non-sterile compounding.
- 2005 - 2006 PHR 969 Contemporary Aspects of Pharmacy Practice VI: Presented lectures on long-term care pharmacy practice, approximately 100 students, 3 lectures.
- 2003 - 2006 PHR 832 Advanced Community Pharmacy Management: Co-coordinated elective course presenting advanced practice management topics to second and third year pharmacy students, approximately 15 students.
- 2001 - 2005 PHR 941 Pharmacotherapeutics of the Cardiovascular System: Presented lectures on the pathophysiology and pharmacotherapy of hypertension, angina, congestive heart failure and cardiac arrhythmias, 80 – 100 students, 20 – 25 lectures.
- 2001 - 2005 PHR 939 Contemporary Aspects of Pharmacy Practice III: Presented lectures on sterile parenteral product theory and preparation, and general hospital pharmacy practice issues, 80 – 100 students, 20 – 25 lectures.
- 1998 - 2006 PHR 923 Fundamentals of Therapeutics II: Nutrition, Health Promotion and Disease Prevention: Presented lectures on homeopathy and herbal medicine, 80 students, 6 lectures.

- 1998 - 2003 PHR 969 Contemporary Aspects of Pharmacy Practice VI: Participated in laboratory activities designed to introduce students to CLIA-waived testing devices used in pharmacies for laboratory monitoring, 80 students.
- 1999 - 2000 PHR 969 Contemporary Aspects of Pharmacy Practice VI: Participated as course faculty in APhA's Immunization Certificate Program for Pharmacists, 80 students.
- 1998 PHR 969 Contemporary Aspects of Pharmacy Practice VI: Designed, coordinated and was primary lecturer in course, 76 students.
- 1998 PHR 959 Contemporary Aspects of Pharmacy Practice V: Designed, coordinated and was primary lecturer in course, 76 students.
- 1997 PHR 949 Contemporary Aspects of Pharmacy Practice IV: Coordinated laboratory activities along with Mrs. Susan Jay, 76 students.
- 1996 - 1998 PHR 923 Fundamentals of Therapeutics II: Nutrition, Health Promotion and Disease Prevention: Designed, coordinated and was primary lecturer in course, 80 students, 29 lectures.
- 1996 - 1997, 2001 PHR 939 Contemporary Aspects of Pharmacy Practice III: Coordinated laboratory activities (with Mrs. Susan Jay) and lectured on sterile products, 76 students, 15 lectures.
- 1996 PHR 854 Pharmacotherapeutics of the Nutritional and Dermatologic Systems: Coordinated course and was primary lecturer, 95 students, 36 lectures.
- 1995 PHR 911 Physiology I: Lectures on the anatomy of the brain and spinal cord, the blood brain barrier and cerebral spinal fluid, principles of vision, and states of consciousness, 80 students, 7 lectures.
- 1995 - 1997 PHR 919 and PHR 929 Comprehensive Aspects of Pharmacy Practice I and II: Participated as a facilitator for small group case discussions. Two groups of 10 students, 6 sessions each.
- 1995 PHR 853 Pharmacotherapeutics of the Endocrine System: Lectures on the female reproductive system and pharmacology of reproductive hormone agonists and antagonists, approximately 100 students, 22 lectures.
- 1995 PHR 856 Chemotherapeutics: Lectures on antimicrobial, antiviral and antifungal agents, approximately 100 students, 15 lectures.
- 1995 PHR 812 Communication Skills for Pharmacists: Coordinated weekly lab activities to improve communication skills and develop techniques for effective patient counseling, two groups of 12 students.

- 1988 - 1990 PHR 851 Pharmacotherapeutics of the Nervous System: Lectures on the pathophysiology of epilepsy and the pharmacology of anti-convulsant agents, approximately 90 students, 5 lectures per year.
- 1988 - 1990 PHR 854 Pharmacotherapeutics of the Nutritional and Dermatologic Systems: Lectures on the pharmacology of local anesthetic agents and the pathophysiology and pharmacotherapy of thromboembolic diseases, approximately 90 students, 4 lectures per year.
- 1988 - 1990 PHR 852 Pharmacotherapeutics of the Cardiovascular System: Lectures on the pathophysiology and pharmacotherapy of hyperlipoproteinemias and atherosclerosis, approximately 90 students, 5 lectures per year.
- 1987 - 1989 PHR 853 Pharmacotherapeutics of the Endocrine System: Lectures on physiology of the adrenal gland with emphasis on disease states and pharmacotherapy with corticosteroids, approximately 90 students, 4 – 6 lectures per year.

#### College of Medicine

- 2007 - 2012 PHA 824 Medical Pharmacology: Lectures on applied pharmacokinetic principles, adverse drug reactions, drug interactions and medication safety, approximately 100 medical students, 8 lectures.
- 2004 - 2006 PHA 824 Medical Pharmacology: Lectures on basic pharmacokinetic principles, autonomic nervous system, cholinergic medications and pharmacotherapy of respiratory diseases, approximately 80 medical students, 10 – 20 lectures.
- 2004 - 2006 PHA 522 Systems Pharmacology: Lectures on basic pharmacokinetic principles, approximately 15 graduate students, 5 lectures.
- 2004 - 2006 OBI 826 Dental Pharmacology: Lectures on basic pharmacokinetic principles and the drug discovery and approval process, approximately 50 students, 8 lectures.

#### College of Nursing

- 2002 - 2004 NUR 862 Implications of Drug Therapy for Nurses: Coordinated and was sole lecturer for distributed learning (web-enhanced) pharmacology course for undergraduate nursing students, 5 students, 3 credit hours.
- 2001 - 2004 NUR 652 Pharmacologic Applications in Primary Care: Designed, implemented and was sole lecturer for distributed learning course to prepare advanced nurse practitioner students for prescriptive privileges, 35-40 students, 3 credit hours.
- 1997 - 2001 NUR 652 Pharmacologic Applications in Primary Care: Designed, implemented and was sole lecturer in course to prepare advanced nurse practitioner and nurse midwifery students for prescriptive privileges, approximately 40 students (around 20 students in on-campus classroom and 20 students divided between 2 distant



classrooms receiving instruction over T-1 line), 3 credit hours.

1993 - 1997 NUR 620 Problems in Clinical Nursing: Designed, implemented and was sole lecturer for a new course on pharmacologic applications for primary care and nurse midwifery practice, approximately 40 students, 3 credit hours.

1996 NUR 827 Implications of Drug Therapy for Nurses: Coordinated and was sole lecturer for pharmacology course for undergraduate nursing students at Elizabethtown Community College, 8 students, 3 credit hours.

#### College of Dentistry

1992 - 1997 OBI 824 and OBI 826 Physiology and Pharmacology II: Lectures on sensory physiology, neuropharmacology, respiratory, endocrine and GI pharmacology, approximately 50 dental students, 38 lectures per year.

1993 - 1997 OBI 818 Physiology and Pharmacology I: Lectures on introductory principles of pharmacology, antimicrobial and anticancer therapy, approximately 50 dental students, 10 lectures per year.

### VIII. PUBLICATIONS

#### a. Peer-Reviewed Papers

##### **Under Review:**

Blackmer J, Lindahl E, Strahl A, Schadler A and **Freeman PR**. Regulating Gabapentin as a Drug of Abuse: A Survey Study of Kentucky Pharmacists. *J Am Pharm Assoc*; July 2018.

Oh J, Abner EL, Fardo DW, **Freeman PR**, Moga DC. Patterns and predictors of chronic opioid use in older adults: a retrospective cohort study. *Plos One*; September 2018.

##### **Forthcoming:**

Martinez A, **Freeman PR**, Moga D. Gastrointestinal Bleeding Events and Statin Use: A Large Propensity Score-matched Retrospective Cohort Study. *Am J Cardiovascular Drugs*.

**Freeman PR**, Curran G, Drummond K, Martin BL, Teeter BS, Bradley K, Schoenberg N, Edlund M. Utilization of Prescription Drug Monitoring Programs for Prescribing and Dispensing Decisions: Results from a Multi-Site Qualitative Study. *Res in Soc Admin Pharm*.

Fouladvand S, Hankosky ER, Henderson DW, Bush H, Chen J, Dwoskin LP, **Freeman PR**, Kantak K, Talbert J, Tao S, Zhang GQ. Predicting Substance Use Disorder among ADHD Patients using Long-Short Term Memory Model. *Health Informatics Journal*.

Hankosky ER, Bush HM, Dwoskin LP, Zhang GQ, **Freeman PR**, Talbert J. Retrospective analysis of health claims to evaluate pharmacotherapies with potential for repurposing: Association of bupropion and stimulant use disorder remission. *American Medical Informatics Association*.

**Published:**

**Freeman PR**, Hankosky E, Lofwall M, Talbert J. The Changing Landscape of Naloxone Availability. *Drug and Alcohol Dependence*;2018 doi10.1016/j.drugalcdep.2018.07.017.

Delcher C, Wang Y, Goodin A, **Freeman PR**, Reisfield GM. The New Opioid Prescribing Ecosystem: Implications for the Prescriber-Pharmacist Communication. *Am J Preventative Medicine*;

Curran G, **Freeman PR**, Martin BL, Teeter BS, Drummond K, Bradley K, Schoenberg N, Thannisch MM, Mosley CL, Edlund M. Communication between pharmacists and primary care physicians in the midst of a U.S. opioid crisis. *Res in Soc Admin Pharm*; 2018 doi 10.1016/j.sapharm.2018.08.006.

Luu H, Slavova S, **Freeman PR**; Lofwall M, Browning S, Bush H. Trends and Patterns of Opioid Analgesic Prescribing in Kentucky, 2012 to 2015. *J Rural Health*; 2018 Apr 17. doi 10.1111/jrh.12300.

Goodin AJ, Fallin-Bennett A, Green T, **Freeman PR**. Pharmacists' role in harm reduction: a survey assessment of Kentucky community pharmacists' willingness to participate in syringe/needle exchange. *Harm Reduct J*. 2018 Jan 25;15(1):4. doi 10.1186/s12954-018-0211-4.

Pauly NJ, Slavova S, Delcher C, **Freeman PR**, Talbert J. Features of prescription drug monitoring programs associated with reduced rates of prescription opioid-related poisonings. *Drug Alcohol Depend*. 2018 184:26-32.

Palmer E, Hart BS, **Freeman PR**. Development and Delivery of a Pharmacist Training Program to Increase Naloxone Access in Kentucky. *J Am Pharm Assoc*. 2017 Mar-Apr;57(2S):S118-S122.

**Freeman PR**, Goodin AJ, Troske S, Fallin A, Strahl A, Green, TC. Pharmacists' Role in Opioid Overdose: Kentucky Pharmacists' Willingness to Participate in Naloxone Dispensing. *J Am Pharm Assoc*. 2017 Mar-Apr;57(2S):S2-S33.

