

TIMOTHY E WELTY PHARMD MA FCCP BCPS

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EDUCATION

University of Minnesota and St Paul Ramsey Medical Center, Minneapolis, MN Clinical Research Fellowship Neuropharmacology and Pharmacokinetics	1982-1983
College of Pharmacy, University of Minnesota, Minneapolis, MN Doctor of Pharmacy	1982
Trinity International University, Deerfield, IL Master of Arts	1980
College of Pharmacy, Butler University, Indianapolis, IN BS Pharmacy	1977
Taylor University, Upland, IN Pre-Pharmacy	1972-1973

PROFESSIONAL LICENSURE

Pharmacist Licensure

Indiana License #13924

Iowa License #21853

Kansas, Minnesota, North Dakota, Ohio, Alabama: Not renewed

AWARDS AND OTHER RECOGNITION

Module Editor, Pharmacotherapy Self-Assessment Program, CNS and Pharmacy Practice Module, American College of Clinical Pharmacy	2013 – 2016
Chair, Section of Teachers of Pharmacy Practice, American Association of Colleges of Pharmacy	2009 – 2010
Commissioner, Continuing Pharmacy Education Commission, Accreditation Council for Pharmacy Education (Chair, 2013)	2007 – 2014
Member, Editorial Board, Current Medical Research and Opinion	2007 – 2014
Fellow, American College of Clinical Pharmacy	2002 – Present
Board Certified Pharmacotherapy Specialist, Board of Pharmaceutical Specialties	1991 – Present
“Name in Lights,” Methodist Hospital of Indiana, Inc	1987
Marquis’ Who’s Who-Midwest Edition	1985 – 1994
Indiana Scholar	1972 – 1975

TEACHING EXPERIENCE

College of Pharmacy and Health Sciences, Drake University, Des Moines, IA	
Instructor of Record – Therapeutic Drug Monitoring	2013-Present
Teach and manage a course on therapeutic drug monitoring for P2 pharmacy students; Average class size 103	
Lecturer – Therapeutics III	2013-Present
Provide lectures on the pharmacotherapy of acute stroke Average class size 103	
Lecturer – Therapeutics II	2012-Present
Provide lectures on the pharmacotherapy of epilepsy Average class size 105	
School of Pharmacy, University of Kansas, Lawrence, KS	
Instructor of Record - Pharmacology for Nurse Practitioners	2011-2012
Teach and manage an online course in pharmacology and pharmacokinetics for nurse practitioner students; Average class size 25	
Lecturer - Pharmacotherapy II	2009-2011
Provide lectures on stroke, epilepsy, headache, men’s health, and inflammatory bowel disease; Average class size 105	
Lecturer - Neurology Residents	2009-2012
Provide lectures on epilepsy and antiepileptic drugs	
Preceptor – Ambulatory Care	2011-2012
Designed a new rotation site; Precepted APPE pharmacy students; 4-5 students/year	
McWhorter School of Pharmacy, Samford University, Birmingham, AL	
Course Coordinator and Lecturer – Therapeutics I	1999-2008
Managed team taught course, handled student issues; Administered grades; Provided lectures on stroke; Mentored junior faculty; Incorporated course improvements restructuring small group discussions, evidence-based practice, cultural competency, real world cases, team-based learning, and reorganized therapeutics sequence to be more effective in delivering topics; Average class size 130	
Lecturer – Therapeutics II	2000-2008
Delivered lectures on epilepsy and movement disorders; Average class size 130	
Lecturer- Therapeutic Drug Monitoring II	2000-2004
Delivered lectures on antiepileptic drugs; Average class size 130	
Lecturer - Neurology Residents at University of Alabama Birmingham	1999-2008
Provided lectures on epilepsy and antiepileptic drugs	

Preceptor – Ambulatory Care	1999-2008
Designed a new rotation site; Precepted APPE and IPPE pharmacy students; 12-81 students/year	
College of Pharmacy, University of Cincinnati, Cincinnati, OH	
Lecturer – Pharmacotherapy	1994-1999
Delivered lectures on epilepsy; Average class size 25	
Harvey Whitney Books Company	
Preceptor – Scientific Publishing	1993-1998
Created rotation experience; Precepted PharmD students, primarily from the University of Cincinnati; 1-4 students/year	
College of Pharmacy, North Dakota State University, Fargo, ND	
Lecturer – Pharmacotherapy	1991-1993
Delivered lectures on epilepsy; Average class size 80 students	
Course Coordinator – Clinical Pharmacokinetics	1993
Managed team taught course; Handled student issues; Administered grades; Provided lectures; Average class size 80 students	
Preceptor	1999-2008
Precepted PharmD and BS pharmacy students; 10-15 students/year	
Methodist Hospital of Indiana, Inc	
Lecturer – Pharmacotherapy	1985-1991
Delivered lectures on epilepsy at Purdue University; Average class size 25 students	
Course Coordinator – Clinical Pharmacokinetics	1987
Managed course, handled student issues; Administered grades; Provided lectures at Butler University; Average class size 80 students	
Preceptor	1985-1991
Created rotation experience site; Precepted PharmD and BS pharmacy students for Purdue University, and BS pharmacy students for Butler University; 8-10 students/year	
College of Pharmacy, Purdue University, West Lafayette, IN	
Lecturer – Pharmacotherapy	1983-1985
Delivered lectures on epilepsy; Average class size 25 students	
Lecturer – Clinical Pharmacokinetics	1983-1985
Lectured on multiple topics in clinical pharmacokinetics; Average class size 25 students	
Preceptor	1983-1985
Precepted PharmD and BS pharmacy students; 12-15 students/year	
College of Pharmacy, University of Minnesota, Minneapolis, MN	
Lecturer – Therapeutics	1983
Delivered lectures on headache; Average class size 100 students	

GRADUATE STUDENTS OR POST-PHARMD FELLOWS

School of Pharmacy, University of Kansas, Lawrence, KS
Clinical Research Fellow

Mikiko Yamada PharmD**2009 – 2012**

Currently Assistant Professor, School of Pharmacy, University of
New Mexico

Research Project: The use of Kampo medication for the treatment of
catamenial epilepsy

PROFESSIONAL EXPERIENCE

Academic Experience

College of Pharmacy and Health Sciences, Drake University, Des Moines, IA

Professor**2019 – Present****Director of Research, Innovation, and Global Initiatives**

Lead initiatives in research, innovation, and international efforts
for the CPHS; oversee the establishment of a MTM call center;
direct a post-PharmD fellowship in drug development; clinical
practice in neurology; teach therapeutic drug monitoring and
pharmacotherapy, teach P3 students on IPPE rotations

Professor and Chair**2012 – 2019**

Managed Pharmacy Practice Department; Handled personnel;
Managed department budget; Developed strategic plan; Initiated
revisions of departmental courses; Member of tenure committee;
Initiated plan to determine metrics of faculty performance and
productivity; Facilitated development of Inter-professional education
in the Des Moines area; Developed collaboration with Iowa
Healthcare Collaborative to improve medication safety in Iowa;
Worked with faculty to restructure the Pharmacy Skills and
Assessment course series; Involved in exploring new degree
programs; Maintained limited clinical practice in neurology at Unity
Point Clinics.

