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EDUCATION

December 1996 Doctor of Philosophy, University of Wisconsin-Madison, School of Pharmacy, Division of Social and Administrative Pharmacy, Madison, Wisconsin.

December 1992 Master of Science, University of Iowa, College of Pharmacy, Division of Pharmaceutical Socioeconomics, Iowa City, Iowa.

December 1985 Bachelor of Science, Drake University, College of Pharmacy, Des Moines, Iowa, Magna Cum Laude.

FIELDS OF SPECIALIZATION

Pharmacoeconomics and Outcomes Research
Pharmacoepidemiology
Health services research and Medicaid policy analysis

CURRENT APPOINTMENTS

1/06-present Associate Professor, University of Kansas School of Medicine, Department of Preventive Medicine & Public Health

- Affiliate Faculty, Gerontology Center, University of Kansas, Lawrence, Kansas
- Associate Scientist, Landon Center on Aging, University of Kansas Medical Center, Kansas City, Kansas

PREVIOUS RESEARCH AND TEACHING POSITIONS

7/03-12/05 Associate Professor with Tenure & Graduate Faculty, University of Kansas School of Pharmacy

- Director, Multicultural Pharmacy Scholars Program
- Affiliate Faculty, Gerontology Center, University of Kansas, Lawrence, Kansas
- Associate Scientist, Landon Center on Aging, University of Kansas Medical Center, Kansas City, Kansas

1/00-6/03 Assistant Professor, Graduate Faculty, University of Kansas School of Pharmacy.

- Affiliate Faculty, Gerontology Center, University of Kansas, Lawrence, Kansas
- Assistant Scientist, Landon Center on Aging, University of Kansas Medical Center, Kansas City, Kansas

11/97-12/99 Faculty Research Fellow, Institute for Health Policy and Health Services Research, University of Cincinnati Medical Center.

10/97-12/99 Assistant Professor of Pharmacoeconomics, University of Cincinnati Medical Center, College of Pharmacy.

3/97-8/97 Research Consultant, University of Wisconsin-Madison, School of Pharmacy.

8/94-5/97 Project Assistant, Sonderegger Research Center, University of Wisconsin-Madison, School of Pharmacy.

1/94-5/94	Teaching Assistant, University of Wisconsin-Madison, School of Pharmacy.
6/92-8/93	Research Assistant, University of Iowa, College of Medicine, Department of Preventive Medicine and Center for Health Services Research.
8/91-12/91	Teaching Assistant, University of Iowa, College of Pharmacy.
6/91-8/91	Social Science Research Analyst, Health Care Financing Administration, Office of Research and Demonstrations.
1/90-5/91	Teaching and Research Assistant, University of Iowa, College of Pharmacy.

FUNDED GRANTS AND CONTRACTS

Principal Investigator-*Current*

CMS Transformation Grant. Subcontract to Kansas Health Policy Authority. Using Predictive Modeling to Improve Preventive Health Care in the Disabled Medicaid Population
Principal Investigator: Rebecca Ross (KHPA)
Co-Investigators: Theresa Shireman, Allen Greiner, James Backes, Aimee James
$303,784 10/1/2006-9/30/2008 21% salary support
The purpose of this project is to determine the effectiveness of providing case managers with data to promote preventive health care screening for disabled Kansas Medicaid recipients. KUMC will provide a range of support and evaluation services.

University of Kansa Medical Center Lied Center Clinical Pilot Program. Cardiovascular Outcomes Measures in the USRDS: Preliminary Data Analyses for Therapeutic Effectiveness Research.
Principal Investigator: Theresa Shireman
Co-Investigators: Jonathan Mahnken, John Spertus, Edward Ellerbeck, Sally Rigler, James Wetmore
$35,0002/1/2007-1/31/2008 No salary support
The purpose of this project is to compute morbidity and mortality measures using USRDS data for Medicaid-Medicare dually enrolled individuals in the ESRD population.

Kansas Foundation for Medical Care. Subcontract to Centers for Medicare & Medicaid Services Quality Improvement Contract
Principal Investigator: Theresa Shireman
Co-investigators: Madelyn Pollock, Edward Ellerbeck, Timothy McNamara, Ryan Spaulding
$281,832 (Direct: $223,676) 8/1/2005-6/30/2008 7% salary support
My role in this CMS subcontract is to help develop and monitor quality measures for medication-related quality efforts conducted by the QIO pharmacist in accordance with the Medicare Part D drug benefit.

Principal Investigator-*Completed*

Kansas Department of Social and Rehabilitation Services. Health Care Status and Utilization Patterns of MediKan Enrollees
Principal investigator: Theresa Shireman
Co-investigators: Karen Moeller, Barry Liskow, Katherine Froelich-Grobe
$75,0407/1/2004-12/31/2005 20% salary support
The primary purpose of this proposal was to examine the health care benefits provided to MediKan enrollees to distinguish the health status characteristics of those who eventually qualify for SSI/SSDI versus those who do not.

American Heart Association (Heartland Chapter) Grant-in-Aid. Development of a Contemporary Bleeding Risk Model for Elderly Warfarin Recipients
Principal investigator: Theresa Shireman

Co-investigators: Patricia Howard, Edward Ellerbeck, Jonathan Mahnken, Timothy Kresowik
$143,000 1/1/2004-12/31/2005 ~15% salary support
The major goal of this project was to develop a bleeding risk model to help clinicians determine which elderly atrial fibrillation patients are at higher risk for bleeding events while on warfarin.

Kansas Department of Social and Rehabilitation Services. Patterns and Outcomes of Health Service and Medication Use Among Kansas Medicaid's Aged & Disabled Populations
Principal investigator: Theresa Shireman
Co-Investigators: Sally Rigler, Subashan Perera, Dennis Grauer, Patricia Howard, Larry Davidow
$149,999 7/1/2003-6/30/2004 28% salary support
The purpose of this project was to examine medication use patterns, factors that influence those patterns, and their economic impact. Targeted studies have looked at newer versus older drug adoption and the impact on Medicaid expenditures, the selection of anti-resorptive therapy in long-term care patients, and modeling the choice between traditional NSAIDs and Cox-2 selective agents.

Kansas Department of Social and Rehabilitation Services. Medicaid's Direct Cost of Care for Non-Aged Disabled, HCBS-Waivered, and Nursing Home Recipients in Kansas
Principal investigator: Theresa Shireman
Co-Investigators: Sally Rigler, Tomas Griebling, Subashan Perera, Carolyn Jachna, Patricia Howard
$185,217 7/1/2002-6/30/2003 30% salary support
This work was undertaken at the request of SRS in order to identify how Medicaid funds were being spent in their two most expensive patient populations: the aged and disabled. A number of projects were conducted including an exploration of the costs of nursing home care versus home and community-based services, the prevalence of major medical and mental health conditions in each population, and health care service use patterns and expenditures.