Wixson SE, Blumenschein K, Goodin AJ, Talbert J, **Freeman PR**. Prescription Drug Monitoring Program Utilization in Kentucky Community Pharmacies. *Pharmacy Practice*. 2015 Apr-Jun;13(2):540.

Wixson SE, Blumenschein K, Goodin AJ, Higgins GE, Vito GF, Talbert J, **Freeman PR**. Law enforcement perceptions of a prescription drug monitoring program. *International Journal of Police Science & Management*. 2014;16(4):288-96.

Alexander K, Divine H, Hanna C, Gokun Y, **Freeman PR**. Implementation of Personalized Medicine Services in Community Pharmacies: Perceptions of Independent Community Pharmacists. *J Am Pharm Assoc*. 2014 Sep-Oct 54(5):510-517.

**Freeman PR**, Jones M, Blumenschein K. It's Not Just the Money: Why Consumers Do Not Purchase Pharmacist-Provided Services. *Pharmacology & Pharmacy*. 2014 5(60):570-6.

Monson K, **Freeman PR**, Goodin, A, Talbert J, Blumenschein K. Kentucky Pharmacist Opinions of the Potential Reclassification of Pseudoephedrine as a Legend Drug. *J Am Pharm Assoc*. 2014 Jul 1;54(4):397-405.

Talbert J, Blumenschein K, Burke A, Stromberg A, **Freeman PR**. Pseudoephedrine Sales and Reported Clandestine Methamphetamine Laboratory Seizures in Kentucky. *JAMA*. 2012 Oct 17;308(15):1524-6.

Goodin A, Blumenschein K, **Freeman PR**, Talbert J. Consumer/Patient Encounters with Prescription Drug Monitoring Programs: Evidence from a Medicaid Population. *Pain Physician*. 2012 July 15;(3S):ES169-75.

Romanelli F, **Freeman PR**. Immunization Training: Right or Privilege? *Am J Pharm Educ*. 2012 May 10;76(4):57.

Carr MB, Divine H, Hanna C, **Freeman PR**, Blumenschein K. Independent Community Pharmacist Interest in Participating in Community Pharmacy Research Networks. *J Am Pharm Assoc*. 2011 Nov-Dec;51(6):727-33.

Blumenschein K, Blomquist GC, Johannesson M, Horn N, **Freeman PR**. Eliciting Willingness to Pay without Bias: Evidence from a Field Experiment. *The Economic Journal*. 2008;118(525):114-37.

**Freeman PR**. Teriparatide: A Novel Agent that Builds New Bone. *J Am Pharm Assoc*. 2003 Jul-Aug;43(4):535-7.

McIntosh TW, **Freeman PR**. Anakinra Shows Promise for Treating Patients with Rheumatoid Arthritis. *J Am Pharm Assoc*. 2002 Jul-Aug;42(4): 660-2.

Zillich AJ, Blumenschein K, Johannesson M, **Freeman PR**. Assessment of the Relationship Between Objective Measures of Disease Severity, Quality of Life and Willingness to Pay in Asthma. *Pharmacoeconomics*. 2002;20(4):257-65.

**Freeman PR**. Pharmacogenetics and Pharmacogenomics: Using Genetic Information to Guide Drug Therapy Decision-Making. *J. Am. Pharm. Assoc*. 2001;41(3):475-6.

**Freeman PR**. Pharmacogenomics: Opening New Vistas in Pharmacotherapy. *J Am Pharm Assoc*. 2001 Jul-Aug;41(4):629-30.

Blumenschein K, Johannesson M, Yokoyama KK, **Freeman PR**. Hypothetical vs. Real Willingness to Pay in the Health Sector: Results from a Field Experiment. *J Health Econ*. 2001 May;20(3):441-57.

Wong JZ, Woodcock-Mitchell J, Mitchell J, Rippetoe PE, White S, Absher M, Baldor, Evans J, McHugh KM and RB Low. Smooth Muscle Actin and Myosin Expression in Cultured Airway Smooth Muscle Cells. *Am. J. Physiol*. 1998 May;274(5 pt1): L786-92.

Rippetoe Freeman PE, Piascik MM. Monoclonal Antibody Approved for Crohn's Disease. *J Amer Pharm Assn*. 1998;38(6): 770-2.

Rippetoe Freeman PE, Piascik MM. Basic Bibliography on Biotechnology Drugs. *Hosp Pharm*. 1997;32(12): 1692-4.

Rippetoe Freeman PE. Reopro: a New Therapeutic Monoclonal Antibody. *J Amer Pharm Assn*. 1996;NS36 (2): 90-1.

Rippetoe Freeman PE. Leptin: Can it Treat Obesity? *J. Amer Pharm Assn*. 1996;NS36 (12): 692-3.

Rippetoe Freeman PE. The Interferons - Part 2. *Am Pharm*. 1994;N534 (6):20-3.

Rippetoe Freeman, P.E. The Interferons - Part 1. *Am Pharm*. 1994;NS34 (5):24-6.

Rippetoe PE. Topical Peptide Growth Factors and Wound Repair. *Am Pharm*. 1993;3(6):18-19.

Cassis LS, Rippetoe PE, Painter D, Soltis EE, Fitz R, Gillespie MN. Angiotensin II and Monocrotaline-Induced Pulmonary Hypertension: Effect of Losartan (DuP 753), a Nonpeptide Angiotensin Type 1 Receptor Antagonist. *J Pharmacol Exp Ther*. 1992 Sep;226(3):1168-72.

Rippetoe PE, Olson JW, Altieri RJ, Pauly TH, Gillespie MN. Epidermal Growth Factor Augments Reactivity to Angiotensin II in the Rat Pulmonary Circulation. *Am Rev Respir Dis*. 1989 Sep;140(3):821-24.

Gillespie MN, Rippetoe PE, Haven CA, Orlinska U, Shiao R, Maley RE, Olson JO. Epidermal Growth Factor and Polyamines in Monocrotaline-Induced Pulmonary Hypertension. *Am Rev Respir Dis*. 1989 Nov;140(5):1463-66.

**b. Abstracts**

Goodin A, Talbert J, **Freeman PR**, Hahn EJ, Fallin-Bennett A. Tobacco Cessation Utilization by Kentucky Medicaid Recipients Before and After the Affordable Care Act. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, August 2018.

Doshi P, Talbert J, Moga DS, **Freeman PR**, Ashford K. Trends and Patterns in Use of Prescription Opioids in Pregnant Women in a Commercially Insured Population in the US. *Academy Health*, June 2018.

Luu H, Slavova S, **Freeman PR**, Lofwall M, Bowning S, Bush H. Risk and Protective Factors for Opioid Analgesic Prescribing. *International Society for Pharmacoepidemiology Midyear Meeting*, April 2018.

Martinez A, **Freeman PR**, Moga DS. Gastrointestinal bleeding events and statin use: a propensity score-matched retrospective cohort study. *International Society for Pharmacoepidemiology Midyear Meeting*, April 2018.

Teeter BS, Curran G, **Freeman PR**, Martin B, Drummond K, Bradley K, Schoenberg N, Edlund M. Utilization of PDMPs for Dispensing Decision-Making: Insights from a Qualitative Study of Community Pharmacists. *American Pharmacists Association Annual Meeting*, March 2018.

Curran G, Teeter B, Drummond K, **Freeman PR**, Martin B, Schoenberg N, Bradley K, Edlund M. Caught in the Middle: Community Pharmacists' Beliefs about Dispensing Opioids in the Midst of an Opioid Epidemic. *American Pharmacists Association Annual Meeting*, March 2018.

Stall C, Hanna C, Schadler A, **Freeman PR**, Divine HS. Providing Patient Care through Board-Authorized Protocols: Perceptions of Independent Community Pharmacists. *American Pharmacists Association Annual Meeting*, March 2018.

Pauly N, Slavova S, **Freeman PR** and Talbert J. Investigating gabapentin as a drug of abuse: associations between gabapentin prescribing, substance use disorders and opioid-related poisonings. *Addiction Health Services Research Annual Meeting*, Madison, WI October 2017.

Talbert J, **Freeman PR**. Disparities Associated with Pneumococcal Immunization among Rural Elderly Adults. *40<sup>th</sup> Annual Rural Health Conference*, San Diego, CA, May 2017.

Pauly NJ, Slavova S, **Freeman PR**, Talbert JC. The Impact of Prescription Drug Monitoring Program Characteristics on Rates of Opioid-Related Poisonings. *International Society for Pharmacoepidemiology Mid-Year Meeting*, London, UK, April 2017.

Blackmer JS, Strahl A, **Freeman PR**. Regulating Gabapentin as a Drug of Abuse: A Survey Study of Kentucky Pharmacists. *American Pharmacists Association Annual Meeting*, San Francisco, CA, April 2017.

Curran G, Edlund M, **Freeman PR**, Martin BC, Bradley K, Drummond K, Schoenberg N. Balancing Appropriate Pain Management and Stemming Diversion/Abuse: Themes Associated with Community Pharmacists' Decision Making Around Opioid Dispensing.

American Pharmacists Association Annual Meeting, San Francisco, CA, April 2017.

Palmer E, Hart S, **Freeman PR**. Increasing naloxone access in Kentucky: Training pharmacists to initiate naloxone dispensing per-protocol. College of Psychiatric and Neurologic Pharmacists Annual Meeting, Colorado Springs, CO, April 2016. (*Abstract was first runner up in the innovative practice award category*).

Pauly N, Slavova S, **Freeman PR**, Talbert J. Fifty State Analysis of the Impact of Prescription Drug Monitoring Programs on Rates of Opioid Prescribing in The United States. Academy of Managed Care Pharmacy Annual Meeting, San Francisco, CA, April 2016. (*Abstract received honorable mention in the best graduate student poster category.*)

Block M, Vito G, Higgins G, **Freeman PR**, Blumenschein K. Strengths and Weaknesses of Prescription Drug Monitoring Programs: A Focus Group Assessment of Law Enforcement Officers. Southern Criminal Justice Association 43rd Annual Meeting, Charleston, SC, September 2015. *American Journal of Criminal Justice, Vol. 40, Issue 3*.

Troske S, **Freeman PR**, Goodin AJ, Blumenschein K, Talbert J. Relationship Between Pseudoephedrine Sales and Clandestine Methamphetamine Labs. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Philadelphia, PA, May 2015. *Value in Health, Vol. 18, Issue 3*.

Perry BL, Talbert J, **Freeman PR**, Martel MM, Oser C. Can Social Network Analysis Be Used to Identify Doctor Shoppers? International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Philadelphia, PA, May 2015. *Value in Health, Vol. 18, Issue 3*.

Wixson SE, Blumenschein K, Goodin AJ, Talbert J, **Freeman PR**. Prescription Drug Monitoring Program Utilization in Community Pharmacies. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Montreal, QB, Canada, June 2014.

Talbert J, **Freeman PR**. The Impact of Mandatory Use of Prescription Drug Monitoring Programs on Rural Patients and Providers. Addiction Health Services Research Annual Meeting, San Francisco, CA, October 2013.