School of Pharmacy, University of Kansas, Lawrence, KS

Professor**2010 – 2012**

Research and teaching in neurosciences; Developed and headed
Pharmacokinetic/Pharmacodynamic Section of the University of
Kansas NIH CTSA proposal; Teach nurse practitioner course in
pharmacokinetics; Maintain clinical practice in neurology; Develop
collaboration with Kansas AHEC program

Professor and Chair**2009-2010**

Managed Pharmacy Practice Department; Handled personnel;
Managed department budget; Developed strategic plan; Initiated
revisions of departmental courses; Developed clinical research
fellowship; Planning for opening of extension in Wichita; Developed
collaboration with School of Medicine and School of Nursing;
Member of assessment committee; Initiated plan to determine
metrics of faculty performance and productivity; Initiated plans for

innovation in teaching departmental courses; Facilitate programmatic review of departmental MS degree program

McWhorter School of Pharmacy, Samford University, Birmingham, AL

Professor

2004-2008

Teaching in therapeutics and therapeutic drug monitoring courses; Coordinated therapeutics course; Served on assessment and curriculum committees; Involved in developing initial plans to revise curriculum; University values advocate hearing cases of academic and student misconduct; Peer reviewer for faculty teaching; University committee on diversity

Associate Professor

1999-2004

Teaching in Therapeutics and Therapeutic Drug Monitoring Courses; Coordinated Therapeutics course; Served on department education policy committee, student affairs, assessment, and academic standing committees; Chaired faculty search committee; University values advocate hearing cases of academic and student misconduct; University committee on student affairs; University committee on university and community relations

School of Pharmacy, University of Cincinnati, Cincinnati, OH

Visiting Assistant Professor

1998-1999

Developed diabetes certificate training program; Managed continuing pharmacy education; Lectured in PharmD and BS Pharmacy courses; Medical center committee on distance education and technology; Maintained clinical practice in neurology

College of Pharmacy, North Dakota State University, Fargo, ND

Clinical Assistant Professor

1991-1993

Developed clinical practice at St Alexius Hospital in Bismarck, ND; Precepted BS Pharmacy students; Lectured in BS Pharmacy courses

College of Pharmacy, Purdue University, West Lafayette, IN

Assistant Professor

1983-1985

Maintained clinical practice at St Elizabeth Hospital in Lafayette, IN; Precepted PharmD and BS Pharmacy students; Lectured in PharmD and BS Pharmacy courses; Assisted in development of skill outcomes for PharmD students

Scientific Publishing

Harvey Whitney Books Company

Director of Publishing

1993-2000

Managed publishing office and personnel; Oversaw peer review process; Continuing education administrator; Oversaw circulation, advertising, and information systems; Managed journal and book publications

Non-academic Pharmacist

Methodist Hospital of Indiana, Inc, Indianapolis, IN

Pharmacotherapeutic Specialist

1985-1991

Established clinical pharmacy program for a 1300 bed hospital;
Initiated therapeutic drug monitoring service; Maintained clinical
practice in neurosciences; Oversaw 4 clinical pharmacists and clinical
pharmacy operations; Strengthened collaborations with Purdue
University and Butler University schools of pharmacy

St Paul-Ramsey Medical Center, St Paul, MN

Staff Pharmacist

1982-1983

Highland Park Hospital, Highland Park, IL

Staff Pharmacist

1979-1980

Part time and relief pharmacist

Parkview Memorial Hospital, Fort Wayne, IN

Staff Pharmacist

1977-1979

Assisted in establishment of hospice pharmacy program; Assisted in
implementation of computerized pharmacy records

Criterion Pharmacy, Indianapolis, IN

Pharmacist

1977-1978

Relief pharmacist in an independent community pharmacy

Adjunct Faculty Appointments

School of Medicine, University of Kansas, Kansas City, KS

Adjunct Professor

2009 – Present

Teach neurology residents; Collaborate on research projects;
Maintain clinical practice in neurology

School of Medicine, University of Alabama Birmingham, Birmingham, AL

Adjunct Associate Research Professor

2000-2008

Maintained clinical practice in neurology; Collaborated on research
projects; Taught neurology residents

School of Pharmacy, University of Cincinnati, Cincinnati, OH

Adjunct Associate Professor

1993-1998

Lectured in PharmD and BS Pharmacy courses; Maintained clinical
practice in neurology

Volunteer Professional Experience

Harvey Whitney Books Company

Member, Editorial Advisory Board

2013-2021

Editor at Large

2003-2013

Director of Continuing Education

1993-2013

Director of Publishing Acquisitions

2000-2003

Continuing pharmacy education administrator; Assist in peer reviews;
Identify and obtain potential publications

Saiburi Christian Hospital, Saiburi, Thailand

Pharmacy Student

1975

Fellow and Student Experience

University of Minnesota and St Paul Ramsey Medical Center

Clinical Research Fellow**1982-1983**

Participate in epilepsy clinic; Participate in neuropharmacology rounds
Precept PharmD students; On-call attending clinical pharmacist

Criterion Pharmacy, Indianapolis, IN

Extern**1976**

Methodist Hospital of Indiana, Inc, Indianapolis, IN

Extern**1976**

PUBLICATIONS

Book Chapters

Welty TE, Eng ML. Epilepsy in Older Adults. In: *Pharmacotherapy Self-Assessment Program*. 7th ed. American College of Clinical Pharmacy, Lenexa, KS, 2011.

Welty TE, Drug Induced Seizures. In Tisdale J ed. *Drug Induced Diseases 3rd ed*. American Society of Health-System Pharmacists, Washington DC, 2017.

Welty TE, Faught E. Epilepsy. In Wells B ed. *Pharmacotherapy: Principles and Practice 1st, 2nd, 3rd, 4th, ed*. McGraw Hill. Baltimore, 2008, 2009, 2013, 2017, 2021.

Privitera MD, Cavitt J, Ficker DM, Szaflarski JP, **Welty TE**, Kaplan MJ. *Clinician's Guide to Antiepileptic Drug Use*. Lippincott Williams & Wilkins. Philadelphia, 2006.

Welty TE. Zonisamide. In Wyllie E ed. *The Treatment of Epilepsy 4th and 5th ed*. Lippincott Williams & Wilkins. Philadelphia, 2006, 2010, 2020.

Welty TE. The Pharmacotherapy of Epilepsy. In: Mueller BA, Bertch KE, Dunsworth TS, Fagan SC, Hayney MS, O'Connell MB, et.al. eds. *Pharmacotherapy Self-Assessment Program 4th ed*. American College of Clinical Pharmacy, Kansas City, MO, 2003.

Privitera M, Ficker D, **Welty TE**. Topiramate. In Wyllie E ed. *The Treatment of Epilepsy 3rd ed*. Lippincott Williams & Wilkins. Philadelphia, 2001.

Welty TE, Sangha J. The Pharmacotherapy of Stroke, *Internet Courseware for Doctor of Pharmacy Students*. The Ohio Council of Colleges of Pharmacy. Columbus, OH 1999

Welty TE, McAuley JA. The Pharmacotherapy of Epilepsy, *Internet Courseware for Doctor of Pharmacy Students*. The Ohio Council of Colleges of Pharmacy. Columbus, OH 1998.

Welty TE, Cerebrovascular Disorders. In: Koda-Kimble MA, Young LY, Kradjan WA, Guglielmo BJ, eds. *Applied Therapeutics 5th, 6th, 7th, 8th, 9th ed.*, Applied Therapeutics Inc. Vancouver WA, 1992, 1995, 2001, 2004, 2006, 2008, 2011.

Journal Articles

WeltyTE, Gidal BE, Duan J, Privitera MD, Berg MJ, Krebill R, Szaflarski J, Diaz FJ. Coffee and cigarette smoking interactions with lamotrigine. *Epilepsy Behav*. Accepted for publication. Dec 2020.

Vossler DG, Bainbridge JL, Boggs JG, Novotny EJ, Loddenkemper T, Faught E, Amengual-Gual M, Fischer SN, David S, Gloss DS, Donald M, Olson DM, Alan R, Towne AR, Naritoku D, **Welty TE**. Treatment of Refractory Convulsive Status Epilepticus: A Comprehensive Review by the American Epilepsy Society Treatments Committee. *Epilepsy Curr*2020; 20(5):245-264.

Welty TE, Chapman KE, Faught RE Jr, Kotloski RJ. American epilepsy Society (AES): Written Comments to Normand E "Ned" Sharpless MD Acting Commissioner of Food and Drugs US Food and Drug Administration (FDA) Department of Health Human Services (HHS) on Docket ID# FDA-2019-N-1482 Scientific Data and Information about Products Containing Cannabis or Cannabis-Derived Compounds: Public Hearing Request for Comments Submitted on July 16 2019. *Epilepsy Curr* 2019;19(6):361-368.