University of Kansas General Research Fund. Impact of Drug Therapy on Hospitalizations among Medicaid Patients with Heart Failure
Principal investigator: Theresa Shireman
Co-Investigators: Patricia Howard
$9,725 7/1/2002-6/30/2003 0 salary support
This project evaluated the use of ACE inhibitors in persons with CHF and their impact on subsequent hospitalizations.

American Heart Association (Heartland Chapter) Beginning Grant-in-Aid. Impact of Combined Warfarin-Antiplatelet Therapy on Major Hemorrhagic Events
Principal investigator: Theresa Shireman
Co-investigators: Patricia Howard, Edward Ellerbeck, Timothy Kresowik
$110,000 7/1/2001-6/30/2003 15% salary support
In this grant, we determined how concomitant antiplatelet medication use increased the risk for major bleeding events in atrial fibrillation patients receiving warfarin using Medicare claims and chart-abstracted data.

Ohio Department of Human Services, Medicaid Technical Assistance and Policy Program, and Ohio Board of Regents. Medicaid Retrospective Drug Utilization Review and Health Service Research Program for Ohio: 1999-2001. [Non-competitive renewal]
Principal investigator: Theresa Shireman (Research subcontractor 1/1/2000-6/30/2001)
Co-investigators: Robert Cluxton, Andrea Wall, Michael Botorff, Raymond Jang, John Kues, James Whiting, William Fant, Alfred Tuchfarber, Richard Hornung, Therese Zink, Robert Ludke, Brian Gladue, Jill Martin, Tim Welty,

$1,505,684 6/30/1999-6/30/2001 58% salary support
This contract was a continuation of the previous funding for DUR and HSR services for Ohio Medicaid.

Ohio Department of Human Services, Medicaid Technical Assistance and Policy Program, and Ohio Board of Regents. Medicaid Retrospective Drug Utilization Review and Health Service Research Program for Ohio
Principal investigator: Theresa Shireman
Co-investigators: Robert Cluxton, Andrea Wall, Michael Botorff, Raymond Jang, John Kues, James Whiting, William Fant, Alfred Tuchfarber, Richard Hornung
$689,526 2/27/1998-6/30/1999 50% salary support
The purpose of this contract was to provide retrospective drug utilization review services for the Ohio Medicaid program and undertaken several health services research studies designed to improve the health care provided to Ohio Medicaid enrollees.

AFPE Springboard to Teaching Fellowship. Comorbidities and Compliance Effects on Health Care Costs in Persons with Schizophrenia
Principal investigator: Theresa Shireman
$15,0009/1/1998-8/31/2000 0 salary support
This funding served to help me transition from graduate school to a full-time faculty appointment. The project involved looking at health care and medication use patterns among a large cohort of persons with schizophrenia derived from the Ohio Medicaid enrollment population.

University of Cincinnati University Research Council. Creating a National Community Pharmacy Database for Economic Research
Principal investigator: Theresa Shireman
$5,000 6/15/1998-6/15/1999 0 salary support
In this project, I developed a community pharmacy database to look at retail pharmacy market trends.

Co-Investigator-*Current*
9 K30 RR022275-06 National Institutes of Health KU Medical Center Clinical Research Curriculum Program
Principal Investigator: Edward Ellerbeck
Co-Investigators: Sally Rigler, Won Choi, Theresa Shireman
$1,500,000 (Direct: $1,393,027) 09/15/05 – 07/31/10 10% salary support
This program is designed to support the development of new clinical investigators at the University of Kansas School of Medicine. My role is to mentor K-30 trainees, assist in recruitment and mentoring of K-30 fellows, participate on the Executive Committee, serve as a liaison to faculty development and research in the School of Pharmacy, and assist in our plans to integrate the K-30 effort with the forthcoming CTSA plans. I also offer courses on Cost Effectiveness and Pharmacoepidemiology for K30 participants.

1 R01 HL078580-01 National Heart, Lung & Blood Institute. A Team Model of Hypertension Care in African Americans
Principal Investigator: Bonnie Svarstad
Co-investigators: Jeanine Mount, Stephanie Crawford, Theresa Shireman, Roger Brown, Jane Kotchen, Eva Vivian
$2,390,618 (Direct: $1,875,864) 9/30/2004-9/29/2009 10% salary support
The purpose of this grant is to evaluate the effectiveness of a community pharmacist-based intervention program for improving blood pressure control in African-Americans with hypertension. My role in the project is to conduct a cost-effectiveness analysis of the intervention program.

1 R01 MH079221-01A2 National Institutes of Mental Health. Nursing home falls/fractures on current antipsychotics.
Principal Investigator: Sally Rigler
Co-Investigators: Edward Ellerbeck, Jonathan Mahnken, Theresa Shireman, Jeffrey Whittle, Qingjiang Hou
$812,175 (Direct: $552,500) 4/3/06-3/31/09 10% salary support
This grant will merge data from Medicaid and Medicare claims with the Minimum Data Set to analyze the impact of antipsychotic treatment on fractures.

1 R01 CA101963-01 National Cancer Institute. Disease Management for Smokers in Rural Primary Care
Principal Investigator: Edward Ellerbeck
Co-Investigators: Allen Greiner, Jasjit Ahluwalia, Shawn Jeffries, Chaoyang Li, Theresa Shireman
$3,227,183 (Direct:$2,195,158) 7/1/2003-6/30/2008 10% salary support.
This grant will allow us to create a registry of smokers in 20 primary care practices and examine the impact of a long-term disease management program for smoking cessation. My role in the project is to conduct a cost-effectiveness analysis of the intervention program.

Co-Investigator-*Completed*
University of Kansas General Research Fund. Relapse rates in Schizophrenic Patients Receiving Aripiprazole in Comparison to Other Atypical Antipsychotics
Principal Investigator: Karen Moeller
Co-investigators: Theresa Shireman
$9,849 7/01/2004-6/30/2005 in-kind support
The purpose of this study was to evaluate differences in relapse rates in schizophrenic patients switched to aripiprazole compared to those switched to other atypical antipsychotics.