Roberts KB, **Freeman PR**, Lubawy WC. Planning and Design Procedures for a New Pharmacy Education and Research Building. International Pharmaceutical Federation Annual Meeting, August 2011.

Comer D, Connell A, Roeder P, Jessa P, Talbert J, Blumenschein K, **Freeman PR**. Aspirin Use for Primary Prevention in Kentucky Inmates: A Decision Analysis. American Society of Health-System Pharmacists Midyear Meeting, Anaheim, California, 2010.

Berger M, **Freeman PR**. Possible Interaction between Warfarin and Leflunomide.

American Society of Health-System Pharmacists Midyear Meeting, Anaheim, California, 2010.

Morgenstein A, Song M, Jones M, **Freeman PR**, Morehead, S, Weber. Development of an Electronic Medical Record for Documentation of an Interprofessional Team Activity. American Association of Colleges of Pharmacy Annual Meeting. 2010.

Weber D, Morgenstein A, Song M, Morehead S, Jones M, **Freeman PR**. Development of an Interprofessional Education Experience for Medical and Pharmacy Curricula. International Association of Medical Science Educators. 2010.

Policastri A, Mitchell TR, Mabins M, **Freeman PR**. From Simulation to Practice: Integration of Patient Care Lab Skills with Introductory Pharmacy Practice Experiences. American Association of Colleges of Pharmacy Annual Meeting, 2010.

Miller CM, **Freeman PR**, Kenney L, Allen WP, Cooley K, Eck D. Structuring an Interdisciplinary Nutrition Support APPE Rotation to Enhance Services and Improve Interdepartmental Communication. American Association of Colleges of Pharmacy Annual Meeting, 2010.

Lane SS, **Freeman PR**, Garces H, Blumenschein K. Participation in Community Pharmacy Networks: results from a Survey in Kentucky. American Society of Health-System Pharmacists Midyear Clinical Meeting, 2008.

Weber D, **Freeman PR**, Bentley A, Elder W, Hadley R, Porter N. Updates to the Medical Pharmacology Curriculum. Southern Group on Educational Affairs Annual Meeting, 2007.

**Freeman PR**, Bird E, Blumenschein K. Creating a Culture of Professionalism: A Survey of Student Opinions. American Association of Colleges of Pharmacy Annual Meeting, 2006.

Blumenschein K and **Freeman PR**. What Does the Public Think of Pharmacists? Development and Implementation of an Exercise for Second Year Students. American Association of Colleges of Pharmacy Annual Meeting, 2006.

White L, Blumenschein K, **Freeman PR**. Educating Lawmakers on the Value of Pharmacy Services in Kentucky. American Pharmaceutical Association Annual Meeting, March, 2006.

Blumenschein K, Blomquist G, Johannesson M, Horn N, **Freeman PR**. Eliciting Willingness to Pay without Bias: Evidence from a Field Experiment. International Health Economics Association 5<sup>th</sup> World Congress, 2005.

McDaniel J, McIntosh, T, **Freeman PR**, Blumenschein K. Consumer Willingness to Pay for Lipid Management Services in Community Pharmacies. American Pharmaceutical Association Annual Meeting, March 2005.

- Blumenschein K, Johannesson M, Blomquist G, Horn N, **Freeman PR**. Eliciting Willingness to Pay Within the Health Sector Without Bias. *Value in Health*, 7(3): 308, 2004.
- Blumenschein K, Johannesson M, Zillich A, **Freeman PR**. Patient Willingness to Pay for Lipid Management Services Provided by Pharmacists: An Application of the Contingent Valuation Method. American Colleges of Clinical Pharmacy Annual Meeting, 2002.
- McIntosh T, **Freeman PR**, Achapong M, Blumenschein K. The Implementation of a Pharmaceutical Care Strategy for Type 2 Diabetes in Community Pharmacies. American Pharmaceutical Association Annual Meeting, 2002.
- Zillich A, Blumenschein K, Johannesson M, **Freeman PR**. Relationship Between Objective Measures of Disease Severity and Health Related Quality of Life in Patients with Asthma. *Value in Health*, 4(2): 80, 2001.
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**e. Media Contributions**

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“Pharmacists in Kentucky Can Now Dispense Naloxone Without Prescriptions.” *Pharmacy Times*, May 22, 2015. Available at: <http://www.pharmacytimes.com/news/Pharmacists-in-Kentucky-Can-Now-Dispense-Naloxone-Without-Prescriptions>

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Jones M, **Freeman PR**. “Pharmacists’ Importance on Health Care Teams Growing.” *Lexington Herald-Leader*, June 2, 2013.

“IMPACT on campus. Appalachian and University of Kentucky Colleges of Pharmacy Faculty reach out to rural, underserved areas.” *Pharmacy Today*, August 12, 2012.

## IX. RESEARCH AND GRANT ACTIVITY

### Active

BJA-2017-11447

Data-driven Response to Prescription Drug Misuse in Kentucky. Slavova S (PI), **Freeman PR** (Co-I), Quesinbery D, Costich J, Bunn T, Lofwall M, and Talbert J. Bureau of Justice Administration. 10/17 – 10/20. \$600,000.

Development of a Community Pharmacy-based Practice Model to Increase Access to Long-acting Naltrexone. **Freeman PR** (PI), McIntosh, TW. Kentucky Cabinet for Health and Family Services. 10/1/17 – 6/30/19. \$200,000.

U1CRH30041-01-00

Center for Rural Health Research. Borders T (PI), Talbert J, **Freeman PR** (Co-I). Health Resources and Services Administration. 9/1/16 – 8/31/21. \$700,000.

R01-DA-039288

Doctor Shopping for Controlled Substances: Insights from Two-Mode Social Network Analysis. Perry BL (PI), Talbert J, **Freeman PR** (Co-I), Martel MM, Oser C. National Institute on Drug Abuse, 8/1/16 - 6/30/2020. \$74,646.

### Pending

Methodological Advances in Evaluating Abuse Deterrent Opioid Analgesics. Dasgupta N (co-PI), Slavova S (co-PI), **Freeman PR** (co-I), Bunn T (co-I). US Food and Drug Administration, 10/1/18 – 9/30/2020. \$1,423,624.

### Under Review

PA-16-119: The Application of Big Data Analytics to Drug Abuse Research Assessing Substance Use Disorder Risk using Big Data (ASK-BD). Zhang GQ (MPI), Talbert J (MPI), Dwoskin L (MPI), **Freeman PR** (co-I), Bush H, Kantak K. National Institutes of Health. 4/1/19 – 3/31/22. \$2,315,341.00

NIH-PAR-18-251 (R01 Clinical Trial)

Pharmacist Assisted Stop Smoking (PASS) Trial with Medicaid Recipients in Appalachia. Hahn E (MPI), **Freeman PR** (MPI), Edward J, Fallin A, Harrington N, Kebodeaux C, Rayens MK, Talbert J. National Cancer Institute. 4/1/19 – 3/31/24. \$3,754,554.

### Completed

R01-DA-034627

Prescribers, Pharmacists and the Opioid Dilemma: A Multisite Qualitative Study. Edlund M (PI), Martin B, Curran G, Drummond K, Bradley K, Schoenburg N and **Freeman PR** (Co-I and site PI). National Institute on Drug Abuse, 5/15/14 – 4/30/18. \$183,972.

Pharmacy-based HPV Vaccination Pilot Project. Vanderpool R (PI) and **Freeman PR** (co-I). American Cancer Society National HPV Vaccination Roundtable. ACS Contract #32608 CFDA #93.733. \$10,000. 2015.

Health Disparities Resulting from Antipsychotic Use in Youth with Bipolar Disorder. Martel MM, Perry B, Talbert J, **Freeman PR** (Co-I). Funding Source: Igniting Research Collaborations, University of Kentucky. \$10,000. 2014-2015.

Doctor Shopping to Obtain Prescription Opioids: Insights from Two-Mode Social Network Analysis. Perry BL (PI), Talbert J, **Freeman PR**, Martel MM, Oser C. Funding Source: Igniting Research Collaborations, University of Kentucky. \$10,000. 2014-2015.

Update to NASCSA White Paper: Impact of State Laws Regulating Pseudoephedrine on Methamphetamine Abuse. **Freeman PR** (PI) and Talbert J. National Association of State Controlled Substance Authorities, Quincy, MA, \$10,000; 08/14 – 12/14.

Optimizing Prescription Drug Monitoring Programs to Support Law Enforcement Activities. **Freeman PR** (Co-PI), Blumenschein, K and Talbert J. Department of Justice, National Institute of Justice. 1/13-7/15, \$363,226.

Impact of HB1 on Utilization and Effectiveness of the KASPER Program. **Freeman PR** (PI). Blumenschein K, Talbert J. Kentucky Cabinet for Health and Family Services. 07/13 – 06/14. \$100,000.

Project Impact Diabetes. **Freeman PR** (PI) and Divine HS. American Pharmacists Association Foundation. 3/11 – 12/12, \$25,000.

Prescription Drug Monitoring Programs: The Consumer's Perspective on the Chilling Effect. Blumenschein K (PI), Talbert J, **Freeman PR** (Co-I). Center for Clinical and Translational Science Pilot Program. 9/2011 – 6/2013, \$23,822.

Impact of State Laws Regulating Pseudoephedrine on Methamphetamine Abuse. **Freeman PR** (PI) and Talbert J. National Association of State Controlled Substance Authorities, Quincy, MA, \$13,158; 08/11 – 12/11.

Feasibility of Real-Time Data Collection in the KASPER Program. **Freeman PR** (PI), Blumenschein K, Fink J, Taylor S, Talbert J. Department of Justice, Cabinet for Health and Family Services, Frankfort, KY, \$64,900; 07/10 – 6/11.

Independent Evaluation of the KASPER Program. **Freeman PR** (PI), Blumenschein K, Fink J, Steinke D, Kirsh K and Talbert J. Department of Justice, Cabinet for Health and Family Services, Frankfort, KY, \$67,313; 03/09 – 6/10.

Consumer Willingness to Pay for Pharmacist Care Services in Community Pharmacies. Blumenschein K (PI), **Freeman PR**, Epstein S. NCPA Foundation Grant, \$20,522; Funded 09/04 – 06/05.

## **XI. SCHOLARLY PRESENTATIONS**

### **a. Podium (Invited)**

#### **Local**

Policy Responses to the Opioid Crisis: What have we learned? Guttman Memorial Lecture, University of Kentucky College of Pharmacy, Lexington, KY, April 2018.

Regulating Gabapentin as a Drug of Abuse: A Survey Study of Kentucky Pharmacists. Pharmacy Practice and Science Seminar Series, University of Kentucky College of Pharmacy, Lexington, KY, September 2017.

Engaging Pharmacists as Partners in Opioid Harm Reduction Activities. Center for Drug Abuse Research Translation (CDART) Seminar Series, University of Kentucky College of Medicine, Lexington, KY, April 2017.