Berg M, **Welty TE**, Gidal BE, Diaz FJ, Krebill R, Szarflarski JP, Dworetzky BA, Pollard JR, Eller EJ, Jiang W, Jiang X, Privitera MD. Equivalence between generic and branded lamotrigine in people with epilepsy: a single-dose randomized study. *JAMA Neurology*. 2017;74(8):919-926.

Privitera MD, **Welty TE**, Gidal BE, Diaz FJ, Krebill R, Szarflarski JP, Dworetzky BA, Pollard JR, Eller EJ, Jiang W, Jiang X, Berg M. Generic-to-generic lamotrigine switches in people with epilepsy: a randomized, controlled trial. *Lancet Neurol*. 2016;15(4):365-72.

Duncan W, Bottenberg M, Chase M, Chesnut R, Clarke C, Schott K, Torry R, **Welty T**. An industrial engineering approach to cost containment of pharmacy education. *Am J Pharmaceut Ed* 2015;79:Article 31.

Welty TE, Luebke A, Gidal BE. Cannabidiol: promise and pitfalls. *Epilepsy Curr*. 2014;14:250-252.

Privitera M, **Welty T**, Gidal B, Carlson, Pollard J, Berg M. How do clinicians adjust lamotrigine doses and use lamotrigine blood levels?-A Q-Pulse Survey. *Epilepsy Curr*. 2014;14:218-223.

Diaz RJ, Berg MJ, Krebill R, **Welty T**, Gidal BE, Alloway R, Privitera M. Random-effects linear modeling and sample size tables for two special crossover designs of average bioequivalence studies: the four-period, two-sequence, two-formulation and six-period, three sequence, three-formulation designs. *Clin Pharmacokinet* 2013;52(12):1033-43.

Welty TE. The trials of antiepileptic drug trials (Editorial). *Clin Invest* 2012;2:1049-51

Yamada M, **Welty TE**. Ezogabine (Retigabine): an evaluation of its efficacy and safety as adjunctive therapy for partial-onset seizures for adults. *Ann Pharmacother*. 2012;46:1358-67.

Welty TE, Faught E, Schmidt D, McAuley JW, Ryan M. Be sure to read the fine print: The Agency for Healthcare Research and Quality comparative effectiveness report on antiepileptic drugs. 2012 (Editorial). *Epilepsy Curr*. 2012;12:84-6.

Yamada M, **Welty TE**. Generic substitution of antiepileptic drugs: a systematic review of prospective and retrospective studies. *Ann Pharmacother*. 2011;45:406-15.

Welty TE, Willis SL, Welty EA. The effect of limited transportation on medication adherence in patients with epilepsy. *J Am Pharm Assoc*. 2010;50:698-703.

Eng ML, **Welty TE**. Management of hallucinations and psychosis in Parkinson's Disease. *Am J Geriatr Pharmacother*. 2010;8:316-30.

Jiang Q, Jiang G, **Welty TE**, Zheng M. Naloxone in the management of hepatic encephalopathy. *J Clin Pharm Ther*. 2010;35:333-41.

American College of Clinical Pharmacy, Lee MW, Clay PG, Kennedy WK, Kennedy MJ, Sifontis NM, Simonson D, Sowinski KM, Taylor WJ, Teply RM, Vardeny O, **Welty TE**. The essential research curriculum for doctor of pharmacy degree programs. *Pharmacotherapy*. 2010;30:966.

Yamada M, **Welty TE**. Generic substitution of antiepileptic drugs: a telephone survey. *Ann Pharmacother*. 2010;44 (letter):938-9.

Griffith HR, Martin R, Andrews S, Paige LA, Ware, J, Faught E, **Welty T**. The safety and tolerability of galantamine in patients with epilepsy and memory difficulties. *Epilepsy Behav*. 2008;13:376-80.

Welty TE. Pharmacy and generic substitution of antiepileptic drugs: missing in action? *Ann Pharmacother.* 2007;41 (letter):1065-8.

Welty TE. Neurology and neurosurgery clinical pharmacy practice: ignorance, phobia, or progress? *Ann Pharmacother.* 2006;40 (letter):2235-7.

Welty TE. Juvenile myoclonic epilepsy: epidemiology, pathophysiology, and management. *Paediatr Drugs.* 2006;8:303-10.

Murphy JE, Nappi JM, Bosso JA, Saseen JJ, Hemstreet BA, Halloran MA, Spinler SA, **Welty TE**, Dobesh PP, Chan LN, Garvin CG, Grunwald PE, Kamper CA, Sanoski CA, Witkowski PL; American College of Clinical Pharmacy. American College of Clinical Pharmacy's vision of the future: postgraduate pharmacy residency training as a prerequisite for direct patient care practice. *Pharmacotherapy.* 2006;26:722-33.

Welty TE, Faught E, Privitera MD. Step therapy is not appropriate for antiepileptic drugs. *J Manag Care Pharm.* 2006;12 (letter):269-70.

Gutierrez SL, **Welty TE.** Point-of-care testing: an introduction. *Ann Pharmacother.* 2004;38:119-25.

Privitera MD, **Welty T.** Severe intoxication after phenytoin infusion: a preventable pharmacogenetic adverse reaction. *Neurology.* 2004;62 (letter):161.

Prasad A, Kuzniecky RI, Knowlton RC, **Welty TE**, Martin RC, Mendex M, Faught RE. Evolving antiepileptic drug treatment in juvenile myoclonic epilepsy. *Arch Neurol* 2003;60:1100-5.

Burneo JG, Limdi N, Kuzniecky RI, Knowlton TC, Mendez M, Lawn Faught E, **Welty TE**, Prasad A. Neurotoxicity following addition of intravenous valproate to lamotrigine therapy. *Neurology.* 2003;60 (letter):1991-2.

Sands CD, Chan ES, **Welty TE.** Revisiting the significance of warfarin protein-binding displacement interactions. *Ann Pharmacother* 2002;36:1642-4.

Privitera MD, **Welty TE**, Ficker DM, Welge J. Vagus nerve stimulation for partial seizures. *Cochrane Database Syst Rev.* 2002;1:CD002896.

Welty TE, Gidal BE, Ficker DM, Privitera MD. Levetiracetam: a different approach to the pharmacotherapy of epilepsy. *Ann Pharmacother.* 2002;36:296-304.

Akinbi MS, **Welty TE.** Benzodiazepines in the home treatment of acute seizures. *Ann Pharmacother.* 1999;33:99-102.

Welty TE, Privitera M, Shukla R. Increased seizure frequency associated with felbamate withdrawal in adults. *Arch Neurol.* 1998;55:641-5.

Nahata MC, **Welty TE.** Troubling issues in research publications. *Ann Pharmacother.* 1998;32(letter):126-8.

Gidal BE, **Welty TE.** The concentration-effect relationship with lamotrigine (LTG). *Epilepsia.* 1997;38 (letter):260.

Privitera M, **Welty TE.** Acute phenytoin toxicity followed by seizure breakthrough from a ticlopidine-phenytoin interaction. *Arch Neurol.* 1996;53 (letter):1191-2.

Welty TE, Copa AK. Impact of vancomycin therapeutic drug monitoring on patient care. *Ann Pharmacother.* 1994;28:1335-9.

Welty TE. Prior calcium-channel antagonist use and ischemic stroke outcomes. *Ann Pharmacother.* 1994;28 (letter):671.

Welty TE. Pharmacist reimbursement and healthcare reform. *J Pharm Technol.* 1993;9 (letter):185-6.

Welty TE, Pickering PR, Hale BC, Arazi R. Loss of seizure control associated with generic substitution of carbamazepine. *Ann Pharmacother.* 1992;26:775-7.

Welty TE, Horner TG. Pathophysiology and treatment of subarachnoid hemorrhage. *Clin Pharm.* 1990;9:35-9.

Sands J, **Welty TE**. Status epilepticus: a diagnostic and therapeutic approach. *Indiana Med.* 1989;82:948-51.