Kaiser Family Foundation. Prescription Drug Analysis of the Kansas Working Buy-In Program
Principal Investigator: Jean Hall, Ph.D.
Co-Investigators: Theresa Shireman, Jan Moore
$18,51511/15/2004-3/15/2005 5% salary support
In this project we examined the use of medications in a dually eligible population in order to identify the potential impact of the Medicare Modernization Act on access to medications for disabled persons.

Kansas Department on Aging. Long Term Care for the Elderly Projects: Diversion and Successful Community Tenure among Kansas NF Applicants: The Role of Diagnoses and Medication Use
Principal Investigator: Rosemary Chapin, Ph.D.
Co-Investigators: Sally Rigler, Theresa Shireman, Mary Zimmerman
$1,665,363 7/1/2004-6/30/2005 10% salary support + 10% in-kind
This project was a continuation of KDOA funding.

Kansas Department on Aging. Long Term Care for the Elderly Projects: Expanded Examination of Factors Related to Diversion and Successful Community Tenure for Medicaid Customers: The Effect of Diagnosis and Prescription Drug Use
Principal Investigator: Rosemary Chapin, Ph.D.
Co-Investigators: Sally Rigler, Theresa Shireman, Mary Zimmerman
$1,357,396 7/1/2003-6/30/2004 10% salary support + 10% in-kind
This project examined factors related to diversion, nursing facility admission and length of community tenure that were previously unexplored for older adults who had applied for nursing facility placement.

American Academy of Family Physicians Foundation. Teen Compliance with Contraception: Analysis of the Ohio Medicaid DUR Data Base.
Principal Investigator: Therese Zink, MD, MPH
Co-Investigator: Theresa Shireman
$4,985 6/15/1999-12/15/1999 3% salary support
This project looked at compliance rates with contraceptives for sexually active Ohio Medicaid teenagers.

American Academy of Family Physicians Foundation. Impact and Treatment of Congestive Heart Failure in Long-Term Care Settings
Principal Investigator: Douglas Smucker, MD, MPH
Co-Investigator: Theresa Shireman
$4,956 3/1/1999-11/1/1999 3% salary support
This project explored CHF treatment among Ohio Medicaid nursing home residents.

PENDING GRANTS & CONTRACTS
1R01DK080111-01 NIH/NHLBI. Are Cardioprotective Medications Effective in ESRD?
Principal Investigator: Theresa Shireman
Co-Investigators: Jonathan Mahnken, John Spertus, Edward Ellerbeck, Sally Rigler, James Wetmore, John Brooks
$1,859,905 (direct: $1,350,620) 7/1/2007-6/30/2012 35% salary support
The purpose of this project is to determine the primary and secondary prevention effectiveness of cardioprotective medications in the ESRD population on hemodialysis.

R21 NCI Peer Outreach to Facilitate Colorectal Cancer Screening in Safety-Net Clinics
Principal Investigator: Aimee James
Co-Investigators: Theresa Shireman, Christine Daley, Allen Greiner, Jonathan Mahnken, Edward Ellerbeck
$404,250 (direct: $275,000) 12/1/2007-11/30/2009 5% salary support
The purpose of this project is to use peer outreach counselors to improve colorectal cancer screening rates for clients in safety-net clinics. My role is to conduct a cost analysis of this intervention.

FELLOWSHIPS/AWARDS
Best Health Services Research Paper, American Geriatrics Society, 2004
Presidential Poster Session, American Geriatrics Society, 2004
Presidential Poster Session, American Geriatrics Society, 2003
AFPE Springboard to Teaching Fellowship 1998-2000
NIH Interdisciplinary Training in Outcomes Research 1998
Rennebohm Dissertation Research Award 1997
AFPE-NARD Association Fellowship in Pharmacy Administration 1993-1994
Wakeman/Hammel Fellowship in Pharmacy Administration 1993-1994
AFPE Fellowship 1991-1993

PUBLICATIONS
Submitted:

Published:

Trewet CB, Shireman TI, Rigler SK, Howard PA. Do angiotensin converting enzyme inhibitors/angiotensin receptor blockers reduce hospitalizations in older heart failure patients: A propensity analysis. In press, *Drugs and Ageing.*

Rigler, SK, Shireman TI, Kallenbach L. Predictors of Long-Acting Opioid Use and Oral versus Transdermal Route Among Older Medicaid Beneficiaries. In press, *Am J Geriatr Pharmacother*.

Shireman TI, Hall JP, Rigler SK, Moore JM. Medicaid's Expenditures for Newer Pharmacotherapies for Adults with Disabilities. In press, *Health Care Financing Review.*

Moeller KE, Shireman TI, Liskow B. Relapse rates in Patients with Schizophrenia Receiving Aripiprazole in Comparison to Other Atypical Antipsychotics. *J Clin Psych* 2006;67:1942-1947.

Shireman TI, Mahnken JD, Howard PA, Kresowik TF, Hou Q, EllerbeckEF. Development of a contemporary bleeding risk model for elderly warfarin recipients. *Chest* 2006;130:1390-1396.

Shireman TI, Rigler SK. Selection of Coxibs relative to non-selective NSAIDs in an older Medicaid cohort. *Am J Geriatr Pharmacother* 2006;4:210-218.

Hall JP, Moore JM, Shireman TI. Unintended consequences: The potential impact of Medicare Part D on dual eligibles with disabilities in Medicaid Work Incentive Program. Kaiser Commission on Medicaid and the Uninsured, May 2005. Available at www.kff.org. [non-peer reviewed]

Rigler SK, Jachna CM, Perera S, Shireman TI, Eng ML. Patterns of potentially inappropriate medication use across three cohorts of older Medicaid recipients. *Ann Pharmacother* 2005; 39:1175-1181.

Shireman TI, Rigler SK, Jachna C, Griebling T, Eng M. The cost impact of newer medication adoption in an older Medicaid cohort, *J Amer Geriatr Soc* 2005;53:1366-1373.

Howard PA, Shireman TI, Heart failure drug utilization patterns for Medicaid patients before and after a heart-failure related hospitalization, *Conges Heart Fail* 2005;11:124-128.

Jachna CM, Shireman TI, Whittle J, Ellerbeck EF, Rigler SK. Differing patterns of antiresorptive pharmacotherapy among nursing facility residents and community dwellers, *J Amer Geriatr Soc* 2005;53:1275-1281.

Shireman TI, Reichard A, Rigler SK.Psychotropic Medication use among Kansas Medicaid youths with disabilities, *J Child Adolesc Psychopharmacol* 2005;15(1):107-115.

