

DENISE H. RHONEY, PHARM.D., FCCP, FNCS, MCCM

Curriculum Vitae January 2024

Business Address

UNC Eshelman School of Pharmacy
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EDUCATION AND TRAINING

- July 1993 to June 1995 **Clinical Research/Drug Development Fellowship**
Glaxo Inc., Research Triangle Park, NC
Preceptor: Randal L. Batenhorst, Pharm.D.
University of North Carolina, Chapel Hill, NC
Preceptor: J. Herbert Patterson, Pharm.D., FASHP, FCCP
- July 1992 to June 1993 **Critical Care Specialty Residency (ASHP Accredited)**
Albert B. Chandler Medical Center
University of Kentucky, Lexington, Kentucky
Director: G. Dennis Clifton, Pharm.D.
- July 1991 to June 1992 **General Clinical Pharmacy Residency (ASHP Accredited)**
Albert B. Chandler Medical Center
University of Kentucky Lexington, Kentucky
Director: Mick Hunt, M.S.
- 1989 to 1991 **Doctor of Pharmacy** with High Distinction
University of Kentucky College of Pharmacy
Lexington, Kentucky
- 1985 to 1990 **Bachelor of Science in Pharmacy** with High Distinction
University of Kentucky College of Pharmacy
Lexington, Kentucky

PROFESSIONAL EXPERIENCE

- 2013 to Present **Ronald and Nancy McFarlane Distinguished Professor and Chair (Tenured)**
Division of Practice Advancement and Clinical Education
UNC Eshelman School of Pharmacy
Chapel Hill, North Carolina
- 2021 to Present **Director of Research Laboratory in Education and Learning Innovation**
Division of Practice Advancement and Clinical Education
UNC Eshelman School of Pharmacy
Chapel Hill, North Carolina

- 2017 to 2021
**Associate Dean of Education and Learning Innovation and
Director of the Office of Next in Education**
UNC Eshelman School of Pharmacy
Chapel Hill, North Carolina
- 2012 to 2017
Division Chair
Division of Practice Advancement and Clinical Education
UNC Eshelman School of Pharmacy
Chapel Hill, North Carolina
- 2011 to 2012
Interim Chair of Pharmacy Practice
Wayne State University Eugene Applebaum College of Pharmacy & Health
Sciences
Detroit, Michigan
- 2003 to 2012
Associate Professor of Pharmacy Practice (Tenure 08/03)
Wayne State University Eugene Applebaum College of Pharmacy & Health
Sciences
Detroit, Michigan
- 2000 to 2012
Associate Professor of Medicine, Department of Neurology
Wayne State University School of Medicine
Detroit, Michigan
- 1997 to 2003
Assistant Professor of Pharmacy Practice
Wayne State University College of Pharmacy and Allied Health
Detroit, Michigan
- 1995 to 1997
Neurosurgery Clinical Specialist
Detroit Receiving Hospital and University Health Center
Detroit, Michigan
- 1996 to 2005
Critical Care Specialty Residency Coordinator
Detroit Receiving Hospital and University Health Center
Detroit, Michigan
- 1995 to 1997
Adjunct Assistant Professor
Wayne State University School of Pharmacy
Detroit, Michigan
- 1995 to 1997
Clinical Assistant Professor
University of Michigan College of Pharmacy
Ann Arbor, Michigan
- 1993 to 1995
Clinical Instructor
University of North Carolina at Chapel Hill School of Pharmacy
Chapel Hill, North Carolina
- 1991 to 1993
Pharmacist
University of Kentucky Medical Center
Lexington, Kentucky
- 1991
Pharmacist
Kroger, Inc.
Lexington, Kentucky

Licensure
State of Kentucky #10181 (1991)
State of Michigan #5302030524 (1995)
State of North Carolina #12353 (1993)

HONORS

- Editor, Special Collection of American Journal of Pharmaceutical Education on Competency Based Education, 2022-2023
- Master of Critical Care Medicine, American College of Critical Care Medicine – January 2023
- Society of Critical Care Medicine Bronze Snapshot Award: (This is awarded to 10 people per year with the highest-ranking abstracts) for abstract Acute Kidney Injury and Augmented Renal Clearance Risk Factor Assessment in Patients With COVID-19. – January 2023
- American College of Clinical Pharmacy Best Original Research Abstract Internal Medicine PRN for abstract Scoping review of rational polytherapy in patients with drug resistant epilepsy – October 2022
- American College of Clinical Pharmacy Best Overall Research Abstract, Postgraduate Trainee for abstract Analysis of Renal Function in Patients Hospitalized with COVID19. – October 2022
- 2021 Honorable Mention, Trainee Poster Competition (“Identification of Intellectual Standards to Evaluate Clinical Reasoning Skills”) – July 2021
- 2019 AACCP Innovations in Teaching Award (“Master Adaptive Learning: Re-engineering Core Integrated Pharmacotherapy Curriculum for 21st Century Learning”) – July 2019
- ASHP Best Practices Award (“Innovation in Training: Transformation through a “Flipped” Approach to Residency Research”) - December 2018
- Faculty Administrators Development Program, UNC Chapel Hill – 2017-2018
- Presidential Citation, Neurocritical Care Society – October 2016
- ACCP Critical Care PRN Education Award – October 2015
- Presidential Service Award, Neurocritical Care Society – October 2015
- Presidential Citation, Neurocritical Care Society – October 2015
- Fellow, Neurocritical Care Society – October 2013
- Fellow, American College of Critical Care Medicine – February 2007
- Presidential Citation – Society of Critical Care Medicine – February 2007
- Society of Critical Care Medicine Clinical Visiting Professorship – August 2007 (served as visiting professor to Johns Hopkins University)
- SCCM – Ortho Biotech Critical Care Outcomes Fellowship Award - December 2004
- Fellow, American College of Clinical Pharmacy – October 2004
- ACCP –Central Nervous System Mini-Sabbatical Award – March 2004 (served as a mentor)
- Society of Critical Care Medicine – Joseph F. Dasta Critical Care Outcomes Research Award – January 2003
- Eugene Applebaum College of Pharmacy & Health Sciences Excellence in Teaching, 2003 – Wayne State University
- President’s Award for Excellence in Teaching, 2002 – Wayne State University
- Highlighted in Pfizer Pharmacy Career Guide – Winter 2002
- SCCM – Ortho Biotech Critical Care Outcomes Fellowship Award – January 2001
- Preceptor of the year, Doctor of Pharmacy Class, 1999
- ACCP –Central Nervous System Mini-Sabbatical Award – March 1999
- Development of Brain Microdialysis Skills- March 1999
- Excellence in Clinical Communications, University of Kentucky College of Pharmacy, 1991.
- The National Dean's List, Spring 1991.
- Who's Who Among American Colleges and Universities, Spring 1991.
- Outstanding College Students of America, Fall 1988.