Opioid Use Disorders, Overdose and Naloxone. Deans' Interprofessional Honors Colloquium, University of Kentucky College of Medicine, Lexington, KY, February 2017.

Opioid Use Disorders, Overdose and Naloxone. Community Care Coalition, Campbellsville, KY, January 2017.

Opioid Use Disorders, Overdose and Naloxone. Community Care Coalition, Elizabethtown, KY, January 2017.

Opioid Use Disorders, Overdose and Naloxone. Deans' Interprofessional Honors Colloquium, University of Kentucky College of Medicine, Lexington, KY, October 2016.

Impact of House Bill 1 on Drug Abuse and Diversion in Kentucky. University of Kentucky College of Pharmacy Seminar Series, Lexington, KY, October 2015.

The Relationship Between Pseudoephedrine Sales and Clandestine Methamphetamine Labs. Drug Discovery and Development Symposium. University of Kentucky College of Pharmacy, Lexington, KY, September 2014.

Prescription Drug Monitoring Programs: Lessons Learned from an Evaluation of the Kentucky All Schedule Prescription Electronic Reporting (KASPER) Program. Martin School of Public Policy, University of Kentucky, Lexington, KY, April 2010.

Community-Based Faculty Development via CECentral. Area Health Education Centers Course Directors Workshop, Lexington, KY, December 2009.

Alternative Medicine Use: Impact on Dental Practice. Kentucky Dental Society. Lexington, KY, 2009.

UK Continuing Education Web Portal for Community-Based Faculty. Area Health Education Centers Course Directors Workshop, Lexington, KY, 2008.

The Clinical Education Center Model. University of Kentucky College of Pharmacy, Works in Progress Seminar Series, Lexington, KY, 2008.

Recent Advances in Thrombolytic Therapy. Scott County General Hospital, Georgetown, KY, 1993.

### **State**

Engaging Pharmacists as Partners in Opioid-related Harm Reduction. University of Mississippi School of Pharmacy, Oxford, MI, February 2018.

Policy as a Tool for Addressing Kentucky's Substance Use Crisis: Engaging Pharmacists as Partners in Public Health. Bost Memorial Health Policy Forum. Foundation for a Healthy Kentucky, Lexington, KY, September 25, 2017.

Opioid Use Disorders, Overdose and Naloxone. Kentucky Public Health Association Conference, Owensboro, KY, April 2017.

Opioid Overdose and the Use of Naloxone as Rescue Therapy. Kentucky Department of Education District Health Coordinator Seminar, Lexington, KY, September 2016.

Pharmacists' Role in Increasing Access to Naloxone: Implementation of SB 192 in Kentucky. SOAR Substance Abuse Roundtable. Natural Bridge, KY, April 2016.

Medical Marijuana Policy in the US. Kentucky Chapter of the National Association of Drug Diversion Investigators Annual Conference, Frankfort, KY, August 2015.

Drug Abuse Trends in 2013: Is Policy Having an Impact? Different Faces of Substance Abuse Conference, Lexington, KY, January 2014.

Impact of Public Policy on Drug Abuse in Kentucky. University of Kentucky Center on Drug and Alcohol Research Trends in Behavioral Health Outcomes Symposium, Lexington, KY, April 2013.

Prescription Drug Abuse Summit: Response of the Pharmacy Profession. University of Kentucky, Lexington, KY, April 2012.

Complementary and Alternative Medicine Update. University of Kentucky College of Medicine, Internal Medicine Grand Rounds, Lexington, KY, 2007.

MTM Workshop: Implementing Patient Care Services. Kentucky Society of Health-System Pharmacists, Lexington, KY, November 2006.

MTM Workshop: Implementing Patient Care Services. American Pharmacy Services Corporation, Covington, KY, September 2006.



Medication Errors and Quality Assurance in Community Pharmacy. University of Kentucky College of Pharmacy Fall Conference, Lexington, KY, October 2003.

Quality Assurance in Community Pharmacy. APSC Meeting for Independent Pharmacy, Lexington, KY, September 2003.

Understanding and Preventing Medication Errors. Kentucky Pharmacists Association Annual Meeting, Lexington, KY, June 2003.

Implementing Pharmacy-Based Lab Testing. Kentucky Society of Hospital Pharmacists Annual Spring Meeting, Lexington, KY, March 1999.

### **National**

Utilization of PDMPs for Dispensing Decision-Making: Insights from a Qualitative Study of Community Pharmacists. **Freeman PR**. Addiction Health Services Research Conference, Madison, WI, October 2017.

Doctor shopping for prescription opioids: Insights from a social network analysis of prescriber-patient ties. Perry B., Oser C, Talbert J and **Freeman PR**. American Sociological Association Annual Meeting, Montreal, Canada, August 2017.

A Tale of Cooperation: Integration between Schools of Pharmacy to Meet State Regulatory Requirements in Kentucky. **Freeman PR** and Palmer E. Substance Abuse Education and Assistance SIG: Integrating Opioid Safety and Overdose Prevention Across the Curriculum, American Association of Colleges of Pharmacy Annual Conference, Nashville, TN, July 2017.

Balancing Appropriate Pain Management and Stemming Diversion/Abuse: Themes Associated with Community Pharmacists' Decision-Making Around Opioid Dispensing. Curran G, Edlund M, **Freeman PR**, Martin BC, Drummond K, Bradley K, Schoenberg N. Addiction Health Services Research Conference, Seattle, WA, October 2016.

Investigating Clinicians Opioid Prescribing Practices: A Qualitative Study. Edlund M, Curran G, Drummond K, Bradley K, **Freeman PR**, Martin BC, Schoenberg N. Health Services Research in Opioid Abuse: Results from In-Depth Qualitative Analyses and Big Data Approaches, Addiction Health Services Research Conference, Seattle, WA, October 2016.

Legislative Impact on PDMP Utilization, Perceptions, and Prescriber Behavior in Kentucky. **Freeman PR**, Talbert JT. Prescription Drug Monitoring Program Training and Technical Assistance Center (PDMP TTAC) of Brandeis University, September 2015, via webinar.

Optimizing PDMPs to Support Law Enforcement Activity. **Freeman PR**, Blumenschein K. Harold Rogers Prescription Drug Monitoring Program National Meeting, Washington DC, September 2014.

Impact of Mandatory Use Legislation: Evidence from the Kentucky All Schedule Prescription Electronic Reporting Program. Hopkins D, **Freeman PR**. National Association of State Controlled Substance Authorities (NASCSA) Annual Conference, Savannah, GA, October 2014.

Prescription Drug Monitoring Programs: Are We Walking the Tightrope between Controlled Substance Access and Abuse? **Freeman PR**, Anderson C, Twillman B, Talbert, JC. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, New Orleans, LA, May 2013.

NASCSA White Paper: Impact of State Laws Regulating Pseudoephedrine on Methamphetamine Trafficking and Abuse. **Freeman PR** and Talbert, J. National Association of State Controlled Substance Authorities Annual Conference, Scottsdale, AZ, October 2012.

The Relationship Between Pseudoephedrine Sales and Clandestine Methamphetamine Labs. Talbert J, Blumenschein K, Burke A, **Freeman PR**. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Washington DC, June 2012.

White Paper on the Impact of State Laws Regulating Pseudoephedrine on Methamphetamine Abuse. **Freeman PR** and Talbert, J. National Association of State Controlled Substance Authorities Annual Meeting, Portland, ME, October 2011.

Interprofessional Education (IPE): Lessons Learned from Implementing Didactic, Simulation and Experiential Education Activities. **Freeman PR**, Jones M, Brownlee S, Shrader S, Allen D. American Association of Colleges of Pharmacy Annual Meeting; San Antonio, TX, July 2011.

Transitioning to a Patient-Centered Laboratory Curriculum: Lessons Learned. Round Table Discussion; American Association of Colleges of Pharmacy Annual Meeting; Boston, MA, July 2009.

## **b. Posters**

**Freeman PR**, Hankosky ER, Lofwall MR, Talbert J. Delayed Surge in Naloxone Availability Necessitates Caution When Assessing the Impact of Naloxone Access Laws on the Opioid Crisis. *Academy Health*, June 2018.

Blackmer JS, Strahl A, **Freeman PR**. Regulating Gabapentin as a Drug of Abuse: A Survey Study of Kentucky Pharmacists. APhA Annual Meeting, San Francisco, CA, April 2017.

**Freeman PR**, Goodin A, Troske S, Fallin A, Green T. Pharmacists' Role in Opioid Overdose: A Survey Study of Kentucky Pharmacists' Willingness to Participate in Naloxone Dispensing. APhA Annual Meeting, Baltimore, MD, April 2016.

**Freeman PR**, Goodin A, Troske S, Talbert J. Impact of Mandatory Query Legislation on Patient Doctor-shopping Behavior. APhA Annual Meeting, Baltimore, MD, April 2016.

Goodin A, Green T, Fallin A, Troske S, **Freeman PR**. Pharmacists' Role in Harm Reduction: A Survey Study of Kentucky Pharmacists' Willingness to Participate in Needle Exchange. APhA Annual Meeting, Baltimore, MD, April 2016.

Martinez A, Moga D, **Freeman PR**. Association of Gastrointestinal Effects and Statin Use: A Large Propensity Score-Matched Retrospective Cohort Study. APhA Annual Meeting, Baltimore, MD, April 2016.

Wixson SE, Blumenschein K, Vito G, Higgins G, Goodin A, Talbert J, **Freeman PR**. Utility of PDMP Reports for Investigations: Perceptions of Law Enforcement Personnel. The PDMP Research Forum: Identifying Priorities to Optimize Use and Improve Public Health, Washington DC, May 2015.

**Freeman PR**, Block M, Vito G, Higgins G, Wixson SE, Talbert J, Blumenschein K. Key Features of PDMPs to Support Investigations: Evidence from Focus Groups of Law Enforcement Personnel. The PDMP Research Forum: Identifying Priorities to Optimize Use and Improve Public Health, Washington DC, May 2015.

**Freeman PR**, Troske S, Goodin AJ, Blumenschein K, Talbert J. Impact of Kentucky House Bill 1 on Concurrent Prescribing of an Opioid, Alprazolam, and Carisoprodol. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Philadelphia, PA, May 2015.

Talbert J, Troske S, Blumenschein K, **Freeman PR**. Relationship between Pseudoephedrine Sales and Clandestine Methamphetamine Laboratories: Kentucky, Illinois and Louisiana 2011-2012. Addiction Health Services Research (ASHR) Conference 2014, Boston, MA, October 2014.

Pendley MD, Nau D, **Freeman PR**, Hanna C, Divine H. Impact of a Community Pharmacist Toolkit on High Risk Medication Use in the Elderly. American Pharmacists Association (APhA) Annual Meeting, Orlando, FL, March 2014.