Rigler SK, Perera S, Jachna C, and TI Shireman. Higher disease burden is associated with increased inappropriate medication use in home dwellers but not in nursing facility residents, *J Geriatr Pharmacother* 2004;2(4):239-247.

Shireman TI, Howard PA, Kresowik TF, and EF Ellerbeck. Combined anticoagulant-antiplatelet use and major bleeding events in elderly atrial fibrillation patients, *Stroke* 2004;35(10):2362-7.

Shireman TI and SK Rigler. Penny wise, pound wise: A comparison of Medicaid expenditures for home and community-based services versus nursing home care for older adults. *Home Health Care Serv Quart* 2004;23(4):15-28.

Shireman TI and KS Braman. The impact and cost-effectiveness of respiratory syncytial virus prophylaxis for Kansas Medicaid's high-risk children, *Arch Pediatr Adolesc Med* 2002;156:1251-6.

Shireman TI. Prescription utilization and cost differences among three therapeutic classes between Medicaid fee-for-service and managed care enrollees, *J Res Pharmaceut Econ* 2002;12(2):69-86.

Shireman TI, Olson BM, and NA Dewan. Patterns of antidepressant use among children and adolescents, *Psych Serv* 2002;53:1444-50.

Howard PA, Shireman TI, Dhingra A, Ellerbeck EF, and JE Fincham. ACE inhibitor patterns of use in elderly Medicaid patients with heart failure, *Amer J Geriatr Cardiol* 2002;11:287-294.

Shireman TI and Kelsey KA. Prescribing patterns and retreatment rates in otitis media, *Clin Drug Eval* 2002;22(5):303-11.

Shireman TI, Hornung R, Ho M, Moomaw C, and R Jang. Prescription utilization and costs savings achieved with Medicaid managed care plans, *J Amer Pharm Assoc* 2002;42:587-93.

Shireman TI, Heaton PC, Gay WE, Cluxton RJ, and CJ Moomaw. Relationship between asthma drug therapy patterns and healtcare utilization. *Annals Pharmacother* 2002:36:557-564.

Zink TM, Shireman TI, Ho M, and T Buchanan. High-risk teen compliance with prescription contraception: An analysis of the Ohio Medicaid claims. *J Pediatr Adolesc Gynecol* 2002;15:15-21.

Mrus JM, Shireman TI, Moomaw CJ, and J Tsevat. Development of an HIV research database using Medicaid claims data, *AIDS & Public Policy Journal* 2001;16:48-54.

Shireman TI, Martin JE, and JF Whiting. The cost of transplant graft maintenance following solid organ transplantation, *Transplantation Proceedings* 2001;33:1920-1.

Martin JE, Shireman TI, First MR, and JF Whiting. Quality of life following solid organ transplantation in Medicaid beneficiaries *Transplantation Proceedings* 2001;33:1909.

Svarstad BL, Shireman TI, and JK Sweeney. Using claims data to assess medication adherence and its effect on hospital use and costs in severe mental illness, *Psych Serv* 2001;52(6):805-811.

Shireman TI, Tsevat J, and S Goldie. Assessment of time costs associated with cervical cancer screening, *Internat J Tech Assessment Health Care*, 2001;17(1):146-152.

Shireman TI, and DH Kreling. Impact of third party penetration and competition on community pharmacies' profits, *J Res Pharmaceut Econ* 2000;10(1):7-28.

Shireman TI, Svarstad BL, and K Sweeney. Validity of claims data for long-acting injectable medications, *J Pharmacoepidemiol*, 1999; 7(2):41-55.

Chrischilles E, Shireman T, and R Wallace. Cost and health effects of osteoporotic fractures, *Bone* 1994;15(4):377-386.

Shireman TI, Hilsenrath PE, Strauss RG, Widness JA, and AH Mutnick. Recombinant human erythropoietin vs transfusions in the treatment of anemia of prematurity: A cost-benefit analysis, *Arch Pediatr Adolesc Med* 1994;148:582-588.

PUBLISHED ABSTRACTS

Shireman TI, Mahnken JD, Howard PA, Kresowik TF, Ellerbeck EF, Hou Q. Development of a bleeding risk model for elderly warfarin recipients with atrial fibrillation. *Circulation* 2005;112(suppl II):823.

Shireman TI, Rigler SK, Jachna CM, Griebling TL, Eng ML. Where do Medicaid drug dollars go? An analysis of newer pharmaceuticals across diverse drug classes. *J Amer Geriatr Soc* 2004;52:S8.

Rigler SK, Shireman TI, Perera S, Jachna C, Eng M. The impact of comorbidity on inappropriate medication use: Differing patterns among nursing home residents and recipients of home-and community-based services. *J Amer Geriatr Soc* 2004;52:S175.

Howard PA, Shireman TI. Impact of drug therapy patterns on heart failure hospitalizations in Medicaid patients. *J Card Fail* 2003;9(5):S91.

Shireman TI, Rigler SK, Braman KS, and RM Day. Are home and community-based services less costly than nursing home care? *J Amer Geriatr Soc* 2003;51:S33.

Shireman TI, Rigler SK, Braman KS, and RM Day. Do home and community-based services reduce nursing home placement? *J Amer Geriatr Soc* 2003;51:S215-6.

Rigler SK, Shireman TI, and C Jachna. Cholinesterase inhibitor use among older Medicaid beneficiaries. *J Amer Geriatr Soc* 2003;51:S74.

Howard PA, Shireman TI, Dhingra A, Ellerbeck EF, Fincham JE. ACE inhibitor patterns of use in elderly Medicaid patients with heart failure. *Amer J Geriatr Cardiol* 2001;10:118.

Shireman TI and AV Joshi. Prescription utilization and cost differences among three therapeutic classes between Medicaid fee-for-service and managed care enrollees. *J Amer Pharmaceut Assoc* 2001;41:327.

Joshi AV and TI Shireman. The impact of insurance coverage on prescribing patterns following an outpatient visit in a Medicaid population. *J Amer Pharmaceut Assoc* 2001;41:319.

Shireman TI, Pancioli AM, Miller EL, Spilker JA, Kissela BM. Resource use and costs of ischemic strokes in a managed care setting. *Stroke Abstracts from the 26th International Stroke Conference* 2001;P200.

Shireman TI, Pancioli AM, Miller EL, Spilker JA, Kissela BM. How are TIAs managed in a managed care setting: Resource use and costs. *Stroke Abstracts from the 26th International Stroke Conference* 2001;P193.