- Dean's List, University of Kentucky College of Pharmacy, 1987-1991.
- Wright Academic Scholarship University of Kentucky, 1988-1991.
- Hickory Altrusa Club Scholarship, 1985-1991.

BIBLIOGRAPHY

Book Chapters

Rhoney DH, Parker D. Head Injury. Pharmacotherapy: A Patient-Focused Approach, 9th Edition, Appleton & Lange 2022.

Rhoney DH, Nelson N, Jordan D. Critical Care Management of Aneurysmal Subarachnoid Hemorrhage. Critical Care Pharmacotherapy. 2nd Edition. American College of Clinical Pharmacy, 2022.

Rhoney DH, Parker D. Head Injury. Pharmacotherapy: A Patient-Focused Approach, 8th Edition, Appleton & Lange 2019.

Rhoney DH. Stroke. Drug Induced Diseases: Prevention, Detection, and Management, 3rd Edition, American Society of Health-System Pharmacists; 2018.

Rhoney DH, Morbitzer KA, Hatton-Kolpek J. Pharmacotherapy for Vasospasm Prophylaxis and Treatment in Aneurysmal Subarachnoid Hemorrhage. Updates in Neurocritical Care: Neuropharmacology in Critical Illness. 1st Edition, Brophy GM (ed) 2017: 129-162.

Varelas PN, **Rhoney DH**. Antiepileptic Drugs. Antiepileptic Drugs Therapy in Neurosurgical Critical Care. Essentials of Neurosurgical Anesthesia & Critical Care, 2nd Edition, Brambrink A and Kirsch JR (eds) 2016.

Rhoney DH, Shepherd G. Drug Induced Seizures in Critically Ill Patients. Seizures in Critically Ill, 3rd Ed, Varelas PN (ed) 2017:321-342.

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Rhoney DH, Morbitzer K, Jordan D. Critical Care Management of Aneurysmal Subarachnoid Hemorrhage. Critical Care Pharmacotherapy. 1st Edition. American College of Clinical Pharmacy, 2016, 416-448.

Rhoney DH, McAllen KJ, Liu-DeRyke X, Parker D. Phenobarbital and Primidone. Applied Pharmacokinetics: A Clinical Case Study Guide, 1st Ed, Cohen H (ed). 2014: 153-166.

Rhoney DH, Parker D. Head Injury. Pharmacotherapy: A Patient-Focused Approach, 7th Edition, Appleton & Lange 2014: 182-186.

McAllen KJ, **Rhoney DH**. Drug Induced Hyperthermia. Drug Induced Complications in the Critically Ill Patient: A Guide of Recognition and Treatment. Society of Critical Care Medicine, 1st Ed, Mallow-Corbett S, Cooper B, Papadopoulos J, Gesin G, Barletta J, Kane-Gill S (eds) 1st ed. 2012, 127-144.

Rhoney DH, McAllen K, Parker D. Infections in the Neurocritical Care Unit. Emergency Management in Neurocritical Care, 1st Ed, Manno E (ed). 2012, 111-122.

Rhoney DH, Varelas PN. Drug Induced Seizures in Critically Ill Patients. Seizures in Critically Ill, 2nd Ed, Varelas PN (ed) 2009:307-341.

Varelas PN, **Rhoney DH**. Antiepileptic Drugs. Antiepileptic Drugs Therapy in Neurosurgical Critical Care. Essentials of Neurosurgical Anesthesia & Critical Care, 1st Edition, Brambrink A and Kirsch JR (eds) 2010:851-859.

Rhoney DH, Parker D. Head Injury. Pharmacotherapy: A Patient-Focused Approach, 6th Edition, Appleton & Lange 2010:182-186.

Rhoney DH. Stroke. Drug Induced Diseases: Prevention, Detection, and Management, 2nd Edition, American Society of Health-System Pharmacists; 2010: 190-210.

Rhoney DH, Parker D. Head Injury. Pharmacotherapy: A Patient-Focused Approach, 5th Edition, Appleton & Lange 2007:177-182.

Rhoney DH, Liu X. Hemorrhagic Stroke. Pharmacotherapy Self-Assessment Program, 6^h Edition. American College of Clinical Pharmacy 2007; 39-60.

Rhoney DH, Liu X. Ischemic Stroke. Pharmacotherapy Self-Assessment Program, 6^h Edition. American College of Clinical Pharmacy 2007; 121-140.

Rhoney DH. Stroke. Drug Induced Diseases: Prevention, Detection, and Management, 1st Edition, American Society of Health-System Pharmacists; 2005; 125-136.

Rhoney DH. Head Injury. Pharmacotherapy: A Patient-Focused Approach, 4th Edition, Appleton & Lange 2004.

Rhoney DH. Neurotrauma. Pharmacotherapy Self-Assessment Program, 4th Edition. American College of Clinical Pharmacy 2002; 181-224.

Rhoney DH. Head Injury. Pharmacotherapy: A Patient-Focused Approach, 3rd Edition, Appleton & Lange 2001; 175-177.

Rhoney DH, Luer MS. Head Injury. Pharmacotherapy: A Patient-Focused Approach, 2nd Edition, Appleton & Lange 2000;144-148.

Lu WY, **Rhoney DH**. Stress Ulcer Prophylaxis and Perioperative Nutrition. Textbook of Neurological Surgery, 1st Edition. Batjer HH (Editor), 1998.

Peer Reviewed Publications *=corresponding author

Nelson NR, Farina N, **Rhoney DH***. Utilization of a national database to characterize renal function in patients admitted with COVID19 infection. Discover Medicine 2024: under review

Nelson NR, **Rhoney DH***. Use of a Clinical Reasoning Scaffolding Document Improves Student Performance. Curr Pharm Teach Learn; 2024: under review.