Welty TE. The need for a spiritual dimension in pharmacy education. *DICP.* 1989;23 (letter):337-8. Graves NM, Fuerst RH, Cloyd JC, Brudage RC, **Welty TE**, Leppik IE. Progabide-induced changes in carbamazepine metabolism. *Epilepsia.* 1988;29:775-80.

Welty TE, Cloyd JC, Abdel-Monem MM. Delivery of paraldehyde in 5% dextrose and 0.9% sodium chloride injections through polyvinylchloride i.v. sets and burettes. *Am J Hosp Pharm.* 1988;445:131-5.

Brundage RC, Cloyd JC, Leppik IE, Graves HM, **Welty TE**. Effect of progabide on serum phenytoin and carbamazepine concentrations. *Clin Neuropharmacol.* 1987;10:545-54.

Welty TE. Use of nimodipine for prevention and treatment of cerebral arterial spasm in patient with subarachnoid hemorrhage. *Clin Pharm.* 1987;6:940-6.

Welty TE. Obstacles to clinical practice. *Am J Hosp Pharm.* 1987;44 (letter):2482-5.

Mayer PR, Brown CH, Carter RA, **Welty TE**, Millikan MD, Eberhard NK. Intramuscular tobramycin pharmacokinetics in geriatric patients. *Drug Intell Clin Pharm.* 1986;20:611-5.

Welty TE. Robinson FC, Mayer PR. A comparison of phenytoin dosing methods in private practice seizure patients. *Epilepsia.* 1986;27:76-80.

Welty TE, Kriel RL. Pentobarbital coma for treating intractable seizures in a neonate. *Clin Pharm.* 1985;4:330-2.

Welty TE, Graves NM, Cloyd JC. Antiepileptic drug therapy: fine tuning the dosage regimen. *Postgrad Med.* 1983;74:287-305.

Abstracts

Welty TE, Niyongere, Song JK. Global barriers to generic antiepileptic medication use. American Epilepsy Society. 2019:Abstract 2.355.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/view/2421798

Sykuta A, Follett L, **Welty T** Laugerman M, Gidal BE, Privitera M, Berg M, Dworetzky B, Szaflarski J, Pollard J. Within-subject variability of lamotrigine bioavailability: analysis of Equigen study data. American Epilepsy Society. 2018:Abstract 1.330.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/view/497463.

Welty T, Gidal B, Berg M, Privitera M, Dworetzky B, Szaflarski J. Medication adherence in the Equigen study of generic lamotrigine substitution. American Epilepsy Society. 2017:Abstract 3.262.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/view/345196

Welty T, Gidal B, Privitera M, Berg M, Diaz F, Krebill R. Coffee and tobacco interactions with lamotrigine. American Epilepsy Society. 2016:Abstract 2.209.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/find/welty/0/0/0

Berg M, Privitera M, Diaz F, Dworetzky B, Elder E, Gidal B, Jian W, Krebill R, McBee N, Pollard J, Alloway R, Paige AL, Szaflarski J, Bolger P, **Welty T**. Equivalence among generic AEDS (EQUIGEN): Single-dose

- study. American Epilepsy Society. 2015;Abstract 2.267.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/find/Welty/0/0/0
- Berg M, Diaz F, Bolger P, Dworetzky B, Elder E, Gidal B, Jiang W, Krebill, R, McBee N, Paige AL, Pollard J, Szaflarski J, **Welty T**, Ficker D, Privitera M. Equivalence among generic AEDs (Eguigen)-single dose study. American Epilepsy Society. 2014;Abstract 2.287:
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/find/welty%20t/0/0/0.
- Smith D, Berg M, Cohen N, Llewellyn N, Lozano M, Schwieterman D, Sieren J, Bolger P, Diaz F, Dworetzky B, Elder E, Gidal B, Jian W, Krebill, McBee N, Paige AL, Pollard J, Privitera M, Szaflarski J, **Welty T**, Ficker D. Subject-unrecognized medication adherence errors in the equivalence among generic AED (Equigen) chronic dose trial. American Epilepsy Society. 2014;Abstract 2.286:
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/find/welty%20t/0/0/0.
- Ficker D, Berg M, Bolger P, Diaz F, Dworetzky B, Elder E, Gidal B, Jiang W, Krebill R, McBee N, Paige AL, Pollard J, Privitera M, Szaflarski J, **Welty T**. Patients reporting problems after generic antiepileptic drug switches are unlikely to participate in a generic bioequivalence trial. American Epilepsy Society. 2014: Abstract 2.285;
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/find/welty%20t/0/0/0.
- Privitera M, Diaz F, Dworetzky B, Bolger P, Krebill R, Gidal B, Elder E, Paige AL, Szaflarski J, **Welty T**, Pollard J, Jian W, McBee N, Berg M. Bioequivalence testing of disparate generic lamotrigine products using chronic dosing in people with epilepsy: the Equigen study. American Epilepsy Society. 2014;Abstract 1.324:
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/find/welty%20t/0/0/0.
- Elder E, Jones K, Schuelke A, Echeverria V, Walton J, Gidal B, **Welty T**, Bolger P, Berg M, Alloway R, Privitera M. Identification of the most disparate generic lamotrigine tablets based on in vitro screening. American Epilepsy Society 2013;Abstract 1.229:
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/find/welty%20t/0/0/0.
- Welty T**, Elder E, Schuelke A, Jones K, Gidal B, Bolger P, Alloway R, Privitera M, Berg M. Comparison of bioavailability and dissolution data for generic lamotrigine tablets in the Equigen trial. American Epilepsy Society 2013;Abstract 3.212:
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/find/welty%20t/0/0/0.
- Yamada M, **Welty T**, Lai SM. Uncontrolled seizures and bone health among adult epilepsy patients. *Pharmacother* 2013;10:E297-E298.
- Stover N, Burns ER, **Welty TE**. Patient experiences and awareness of the diagnosis and treatment of dystonia. *Movement Disorders* 2012;27 (suppl 1):S366-S367.
- Welty T**, Elgavish R, Faught E, Barnes B. Identification of potentially effective antiepileptic drug combinations in patients with epilepsy. *Epilepsia*. 2009;50 (suppl 11):94.
- Limdi NA, Gibson K, **Welty TE**, Faught E, Nabors LB. Retrospective comparison of tolerability and efficacy of levetiracetam and phenytoin in patients with primary brain tumors. *Epilepsia*. 2008;49 (suppl 7):441.
- Welty T**, Willis SL. The impact of limited transportation on medication compliance in patients with epilepsy. *Epilepsia*. 2007;48 (suppl 6):89.
- Welty TE**, Pierce-Ashley A, Faught E. Evaluation of calcaneal ultrasound test to screen for osteoporosis and osteopenia in patients taking phenobarbital, phenytoin, carbamazepine, or valproate. *Epilepsia* 2005;46 (suppl 8): 352.
- Welty TE**, Martin JN, Faught E, Kuzniecky RI. Comparison of outcomes in patients with juvenile myoclonic epilepsy treated with lamotrigine, topiramate, zonisamide, or levetiracetam. *Epilepsia* 2002;42 (suppl 7):239-40.

Welty TE, Kuzniecky RI, Limdi N, Faught E. Weight loss associated with use of zonisamide in European and US clinical trials. *Epilepsia* 2001;42 (suppl 7):262.

Limdi NA, Faught E, **Welty TE**, Lawn N, Kuzniecky R. Rapid development of lamotrigine encephalopathy precipitated by introduction of low-dose valproate. *Epilepsia* 2001;42 (suppl 7): 257.

Privitera M, **Welty TE**. Lamotrigine combined with valproate for idiopathic generalized epilepsy. *Epilepsia* 1998;39(suppl 6):52.

Welty TE, Privitera M. Increased seizure frequency during and immediately following felbamate withdrawal. *Epilepsia* 1995;36(suppl):64.

Welty TE. Pretreatment with calcium channel antagonists associated with decreased length of stay and improved neurological outcome in ischemic stroke. *Post Market Surveill* 1992;6:68-69.