Smith WE, Shireman TI, Jones J, Heaton PC, and P Jennings. Health care use in an Ohio Medicaid asthma population. *ASHP Midyear Clinical Meeting* 1999;34:P-491D.

Heaton PC, Shireman TI, Jones J, Jennings P, and RT Cluxton. National Asthma Treatment Guidelines: An evaluation of the Ohio Medicaid population. *ASHP Midyear Clinical Meeting* 1999;34:P-491D.

Shireman TI, Tsevat J, and S Goldie. Assessment of time costs associated with cervical cancer screening. *Association for Health Services Research Abstracts of the 16th Annual Meeting* 1999;180.

Shireman TI, Kreling DH, and BA Chewning. Economic factors affecting utilization of NSAIDs. *APhA Annual Meeting* 1996;143:18..

Beltz EA, Dayton CS, Shireman TI. Confirmation of the theophylline-ciprofloxacin interaction in adult critical care and pulmonary patient populations. *ASHP Midyear Clinical Meeting* 1988;23:P-147.

PRESENTATIONS

National & International Meetings

Podium Presentations

Shireman TI, Mahnken JD, Howard PA, Kresowik TF, Ellerbeck EF, Hou Q. Development of a bleeding risk model for elderly warfarin recipients with atrial fibrillation. American Heart Association Scientific Sessions 2005, November 2005, Dallas, TX.

Kallenbach L, Rigler SK, Shireman TI. Predictors of long-acting opiate use among older Medicaid beneficiaries. American Geriatric Society Annual Meeting, May 2005, Orlando, FL.

Shireman TI, Rigler SK, Jachna CM, Griebling TL, Eng ML. Where do Medicaid drug dollars go? An analysis of newer pharmaceuticals across diverse drug classes. American Geriatric Society Annual Meeting, May 2004, Las Vegas, NV.

Shireman TI, Ellerbeck EF, Howard PA, Kresowik TF. Impact of combined anticoagulant and antiplatelet use on bleeding risk in atrial fibrillation. American Heart Association Second Asia Pacific Scientific Forum, June 2003, Honolulu, HI.

Shireman TI, Rigler SK, Braman KS, and RM Day. Are home and community-based services less costly than nursing home care? American Geriatric Society Annual Meeting, May 2003, Baltimore, MD.

Miller ET, Pancioli A, Shireman TI, Spilker JA, and JP Broderick. Stroke impact: Quality of life and resources. 28th International Stroke Conference, February 2003, Phoenix, AZ.

Shireman TI and AV Joshi. Prescription utilization and cost differences among three therapeutic classes between Medicaid fee-for-service and managed care enrollees, American Pharmaceutical Association Annual Meeting, March 2001, San Francisco, CA.

Panels and Roundtable Presentations

Shireman TI. Excess demand: Geriatric Pharmacists in academia, 2002 Annual Meeting for the American Geriatric Society, Washington DC. (RN CEU). Panel leader: Tomas Griebling
Panel title: Passing the interdisciplinary torch-who will teach the next generations?

Shireman TI. Administrative claims data: Comorbidity and severity of illness measurement, ESAS Research Roundtable Sessions, APhA Annual Meeting 2000, Washington DC. (RPH CEU)

Poster Presentations

Rigler SK, Kallenbach L, Shireman TI. Trends in long acting opiate use and expenditures in three older adult cohorts. American Geriatric Society Annual Meeting, May 2005, Orlando, FL.

Becker C, Shireman TI, Howard PA, Rigler SK. Do angiotensin converting enzyme inhibitors/ angiotensin receptor blockers reduce hospitalizations in older heart failure patients? A propensity analysis. American Society of Health System Pharmacists Midyear Clinical Meeting, December 2004, Orlando, FL.

Smit DE, Shireman TI, Rigler SK. Anti-Inflammatory therapy: When are COX-2s selected relative to NSAIDs in an older Medicaid cohort? American Society of Health System Pharmacists Midyear Clinical Meeting, December 2004, Orlando, FL.

Rigler SK, Shireman TI, Perera S, Jachna C, Eng M. The impact of comorbidity on inappropriate medication use: Differing patterns among nursing home residents and recipients of home-and community-based services. American Geriatric Society Annual Meeting, May 2004, Las Vegas, NV.

Howard PA and TI Shireman. Impact of drug therapy patterns on heart failure hospitalizations in Medicaid patients. Heart Failure Society of America Annual Meeting, September 2003, Las Vegas, NV.

Jachna C, Shireman TI, and SK Rigler. Antipsychotic use patterns in older adults in nursing home and home-based care. Society for General Internal Medicine 26th Annual Meeting, May 2003, Vancouver, British Columbia.

Shireman TI, Rigler SK, Braman KS, and RM Day. Do home and community-based services reduce nursing home placement? Presidential Poster Session, American Geriatric Society Annual Meeting, May 2003, Baltimore, MD.

Rigler SK, Shireman TI, and C Jachna. Cholinesterase inhibitor use among older Medicaid beneficiaries. American Geriatric Society Annual Meeting, May 2003, Baltimore, MD.

Karpinski TA, Grauer D, Shireman TI, Braman KS, and HN Godwin. Cost and effectiveness of anti-obesity therapy from the perspective of Kansas Medicaid. American Society of Health-System Pharmacists Midyear Clinical Meeting, December 2002, Atlanta, GA.

Howard PA**,** Shireman TI, Dhingra A, Ellerbeck EF, Fincham JE. ACE inhibitor patterns of use in elderly Medicaid patients with heart failure, Society of Geriatric Cardiology Annual Meeting, March 17, 2001, Orlando, FL.

Joshi AV and TI Shireman. The impact of insurance coverage on prescribing patterns following an outpatient visit in a Medicaid population, American Pharmaceutical Association Annual Meeting, March 2001, San Francisco, CA.

Shireman TI, Pancioli AM, Miller EL, Spilker JA, Kissela BM. Resource use and costs of ischemic strokes in a managed care setting, 26th International Stroke Conference, February 2001, Ft. Lauderdale, FL.

Shireman TI, Pancioli AM, Miller EL, Spilker JA, Kissela BM. How are TIAs managed in a managed care setting: Resource use and costs, 26th International Stroke Conference, February 2001, Ft. Lauderdale, FL.

Shireman TI, Martin JE, and JF Whiting. The cost of transplant graft maintenance following solid organ transplantation, XVIII International Congress of the Transplantation Society, September 2000, Rome, Italy.

Martin JE, Shireman TI, and JF Whiting. Quality of life (QOL among Medicaid transplant recipients, XVIII International Congress of the Transplantation Society, September 2000, Rome, Italy.