Wixson SE, Blumenschein K, Brouwer ES, **Freeman PR**, Talbert J. Impact of South Carolina's Prescription Drug Monitoring Program on the Use of Benzodiazepines in a Commercially-Insured Population. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, New Orleans, LA, May 2013.

Goodin AJ, **Freeman PR**, Talbert J, Monson K, Blumenschein K. Kentucky Physician Opinions of the Potential Reclassification of Pseudoephedrine as a Legend Drug. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, New Orleans, LA, May 2013.

Wittmer D, **Freeman PR**, Gokun Y, Talbert J, Blumenschein K. Relationship Between Clandestine Methamphetamine Laboratory Seizures and Burns in Kentucky. American Society of Health-System Pharmacists (ASHP) 47<sup>th</sup> Midyear Clinical Meeting & Exhibition, Las Vegas, NV, December 2012.

Monson KE, **Freeman PR**, Goodin AJ, Talbert J, Blumenschein K. Kentucky Pharmacist Opinions of the Potential Reclassification of Pseudoephedrine as a Legend Drug. American Society of Health-System Pharmacists (ASHP) 47<sup>th</sup> Midyear Clinical Meeting & Exhibition, Las Vegas, NV, December 2012.

Perin N, **Freeman PR**, Talbert J, Blumenschein K. Prescription Monitoring Effectiveness: Perceptions of Drug Diversion Investigators. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Washington, DC, June 2012.

**Freeman PR**, Talbert J, Burke A, Blumenschein K. Do Sales of Pseudoephedrine Predict Methamphetamine-Related Hospitalizations? International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Washington, DC, June 2012.

Wixson SE, Talbert J, Blumenschein K, **Freeman PR**. Impact of Prescription Monitoring Programs on Pharmacists' Controlled Substance Dispensing Behavior. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, Washington, DC, June 2012.

Alexander K, Divine H, Hanna C, **Freeman PR**. Independent Community Pharmacists' Willingness and Readiness to Implement Personalized Medicine Services. American Pharmacists Association Annual Meeting, New Orleans, LA, March 2012.

Barcelo A, **Freeman PR**, Talbert J, Lewis D, Blumenschein K. Influence of prescription drug monitoring programs on acetaminophen-related liver toxicity. American Society of Health-System Pharmacists (ASHP) Midyear Meeting, December 2011.

Farley J, **Freeman PR**, Talbert J, Blumenschein K. Influence of medical marijuana programs on controlled substance utilization. American Society of Health-System Pharmacists (ASHP) Midyear Meeting, December 2011.

Miller CM, **Freeman PR**, Allen WM, Kenney L. Faculty and APPE Students Impact on Clinical Nutrition Service at APPE Site. American Association of Colleges of Pharmacy (AACP) Annual Meeting, July 2011.

**Freeman PR**, Mitchell T. Use of Video Technology to Instruct Sterile Compounding in a Patient Care Laboratory Environment. American Association of Colleges of Pharmacy (AACP) Annual Meeting, July 2011.

**Freeman PR**, Jones M, Gokun J, Morgenstein A, Song M, Weber D. Impact of a Required Interprofessional Education Activity on Attitudes Toward Working in

Healthcare Teams. American Association of Colleges of Pharmacy (AACP) Annual Meeting, July 2011.

Miller C, **Freeman PR**, Allen WP. The Clinical Education Center Model Establishes Value for Stakeholders. American Association of Colleges of Pharmacy (AACP) Annual Meeting, July 2011.

Munson C, Policastri A, Garces H, Whitehead J, **Freeman PR**. Development of Quality Assurance Procedures for Introductory and Advanced Pharmacy Practice Experiences. American Association of Colleges of Pharmacy (AACP) Annual Meeting, July 2011.

Talbert J, Blumenschein K, **Freeman PR**, Perin N. Controlled Substance Prescribing and Utilization of Prescription Drug Monitoring Programs. International Society of Pharmacoeconomics and Outcomes Research Annual Meeting, May 2011.

**Freeman PR**, Blumenschein K, Talbert J. Impact of Prescription Monitoring Programs on Controlled Substance Prescribing Behavior. International Society of Pharmacoeconomics and Outcomes Research Annual Meeting, May 2011.

Blumenschein K, **Freeman PR**, Goodin A, Talbert J. Prescription Drug Monitoring Programs: the Patient Perspective. International Society of Pharmacoeconomics and Outcomes Research Annual Meeting, May 2011.

Divine HS, Sansom V, Cox E, Grise W, **Freeman PR**. Student Pharmacists' Role in a Self-Care Patient Encounter Service. American Pharmacists Association Annual Meeting and Exposition, 2011.

Kleinpeter K, Carr M, Divine H, Grise W, **Freeman PR**, Blumenschein K. Community Pharmacy Research Networks: Survey in Kentucky- Grocery Store Chain Pharmacy. American Pharmacists Association Annual Meeting and Exposition, Washington, D.C., 2010.

Divine HS, Sansom V, Cox E, Grise W, **Freeman PR**. Student Pharmacists' Role in a Self-Care Patient Encounter Service in Community Pharmacies. American Pharmacists Association Annual Meeting and Exposition, Washington, D.C. 2010.

Carr M, Divine H, Hanna C, **Freeman PR**, Blumenschein K. Community Pharmacy Research Networks: Independent Community Pharmacy Survey in Kentucky. American Pharmacists Association Annual Meeting and Exposition, Washington, D.C. 2010.

**Freeman PR**, Policastri A, Amerson A, Garces H, Anderson S, Norton J. Development of a Continuing Education Web Portal for Community-based Faculty Orientation and Training. American Association of Colleges of Pharmacy Annual Meeting, Boston, MA, 2009.

**Freeman PR**, Slabaugh L, Garces H, Blumenschein K. Community Pharmacy Networks: Are Pharmacists Willing to Participate? American Association of Colleges of Pharmacy

Annual Meeting, Boston, MA, 2009.

Miller CM, Berger M, Allen P, Mills M, Hatton J, Perrier D, Roberts KB, **Freeman PR**. Clinical Education Centers: A Model for Academic-Practice Partnerships. American Association of Colleges of Pharmacy Annual Meeting, Boston, MA, 2009.

**Freeman PR**, Policastri A, Richardson M, Garces H, Berger M, Miller CM, Amerson A. Building Preceptor Relationships: A Structured Approach to Preceptor Outreach, Engagement and Development. American Association of Colleges of Pharmacy Annual Meeting, Boston, MA, 2009.

Mabins M, Mitchell TR, Blumenschein K, **Freeman PR**. Perception vs. Reality: An assessment of student interpretations of prescription order quantitative statements. American Association of Colleges of Pharmacy Annual Meeting, 2008.

Mitchell TR, Mabins M, **Freeman PR**. Use of an Interactive Game to Familiarize Students with the Medical Chart. American Association of Colleges of Pharmacy Annual Meeting, 2008.

Fraley MD, Jones MD, McIntosh T, Steinke DT, **Freeman PR**. An Integrated Approach to Teaching Immunization Policy and Delivery. American Association of Colleges of Pharmacy Annual Meeting, 2008.

Divine HS, McIntosh T, Jones MD, **Freeman PR**. Development of an Integrated Diabetes Management Curriculum. American Association of Colleges of Pharmacy Annual Meeting, 2008.

Jones SA, McIntosh T, **Freeman PR**. Integrating Physical Assessment Skills into Patient Care with an End of Semester Comprehensive Case Activity. American Association of Colleges of Pharmacy Annual Meeting, 2008.

Jones MD, Fraley MD, Hardgrove K, **Freeman PR**. Putting it All Together: Use of a Mock Health System to Prepare 3rd Year Students for APPEs. American Association of Colleges of Pharmacy Annual Meeting, 2008.

Miller CM, **Freeman PR**, Policastri A, Allen WP, Lubawy WC, Roberts K. Implementation of a Clinical Education Center (CEC) Concept to Enhance Experiential Education. American Association of Colleges of Pharmacy Annual Meeting, 2008.

**Freeman PR**, Bird ER, Music T, Blumenschein B. Use of Reflective Self-Assessment to Promote Life-long Learning and Self-Improvement. American Association of Colleges of Pharmacy Annual Meeting, 2008.

Jones MD, Jones SA, Bird ER, Romanelli R, **Freeman PR**. A Competency-Based Approach to Teaching Physical Assessment, American Association of Colleges of Pharmacy Annual Meeting, Orlando, FL, 2007.

Mitchell T, Mabins M, **Freeman PR**. Teaching Self-Care Recommendation and Dispensing Skills in the Context of Patient-Centered Care, American Association of Colleges of Pharmacy Annual Meeting, Orlando, FL, 2007.

McIntosh T, **Freeman PR**. Teaching Extemporaneous Compounding Skills in the Context of Patient Centered Care, American Association of Colleges of Pharmacy Annual Meeting, Orlando, FL, 2007.

Hammond JD, **Freeman PR**, McIntosh T, Blumenschein K. Impact on Men's Health: Co-Administration of a Standardized Tool and Direct Patient Care Services. American Pharmacists Association Annual Meeting, Seattle, WA, 2004.

King GS, Blumenschein K (faculty mentor), **Freeman PR**. Does Pharmacy Practice Experience Affect the Interpretation of Verbal Probability Statements? American Association of Colleges of Pharmacy Annual Meeting, 2003.

Divine HS, **Freeman PR**. Development of an Innovative Advanced Community Practice Management Elective. American Association of Colleges of Pharmacy Annual Meeting, 2003.

Thompson C, Blumenschein K, **Freeman PR**, Bouvette RB. Pharmacy Students' Attitudes and Knowledge Related to Independent Pharmacy Practice. American Pharmaceutical Association Annual Meeting, New Orleans, LA, 2003.

Hammond JD, **Freeman PR**, Blumenschein K, Lubawy W. Medication Dispensing Errors: Perceptions of Kentucky Pharmacists. American Pharmaceutical Association Annual Meeting, New Orleans, LA, 2003.

Horn N, Blumenschein K, **Freeman PR**, Bouvette R. Practitioner and Student Knowledge Regarding Government Affairs. American Pharmaceutical Association Annual Meeting, New Orleans, LA, 2003.

Zillich A., Blumenschein K, **Freeman PR**, Yeager BF, Bouvette RE. Partnering with a Community Pharmacy Network to Promote Practice Enhancement and Research. American Association of Colleges of Pharmacy Annual Meeting, 2000.

**Freeman PR**, Brandt B, Piascik P. Behavioral Modification: A Consciousness Raising Experience for First Year Pharmacy Students. American Association of Colleges of Pharmacy Annual Meeting, 1998.

**Freeman PR**, Weise J, Brandt B, Piascik P. Use of Actual Patients in the Classroom to Teach Social and Behavioral Aspects of Pharmaceutical Care. American Association of Colleges of Pharmacy Annual Meeting, 1998.

**Freeman PR**, Jay S, Blumenschein K, Piascik P. Integrated Profile Review Activities to Assess Competency in Pharmaceutical Care Provision. American Association of Colleges of Pharmacy Annual Meeting, 1997.