Welty TE, Copa AK, Reidel RC. One and two compartment fitting of vancomycin serum concentrations using Abbottbase Bayesian pharmacokinetic software. *Pharmacother* 1992;12:249.

Welty TE, Copa AK, Reidel RC. Clinical outcomes of vancomycin pharmacokinetic dosing: one versus two compartment modeling. *Pharmacother* 1992;12:249.

Welty TE. Does pretreatment with calcium channel antagonists improve outcome in ischemic stroke? *Pharmacother* 1992;12:244.

Welty TE, Copa AK, Reidel RC. Factors associated with vancomycin nephrotoxicity in patients managed by a physician. *Pharmacother* 1991;11:268-269.

Welty TE, Copa AK, Reidel RC. Impact of a therapeutic drug monitoring service on vancomycin dosing. *Pharmacother* 1991;11:284.

Reidel RC, **Welty TE**, Copa AK. A pharmacodynamic and economic study of vancomycin dosing methods. *Proceedings of Ohio Conference on Clinical Pharmacy, 10th Annual Meeting, 1990.*

Welty TE, Robinson FC, Mayer PR. Phenytoin dosage adjustment in an office practice. *Drug Intell Clin Pharm* 1984;18:499.

Brundage RC, Cloyd JC, Leppik IE, Graves NM, **Welty TE**. The effect of progabide on phenytoin and carbamazepine serum concentrations. *Drug Intell Clin Pharm* 1984;18:509.

Carter R, Brown C, **Welty T**, Mayer P. Intramuscular tobramycin in geriatric patients. *Drug Intell Clin Pharm* 1984;18:497.

Cloyd JC, **Welty TE**, Brundage RC, Leppik IE, Graves NM. Pharmacokinetics of progabide in patients receiving phenytoin and carbamazepine. *Drug Intell Clin Pharm* 1984;18:501.

Welty TE, Cloyd JC, Leppik IE, et.al. Pharmacokinetics of progabide in patients receiving phenytoin and carbamazepine. *Epilepsia* 1983;24:522.

RESEARCH

Completed or Submitted Proposals

Investigator, Pharmacist Engagement in Sustainable Community Transformation to Improve Medication Safety, \$1,500,000, Submitted to the Agency for Healthcare Research and Quality, R18 HS028406-01, Submitted September 25, 2020.

Investigator, A pilot safety study of Keishibukuryogan, a Japanese herbal medication, for the treatment of catamenial epilepsy. \$29,847, Submitted to the University of Kansas, Frontiers CTSA Pilot Grant Program, January 2012.

Co-investigator, Equigen: a study of generic substitution of antiepileptic drugs. \$2,200,000, The Food and Drug Administration, Epilepsy Foundation, and American Epilepsy Society, December 2011.

Investigator, Drugs interactions of Keishibukuryogan with antiepileptic drugs. \$329,676, Submitted to National Center for Complementary and Alternative Medicine, October 2011.

Investigator, Treatment of catamenial epilepsy with Kampo: a preliminary study. \$50,000, Clinical Research Fellowship Grant for Mikiko Yamada PharmD, Funded by the Epilepsy Foundation, October 2010.

Co-investigator, A monotherapy trial of pregabalin in patients with partial seizures. \$25,000, funded by Pfizer, 2010-2012.

Co-investigator, Identification of potentially effective antiepileptic drug combinations in patients with epilepsy, unfunded project, 2008-2009.

Sub-investigator, The use of levetiracetam for the treatment of seizures in patients with brain tumors. \$5000, funded by UCB Pharma, 2008.

Investigator, The impact of limited transportation on medication compliance in patients with epilepsy. \$750, funded by Samford University faculty development grant, 2007-2008.

Investigator, Neuroprotection Exploratory Trials in Parkinson's Disease, perform literature reviews of potential compounds for future clinical trials. \$24,600, funded by the National Institute of Neurological Disorders and Stroke, 2006.

Investigator, Evaluation of calcaneal ultrasound test to screen for osteoporosis and osteopenia in patients taking phenobarbital, phenytoin, carbamazepine, or valproate. unfunded project, 2004-2005.

Co-investigator, The use of galantamine for cognitive dysfunction in patients with epilepsy. \$100,000, funded by the Epilepsy Foundation, 2004-2005.

Investigator, A retrospective comparison of outcomes in patients with juvenile myoclonic epilepsy treated with lamotrigine, topiramate, zonisamide, or levetiracetam. \$12,400, funded by Elan Pharmaceuticals, 2002.

Investigator, Weight loss associated with the use of zonisamide in US and European clinical trials. \$1000, funded by Elan Pharmaceuticals, 2001.

Co-investigator, Lamotrigine combined with valproate for idiopathic generalized epilepsy. unfunded project, 1998.

Co-investigator, Cost of status epilepticus. \$25,000, funded by Parke-Davis, 1997.

Co-investigator, Cost of epilepsy, \$15,000, funded by Parke-Davis, 1997.

Investigator, Increased seizure frequency with felbamate withdrawal. \$15,000, funded by Parke-Davis, 1996.

Investigator, Prior use of calcium channel blockers in patients with stroke. unfunded project, 1992.

Investigator, A comparison of phenytoin administration methods with tube feedings. \$15,000, funded by Parke-Davis, 1989.

Investigator, Therapeutic drug monitoring of vancomycin, unfunded project, 1988-1989.

Investigator, Pharmacokinetic dosing of phenytoin in epileptic patients seen in an office practice. unfunded project, 1983-1984

Co-investigator, Pharmacokinetics of intramuscular tobramycin in elderly patients, \$10,000, funded by Schering Pharmaceutical Company, 1983.

Investigator, The stability of paraldehyde in large volume parenteral solutions. unfunded project, 1982-1983.

Research Fellow, Late phase I and phase II studies of progabide (SL76002) in patients with partial seizures. funded by the National Institute of Neurological and Communicative Disorders and Stroke, 1982-1983.

Investigator, The pharmacokinetics of gentamicin in neonates. unfunded project, 1981-1982.

Proposed, Uncompleted Projects

Co-investigator, A pilot study evaluating the efficacy and pharmacokinetics of galantamine in reversing memory deficits in patients with epilepsy.

Investigator, Outcomes of antiepileptic drug use following epilepsy surgery.

Investigator, Time to first seizure in patients monitored in an epilepsy monitoring unit.

Investigator, The use of lamotrigine and topiramate for juvenile myoclonic epilepsy.

Investigator, Application of pharmaceutical care in the management of ambulatory patients with seizures.

Investigator, A comparison of generic substitution of carbamazepine in extended therapy.

Investigator, Carbamazepine-phenytoin interaction in pediatric epilepsy patients.

Investigator, The pharmacokinetic disposition of nifedipine in patients with subarachnoid hemorrhage.

Investigator, Phenytoin dosing and metabolism in severely injured head trauma patients.

Investigator, An assessment of the pharmacokinetics, spasticity control, and cognitive effects of baclofen in spinal cord injury patients.

Investigator, The effect of hypothermia upon phenobarbital pharmacokinetics in epileptic children.

PRESENTATIONS

Invited Presentations

"Update on neurology pharmacotherapy." Pharmacotherapy Board Certification Prep Course, American College of Clinical Pharmacy, Jacksonville, FL, February 2018.

"Update on generic substitution of drugs: focus on within-patient variability." Asian Conference on Clinical Pharmacy, Yogyakarta, Indonesia, July 2017.

"Update on neurology pharmacotherapy." Pharmacotherapy Board Certification Prep Course, American College of Clinical Pharmacy, Jacksonville, FL, February 2017.

"Generic drug substitution and the Equigen study results" Conference on Generic Drug Substitution, Johns Hopkins University School of Public Health, FDA White Oak Campus, White Oak, Maryland, November 2016.

"Pharmacy and the transformation of healthcare delivery" SIM Learning Community, Iowa Healthcare Collaborative, Des Moines, Iowa, November 2016.

"Inter-professional education." Asian Conference on Clinical Pharmacy, Seoul, South Korea, July 2016.

"Generic substitution of lamotrigine: Equigen trial results." Asian Conference on Clinical Pharmacy, Bangkok, Thailand, June 2015.