Shireman TI, Martin JE, and JF Whiting. Health service utilization and costs among Medicaid-covered solid organ transplant recipients, Transplant 2000: The First Joint Transplant Meeting of the AST and ASTS, May 2000, Chicago, IL.

Zink TM, Shireman TI, Ho M, and T Buchanan. Teen compliance with contraception: Analysis of the Ohio Medicaid Claims Data, North American Society of Pediatric and Adolescent Gynecology Conference, April 2000, Atlanta, GA.

Smith WE, Shireman TI, Jones J, Heaton PC, and P Jennings. Health care use in an Ohio Medicaid asthma population, American Society of Health-System Pharmacists Midyear Clinical Meeting, December 1999, Orlando, FL.

Heaton PC, Shireman TI, Jones J, Jennings P, and RT Cluxton. National Asthma Treatment Guidelines: An evaluation of the Ohio Medicaid population, American Society of Health-System Pharmacists Midyear Clinical Meeting, December 1999, Orlando, FL.

Zink TM, and TI Shireman. Teen compliance with contraception: Analysis of the Ohio Medicaid drug utilization review database, North American Primary Care Research Group 27th Annual Meeting, November 1999, San Diego, CA.

Shireman TI, Tsevat J, and S Goldie. Assessment of time costs associated with cervical cancer screening, Association for Health Services Research Annual Meeting, June 1999, Chicago, IL.

Wulsin LR, Evans S, Liu T, Dewan N, Storrow A, Hamilton C, and TI Shireman. Paroxetine for panic disorder during ED chest pain evaluations, American Psychiatric Association Annual Meeting, May 1999, Washington, DC.

Mrus JM, Moomaw CJ, Shireman TI, and J Tsevat. Development of an HIV research database using Medicaid claims data, Society of General Internal Medicine Annual Meeting, April 1999, San Francisco, CA.

McGee KA, and TI Shireman. Prescribing patterns and outcomes of otitis media treatment in the pediatric Ohio Medicaid population, American Pharmaceutical Association Annual Meeting, March 1999, San Antonio, TX.

Garrity B, Shireman TI, and NA Dewan. Predicting treatment patterns and costs in childhood and adolescent depression, American Pharmaceutical Association Annual Meeting, March 1999, San Antonio, TX.

Svarstad BL, Sweeney K, and TI Shireman. Hospitalization costs associated with noncompliance among schizophrenics in eight Wisconsin mental health systems, 10th International Social Pharmacy Workshop, August 1998, Leuven, Belgium.

Shireman TI. A method for obtaining sensitive, detailed data from community pharmacy providers, 9th International Social Pharmacy Workshop, August 1996, Madison, WI.

Shireman TI, Kreling DH, and BA Chewning. Economic factors affecting utilization of NSAIDs: Sample effects on results, American Pharmaceutical Association Annual Meeting, March 1996, Nashville, TN.

Hilsenrath PE, Widness PJ, Strauss RG, Shireman TI, Fain J, and AH Mutnick. An economic analysis of erythropoietin in the treatment of anemia of prematurity, Association for Health Services Research Annual Meeting, July 1993, Washington D.C.

Beltz EA, Dayton CS, Shireman TI. Confirmation of the theophylline-ciprofloxacin interaction in adult critical care and pulmonary patient populations, American Society of Hospital Pharmacists Midyear Clinical Meeting, December 1988, Dallas, TX.

Regional and Local Meetings

Shireman TI. Risks and benefits: The pharmaceutical industry in the balance. Metro KC PeriAnesthesia Nurses Association, Spring Seminar, April 8, 2006. [invited: RN CE credit]

Shireman TI. Where do Medicaid drug dollars go? Adoption of newer pharmaceuticals across diverse drug classes in the aged and disabled programs. Examining Medicaid Conference, Kansas Division of Health Policy and Finance, October 19, 2005. [invited]

Shireman TI. Health care status and utilization patterns of MediKan enrollees. Examining Medicaid Conference, Kansas Division of Health Policy and Finance, October 18, 2005. [invited]

Shireman TI. Health care status and utilization patterns of MediKan enrollees. Kansas Department of Social & Rehabilitation Services, August 17, 2005, Topeka, KS. [invited]

Shireman TI. Workforce, genomes & payers: Health care on the horizon. Kansas Association Medical Staff Services, November 14, 2003, Wichita, KS. [invited]

Shireman TI. Using Medicaid data for health services research. Kansas Department of Social & Rehabilitation Services, June 18, 2003, Topeka, KS. [invited]

Shireman TI, and SK Rigler. Home and community-based services for frail older Kansans on Medicaid: An alternative to nursing home care? University of Kansas Gerontology Faculty Colloquium, February 6, 2003, Lawrence, KS.

Shireman TI, and KS Braman. Respiratory syncytial virus prophylaxis and treatment costs for Kansas Medicaid during two consecutive respiratory syncytial virus seasons, Kansas Medicaid Drug Utilization Review Board, September 2001, Lawrence, KS.

Howard PA, Shireman TI, Dhingra A, Ellerbeck EF, JE Fincham. ACE inhibitor patterns of use in elderly Medicaid patients with heart failure, Kansas Society of Health System Pharmacists Spring Meeting, April 2001, Wichita, KS.

Cohen TS, Fincham JE, Howard PA, Godwin HN, Shireman TI, and J Backes. PILLS: Pharmacist intervention in lipid lowering therapy study, Midwest Residency Conference, April 2001, Houston, TX.

Zink TM, Shireman TI, and M Ho. Teen compliance with contraception: Analysis of the Ohio Medicaid claims data, Ohio Academy of Family Practice, August 2000, Columbus, OH.

Joshi AV, Shireman TI, Jang R, and D Hanseman. Health care utilization and costs in Ohio Medicaid: Managed care versus fee-for-service, Midwest Regional Pharmacy Administration Conference, July 2000, Toledo, OH.

Smith WE, Shireman TI, Heaton PC, Cluxton RT, and CJ Moomaw. Health care use in an Ohio Medicaid asthma population, Ohio Pharmacists Association Meeting, April 2000, Columbus, OH.

Heaton PC, Shireman TI, Jones J, Jennings P, and RJ Cluxton. National Asthma Treatment Guidelines: An evaluation of the Ohio Medicaid population, Ohio Pharmacists Association Meeting, April 2000, Columbus, OH.