Stamm PL*, Haines ST, Edwards KL, Fusco NM, Havrda DE, KC Lee, Papke JL, **Rhoney DH**, Sturpe DA, Knowles G, Baggett R. Educational Outcomes Necessary to Enter Pharmacy Residency Training: 2023 Update. J Am Coll Clin Pharm, 2024: in press

Shabanowitz N, Nelson NR, Rodgers JE, **Rhoney DH***. Student Pharmacists Provide Similar Quality Clinical Reasoning Feedback as Resident Teaching Assistants. Am J Pharm Educ 2024; in press

Rhoney DH*, Cox W, Gosk C, Jarstfer M, Pomykal C, Roberts MC, Shepherd G, Singleton S Defining Contemporary Roles of the Pharmacy Educator: The Essential First Step in Developing Equitable Faculty Teaching Workload. *Curr Pharm Teach Learn*; 2024: doi.org/10.1016/j.cptl.2023.12.032

Cox W, Gosk C, Jarstfer M, Pomykal C, Roberts MC, Shepherd G, Singleton S, **Rhoney DH***. Developing an Equitable Faculty Teaching Workload: What Comes After Establishing the Roles of the Contemporary Educator? *Curr Pharm Teach Learn*; 2024: S1877-1297(23)00337-4. doi: 10.1016/j.cptl.2023.12.033

Cook AM, Hall K, Kolpek JH, Morbitzer KA, Jordan JD, **Rhoney DH***. Augmented renal clearance in patients with traumatic brain injury impacts levetiracetam concentrations. *BMC Neurology* 2024, 24: Article 12: doi.org/10.1186/s12883-023-03515-w

Rhoney DH*, Meyer SM. A 30-year Review of AACP's Strategic Commitment to Improving Pharmacy Education. *Am J Pharm Ed*, 2023; Dec 18: 100636. doi: 10.1016/j.ajpe.2023.100636. Online ahead of print. PMID: 38122868

Rhoney DH*, Meyer SM. Competency-Based Education: The Need to Debunk Misconceptions with a Common Language. *Am J Pharm Ed*, 2023; Dec 19: 100637. doi: 10.1016/j.ajpe.2023.100637. Online ahead of print. PMID: 38128614

Chen AM*, Kleppinger, Churchwell M, **Rhoney DH**. Examining Competency-Based Education through the Lens of Implementation Science: A Scoping Review. *Am J Pharm Ed*, 2023; Dec 11: 100633. doi: 10.1016/j.ajpe.2023.100633. Online ahead of print. PMID: 38092089

Sibicky S*, Daugherty KK, Chen AM, **Rhoney DH**, Nawarskas J. Enabling Factors for the Implementation of Competency-Based Curricula in Colleges and Schools of Pharmacy. *Am J Pharm Ed*, 2023, in press (for special theme collection on competency-based education)

Daugherty KK, Chen AM, Churchwell, MD, Jarrett JB, Kleppinger EL, Nawarskas JL, Sibicky SL, Stowe CD, Meyer SM **Rhoney DH***. Competency-Based Pharmacy Education Definition: Does it Fit All the Needs and What Components Need to Be Defined to Implement It? *Am J Pharm Ed*, 2023; Nov 10: 100624. doi: 10.1016/j.ajpe.2023.100624. Online ahead of print. PMID: 37952584

Chen AM, Daugherty KK, Churchwell, MD, Jarrett JB, Kleppinger EL, Nawarskas JL, Sibicky SL, Stowe CD, Meyer SM **Rhoney DH***. Defining the need and fit of competency-based pharmacy education. *Am J Pharm Ed*, 2023, in press (for special collection issue on competency-based education)

Nelson NR, Darst EC, **Rhoney DH***. Response to "A Call to Action to Remove ACPE Limits on Non-Patient Care Elective Advanced Pharmacy Practice Experiences" *Am J Pharm Educ*. 2023 Nov;87(11):100603. doi: 10.1016/j.ajpe.2023.100603. Epub 2023 Oct 10.

Roskowski, SM, Wolcott MD, Persky AM, **Rhoney DH**, Williams CR*. Assessing the Use of Microlearning for Preceptor Development. *Pharmacy*, 2023 Jun 15;11(3):102. doi: 10.3390/pharmacy11030102.

Austin Z, Andriole D, **Rhoney DH***. Competency-Based Education: Moving Forward in Pharmacy Education? *Am J Pharm Ed*, 2023; 87(10): 100550. doi: 10.1016/j.ajpe.2023.100550.

Rhoney DH*, Chen AM, Churchwell, MD, Daugherty KK, Jarrett JB, Kleppinger EL, Nawarskas JL, Sibicky SL, Stowe CD, Meyer SM. Recommendations and Next Steps Related to Competency-Based Pharmacy Education. *Am J Pharm Ed*, 2023; 87(10): 100549. doi: 10.1016/j.ajpe.2023.100549.

Almohaish M, Cook AM, Brophy GM*, **Rhoney DH**. Personalized Antiseizure Medication Therapy in Critically Ill Adult Patients. *Pharmacotherapy*, 2023; 43(11):1166-1181. doi: 10.1002/phar.2797. (invited review for special theme issue on precision medicine in the ICU)

Grinalds MS*, Yoder C, Krauss Z, Chen AM, **Rhoney DH**. Scoping review of rational polytherapy in patients with drug-resistant epilepsy. *Pharmacotherapy* 2023;43:53-84. doi: 10.1002/phar.2748.

Nelson NR, **Rhoney DH***. Analysis of expert feedback to determine intellectual standards for assessing student pharmacist clinical reasoning development. *Am J Pharm Ed*, 2023; 87:ajpe8975.doi: 10.5688/ajpe8975.

Nelson NR, Mendoza C, **Rhoney DH***. A Scoping Review of Augmented Renal Clearance in the Oncology Population. *Journal of Pharmacy Practice*, 2023;36 (6); 1485-1497: doi: 10.1177/08971900221121362.

McFarland MS*, Stover K, Bhat S, Coon S, Cooper M, DiDomenico R, Herbert S, Kessler S, Lee M, Maddox MM, Quidley, **Rhoney DH**, Wooten L, Zho Y. Charting a New Path Forward for Pharmacy Residency Expansion: A Commentary from The ACPP TASK FORCE on RESIDENCY TRAINING. *J Am Coll Clin Pharm* 2022, DOI: 10.1002/jac5.1748

Beaty S, Rosenthal N, Gayle J, Dongre P, Ricchetti-Masterson K, **Rhoney DH***. Epidemiology, Patient Journey and Injectable Antiseizure Medication Treatment Patterns among Seizure Patients in United States Hospitals. *Frontiers in Neurology* 2022; 13:941775.doi: 10.3389/fneur.2022.941775

Rhoney DH*, Brooks AB, Nelson NR. Augmented Renal Clearance: An Under-Recognized Phenomenon Associated with COVID-19. *Crit Care Explorations* 2022; 4(2): doi: 10.1097/CCE.0000000000000617