"The treatment of epilepsy." Dali University, Dali, Yunnan, China, March 2014

"Epilepsy policy decisions." Marine Medical Advisory Committee of the US Coast Guard, Nashville, TN, September 2013.

"Joint accreditation of continuing education providers: By the team, for the team." Asian Conference on Clinical Pharmacy, Haiphong, Vietnam, September 2013.

"Continuing pharmacy education." Asian Conference on Clinical Pharmacy, Manila, Philippines, July 2011.

"Pharmacogenetics of antiepileptic drugs." Southern EEG and Epilepsy Society, Charleston, South Carolina, June 2011.

"Treatment of epilepsy in the elderly." American College of Clinical Pharmacy Annual Meeting, Austin, TX, October 2010.

"Use of antiepileptic drugs in children." Kansas Area Health Education Centers, Kansas City, KS, Hays, KS, and Pittsburg, KS, May, July, and October 2010.

- "Perspectives on Generic Substitution of Antiepileptic Drugs." Continuing Education Exposition, Iowa Pharmacists Association, Des Moines, Iowa, January 2009.
- "Pros and Cons of Generic Substitution of Antiepileptic Drugs-Pro position." Southern EEG and Epilepsy Society, Amelia Island, Florida, May 2008.
- "Problems with Generic Substitution of Antiepileptic Drugs." Training Program for Epilepsy Center Personnel, Bowman-Gray School of Medicine, Philadelphia, Pennsylvania, December 2007.
- "Pharmacotherapy of Epilepsy and Other Neurological Disorders." Sichuan Pharmaceutical Association, Chengdu, Sichuan, China, July 2007.
- "Generic Substitution of Antiepileptic Drugs." Pediatric Neurology Update, Bowman-Gray School of Medicine, Asheville, North Carolina, March 2007.
- "Pharmacotherapy of Epilepsy." Asian Conference on Clinical Pharmacy, Bangkok, Thailand, July 2006
- "Update on the New ACPE Accreditation Guidelines" Asian Conference on Clinical Pharmacy, Bangkok, Thailand, July 2006.
- "Clinical Pharmacy Practice in an Epilepsy Clinic." Asian Conference on Clinical Pharmacy, Penang, Malaysia, July 2005.
- "Teaching Evidence-based Practice to Pharmacy Students." Asian Conference on Clinical Pharmacy, Seoul, Korea, July 2004.
- "Advances in the Treatment of Epilepsy: Implications for Pharmacy Education." American Association of Colleges of Pharmacy, Salt Lake City, Utah, July 2004.
- "The Treatment of Parkinson's Disease." Alabama Pharmacists Association, Birmingham, Alabama, March 2002.
- "The Pharmacotherapy of Epilepsy." Okayama University Hospital, Okayama, Japan, August 2001.
- "The Pharmacotherapy of Epilepsy." Japanese Society of Hospital Pharmacists, Nagoya, Japan, August 2001.
- "The Prevention of Ischemic Stroke." West China University of Medical Sciences, Chengdu, Sichuan, China, April 2001.
- "The Pharmacotherapy of Epilepsy." West China University of Medical Sciences, Chengdu, Sichuan, China, April 2001.
- "The Development of Experiential Training Sites." Kunming Medical College, West China University of Medical Sciences, Kunming, Yunnan, China, Chengdu, Sichuan, China, April 2001.
- "The Pharmaceutical Care of Epilepsy." Samford University, Birmingham, Alabama, October 2000.
- "Pharmacy-based Immunization Delivery." Alabama Pharmacists Association, Birmingham, Alabama, September 2000 and 2001.
- "The Future of Pharmacy Education." West China University of Medical Sciences, Chengdu, Sichuan, China, June 2000.
- "Treatment of Status Epilepticus." West China University of Medical Sciences, Chengdu, Sichuan, China, June 2000.
- "Recent Advances in Neurology." American College of Clinical Pharmacy Spring Forum, Monterey, California, April 2000.
- Medical Education Systems, Parke-Davis & Company, Epilepsy Speakers Bureau, Multiple speaking opportunities throughout the United States, 1991-1998.
- Ortho-McNeil Pharmaceuticals, Epilepsy Speakers Bureau, Multiple speaking opportunities 1997-2000.
- "The Pharmaceutical Care of Patients with Epilepsy." Alabama Pharmacists Association Annual Meeting, Sandestin, Florida, June 1999 and 2000.
- "Epilepsy and Ambulatory Care Pharmacy Practice." West China University of Medical Sciences, Chengdu, Sichuan, China, 1999.
- "Innovations in the Treatment of Status Epilepticus." West China University of Medical Sciences, Chengdu, Sichuan, China, 1999.

- "Outcome Assessment in Pharmaceutical Education." West China University of Medical Sciences, Chengdu, Sichuan, China, 1999.
- "Innovations in The Treatment of Status Epilepticus." First Peoples Hospital, Kunming, Yunnan, China, 1999.
- "The Role of Scientific Publishing in the Development of Clinical Pharmacy." East Asia Conference on the Development of Clinical Pharmacy Practice and Education, Samford University, Birmingham, Alabama, 1997.
- "The Development of Clinical Pharmacy in the United States." Ya'an Regional Hospital, Ya'an, Sichuan, China, 1996.
- "The Pharmacotherapy of Epilepsy." Mengshan County Hospital, Mengshan, Sichuan, China, 1996
- "Ocular Side Effects of Systemic Medications." Fellowship of Christian Optometrists, Nashville, Indiana, 1995.
- "Scientific Publishing." SookMyung Women's University, Seoul, Korea, 1994.
- "Update on the Treatment of Seizures." Greater Cincinnati Society of Hospital Pharmacist, Cincinnati, Ohio, 1994
- "Pharmacotherapy Certification Preparatory Course." Fort Lauderdale, Florida, 1993.
- "Advances in Antiepileptic Drugs." Midwinter Meeting, Indiana Society of Hospital Pharmacists, Terre Haute, Indiana, 1993.
- "Pathophysiology and Current Management of Headaches." 107th Annual Convention, North Dakota Pharmaceutical Association, Minot, North Dakota, 1992.
- "Pharmacotherapeutics of Seizures." United Hospital, Grand Forks, North Dakota, 1992.
- "Current Management of Stroke." Midwinter Clinical Seminar, North Dakota Pharmaceutical Association and North Dakota State University, Bismarck, North Dakota, 1992.
- "The Pharmacist's Role in Brain Death Determination." Seminar on Ethics and the Clinical Pharmacist, Seminars in Clinical Pharmacy, Methodist Hospital of Indiana, Indianapolis, Indiana, 1990.
- "The Cognitive Effects of Antiepileptic Drugs." Indiana Epilepsy Services Conference, Muncie, Indiana, 1990.
- "The Clinical Pharmacology of Antiepileptic Drugs." Neurology Grand Rounds, Wishard Memorial Hospital, Indianapolis, Indiana, 1989 and 1990.
- "The Clinical Pharmacology of Antiepileptic Drugs." Region I of Indiana Society of Hospital Pharmacists, Indianapolis, Indiana, 1989.
- "Update on Antiepileptic Drugs." Indiana Epilepsy Services, Columbus, Indiana, 1988.
- "Transplant Drugs." Methodist Hospital of Indiana, Indianapolis, Indiana, 1988.
- "Cardiovascular Investigational Drugs." Methodist Hospital of Indiana, Indianapolis, Indiana, 1987.
- "High Tech Procedures in Home Care, Drugs to Aid in Bowel and Bladder Dysfunction." Indiana University School of Nursing, Indianapolis, Indiana, 1987.
- "Neurological Time Bombs, Preoperative Drug Therapy of Cerebral Aneurysm." Methodist Hospital of Indiana, Indianapolis, Indiana, 1987.
- "New Perspectives on Thrombolytic Therapy: Current and Investigational Agents in Acute MI-Future Formulary Considerations and the Impact of Thrombolytic Therapy on the Health Care System." American Society of Hospital Pharmacists, Midyear Clinical Meeting, Las Vegas, Nevada, 1986.
- "Benefits and Side Effects of Antiepileptic Drugs." Fifth Annual Governor's Conference on Mental Health, Indiana Epilepsy Services, Indianapolis, Indiana, 1986.
- "Pharmacological Interventions in Neurological Diseases." Challenges in Critical Care Seminar, Central Indiana Chapter of the American Association of Critical Care Nurses, Indianapolis, Indiana, 1986.
- "Vasopressors." Insights in Practical Pharmacology, Methodist Hospital of Indiana, Indianapolis, Indiana, 1986.
- "Clinical Pharmacokinetics of Antiepileptic Drugs." Purdue University, School of Pharmacy and Pharmacal Sciences, West Lafayette, Indiana, 1986.
- "Antiepileptic Drugs." Indiana Epilepsy Services, Patient Support Group, Crawfordsville, Indiana, 1986.