Shireman TI, Hornung R, Ho M, and R Jang. Prescription utilization, costs savings, and satisfaction achieved with Medicaid managed care arrangements, 5th Wintergreen Research Conference in Social and Administrative Sciences, May 1999, Wintergreen, VA.

Jang R, Hornung R, Ho M, and TI Shireman. Comparison of consumer satisfaction in Ohio Medicaid fee-for-service versus managed care recipients: Implications for pharmaceutical care, 5th Wintergreen Research Conference in Social and Administrative Sciences, May 1999, Wintergreen, VA.

Shireman TI, and DH Kreling. Performance in the retail pharmacy industry: Impact of third party programs and competition, Midwest Regional Pharmacy Administration Conference, August 1996, Madison, WI.

Shireman TI. Performance in the Retail Pharmacy Industry: Impact of Third Party Programs and Competition, Wintergreen Research Conference IV, May 1996, Madison, Wintergreen Resort, VA.

Shireman TI, and JB Wiederholt. The market for consumer drug information texts, Midwest Regional Pharmacy Administration Conference, August 1994, Iowa City, IA.

Shireman TI, Hilsenrath PE, Widness JA, and RG Strauss. Erythropoietin vs transfusions in the treatment of anemia of prematurity: A cost-benefit analysis, Midwest Regional Pharmacy Administration Conference, September 1992, Minneapolis, MN.

BOOK REVIEWS

Shireman TI. Review of Pharmacoeconomics A Primer for the Pharmaceutical Industry by A Morrison and AI Wertheimer. *Annals of Pharmacotherapy* 2003;37:456-7.

Shireman TI. Review of Pharmacy and the U.S. Health Care System, 2nd Edition edited by Jack E. Fincham and Albert I. Wertheimer. *Journal of Pharmacy Technology* 1998;14:179.

CONTINUING EDUCATION-MEDICAL

Shireman TI. Are cardioprotective medications effective in ESRD? Center on Aging Research Seminar, University of Kansas Medical Center, February 16, 2007. [Repeated presentation for Clinical Translational Research Seminar, University of Kansas Medical Center, March 1, 2007]

Shireman TI. Medicaid Mental Health Services Research. Psychiatry Grand Rounds, Department of Psychiatry, University of Kansas Medical Center, January 5, 2007.

Shireman TI, and KS Braman. The impact and cost-effectiveness of respiratory syncytial virus prophylaxis for Kansas Medicaid's high-risk children. Interdisciplinary Research Seminar, Department of Preventive Medicine, University of Kansas Medical Center, March 6, 2003.

Shireman TI, and SK Rigler. Home and community-based services for frail older Kansans on Medicaid: An alternative to nursing home care? Center on Aging 2002-2003 Research Seminar Series, University of Kansas Medical Center, February 4, 2003.

Shireman TI, and SK Rigler. Home and community-based services for frail older Kansans on Medicaid: An alternative to nursing home care? Interdisciplinary Research Seminar, Department of Preventive Medicine, University of Kansas Medical Center, December 4, 2002.

Antidepressant treatment patterns among children and adolescents, Interdisciplinary Research Seminar, Department of Preventive Medicine, University of Kansas Medical Center, October 19, 2000.

Health care resources/costs in the treatment of TIAs & Ischemic stroke in a managed care organization. Center on Aging 2000-2001 Research Seminar Series, University of Kansas Medical Center, October 10, 2000.

Drug Utilization Review (DUR): What is it and what do you want to know about it? Outcomes Conference, Institute for Health Policy and Health Services Research, University of Cincinnati Medical Center, September 25, 1998.

TEACHING

Courses at the University of Kansas Medical Center (graduate & professional)

- Cost-Effectiveness and Decision Analysis, PRVM878/HP&M872, Course coordinator & instructor. Spring semester: 2007
- Introduction to Pharmacoepidemiology, PRVM 811, Course coordinator & instructor. Fall semester: 2006

Courses at the University of Kansas (professional)

- Health Care Systems, PHPR 619, Course coordinator & instructor.

Spring Semesters: 2000, 2001, 2002, 2003, 2004

- Pharmacy Economic Management, PHPR 612
  Course Instructor (non-traditional program): responsible for 1/3 course.
  Spring Semesters: 2001, 2002, 2003
- Pharmacy Practice I, PHPR 501, Fall Semester 2002
  Course Instructor: responsible for 1/3 course.

Courses at the University of Cincinnati (graduate level)

- Introduction to Pharmaceutical Economics and Policy, Spring Quarter 1999.
  Course Coordinator & Instructor
- Cost Methods in Pharmacoeconomics Course, Winter Quarter 1999.
  Course Coordinator: Dr. Raymond Jang.
- Pharmacoeconomics Research Rotations (1 month each; University of Cincinnati):
  - Wendy Smith, Pharm.D. Student, November 1999.
  - Alicia Morgan, Pharm.D. Student, October 1999
  - Bridget Garrity, Pharm. D. Student, February 1999
  - Janice Jones, Managed Care Pharmacy Specialty Resident, March 1999

Courses at the University of Cincinnati (undergraduate)

- Pharmacy Financial Management in Pharmacy Management Course, Winter Quarter 1999.
  Course Coordinator: Dr. Theresa Shireman.
- Pharmacy Financial Management in Pharmacy Management Course, Winter Quarter 1998.
  Course Coordinator: Dr. Raymond Jang

Miscellaneous lectures

University of Kansas Medical Center

- State of US Health Care System & Reform Options 2006, Presentation for *Students for a National Health Care Plan,* October 2006
- Access to quality health care, CORE800, Foundations of Medicine [First year medical students], Fall 2006
- Health care costs and introduction to cost-effectiveness analysis, PRVM 800 Epidemiology Fall, 2004; Summer, 2005; Fall, 2005

University of Kansas (Lawrence campus)

- Presidential Election 2004: A Comparison of the Candidates' Health Care Platforms, October 2004: Brown bag lunch sponsored by APhA-ASP and NCPA
- Principles of pharmacoepidemiology, PHPR 651 Biostatistics
  Spring semester: 2001, 2002, 2003, 2004, 2005, 2006, 2007
- Excess demand: Geriatric Pharmacists in academia, May 2, 2002, Gerontology Proseminar, KU Gerontology Center.
- Administrative claims data and health services research opportunities in geriatrics, November 8, 2001, Gerontology Proseminar, KU Gerontology Center,
- Cultural context of medicines, October 8-11, 2001; PHAR 515 Integrated Laboratory II
- Drug utilization review, October 2, 2000; PHAR 515 Integrated Laboratory II
- Pharmacoeconomic analyses, November 28 & 29, 2000; PHPR 614 Pharmacy Management
- How to write a research proposal, January 22-25, 2001; PHAR 520 Integrated Laboratory III

University of Cincinnati

- Pharmacy Administration Graduate Student Seminar, Ohio State University College of Pharmacy, February 9, 1999. Using Administrative Claims Data to Conduct Health Services Research.
- Pharmacy Administration Graduate Student Seminar, Division of Pharmaceutical Sciences , University of Cincinnati College of Pharmacy, October 19, 1998. Ohio Medicaid Retrospective Drug Utilization Review and Health Services Research Program.
- Department of Family Practice Research Seminar, University of Cincinnati Medical Center, June 3, 1998. Overview of the Ohio Medicaid Drug Utilization Review and Health Services Research Grant.
- Pharmacy Administration Graduate Student Seminar, Division of Pharmaceutical Sciences , University of Cincinnati College of Pharmacy, January 20, 1998. Cost-shifting or Price Discrimination?