Lee K, Klein P, Dongre P, Choi EJ, **Rhoney DH***. Intravenous Brivaracetam in the Management of Acute Seizures in the Hospital Setting: A Scoping Review. *J Intensive Care Med* 2022, March 21, 2022: <https://doi.org/10.1177/08850666211073598>

Rhoney DH*, Metzger SA, Nelson NR. Scoping Review of Augmented Renal Clearance in Critically Ill Pediatric Patients. *Pharmacotherapy* 2021, 41:851-863. doi: 10.1002/phar.2617

Top cited paper 2021-2022 from Pharmacotherapy

Nelson NR, Armistead LT, Blanchard CM, **Rhoney DH***. The pharmacist's professional identity: Identifying, Preventing, and managing medication therapy problems. *J Am Coll Clin Pharm* 2021, October 8, 2021: <https://doi.org/10.1002/jac5.1538>

One of top downloaded paper 2021-2022 from J Am Coll Clin Pharm

Nelson NR, Carlson R, Corbett AH, Williams D, **Rhoney DH***. Feedback for learning in pharmacy education: A scoping review. *Pharmacy (Basel)* 2021 Apr 23;9(2):91. doi: 10.3390/pharmacy9020091.

Nelson NR, Anderson SM, Zeeman JM, **Rhoney DH***. A scoping review of the pharmacy curriculum outcomes assessment literature. *Am J Pharm Ed* April 2021, 85:8505; DOI: <https://doi.org/10.5688/ajpe8505>

Rhoney DH*, Singleton S, Nelson NR, Anderson SM, Hubal R. Forces driving change in pharmacy education: Opportunities to take ASTEP into the future. *J Am Coll Clin Pharm* 2021; 4(5):639-651. DOI: 10.1002/jac5.1407

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Mainali S*, Moheet AM, McCredie VA, Livesay S, Manners J, **Rhoney DH**, Muehlschegel S. The Neurocritical Care Society gender parity analysis in grants and recognition awards. *Neurocritical Care* 2021, Jan 13. doi: 10.1007/s12028-020-01164-2. Online ahead of print.

Rhoney DH*, La M, Merz M, Cook A, Owusu KA, Roels C, Blunck J, Shewmaker J, Sangha KS, Farrokh S, Lewin J, Chester KW, Human T, Bledsoe K, Greene K, Levesque M, Rocker JC, Davis G, Neyens R, Lassiter TF, Adriance SM. Inactivated Four-Factor Prothrombin Complex Concentrate Dosing Practices for Reversal of Warfarin-Related Intracranial Hemorrhage. *Neurocrit Care* 2021 Aug;35(1):130-138. doi: 10.1007/s12028-020-01153-5. Epub 2020 Nov 20.

Wolcott MD*, McLaughlin JE, Hann A, Miklavec A, Beck Dallaghan GL, **Rhoney DH**, Zomorodi M. A review to characterize and map the growth mindset theory in health professions education. *Med Ed* 2021 Apr;55(4):430-440. doi: 10.1111/medu.14381. Epub 2020 Oct 9.

*Reviewed by KeyLIME podcasts [306] - <https://keylimepodcast.libsyn.com/306-growth-mindset>
Top cited paper 2021-2022 from Medical Education*

Romanelli F*, **Rhoney DH**, Black EP, Conway J, Kennedy DR. Pharmacy Education Crosses the Rubicon. *Am J Pharm Educ*. 2020 Jun;84(6):ajpe8131. doi: 10.5688/ajpe8131.

Hocker S*, Shah S, Vespa P, Provencio JJ, Calvillo E, Olson DM, Venkatasubba Rao CP, Hemphill JC, Helbok R, Human T, Kamel H, Madden LK, Nyquist P, Bentho O, O'Phelan K, Lewin JJ, Alexander S, Ziai W, Chou SH, Rincon F, McNett M, Ko N, Zink B, **Rhoney D**, Diringner MN, Stevens R, Robertson CS, Sampaio G, Shutter LA, Ling G, Rehman M, Mahmoud SH, Yeager S, Livesay S, Suarez. The future of neurocritical care research: proceedings and recommendations form the fifth neurocritical care research network conference. *Neurocrit Care* 2020; 32:311-316. doi: 10.1007/s12028-019-00767-8.

Moheet AM, Mainali S, McCredie VA, Livesay S, Manners J, **Rhoney DH**, Muehlschegel S. A longitudinal study of gender parity trends of general membership and leadership in the Neurocritical Care Society between 2002 and 2019. *Neurocrit Care* 2021 Aug;35(1):16-23. doi: 10.1007/s12028-020-01124-w. Epub 2020 Oct 27.

Rhoney DH*, Chester KW, Darsey DA. Optimal dosage and administration practices for vitamin K antagonist reversal with four-factor prothrombin complex concentrate. *Clin Appl Thromb Hemostasis* 2020, Jan-Dec; 26: 1076029620947474.

Wells MA, Morbitzer KA, **Rhoney DH***. Evaluation of the accuracy of standard renal function equations in critically-ill patients with subarachnoid hemorrhage, *Neurocrit Care* 2020;32:828-835, doi: 10.1007/s12028-019-00854-w.

Morbitzer KA, Wilson WS, Chaben AC, Darby A, Dehne KA, Brown ER, **Rhoney DH**, Jordan JD*. Energy expenditure in critically ill adult patients with acute brain injury: indirect calorimetry vs predictive equations. *Front Neurol* 2020; Jan 21 <https://doi.org/10.3389/fneur.2019.01426>

Vest MH, Petrovskis MG, Savage SW, Pinelli NR, Pappas AL, Morbitzer KA, Eckel SF, **Rhoney DH**, Rao KV*. Impact of an innovative partnership in patient care between an academic medical center department of pharmacy and a school of pharmacy. *Am J Health Syst Pharm*. 2019 Dec 2;76(24):2070-2076. doi: 10.1093/ajhp/zxz250.

Morbitzer KA, **Rhoney DH**, Dehne KA, Jordan JD*. Enhanced renal clearance and impact on vancomycin pharmacokinetic parameters in patients with hemorrhagic stroke. *J Intensive Care*. 2019 Nov 21;7:51. doi: 10.1186/s40560-019-0408-y. eCollection 2019.