- "Transdermal Drug Delivery Systems." Current Issues in Pharmacology for Nurses, Methodist Hospital of Indiana, Indianapolis, Indiana, 1985.
- "The Pathophysiology and Therapeutics of Headache." University of Minnesota, College of Pharmacy, Minneapolis, Minnesota, 1983.
- "The Effect of Body Temperature on Drug Metabolism." Pediatric Grand Rounds, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, 1982.
- "Acute Pulmonary Edema." Conference for Clinical Pharmacists, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, 1982.
- "Biosynthetic Human Insulin." Clinical Conference Symposium, University of Minnesota, College of Pharmacy, Minneapolis, Minnesota, 1981.
- "Ketoconazole use in a Patient with Systemic Blastomycosis and Coccidiomycosis." Conference for Clinical Pharmacists, Veterans' Administration Medical Center, Minneapolis, Minnesota, 1981.
- "Naloxone use in Cerebral Ischemia." Conference for Clinical Pharmacists, Veterans' Administration Medical Center, Minneapolis, Minnesota, 1981.
- "Disseminated Intravascular Coagulation in a Neonate with Autohemolysis." Conference for Clinical Pharmacists, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, 1981.
- "Acetaminophen Overdose and Acute Alcohol Ingestion." Conference for Clinical Pharmacists, St. Paul-Ramsey Medical Center, St. Paul, Minnesota, 1981.
- "Medications used in the Operating Room." Midwest Association of Operating Room Nurses, Fort Wayne, Indiana, 1978.

Research Presentations

- "Within-subject variability of lamotrigine bioavailability: analysis of Equigen study data." American Epilepsy Society, New Orleans, December 2018.
- "Medication adherence in the Equigen study of generic lamotrigine substitution." American Epilepsy Society, Washington DC, December 2017.
- "Coffee and tobacco interactions with lamotrigine." American Epilepsy Society, Houston, TX, December 2016.
- "Equivalence among generic AEDS (EQUIGEN): Single-dose study." American Epilepsy Society. Philadelphia, PA, December 2015.
- "Equivalence among generic AEDs (Eguigen)-single dose study." American Epilepsy Society, Seattle, WA, December 2014.
- "Subject-unrecognized medication adherence errors in the equivalence among generic AED (Eguigen) chronic dose trial." American Epilepsy Society, Seattle WA, December 2014.
- "Patients reporting problems after generic antiepileptic drug switches are unlikely to participate in a generic bioequivalence trial." American Epilepsy Society, Seattle WA, December 2014.
- "Bioequivalence testing of disparate generic lamotrigine products using chronic dosing in people with epilepsy: the Equigen study." American Epilepsy Society, Seattle WA, December 2014.
- "Comparison of bioavailability and dissolution data for generic lamotrigine tablets in the Equigen trial" (poster) American Epilepsy Society, Washington DC, December 2013.
- "Identification of the Most Disparate Generic Lamotrigine Tablets based on in vitro Screening." (poster) American Epilepsy Society, Washington DC, December 2013.
- "Identification of potentially effective antiepileptic drug combinations in patients with epilepsy." (poster) American Epilepsy Society, Boston, MA, December 2009.
- "A retrospective study of levetiracetam for seizures associated with brain tumors." (poster) American Epilepsy Society, Seattle, WA, December 2008.
- "The impact of limited transportation on medication compliance in patients with epilepsy."(poster) American Epilepsy Society, Philadelphia, PA, December 2007.

- "Evaluation of calcaneal ultrasound test to screen for osteoporosis and osteopenia in patients taking phenobarbital, phenytoin, carbamazepine, or valproate." (poster) American College of Clinical Pharmacy, St Louis, MO, October 2006.
- "Evaluation of calcaneal ultrasound test to screen for osteoporosis and osteopenia in patients taking phenobarbital, phenytoin, carbamazepine, or valproate." (poster) American Epilepsy Society, Washington DC, December 2005.
- "Outcomes of using new AED in juvenile myoclonic epilepsy." (poster) American Epilepsy Society, New Orleans, December 2004.
- "Teaching Evidence Based Practice to 3rd year Pharmacy Students in a Therapeutics Course." Asian Conference on Clinical Pharmacy, Seoul, Korea, July 2004.
- "Outcomes of using new AED in juvenile myoclonic epilepsy." (poster) American Academy of Neurology, Honolulu, April 2003.
- "Comparison of outcomes in patients with juvenile myoclonic epilepsy treated with lamotrigine, topiramate, zonisamide, or levetiracetam." (platform) American Epilepsy Society Annual Meeting, Seattle, December 2002.
- "Weight Loss Associated with Zonisamide Use." (poster) American Epilepsy Society Annual Meeting, Philadelphia, December 2001.
- "Weight Loss Associated with Zonisamide in US and European Clinical Trials." (poster) East Asia Conference on the Development of Clinical Pharmacy Practice and Education, Nagoya, Japan, August 2001.
- "Lamotrigine Combined with Valproate for Idiopathic Epilepsy." (poster) American Epilepsy Society, Annual Meeting, San Diego, California, 1998.
- "Instructional Design for Internet Delivery of Courseware." (poster) American Association of Colleges of Pharmacy, Snowmass, Colorado, 1998.
- "Increased Seizure Frequency During and Immediately Following Felbamate Withdrawal." (poster) American Epilepsy Society, Annual Meeting, Baltimore, Maryland, 1995.
- "Does Pretreatment with Calcium Channel Antagonists Improve Outcome in Ischemic Stroke?" (platform) American College of Clinical Pharmacy, 13th Annual Meeting, Toronto, Ontario, 1992.
- "One and Two Compartment Fitting of Vancomycin Serum Concentrations using Abbottbase Bayesian Pharmacokinetic Software." (poster) American College of Clinical Pharmacy, 13th Annual Meeting, Toronto, Ontario, 1992.
- "Clinical Outcomes of Vancomycin Pharmacokinetic Dosing: One vs. Two Compartment Modeling." (poster) American College of Clinical Pharmacy, 13th Annual Meeting, Toronto, Ontario, 1992.
- "Pretreatment with Calcium Channel Antagonists Associated with Decreased Length of Stay and Improved Neurological Outcome in Ischemic Stroke." (poster) 8th International Conference on Pharmacoepidemiology, Minneapolis, Minnesota, 1992.
- "Factors Associated with Vancomycin Nephrotoxicity in Patients Managed by a Physician." (poster) American College of Clinical Pharmacy, 12th Annual Meeting, Minneapolis, Minnesota, 1991.
- "The Impact of a Therapeutic Drug Monitoring Service on Vancomycin Dosing." (poster) American College of Clinical Pharmacy, 12th Annual Meeting, Minneapolis, Minnesota, 1991.
- "A Pharmacodynamic and Economic Study of Vancomycin Dosing Methods." (poster) 10th Annual Ohio Conference on Clinical Pharmacy, Dellroy, Ohio, 1990.
- "A Joint Cephalosporin Formulary between Two Community Hospitals." (poster) Indiana Society of Hospital Pharmacists, Indianapolis, Indiana, 1985.
- "A Double-Blind Crossover Evaluation of Progabide in Partial Seizures." (co-author, platform) American Academy of Neurology, Dallas, Texas, 1985.
- "Phenytoin Dosage Adjustment in an Office Practice." (poster) American College of Clinical Pharmacy, 5th Annual Meeting, San Diego, California, 1984.
- "Pharmacokinetics of Progabide in Epileptic Patients Receiving Carbamazepine and Phenytoin." (platform) American College of Clinical Pharmacy, 5th Annual Meeting, San Diego, California, 1984.