Masters of Public Health, K30, Master of Science and Doctor of Philosophy Students

- **University of Kansas (Lawrence) & University of Kansas Medical Center:**
  - K30 Mentor:
    - Alpesh Amin, MD
  - MPH Faculty Advisor:
    - Raymond Cattaneo, MD
    - Seth Katz
    - Amy Roberts, DVM
    - Jennifer Watts, MD
    - Cydney Rabourn
  - Chelsea Pleming, 2006, MPH, Practicum committee
  - Chiung-ju Liu, 2006, PHD, Dissertation committee
  - CoraLynn Becker, 2005, M.S. Thesis director
  - Carolyn Jachna, 2004, MPH, Thesis committee
  - Todd Karpinski, 2002, M.S. Thesis committee
  - Tammy Cohen, 2001, M.S. Thesis committee
  - Greg Sullins, 2001, M. S. Thesis committee
  - Mary Reeg, 2000, M.S. Thesis committee
  - Ashish Dhingra, 2000. M.S. Thesis committee

- **University of Cincinnati:**
  - Ashish Joshi, 2000, M.S, Thesis director.

Post-Baccalaureate Pharm. D. Students' Projects (directed; University of Cincinnati)

- Wendy Smith, 1999-2000. Health Care Utilization and Costs in the Ohio Medicaid Asthma Population.
- Sue Prusak, 1999-2000. Sequential Otitis Media Treatment Patterns: One-year Follow-up for Previously Treated Cases.
- Bridget Garrity, 1998-1999. Antidepressant Medication Use among Medicaid Adolescents.
- Kelly McGee, 1998-1999. Otitis Media Treatment Rates, Antibiotic Choice and Recurrence Rates.

SERVICE

- University of Kansas Medical Center

  Preventive Medicine & Public Health Internal Advisory Committee, 2007-present

  Faculty Senate, 2006-present

Health Services Research Interest Group, Group Leader, Preventive Medicine & Public Health, 2006-present

- University of Kansas

  Pharmacy Dean Search Committee, 2003-04
  Director, Multicultural Pharmacy Scholars Program, 2003-04, 2004-2005
  General Education Assessments, Spring 2003 & Spring 2004
  Summer Fulbright Faculty Mentor, 2002, 2003

  University of Kansas School of Pharmacy Committees:

  Curriculum Assessment Committee, 2005-2006
  Academic Standards and Admissions Committee, 2001-02, 2002-03, 2003-04
  PHPR Graduate Program Task Force, Chair, 2003
  Pharmacy Practice Faculty Search Committee (3 positions), 2001-02
  Non-Thesis MS Guidelines, Ad-Hoc Committee 2001-2002
  Vice Chair--Pharmacy Practice Search Committee, 2001

- University of Cincinnati

  University of Cincinnati Faculty Senate, 1998-2000
  University of Cincinnati College of Pharmacy Committees:

  Pediatrics Search Committee, 1999
  Equipment Committee, 1999
  Graduate Program Committee, 1998-1999
  Task Force to Strengthen and Enhance Professional Education, Programmatic Committee, 1997-1998
  Subcommittee Chair: Clinical Studies, Pharmacoeconomics, Statistics, and Informatics
  Subcommittee: Health Care System, Management, Marketing, and Practice
  Subcommittee: Draft of Pharm.D. Tracking Program

- Profession

  National Quality Forum, National Voluntary Consensus Standards for the Reporting of Therapeutic Drug Management Quality

  Efficiency Technical Advisory Panel, 2006-present

  American Association of Colleges of Pharmacy, SAS Division

  Planning Committee, 2002-2003
  Chair, Curriculum Committee (SAS Handbook update), 2001-02
  Curriculum Committee (Handbook update), 2000-01, 2003-2004, 2004-2005

  Editorial Board

  Annals of Pharmacotherapy, Pharmacoeconomics and Outcomes, 2003-present
  Research in Social and Administrative Pharmacy, 2004-present

  Journal reviewer (Ad-hoc)

  Annals of Pharmacotherapy, 2000-present
  Expert Opinion on Pharmacotherapy, 2004
  Gerontology, 2007
  Health Policy, 2005
  Health Services Research, 2004
  Journal of the American Pharmaceutical Association, 2004
  Journal of Child and Adolescent Psychopharmacology, 2005
  Journal of Health Care for Poor and Underserved, 2006
  Pediatrics, 2005

PharmacoEconomics, 2004, 2005, 2006
Psychiatric Services, 2002-present
Research in Social and Administrative Pharmacy, 2005, 2006
Social Science & Medicine, 2005
Stroke, 2006

Abstract reviewer

2006 American Pharmaceutical Association Contributed Papers Review, ESAS Section
2002 American Pharmaceutical Association Contributed Papers Review, ESAS Section

- Public

28th Precinct Committeewoman, Douglas County Democratic Party, 2002, 2004
Alzheimer's Association
Public Policy Committee, 2000-2001
Ohio Pharmacist Association, Pharmacy Economics Committee, 1998-1999

PROFESSIONAL ASSOCIATION MEMBERSHIPS

Academy Health
American Public Health Association
American Geriatrics Society
American Pharmacists Association
International Society of Pharmacoepidemiology
American Society of Health Economists/International Health Economists Association

PHARMACY PRACTICE EXPERIENCE

(Active licenses in Iowa and Ohio.)

11/89-7/93 Relief Pharmacist, Tipton Snyder Drug, Tipton, Iowa.
1/86-12/89 Clinical Pharmacist, University of Iowa Hospitals and Clinics, Iowa City, Iowa