Hackenberg KAM, Algra A, Salman RA, Frösen J, Hasan D, Juvela S, Langer D, Meyers P, Morita A, Rinkel G, Etminan N; Unruptured Aneurysms and SAH CDE Project Investigators. Definition and Prioritization of Data Elements for Cohort Studies and Clinical Trials on Patients with Unruptured Intracranial Aneurysms: Proposal of a Multidisciplinary Research Group. *Neurocrit Care*. 2019 May 17. doi: 10.1007/s12028-019-00729-0

Damani R, Mayer S, Dhar R, Martin RH, Nyquist P, Olson DM, Mejia-Mantilla JH, Muehlschlegel S, Jauch EC, Mocco J, Mutoh T, Suarez JI; Unruptured Aneurysms and SAH CDE Project Investigators. Common Data Element for Unruptured Intracranial Aneurysm and Subarachnoid Hemorrhage: Recommendations from Assessments and Clinical Examination Workgroup/Subcommittee. *Neurocrit Care*. 2019 May 14. doi: 10.1007/s12028-019-00736-1.

Suarez JI, Sheikh MK, Macdonald RL, Amin-Hanjani S, Brown RD Jr, de Oliveira Manoel AL, Derdeyn CP, Etminan N, Keller E, Leroux PD, Mayer SA, Morita A, Rinkel G, Rufennacht D, Stienen MN, Torner J, Vergouwen MDI, Wong GKC; Unruptured Intracranial Aneurysms and SAH CDE Project Investigators. Common Data Elements for Unruptured Intracranial Aneurysms and Subarachnoid Hemorrhage Clinical Research: A National Institute for Neurological Disorders and Stroke and National Library of Medicine Project. *Neurocrit Care*. 2019 May 13. doi: 10.1007/s12028-019-00723-6.

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Wong GKC, Daly JJ, **Rhoney DH**, Broderick J, Ogilvy C, Roos YB, Siddiqui A, Torner J; Unruptured Intracranial Aneurysm and SAH CDE Project Investigators. Common Data Elements for Unruptured Intracranial Aneurysm and Subarachnoid Hemorrhage Clinical Research: Recommendations from the Working Group on Long-Term Therapies. *Neurocrit Care*. 2019 May 10. doi: 10.1007/s12028-019-00727-2.

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Adams K, Kearney M, Lee K, **Rhoney D**, Smith KM. Strength in numbers: A team-based approach to managing patients with hyponatremia. *Am J Med* 2018 May 24. pii: S0002-9343(18)30438-8. doi: 10.1016/j.amjmed.2018.05.005. [Epub ahead of print]

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Sodium in Patients with Acute Neurological Injury. *Neurocritical Care*, 2017 Oct;27(2):242-248. doi: 10.1007/s12028-016-0343-x.

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Manuals, Videos, Computer Programs, and other Teaching Aids

Rhoney DH. The Role of Pharmacist in Neurocritical Care. NephU 2022. Program available at : <https://nephu.org/event/the-role-of-the-pharmacist-in-neurocritical-care/>

Rhoney DH. Acute BP Management Following ICH. Pharmacotherapy of Neurocritical Care Series (PONS). Neurocritical Care Society 2015. Program available at <https://www.pathlms.com/ncs-ondemand/courses/1622>

Blevins LS, **Rhoney, DH**. Treatment of Hyponatremia in the Neurocritical Care Unit. Medscape 2015. Program available at <http://www.medscape.org/viewarticle/840600>

Moritz M, Rhoney DH. Cases in Hyponatremia: Minimizing Risks, Optimizing Outcomes. CME ZONE 2015. Program available at: <http://www.cmezone.com/activities/mm142/2364/>

Spinler SA, Fanikos J, **Rhoney, DH**. Answering the Call: The Role of Health-System Pharmacists to Improve Use of Target-Specific Oral Anticoagulants. 2015 Power-Pak CE. Program available at <http://www.powerpak.com/course/preamble/111052>

Rhoney DH, Wright WL. Recognition and Management of Hyponatremia in the Critical and Neurocritical Care Setting: A Case-Based Look at Vasopressin Receptor Antagonists. Medscape 2012. Program available at <http://theheart.medscape.org/viewarticle/767829>

Podcasts

Competency-Based Education: From Knowing, to Knowing How, to Showing, To Doing. January 9, 2024 https://pharmacyfika.podbean.com/e/cbe_2023/

Rational Polytherapy in Patients with Drug-Resistant Epilepsy ACCP Journals Episode 95 Podcast, 2023 <https://anchor.fm/accp-jrnls/episodes/Rational-polytherapy-in-patients-with-drug-resistant-epilepsy---Ep-95-e1ttmpj>

Implementation Science. DISRxUPT Podcast Series, Episode 19. 2022
<https://share.transistor.fm/s/802a5731>

Drivers of Change in Pharmacy Education. ACCP Episode 55 Podcast, 2021
<https://anchor.fm/accp-jrnls/episodes/Forces-driving-change-in-pharmacy-education---Episode-55-e10igtu>

Book Reviews

The following article was highlighted in the Mosby Yearbook of Neurology and Neurosurgery 2001: Rebeck JA, Murry KR, Rhoney DH, Michael DB, Coplin WM. Infection related to intracranial pressure monitors in adults: analysis of risk factors and antibiotic prophylaxis. *J Neurol Neurosurg Psychiatry* 2000;69(3):381-4

Nursing 96 Drug Handbook. Springhouse, PA: Springhouse Corporation; 1995.
(autonomic nervous system)

Physician's Drug Handbook. 6th ed. Springhouse, PA: Springhouse Corporation; 1995.
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(autonomic nervous system and antimicrobial agents sections)

Pharm Facts. Springhouse, PA. Springhouse Corporation, 1995. (neurology section)

TEACHING ACTIVITIES

The University of North Carolina Eshelman School of Pharmacy Teaching Activities

Courses

Fall 2023 – present	UNC Advising Program 8 PY1 Students
Fall 2022 – present	PHCY 502: Pathophysiology of Human Disease (3.5 Credit Hours) 126 Contact Hours– Course Coordinator and content delivery. Utilization of specifications grading for mastery learning
Spring 2022 – 2023	PHCY 815: Data Science in Pharmacy (1 Credit Hour) – 2 Contact Hours
Spring 2021 – 2021	PHCY 624/725/726: Research and Scholarship in Pharmacy (RASP)
Spring 2020 - present	PHCY 631: Integrated Pharmacotherapy I facilitator and feedback assessment (5 Credit Hours) – 68 Contact Hours
Fall 2019 – 2020	PHCY 502: Pathophysiology of Human Disease – Central Nervous System content development. (3.5 Credit Hours)1 Contact Hour
Spring 2018 -2019	PHCY 733: Integrated Pharmacotherapy III – Course sequence developer, Case development, feedback assessment (5 Credit Hours) 22 Contact Hours