## **XII. INVITED LEGISLATIVE TESTIMONY**

Implementation of SB 192 by pharmacists. Presented to SB 192 Implementation Oversight Committee, Erlanger, KY, August 2015.

Results of House Bill 1 Impact Evaluation. Presented to Interim Joint Judiciary Committee, West Liberty, KY, July 2015.

Impact of methamphetamine precursor laws on methamphetamine production and diversion. Presented to House Judiciary Committee, Frankfort, KY, March 2012.

## **XIII. SCHOLARLY SERVICE**

2018- Journal Referee, The Journal of Rural Health  
2018- Journal Referee, Drug and Alcohol Review  
2018- Journal Referee, Drug and Alcohol Dependence  
2017- Journal Referee, American Journal of Pharmaceutical Education  
2013 – Journal Referee, Journal of the American Pharmacists Association  
2012 – Journal Referee, Currents in Pharmacy Teaching and Learning  
2014 – 2016 Journal Referee, International Journal of Crime and Justice  
2011 – 2015 Scientific Grant Reviewer, Solix, Inc.  
2011 – 2015 Abstract Reviewer, International Society for Pharmacoeconomics and Outcomes Research

## **XIV. CONTINUING EDUCATION**

### **Local**

Impacting Public Health through Research and Practice. Bluegrass Pharmacists Association, Lexington, KY, April 2018.

Expanded Opportunities to Impact Patient and Public Health: Pharmacists Authority to Deliver Protocol-driven Care. Bluegrass Pharmacists Association, Lexington, KY, April 2018.

Impacting Public Health through Research and Practice. Morehead, KY, April 2018.

Impacting Public Health through Research and Practice. Northern Kentucky Pharmacists Association, Erlanger, KY, February 2018.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. University of Louisville Hospital, Louisville, KY, August 2017.

Update on Preteen and Adolescent Immunizations. Bluegrass Pharmacists Association, Lexington, KY, April 2017.



Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Appalachian Regional Healthcare, Lexington, KY, April 2017.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Appalachian Regional Healthcare, Lexington, KY, March 2017.

Substance Use Policy in the US: Implications for Pharmacists. Bluegrass Pharmacists Association, Lexington, KY, February 2016.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Louisville Community Event, Louisville, KY, November 19, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Bluegrass Pharmacists Association, Lexington, KY, November 15, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. London/Corbin Community Event, Corbin, KY, November 12, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Pikeville Community Event, Pikeville, KY, November 3, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Lexington Community Event, Lexington, KY, October 29, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Kroger District Meeting, Florence, KY, October 15, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Jefferson County Academy of Pharmacists Fall Seminar, Louisville, KY, October 11, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Northern Kentucky Pharmacists Association, Erlanger, KY, October 6, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Kroger District Meeting, Cincinnati, OH, September 24, 2015.

Drugs and Hearing Loss: What Pharmacists Should Know, College of Pharmacy Alumni and Friends Scholarship Golf Outing, Lexington, KY, September 2012.

Adult Immunization Refresher, University of Louisville, Louisville, KY, March 2010.

Heart Failure Education and Counseling: Use of a standardized patient encounter to develop skills and document competency, Norton Healthcare, Louisville, KY, July 2009.

Heart Failure Education and Counseling: Use of a standardized patient encounter to develop skills and document competency, Norton Healthcare, Louisville, KY, July 2009.

New Medicines Review, Mountain Pharmacists Association, Hazard, KY, December 2008.

UK Pharmacy Live – New Medicines Review, Ashland, KY, November 2008.

UK Pharmacy Live – New Drug/Therapy Update, Bowling Green, KY, December 2007.

UK Pharmacy Live – New Drug/Therapy Update, Covington, KY, January 2007.

UK Pharmacy Live – New Drug/Therapy Update, Hazard, KY, August 2006.

UK Pharmacy Live – New Drug/Therapy Update, London, KY, May 2006.

Pharmacology Update, Ephraim McDowell Medical Center, Danville, KY, February 2004.

New Drug Update, Bluegrass Pharmacists Association Meeting, Lexington, KY, September 2003.

New Drug Update, Bluegrass Pharmacists Association Meeting, Lexington, KY, September 2002.

Safety and Efficacy of Common Herbs and Dietary Supplements, University of Kentucky Staff Development Conference, May 2000.

Pros and Cons of Alternative Nutritional Therapies, University of Kentucky Staff Development Conference, December 1997.

### **State/Regional**

New Drugs: How Do They Stack Up? Kentucky Pharmacists Association Annual Meeting, Covington, KY, June 2018.

Policy Solutions to the Opioid Crisis: What Have We Learned? Kentucky Pharmacy Law Review, Lexington, KY, April 2018.

Engaging Pharmacists as Partners in Opioid-related Harm Reduction. Mississippi Pharmacists Association Mid-Winter Meeting, Oxford, MI, February 2018.

Update on Medical Marijuana Policy in the US: Implications for Pharmacists. UK HealthCare CE Central's Advances in Pharmacy Practice: Annual Fall Conference, Lexington KY, October 2017.

Pharmacology Review for Nurse Practitioners, Kentucky Coalition of Nurse Practitioners & Nurse Midwives, Hazard, KY, October 2017.

Pharmacology Review for Nurse Practitioners, University of Kentucky College of Nursing, Lexington, KY, September 2017.

Evolution of Pharmacist Scope of Practice to Support Direct Patient Care Activities. AACP-NABP District III Meeting, Louisville, KY, August 2017.

New Drugs: How Do They Stack Up? Kentucky Pharmacists Association Annual Meeting, Lexington, KY, June 2017.

The New Kentucky Immunization Registry. Kentucky Pharmacy Law Review, Lexington, KY, April 2017.

Regulating Gabapentin as a Drug of Abuse: A Survey Study of Kentucky Pharmacists. Kentucky Pharmacists Association Midyear Legislative Conference, Frankfort, KY, November 11, 2016

Opportunities to Advance Pharmacy Practice through Screening, Prevention and Management of Infectious Diseases. UK HealthCare CE Central's Advances in Pharmacy Practice: Annual Fall Conference, Lexington KY, October 2, 2016.

Pharmacology Review for Nurse Practitioners, Kentucky Coalition of Nurse Practitioners & Nurse Midwives, Hazard, KY, October 2016.

Safe Prescribing in the Elderly. Kentucky Coalition of Nurse Practitioners & Nurse Midwives, Frankfort, KY, September 2016

13th Annual Pharmacology Update for Advanced Practice Nurses. University of Southern Indiana College of Nursing and Health Professions Annual Meeting, Evansville, IN. September 2016.

Pharmacology Review for Nurse Practitioners, University of Kentucky College of Nursing, Lexington, KY, September 2016.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Kroger Corporation, Louisville, KY, June 2016

New Drugs: How Do They Stack Up? Kentucky Pharmacists Association Annual Meeting, Louisville, KY, June 2016.

The Pharmacists Role in TB Surveillance and Prevention. Kentucky Society of Health System Pharmacists Annual Meeting, Lexington, KY, May 2016.

Implementation of SB 192 by Pharmacists: Status, Opportunities and Challenges. Kentucky Pharmacy Law Review, Lexington, KY, April 2016.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists.

Kentucky Pharmacists Association Mid-Year Legislative Conference, Lexington, KY, November 14, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. UK/Sullivan Statewide Preceptor Conference, Lexington, KY, October 23, 2015.

Pharmacology Review for Nurse Practitioners, Kentucky Coalition of Nurse Practitioners & Nurse Midwives, Danville, KY, October 3, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. UK HealthCare CE Central's 2015 Advances in Pharmacy Practice: Annual Fall Conference, Lexington KY, October 2, 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Kentucky Society of Health-System Pharmacists 2015 Annual Fall Meeting, Louisville, KY, October 2, 2015.

12th Annual Pharmacology Update for Advanced Practice Nurses. University of Southern Indiana College of Nursing and Health Professions Annual Meeting, Evansville, IN. September 2015.

Pharmacology Review for Nurse Practitioners, University of Kentucky College of Nursing, Lexington, KY, September 2015.

Increasing Naloxone Access in Kentucky: Implementation of SB 192 by Pharmacists. Kentucky Pharmacists Association Annual Meeting, Bowling Green, KY, June 2015

New Drugs: How Do They Stack Up? Kentucky Pharmacists Association Annual Meeting, Bowling Green, KY, June 2015.

Impact of HB1 on Drug Abuse and Diversion in Kentucky: Preliminary Results from the HB1 Impact Study, 2015 Kentucky Pharmacy Law Review, Lexington, KY, April 2015.

Effective Legislative Involvement. Kentucky Pharmacists Association (KPhA) Mid-Year Conference on Legislative Priorities. Lexington, KY, November 2014.

Pharmacology Review for Nurse Practitioners, University of Kentucky College of Nursing, Lexington, KY, September 2014.

11<sup>th</sup> Annual Pharmacology Update for Advanced Practice Nurses. University of Southern Indiana College of Nursing and Health Professions Annual Meeting, Evansville, IN. September 2014.

Substance Use Policy: Implications for Pharmacists. APSC Meeting for Independent Pharmacy, Covington, KY, August 2014.

New Drugs: How Do They Stack Up? Kentucky Pharmacists Association Annual

Meeting, Lexington, KY, June 2014.

Advanced Pharmacology Update. Murray State University, Murray, KY, June 2014.

Medical Marijuana Policy in the US: Implications for Pharmacists. 2014 Kentucky Pharmacy Law Review, Lexington, KY, April 2014.

Effective Legislative Involvement. Kentucky Pharmacists Association (KPhA) Mid-Year Conference on Legislative Priorities. Lexington, KY, November 2013.

Curbing Methamphetamine Abuse: It's all About Supply and Demand. Advances in Pharmacy Practice Annual Fall Conference, Lexington, KY, October 2013.

Pharmacology Review for Nurse Practitioners, University of Kentucky College of Nursing, Lexington, KY, September 2013.

10<sup>th</sup> Annual Pharmacology Update for Advanced Practice Nurses. University of Southern Indiana College of Nursing and Health Professions Annual Meeting, Evansville, IN. September 2013

Advanced Pharmacology Update. Ephraim McDowell Regional Medical Center, Danville, KY, September 2013.

Changing the Game to Win: Strategies and Development of Adherence and Other Programs to Keep Your Pharmacy in the Game. APSC Meeting for Independent Pharmacy, Lexington, KY, August 2013.

New Drugs: How Do They Stack Up? Kentucky Pharmacists Association Annual Meeting 2013, Louisville, KY, June 2013.

Medical Errors in the Era of Health Information Technology, University of Kentucky Pharmacy Law Review, Lexington, KY, April 2013.

Personalized Medicine: Using Genetic Information to Guide Drug Therapy. UK Nursing Grand Rounds, Lexington, KY, February 2013.