"Intramuscular Tobramycin in Geriatric Patients." (poster) American College of Clinical Pharmacy, 5th Annual Meeting, San Diego, California, 1984.

"The Effect of Progabide on Serum Phenytoin and Carbamazepine Concentrations." (platform) American College of Clinical Pharmacy, 5th Annual Meeting, San Diego, California, 1984.

"The Pharmacokinetics of Progabide in Epileptic Patients Receiving Carbamazepine and Phenytoin." (platform) 15th Epilepsy International Symposium, Washington, D.C., 1983.

"Gentamicin Pharmacokinetics in Neonates." Clinical Conference Symposium, University of Minnesota, College of Pharmacy, Minneapolis, Minnesota, 1982.

SERVICE

University, School, or Workplace

Drake University, Des Moines, IA

Member, Hidden Workload Task Force

Academic Freedom and Tenure Committee

Member, College of Business and Public Administration Data Analytics Faculty Search Committee

Chair, Occupational Therapy Search Committee

Member, Faculty Affairs Committee

Member, College Administrative Committee

Member, Tenure and Promotion Committee

Member, Interview Committee

University of Kansas, Lawrence, KS

Member, University Strategic Plan Transitions Committee (Charged with revision of general education curriculum)

Member, Medical Center Clinical and Translation Science Award Leadership Council

Member, Clinical Research Center Scientific Advisory Research Committee

Member, School of Pharmacy Assessment Committee

Member, School of Pharmacy Administrative Committee

Member, School of Pharmacy Executive Committee

Samford University, Birmingham, AL

Member, Department of Pharmacy Practice Educational Policy Committee

Chair, Department of Pharmacy Practice Search Committee

Alternate AACP Delegate, School of Pharmacy

Member, School of Pharmacy Curriculum Committee

Member, School of Pharmacy Assessment Committee

Member, School of Pharmacy CE Committee

Member, School of Pharmacy Academic Standards Committee

Chair, School of Pharmacy Faculty and Staff Life Committee

Member, School of Pharmacy ACPE Self Study Mission, Vision, and Planning Workgroup

Member, University Diversity Committee

Member, University Student Affairs, Religious Life, and University Relations Committee

Values Advocate, University Values Council

University of Cincinnati, Cincinnati, OH

Director, School of Pharmacy Continuing Education Program

Member, University Medical Center Task Force on Distance Education and Technology

Methodist Hospital of Indiana, Inc, Indianapolis, IN

Chair, Clinical Pharmacist Search Committee
Chair, Antibiotic Formulary Committee

Professional

American Association of Colleges of Pharmacy
Chair, Section of Continuing Pharmacy Education
Chair, Section of Teachers of Pharmacy Practice Strategic Planning and Bylaws Task Force
Chair, Section of Teachers of Pharmacy Practice
Member, Council of Sections, Strategic Planning Committee
Member, Finance Committee
Member, Task Force on Revision of Abstract Review Procedures
Chair, Section of Teachers of Pharmacy Practice Program Committee
Chair, Section of Teachers of Pharmacy Practice Nominating Committee
Reviewer, New Investigator Program/New Investigator Award

American College of Clinical Pharmacy
Member, Education Committee
Chair, Publications Committee
Member, Task Force on Residency Training
Member, Task Force on Research in the Professional Curriculum
Vice Chair, Program Committee
Author, PSAP Modules
Member, Clinical Practice Affairs Committee
Member, Task Force on Information Transfer
Member, Membership Services Committee
Member, Task Force on Pharmacist Reimbursement
Chair, CNS Practice and Research Network Nominations and Policy Committee
Chair, CNS Practice and Research Network Mini-sabbatical Review Committee
Abstract Reviewer
Member, Abstract Awards Committee

American Epilepsy Society
Ad-hoc Member, Board
Chair, Council on Clinical Activities
Chair, Treatments Committee
Chair, Antiepileptic Drug Work Group of the Treatments Committee
Chair, Clinical Pharmacology Special Interest Group
Vice Chair, Council on Clinical Activities
Member, CME Review Committee
Member, Interprofessional Education Committee
Member, Student and Resident Training Committee
Member, Annual Course Committee
Member, Task Force on Allied Health Professions in Epilepsy
Member, Membership Committee
Member, Technology Review Committee
Member, Task Force on Safety in the Epilepsy Monitoring Unit
Member, Clinical Practice Committee
Member, Task Force on Access to Care

Accreditation Council on Pharmacy Education

Chair, Continuing Pharmacy Education Commission
Commissioner, Continuing Pharmacy Education Commission

Christian Pharmacists Fellowship International
Editor, Christianity and Pharmacy

Current Medical Research and Opinion
Peer Reviewer
Member, Editorial Board

Iowa Healthcare Collaborative
Member, Pharmacy Advisory Board
Member, Medication Safety and Effectiveness Statewide Initiative Panel (Developed jointly with the Iowa Department of Public Health)

International League Against Epilepsy
Member, Medical Therapies Commission
Chair, Task Force on Generic Substitution

Peer Reviewer
American Journal of Health-System Pharmacists
Current Medical Research and Opinion
Epilepsia
Epilepsy and Behavior
Epilepsy Research
Journal of the National Medical Association
Pharmacist's Letter
Pharmacotherapy
The Annals of Pharmacotherapy
The Journal of Pediatrics

Other Service or Consulting
Member, Advisory Board, Pyongyang University of Science and Technology
Member, National Advisory Board, Cedarville University School of Pharmacy
Member, Pharmacy Advisory Board, Eisai
Consultant, Upsher-Smith Laboratories
Member, Pharmacy Workgroup, Iowa Healthcare Collaborative
Member, Data Safety Monitoring Board for Depression and Health Outcomes in Refractory Epilepsy, National Institute of Neurological Disorders and Stroke
Member, Data Safety Committee, MedPointe Pharmaceuticals
Member, Professional Advisory Board, Ovation Pharmaceuticals
Member, Professional Advisory Board, MedPointe Pharmaceuticals
Item Writer, Pharmacotherapy Certification Examinations, Board of Pharmaceutical Specialties
Consultant, Simkin Pharmacokinetic Software
Member, Pharmacist Advisory Board, Carter-Wallace
Consultant, Abbottbase Pharmacokinetic Software
Member, Pharmacist Advisory Board, Glaxo-Smith Kline
Member, Pharmacist Advisory Board, UCB Pharma
Member, Pharmacist Advisory Board, Parke-Davis
Member, Pharmacist Advisory Board, Abbott Pharmaceuticals

Member, Professional Advisory Board, North/Central Alabama Epilepsy Foundation
Member, Professional Advisory Board, Indiana Epilepsy Services

Community Service

Teacher, Northpoint Church, Johnston, IA
Teacher, Hillcrest Covenant Church, Prairie Village, KS
Co-chair, Special Commission on Generic Antiepileptic Drug Substitution, State of Alabama Legislature, Montgomery, AL
Member, Professional Advisory Board, North-Central Alabama Epilepsy Foundation, Birmingham, AL
Governing Board Member, Elder, and Teacher, Vestavia Alliance Church, Birmingham, AL
Governing Board Member and Teacher, Christ Community Church, Cincinnati, OH
Teacher, Bismarck Alliance Church, Bismarck, ND
Member, Board of Directors, Steer Inc, Bismarck, ND
Governing Board Member, Elder, and Teacher, Hope Church, Indianapolis, IN
Governing Board Member and Teacher, Maple Ridge Community Church, Lafayette, IN
Student Pharmacist, Saiburi Christian Hospital, Saiburi, Thailand