Fall 2017 - present	PHCY 732: Integrated Pharmacotherapy II – course sequence developer and case developer (5 Credit Hours) 12 Contact Hours
Spring 2017 - 2019	PHCY 631: Integrated Pharmacotherapy I - Course sequence developer, course coordinator, facilitator, and case developer (5 Credit Hours – 320 Contact Hours Spring 2017 Block I = 73 students Block II = 71 students Spring 2018 Block I = 68 students Block II = 74 students
Fall 2016 - present	PHCY 611: Applied Clinical Pharmacology: Content delivery on antiepileptic drugs (1.5 hours)
Fall 2018 – present	PHCY 630: Applied Pharmacotherapy: content delivery and case development (4.5 hours)
Spring/Fall 2016-2018	Integrated Pharmacotherapy Course Development Team Co-chair
Fall 2015	PHCY 510: Foundations in Clinical Pharmacology course co-developer
Spring 2012 to 2016	PHCY 446: Pharmacotherapy 5: Neurology/Psychiatry <i>Content Delivery: Seizure Disorders (3 lecture hours) and stroke (2 lecture hours)</i> Spring 2012 174 students Spring 2013 167 students Spring 2014 170 students Spring 2015 165 students Spring 2016 171 students
Spring 2012 to 2016	PHCY 450: Problems in Pharmacotherapy facilitator 2012 Spring Facilitator for 16 students 2013 Spring Facilitator for 12 students 2014 Spring Facilitator for 12 students 2015 Spring Facilitator for 12 students 2016 Spring Facilitator for 12 students
Winter 2013	PHCY 446 CNS Pharmacotherapeutics Course <i>Topics: Seizure disorders (3 lecture hours) and stroke (2 lecture hours)</i>
Winter 2013 to 2017	PACE 808 Critical Care Elective coordinator

Graduate Student Dissertation Committee

Division of Pharmaceutical Outcomes and Policy graduate student dissertations committee for:
Julie Lauffenburger, Pharm.D. (2012 – 2014)

Post-Graduate Mentorship Activity

2017-2018

Director of Neurocritical Care Fellowship

- *Mary La, Pharm.D., BCCCP – Critical Care Clinical Specialist – Cleveland Clinic*

2017-2021

Director of Education Innovation Fellowship

- *Sarah Anderson, Pharm.D. (2017-2019) (2018 AACP Wal-Mart Scholar) – Assistant Professor, High Point University College of Pharmacy*

- *Nicholas Nelson, Pharm.D (2019-2021) – Assistant Professor, Wingate University College of Pharmacy*

2013 - 2015

Director of Neurocritical Care Fellowship

- *Kathryn Morbitzer, Pharm.D., MS – Clinical Assistant Professor, UNC Eshelman School of Pharmacy*

2013-2016

Residency Teaching Certificate Program

- *Ashley Hilleman, Pharm.D. (2013-2014)*
- *Sarah Greene, Pharm.D. (2014-2015)*
- *Adrienne Darby (2015-2016)*

High School Student Mentorship Activity

2020-2021

Research Mentorship

- *Chelsea Mendoza (Summer 2020) North Carolina School of Science and Math*
- *Samuel Metzger (Summer 2020) Cardinal Gibbons High School*

Wayne State University Eugene Applebaum College of Pharmacy and Health Sciences Teaching Activities

Awards – *I was awarded the highest teaching award at Wayne State University in 2003, The President’s Excellence in Teaching. This award was based upon innovative use of games in the classroom to promote topic retention.*

- Wayne State University President’s Excellence in Teaching Award – 2003
- Wayne State University College of Pharmacy Excellence in Teaching Award – 2003
- Wayne State University Doctor of Pharmacy Preceptor of the Year 1998-1999

Courses

1997- 2011

PHA 5155 (old course number PHA 4220): Central Nervous System Module

Content Delivery: Seizure Disorders (4 lecture hours); General and Local Anesthesia (2 lecture hours); Multiple Sclerosis (1 lecture hour); Anxiety Disorders (2 lecture hours); Acute Pain (2 lecture hours); Sleep Disorders (1 lecture hour); Parkinson’s Disease (2 lecture hours); Introduction to Antidepressant Agents (1 lecture hour); Neurocritical Care (1 lecture hour); Stroke [3 lecture hours (until Winter 2006 when moved to cardiovascular module)]. In addition to content delivery, I was responsible for developing two different problem-based learning cases and assessments each year from 2007-2011

Winter 2003	64 students (course coordinator)
Winter 2004	56 students (course coordinator)
Winter 2005	59 students (course coordinator)
Fall 2007	88 students
Fall 2008	76 students
Fall 2009	92 students
Fall 2010	88 students
Fall 2011	91 students

2006 – 2011

PHA 4260: Cardiovascular System Module

Content Delivery: Ischemic Stroke (2 lecture hours); Hemorrhagic Stroke (1 lecture hour)

Winter 2006	88 students
Winter 2007	76 students
Winter 2008	92 students

Winter 2009	88 students
Winter 2010	91 students
Winter 2011	101 students

2006-2011 PHA 5270: Drug Induced Diseases

Content Delivery: Drug Induced Seizures (1 lecture hour); Drug Induced Stroke (1 lecture hour)

Winter 2006	88 students
Winter 2007	76 students
Winter 2008	92 students
Winter 2009	88 students
Winter 2010	91 students
Winter 2011	101 students

1997-2011 PPR 748: Elective Clerkship in Neurocritical Care

Elective 4-credit clerkship experience for students in professional year 4

2002-2003	6 students
2003-2004	2 students
2004-2005	2 students
2005-2006	2 students
2006-2007	1 student
2007-2008	2 students
2008-2009	1 student

2000-2011 PPR 750: Elective Clerkship in Neurocritical Care Research

Elective 4-credit clerkship experience for students in professional year 4

2003-2004	2 students
2004-2005	1 students
2007-2008	1 student
2008-2009	1 student
2009-2010	1 student

1999-2011 PPR 7990: Directed Study Neurocritical Care Research

Elective 2-credit course for students in professional year 2 or 3

Spring/Summer 2004	10 students
Spring/Summer 2005	6 students
Spring/Summer 2006	7 students
Spring/Summer 2007	6 students

2001-2005 PPR6160: Advanced Therapeutic Problem Solving (course coordinator)

Fall 2001	18 students
Fall 2002	48 students
Fall 2003	Medical leave
Fall 2004	55 students
Fall 2005	59 students

2008-2011 Director of Residency Teaching Certificate Program

This program included residents from 9 hospitals within the metropolitan Detroit area and 2 hospitals from Windsor Ontario