Advanced Pharmacology Update for Nurses. UK College of Nursing, Advanced Practice Nursing Conference, January 2013.

Advancing Pharmacy Practice in Kentucky: Opportunities and Challenges. Kentucky Society of Health-System Pharmacists, Louisville, KY, October 2012.

Pharmacologic Interventions and Outcomes in Obesity, Advances in Pharmacy Practice Annual Fall Conference, Lexington, KY, October 2012

9<sup>th</sup> Annual Pharmacology Update for Advanced Practice Nurses. University of Southern Indiana College of Nursing and Health Professions Annual Meeting, Evansville, IN.

September 2012.

Advanced Pharmacology Update, Ephraim McDowell Regional Medical Center, Danville, KY, September 2012.

Implementing a Pharmacogenomics Screening and Counseling Service in Your Pharmacy. APSC Meeting for Independent Pharmacy, Lexington, KY, August 2012.

Advanced Pharmacology Update. Murray State University, Murray, KY, July 2012.

New Drugs: How Do They Stack Up? KPHA Annual Meeting, May 2012, Lexington, KY, June 2012.

Expanded Immunization Authority for Pharmacists: Tips for Implementing a Successful Immunization Program, University of Kentucky Pharmacy Law Review, Lexington, KY, April 2012.

Incorporation of Pharmacogenetics and Personalized Medicine in a Pharmacy Practice Setting, 2011 Advances in Pharmacy Practice Annual Fall Conference, Lexington, KY, October 2011

8<sup>th</sup> Annual Pharmacology for Advanced Practice Nurses, University of Southern Indiana College of Nursing and Health Professions, Evansville, IN, September 2011.

Pharmacology Review for Nurse Practitioners, University of Kentucky College of Nursing, Lexington, KY, September 2011.

Advanced Pharmacology Update, Ephraim McDowell Regional Medical Center, Danville, KY, September 2011.

Advanced Pharmacology Update, Murray State University, Murray, KY, July 2011.

Keeping Up: Review of New Medicines, Kentucky Pharmacists Association Annual Meeting, Lexington, KY, June 2011.

Expanded Immunization Authority for Pharmacists: Implementation Considerations, University of Kentucky Pharmacy Law Review, Lexington, KY, April 2011.

The Future of KASPER: Technology Enhancements, APSC Meeting for Independent Pharmacy, Lexington, KY, August 2010.

Pharmacology Review for Nurse Practitioners, University of Kentucky College of Nursing, Lexington, KY, August 2010.

Advanced Pharmacology Update, Ephraim McDowell Regional Medical Center, Danville, KY, August 2010.

Keeping Up: Review of New Medicines, Kentucky Pharmacists Association Annual Meeting, Lexington, KY, June 2010.

Quality Assurance 101, APSC Meeting for Independent Pharmacy, Lexington, KY, August 2009.

Pharmacology Review for Nurse Practitioners, University of Kentucky College of Nursing, Lexington, KY, August 2009.

Advanced Pharmacology Update, Ephraim McDowell Regional Medical Center, Danville, KY, August 2009.

New Medicines Review, Kentucky Pharmacists Association Annual Meeting, Lexington, KY, June 2009.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy, Bowling Green, KY, March 2009.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy, Lexington, KY, March 2009.

New Drug Update, University of Kentucky College of Pharmacy, Somerset, KY, January 2008.

APSC Adult Immunization Training Program, Frankfort, KY, September 2008.

Pharmacology Review for Nurse Practitioners, Lexington, KY, August 2008.

Advanced Pharmacology Update, Ephraim McDowell Regional Medical Center, Danville, KY, August 2008.

Medication Use Safety and Quality in Community Pharmacies, APSC Meeting for Independent Pharmacy, Lexington, KY, August 2008.

New Medicines Review, Kentucky Pharmacists Association Annual Meeting, Lexington, KY, June 2008.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy, Lexington, KY, March 2008.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy, Paducah, KY, March 2008.

Understanding CLIA and OSHA: A Primer for Pharmacists, Ohio Pharmacists Association/Ohio Society of Health-Systems Pharmacists Fall Meeting, Columbus, OH, November 2007.

Adult Immunization Update, APSC Meeting for Independent Pharmacy, Lexington, KY,

September 2007.

OTC Update, Joint Meeting of Kentucky Pharmacists, Louisville, KY, June 2007.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy, Lexington, KY, April 2007.

Pharmacotherapy Update: Drugs and Hearing Loss, Kentucky Speech Language Hearing Association Annual Conference, Lexington, KY, March 2007.

Pharmacy Update: New Drugs and Vaccines, University of Kentucky College of Nursing Continuing Education, Berea, KY, March 2007.

Update on Adult and Pediatric Immunizations, 2006 Advances in Pharmacy Practice Annual Fall Conference, Lexington, KY, October 2006.

Immunization Update, Kentucky Pharmacists Association Annual Meeting, Bowling Green, KY, June 2006.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy, Lexington, KY, May 2006.

Recognizing and Preventing Cytochrome P-450 – Mediated Drug Interactions, University of Kentucky College of Pharmacy Continuing Education Program, Lexington, KY, April 2006.

Implementing a Medication Therapy Management Program in Your Pharmacy, APSC Meeting for Independent Pharmacy, Lexington, KY, September 2005.

Medicare Part D: Medication Therapy Management, Kentucky Pharmacists Association Annual Meeting, Lexington, KY, July 2005.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy Continuing Education Program, Bowling Green, KY, June 2005

Controlled Substances Review, Kentucky Coalition of Nurse Practitioners and Nurse Midwives Regional Conference, Lexington, KY, April 2005.

Pharmacy Update, University of Kentucky College of Nursing Continuing Education Program, Lexington, KY, February 2005.

Pharmacy Update, University of Kentucky College of Nursing Continuing Education Program, Lexington, KY, October 2004.

Understanding Cytochrome P-450 Mediated Drug Interactions, APSC Meeting for Independent Pharmacy, Lexington, KY, September 2004.

APSC Adult Immunization Training Program, APSC Foundation for Education & Research, Frankfort, KY, August 2004.



Providing Care across the Continuum of Pharmacy Practice, Kentucky Pharmacists Association Annual Meeting, Louisville, KY, June 2004.

New Drug Update, Kentucky Pharmacists Association Annual Meeting, Louisville, KY, June 2004.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy Continuing Education Program, Lexington, KY, June 2004.

Pharmacy Update, University of Kentucky College of Nursing Continuing Education Program, Lexington, KY, February 2004.

New Drug Update, APSC Meeting for Independent Pharmacy, Lexington, KY, September 2003

Pharmacy Update, University of Kentucky College of Nursing Continuing Education Program, Lexington, KY, September 2003.

APSC Adult Immunization Training Program, University of Kentucky College of Pharmacy Continuing Education Program, Lexington, KY, June 2003.

New Drug Update, Kentucky Pharmacists Association Annual Meeting, Lexington, KY, June 2003.

Safety and Efficacy of Common Herbs and Dietary Supplements, University of Kentucky College of Pharmacy Fall Conference, Lexington, KY, October 2002.

New Drug Update, APSC Meeting for Independent Pharmacy, Lexington, KY, September 2002.

New Drug Update, APSC Meeting for Independent Pharmacy, Lexington, KY, September 2001.

New Drug Indications, University of Kentucky College of Pharmacy Fall Conference, Lexington, KY, October 2000.

New Drug Update, APSC Meeting for Independent Pharmacy, Lexington, KY, September 2000.

Herbal Medicine: What Do We Know? Kentucky Academy of Family Physicians Annual Meeting, Louisville, KY, May 2000.

Appropriate Use of Pediatric Non-prescription Medications, Kentucky Coalition of Nurse Practitioners/Nurse Midwives Annual Conference, Louisville, KY, April 2000.

New Drug Indications, University of Kentucky College of Pharmacy Fall Conference, Lexington, KY, October 1999.

Review of the Management of Hypertension and the Pharmacology of Anti-hypertensives, APSC Meeting for Independent Pharmacy, Lexington, KY, August 1999.

Natural Products, Nutraceuticals and Dietary Supplements, APSC Meeting for Independent Pharmacy, Lexington, KY, August 1999.

Safety and Efficacy of Common Herbs and Dietary Supplements, Kentucky Society for Parenteral and Enteral Nutrition Annual Meeting, Louisville, KY, June 1999.

Pediatric Drug Update, Kentucky Coalition of Nurse Practitioners/Nurse Midwives Annual Conference, Louisville, KY, April 1999.

Understanding CLIA: Incorporating Lab Monitoring in Your Pharmacy, APSC Meeting for Independent Pharmacy, Lexington, KY, September 1998.

Clinical Interpretation of Common Laboratory Values, University of Kentucky College of Pharmacy Continuing Education Program, Lexington, KY, August 1998.

New Drug Indications, University of Kentucky College of Pharmacy Fall Conference, Lexington, KY, October 1998.

Prevention, Diagnosis and Treatment of Osteoporosis, APSC Meeting for Independent Pharmacy, Lexington, KY, September 1998.

Implementing an Osteoporosis Care Program in Your Pharmacy, APSC Meeting for Independent Pharmacy, Lexington, KY, September 1998.

Safety and Efficacy of Common Herbs and Dietary Supplements, APSC Meeting for Independent Pharmacy, Lexington, KY, September 1998.

New Drugs for Primary Care, Kentucky Coalition of Nurse Practitioners/Nurse Midwives Annual Conference, Lexington, KY, April 1996.

### **National**

The Pharmacist as a Public Health Provider, Partner, and Researcher. Hosted by APhA-APRS, Webinar Invited Panelist, February 2, 2016.

Pharmacology Update for Advanced Practice Nurses. Society of Clinical Nurse Specialist Educators, Louisville, KY, October 2012.

Dietary Supplements in Gastrointestinal Disease, The Society of Gastroenterology Nurses and Associates 30<sup>th</sup> Annual Course, Atlanta, GA, May 2003.

Dietary Supplement Update: Dietary Supplements in Chronic Disease, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, February 2003.

Women's Health: Herbs of Special Interest, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, May 2002.

Women's Health: Herbs of Special Interest, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, February 2002.

Safety and Efficacy of Common Herbs and Dietary Supplements, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, May 2001.

Safety and Efficacy of Common Herbs and Dietary Supplements, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, February 2001.

Herb and Vitamin Update, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, May 2000.

Herb and Vitamin Update, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, February 2000.

What Your Patients Ingest That You Don't Prescribe, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, November 1999.

What Your Patients Ingest That You Don't Prescribe, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, May 1999.

What Your Patients Ingest That You Don't Prescribe, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, February 1999.

New Drug Update, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, November 1998.

New Drug Update, University of Kentucky College of Medicine, Family Medicine Review, Lexington, KY, November 1996.