2008-2009 26 residents
2009-2010 32 residents
2010-2011 36 residents

- 2007 - 2011** **Coordinator of Problem Based Learning Curriculum**
Coordinator of problem-based learning component of the modular courses across two years of the curriculum (P2 and P3 year)
- 2005-2011** **Neuropharmacology Teaching Curriculum – Department of Neurology, School of Medicine (course coordinator)**
Content Delivery: Pharmacology of Antiseizure Agents (1 lecture hour); Pharmacology of General Anesthesia (1 lecture hour); Pharmacology of Anticoagulants/Antiplatelets (1 lecture hour); Pharmacology of Parkinson's Disease (1 lecture hour); Pharmacology of ICU Sedation (1 lecture hour)
- 2000-2001** **PHR 6710: Pharm.D. Surgery Pharmacotherapy Elective**
Content Delivery: General and Local Anesthesia (2 lecture hours); postoperative pain management (1 lecture hour)
- 1996-1999** **PHR 660: Clinical Pharmacokinetics**
Content Delivery: Antiseizure agents (2 lecture hours)
- 1996-1999** **PHR 660: Post-BS PharmD Pharmacotherapeutics - (Coordinator 1997-1999)**
Content Delivery: Neurotrauma (2 lecture hours), Seizure Disorders (2 lecture hours), Multiple Sclerosis (2 lecture hours), Parkinson's Disease (2 lecture hours)
- 1995-1999** **Critical Care Nursing Certification Class**
Content Delivery: Neuropharmacology (2 lecture hours)

Post-Graduate Mentorship Activity at Wayne State University Eugene Applebaum College of Pharmacy and Health Sciences

- 1996-2007** **Director of Critical Care Specialty Residency Detroit Receiving Hospital**
I established, received, and maintained ASHP accreditation for the Critical Care Specialty Residency program at Detroit Receiving Hospital. During my years as coordinator, I successfully recruited and graduated nine residents in this program including:
- *Martin J. Oblinger, Pharm.D. –Professor of Pharmacy Practice, University of Toledo*
 - *Kellie Murry, Pharm.D., MBA - Regional MSL Director-West, Cadence Pharmaceuticals*
 - *Jeffrey Gonzales, Pharm.D., FCCM – MSL, Wolters Kluwer Pharmaceuticals*
 - *Allison Sommerville-Guirgues, Pharm.D. – Clinical Specialist Carteret General Hospital, Morehead City, NC*
 - *Christine M. Formea, Pharm.D. – Enterprise Pharmacogenomics Clinical Pharmacist at Intermountain Healthcare, Salt Lake City, Utah*
 - *Lisa L. Larive- Forsyth, Pharm.D. – Manager, Clinical Pharmacy Services, William Beaumont Hospital, Royal Oak, MI*
 - *Christine Ahrens, Pharm.D. - Critical Care Clinical Specialist, Cleveland Clinic, Cleveland, MI*
 - *Xi Liu-DeRyke, Pharm.D. – Critical Care Clinical Specialist Orlando Regional Medical Center, Orlando, FL*
 - *Jeffrey Fong, Pharm.D. –Professor of Pharmacy Practice, University of Massachusetts*
- 1996-2007** **Director of Neurocritical Care Fellowship**

- 2013-Present** I established a fellowship in neurocritical care clinical research. I successfully received competitive funds from the Society of Critical Care Medicine Ortho Biotech Critical Care Outcomes Fellowship for training of two fellows who have incorporated clinical research within their clinical practice and continue to be successful in publishing and now precepting pharmacy residents on research projects.
- *Lisa L. Larive-Forsyth, Pharm.D. - Manager, Clinical Pharmacy Services William Beaumont Hospital, Royal Oak, MI*
 - *Xi Liu-DeRyke, Pharm.D. – Critical Care Clinical Specialist Orlando Regional Medical Center, Orlando, FL*

EDUCATIONAL PRESENTATIONS

Invited Speaking- National/International

- 2024 4-Factor PCC for Factor Xa-Inhibitor ICH
Society of Critical Care Medicine Annual Congress, Phoenix, AZ (January)
- Novel Program for Supporting PY1 Students
Synergy Through Collaboration Quarterly Education Program, Virtual (January)
- 2023 Learning for a Lifetime: Exploring Master Adaptive Learner Framework
Synergy Through Collaboration Quarterly Education Program, Virtual (August)
- Competency-Based Education: Why Would Pharmacy Education Consider this Model?
American Association of Colleges of Pharmacy Annual Meeting, Denver, Colorado (July)
- Competency-Based Education (CBE): Implementation Success or Fail?
American Association of Colleges of Pharmacy Annual Meeting, Denver, Colorado (July)
- In Search of the Holy Grail: Developing Clinical Reasoning Skills to Carry Learners into Practice
American Association of Colleges of Pharmacy Annual Meeting, Denver, Colorado (July)
- It's all about Character! Tools to Develop optiMAL Learner Characteristics to Support the Climb of Clinical Reasoning Development
Lifelong Learning in Pharmacy 2023, Denver, Colorado (July)
- Nuts and Bolts of Implementation Science Research
American College of Clinical Pharmacy MeRIT Program, Omaha, Nebraska (June)
- Introduction to Scholarship of Teaching and Learning
American College of Clinical Pharmacy MeRIT Program, Omaha, Nebraska (June)
- Nuts and Bolts of Unfunded Research
American College of Clinical Pharmacy MeRIT Program, Omaha, Nebraska (June)
- Workshop on Scientific Research Abstract Development
American College of Clinical Pharmacy MeRIT Program, Omaha, Nebraska (June)
- Role of Neurocritical Care Pharmacists in Patients with Altered Consciousness
World Coma Day – Neurocritical Care Society, Virtual (March)
- 2022 AACP COD/COF Joint Task Force for Faculty Workload Reimagined
American Association of Colleges of Pharmacy Interim Meeting, Orlando, Florida (February)

Luminary Lounge (Participate in an informal moderated discussion in the Luminary Lounge with past SCCM presidents and leaders who will share their experience and wisdom about critical care and SCCM. This is an excellent opportunity to hear the history of critical care medicine and to connect with colleagues from around the world.)