## **XV. ADMINISTRATIVE ACTIVITY/COMMITTEES**

### *Department of Pharmacy Practice and Science*

2012 - Leadership Team

2015 Strategic Planning Committee – Research Objectives

2015 Strategic Planning Committee – Practice Objectives

2009 - 2012 Executive Committee

2006 - 2011 Education Advisory Committee

2008 Owensboro Clinical Training Coordinator Search Committee, Chair  
2008 Department of Pharmacy Practice and Science Chair Search Committee  
2007 - 2008 Department Reorganization Workgroup  
*College of Pharmacy*  
Continuing service  
2018 - Faculty Council  
2017 - Co-Chair, Substance Use Disorders Recruitment Committee  
2015 - Academic Performance Committee  
2012 - Research Advisory Committee  
2006 - KAPS Legislative Committee Faculty Liaison

Completed service

2017 Chair, Technical Standards Workgroup  
2017 Director of Development Search Committee  
2014 - 2015 Faculty Secretary  
2013 - 2015 Curricular Revision Content Committee  
2013- 2014 Academic Performance Committee  
2012 - 2013 Student Affairs Committee  
2012 - 2103 Honors and Awards Sub-Committee  
2010 - 2011 Health Care Colleges Behavioral Code Committee, Chair  
2008 - 2011 College Background Check/Drug Screening Advisory Committee  
2007 - 2011 Experiential Education Director  
2006 - 2011 Patient Care Laboratory Director  
2009 - 2010 Academic Issues Resolution Team  
2009 - 2010 New Building Implementation Team  
2007 - 2008 Outreach Committee  
2007 - 2008 Continuing Pharmacy Education Advisory Committee  
2005 - 2007 National Community Pharmacists Association Faculty Co – Liaison  
2005 - 2007 Building Sub-Committee for Academics  
2004 - 2010 College Curriculum Committee  
2002 - 2003 Continuing Education Sub-committee  
1997 - 1998 Year Coordinator, 3<sup>rd</sup> Professional Year  
1997 - 1998 Honors and Recognition Committee  
1996 - 1997 Nominations Committee  
1996 - 1998 National Community Pharmacists Association Faculty Liaison

*University of Kentucky*

2018 - Creating a Culture of Health Planning Committee  
2015 – 2016 Co-Chair, College of Pharmacy Dean Search Committee  
2014 – 2016 Center for Health Services Research Steering Committee

- 2010 – 2016 UK Healthcare CE Advisory Board  
Co-Chair, 2014-2016
- 2009 – 2011 Health Care Colleges Behavioral Code Committee
- 2008 – 2010 Health Care Colleges Council (HCCC)
- 2009 – 2010 College of Pharmacy Dean Search Committee
- 2008 – 2009 College of Pharmacy Dean Review Committee
- 2008 – 2009 University Strategic Planning Committee
- 2006 – 2008 Health Care Colleges Council (HCCC), Alternate

## **XVI. PROFESSIONAL ACTIVITIES**

### Professional Organizations Memberships

- Alexander Graham Bell Association for the Deaf 2000 – 2008; 2011 – present  
Legislation and Policy Action Committee 2003 – 2004
- American Association of Colleges of Pharmacy 2016 – present, 2004 – 2010, 1995 – 1998  
Substance Abuse SIG Programming Committee  
Tobacco Control Committee, 2017-2018  
Public Health SIG Programming Committee, 2016-2017  
Faculty Delegate, 2010 – 2011  
Faculty Delegate, 2008 – 2009
- American Pharmacists Association 1998 – present  
American Pharmacists Government Affairs Committee (GAC), 2012 – 2013  
American Pharmacists Association Key Contact for Kentucky, 2010 –  
American Pharmacists Association Policy Committee 2009 – 2010  
Kentucky Delegate, 2007, 2009, 2015  
APRS Delegate 2016
- American Society of Health-System Pharmacists 2005 – present
- Bluegrass Pharmacists Association 1988 – present  
Executive Council Member, 1988 – 1989  
Chairperson, Public Relations Committee, 1988 – 1989
- International Society for Pharmacoeconomics and Outcomes Research (ISPOR)  
2010 – 2015
- Kentucky Pharmacists Association 1998 – present  
Chair, 2017-2018  
President, 2016-17  
President Elect, 2015-16  
Chair, Provider Status Workgroup, 2013-2016  
Chair, Membership Engagement Committee, 2015 - 2016  
Budget and Audit Committee, 2012 – 2014, 2015 - present  
Executive Committee, 2012 – 2013; 2015-present  
Director, Board of Directors, 2010 – 2014, 2015- present  
Professional Affairs Committee, 1998 – 2005; 2007 – 2011  
Contract Committee, 2011 – 2013

- Kentucky Society of Health Systems Pharmacists 2000 – present  
Legislative Affairs Committee, 2000 – 2004  
Professional Affairs Committee, 2000 – 2001
- National Community Pharmacists Association 1998 –2010
- U.S. Pharmacopeial (USP) Convention 2014 – present  
Voting Delegate for KPhA, 2014 - present

## **XVII. ADVISING ACTIVITY**

### **Post-doctoral Fellows**

2017 - Emily Hankosky, PhD, College of Pharmacy, Member F32 Mentoring Team

### **Doctoral Students**

2018 - Kailyn Conner, College of Pharmacy; Committee Member

2018 - Ashley Martinez, College of Pharmacy; Committee Member

2018 - Jessin Joseph, College of Pharmacy; Committee Member

2017 - JiYeon Oh, College of Public Health; Committee Member

2017 - Huong Luu, College of Public Health; Committee Member

2016 - Pratik Doshi, College of Pharmacy; Committee Member

2015 - 2018 Nathan Pauly, College of Pharmacy; Committee Member

2012 - 2015 Sarah Wixson, College of Pharmacy; Committee Member

2012 - 2013 Pamela Lynn Phares, College of Nursing; Committee Member

### **Masters Students**

2018- Eric Lindahl; Thesis Advisor

2017- Catherine Serratore; Thesis Advisor

2016-2017 Joseph Vanglehof; Thesis Committee Member

2016-2017 Ashley Martinez, College of Pharmacy; Thesis Advisor

2015-2016 Katie Herren, College of Pharmacy; Thesis Committee Member

### **Residents**

2017 – 2018 Sullivan Health and Wellness Residency/Fellowship, Resident Research Advisor for Catherine Serratore, Pharm.D.

- 2005 – 2006 UK/APSC Community Pharmacy Residency, Resident Co-preceptor for Brad Ward, Pharm.D.
- 2004 – 2005 UK/APSC Community Pharmacy Residency, Resident Co-Preceptor for John J McDaniel, Pharm.D.
- 2003 – 2004 UK/APSC Community Pharmacy Residency, Resident Co-Preceptor for JD Hammond, Pharm.D
- 2001 – 2002 UK/APSC Community Pharmacy Residency, Resident Preceptor for Tera McIntosh, Pharm.D., Kentucky's first Community Pharmacy Resident.
- 1998 – 2004 Clerkship Program, University of Kentucky College of Pharmacy, Pharmacy preceptor for twenty-nine Pharm.D. Candidates.
- 1997 – 1998 ASK Program, University of Kentucky College of Pharmacy, advisor to six pharmacy students.

#### **XVIII. PUBLIC SERVICE**

- 2012- Chairman, Advancing Pharmacy Practice in Kentucky Coalition Steering Committee
- 2011- 2017 Parent Mentor, Bionic Ear Association
- 2010- 2017 Member and Vice Chair (2010-2014), Department of Medicaid Drug Management Review Advisory Board
- 2015-2017 Member, Kentucky Board of Pharmacy e-Prescribing Committee
- 2012 – 2014 Member, Kentucky Area Health Education Centers Advisory Board
- 2007 – 2011 Member, Pharmacy Leadership Council
- 2005 – 2007 Member, Medication Therapy Management Workgroup
- 2004 – 2010 Member, Kentucky Board of Pharmacy Advisory Council
- 2001 – 2004 Member, Kentucky Board of Pharmacy Medication Error Task Force
- 2000 – 2013 Member, Kentucky Commission on the Deaf and Hard of Hearing  
Vice Chair, 2009 – 2011  
Chairman, 2003 – 2009  
Secretary and Executive Board Member, 2000 – 2003

- 2000 – 2004 Children's Rights Coordinator, Alexander Graham Bell Association for the Deaf, National Chapter
- 1999 – 2005 Member, Department of Medicaid Drug Management Review Advisory Board and Drug Utilization Review Subcommittee

## **XIX. OTHER PROFESSIONAL ACTIVITIES**

APSC and the APSC Foundation for Education and Research, Inc. (*As Director of Education and Research for the Foundation*)

- 2005 Developed and presented training program to assist pharmacists in preparing for provision of medication therapy management services under the Medicare part D benefit.
- 2004 Developed and presented training program to assist pharmacists in preparing for meeting USP <Chapter 797> regulations regarding sterile product preparation.
- 2003 Developed and presented orthotic shoe fitting program to prepare pharmacists to fit and dispense orthotic shoes for patient with diabetes.
- 2002 Developed and presented training program to prepare pharmacists for meeting federal HIPAA regulations.
- 2001 Developed and presented diabetes training program to prepare pharmacists to provide diabetes screening and monitoring services.
- 2000 Developed and presented osteoporosis training program to prepare pharmacists to provide osteoporosis screening and management services.
- 1999 Developed and presented adult immunization training program to prepare pharmacists to provide adult immunization services.
- 1998 Developed and presented asthma training program to prepare pharmacists to provide asthma management services.
- 1998 Developed and presented dyslipidemia training program to prepare pharmacists to provide dyslipidemia management services.

## **XX. CONSULTING ACTIVITY**

Consultant services provided as Director of Education and Research for the APSC Foundation of Education and Research, Inc. on the following grants:



- *Can the Contingent Valuation Method Yield Unbiased Estimates for the Value of Pharmacy Services?* Epstein S, Blumenschein K (PI). AFPE Gateway Research Scholar Program. \$5,000; Funded 07/04 – 06/05.
- *Improving Medication-Related Outcomes; Patient Valuation of Diabetes Self-Management Education in Community Pharmacies.* Blumenschein K (PI), Johannesson M, Blomquist G, Horn N. Centers for Disease Control, \$50,029; Funded 09/02 – 08/04.
- *Does Pharmacy Practice Experience Influence the Interpretation of Verbal Probability Statements?* King GS, Blumenschein, K. Merck Research Scholar Program, \$5,500; Funded 07/02 – 06/03.
- *Using Contingent Valuation to Value Pharmacy Services.* Blumenschein K (PI). American College of Clinical Pharmacy Research Award, \$10,000; Funded 7/00 – 06/02.
- *The Relationship between Objective Measures of Disease Severity and Health State Preference Measures in Asthma.* Blumenschein K (PI). American Association of Colleges of Pharmacy New Investigator Award, \$9,880; Funded 10/99 – 12/00.
- *A Test of Hypothetical Bias in Contingent Valuation Applications in Health Care.* Blumenschein K (PI), Johannesson M. Drug Information Association Research Grant Program; \$23,750; Funded 9/98 – 12/99