Society of Critical Care Medicine Annual Congress, San Francisco, California (January)

2022

The Interface Between Practice and Education
PharmAlliance Week, London, England (September)

Scaffolding clinical reasoning: Development and implementation of a clinical reasoning scaffolding tool

American Association of Colleges of Pharmacy Annual Meeting, Dallas, Texas (July)

The Vision of MyDispense:EHR
MyDispense Symposium, Prato, Italy (July)

Competency Based Education: Panel Discussion
American Association of Colleges of Pharmacy Bridging Practice to Education Summit (June)

Nuts and Bolts of Implementation Science Research
American College of Clinical Pharmacy MeRIT Program, Lexington, Kentucky (June)

Nuts and Bolts of Unfunded Research
American College of Clinical Pharmacy MeRIT Program, Lexington, Kentucky (June)

Workshop on Scientific Research Abstract Development
American College of Clinical Pharmacy MeRIT Program, Lexington, Kentucky (June)

Competency Based Education 2021/2022 COD/COF Joint Task Force Update
American Association of Colleges of Pharmacy Interim Meeting, San Diego, California (February)

Need for Competency Based Education Roundtable
American Association of Colleges of Pharmacy Interim Meeting, San Diego, California (February)

The Role of the Pharmacist in Neurocritical Care
NephU Webinar (January)

2021

Focal Seizure Management in the NCCU: Expert Discussion on Challenges and Considerations
Neurocritical Care Society Annual Meeting, Chicago, Illinois (October)

Zooming Into Deep Learning of Epilepsy: Integrating the Science of Learning into Education Technology

American Association of Colleges of Pharmacy Annual Meeting, Virtual (July)

Change Drivers in Higher Education: Implications for the Pharmacy Academy to Reflect, Respond, and Re-Imagine

American Association of Colleges of Pharmacy Annual Meeting, Virtual (July)

Synergizing Faculty Development and Collaboration Through Multi-Institution Book Club
American Association of Colleges of Pharmacy Annual Meeting, Virtual (July)

Nuts and Bolts of Implementation Science Research
American College of Clinical Pharmacy MeRIT Program, Lexington, Kentucky (June)

Nuts and Bolts of Unfunded Research

- American College of Clinical Pharmacy MeRIT Program, Lexington, Kentucky (June)
- Workshop on Scientific Research Abstract Development
American College of Clinical Pharmacy MeRIT Program, Lexington, Kentucky (June)
- 2020 Brivaracetam for Focal Seizures in the Critically Ill: A Clinical Review
Neurocritical Care Society Annual Meeting, Virtual (September)
- Putting the Puzzle Pieces Together: Facilitating Data-Informed Decision Making Using Real-Time Curricular Mapping and Course-Streams.
American Association of Colleges of Pharmacy Annual Meeting, Virtual (July)
- Instructional Design to Improve Therapeutic Reasoning
American Association of Colleges of Pharmacy Annual Meeting, Virtual (July)
- 2019 Master Adaptive Learning: Re-engineering Core Integrated Pharmacotherapy Curriculum for 21st Century Learning
American Association of Colleges of Pharmacy Annual Meeting (July)
- Workshop on Developing Research Budgets
American College of Clinical Pharmacy MeRIT Program, Lexington, Kentucky (June)
- Workshop on Scientific Research Abstract Development
American College of Clinical Pharmacy MeRIT Program, Lexington, Kentucky (June)
- 2017 Two IV Calcium Channel Blockers for Titratable BP Control
Neurocritical Care Society Annual Meeting (October)
- Reviewing Abstracts with Excellence
American College of Clinical Pharmacy Annual Meeting (October)
- 2016 Reviewing Abstracts with Excellence
American College of Clinical Pharmacy Annual Meeting (October)
- Treating a Critically Ill Patient with Epilepsy
Neurocritical Care Society Annual Meeting (September)
- Management of Acute Hypertension Following Intracerebral Hemorrhage
UNC Eshelman School of Pharmacy/ASHP Grand Rounds (March)
- 2015 Management of NeuroEmergencies: What's Changed in Last 10 Years?
Society of Critical Care Medicine Annual Congress, Phoenix, Arizona (January)
- 2014 Frequently Asked Questions in the Neurocritical Care Unite
American Society of Health System Pharmacists, Anaheim, California (December)
- Answering the Call: The Role of Health System Pharmacists to Improve Use of Target-Specific Oral Anticoagulants
American Society of Health System Pharmacists, Anaheim, California (December)
- Evidence-Based Guidelines for the Management of Large Hemispheric Infarction: A Statement from the Neurocritical Care Society – Pharmacotherapeutic Interventions
Neurocritical Care Society, Seattle, Washington (September)

- Moving Up, Not Burning Out
Neurocritical Care Society Women in Neurocritical Care Annual Luncheon, Seattle, Washington
(September)
- The Underlying Mechanisms of How Your Patient Became Hyponatremic: A Comprehensive
Look at the Pathophysiology
American Pharmaceutical Association Annual Meeting, Orlando, Florida (March)
- New Insight in Hyponatremia: What Steps Do You Take to Manage Your Patient?
American Pharmaceutical Association Annual Meeting, Orlando, Florida (March)
- 2013 Major Bleeding with Warfarin
American Society of Health-System Pharmacists Midyear Clinical Meeting, Orlando, Florida (December)
- Clinical Pharmacologic Management of Hyponatremia
American Pharmaceutical Association Annual Meeting, Los Angeles, California (March)
- 2012 Therapeutic Debate: Phenytoin versus Levetiracetam for Seizure Prophylaxis Following
Traumatic Brain Injury
American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada
(December)
- Hyponatremia in the Hospital Setting: Improving Collaborations in Care
American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada
(December)
- Pharmacists Roles in Research within Neurocritical Care
Neurocritical Care Society Annual Meeting, Denver, Colorado (October)
- Role of Vasopressin Receptor Antagonists in Managing Dilutional Hyponatremia
Neurocritical Care Society Annual Meeting, Denver, Colorado (October)
- Correcting Hyponatremia Safely and Effectively
American College of Clinical Pharmacy Annual Meeting, Hollywood, Florida (October)
- Therapeutic Option for Hyponatremia: Combining Evidence and Experience
American Pharmaceutical Association Annual Meeting, New Orleans, Louisiana (March)
- Sodium Challenges in the Critical Care Patients
Society of Critical Care Medicine Annual Congress Meeting, Houston, Texas (February)
- 2011 Understanding Hyponatremia: Scope, Presentation, and Evaluation
American Society of Health System Pharmacists, New Orleans, Louisiana (December)
- Cost and Resource Allocation Issues in Managing Hyponatremia: The Pharmacists Role
American Pharmaceutical Association Annual Meeting, Seattle, Washington (March)
- Unique Pharmacological Issues in the Neurocritical Care Unit
Society of Critical Care Medicine, San Diego, California (January)
- 2010 Cost and Resource Allocation Associated with Hyponatremia
American College of Clinical Pharmacy Annual Meeting, Austin, Texas (October)

- Clinical Science of Hyponatremia
American Pharmaceutical Association, Washington, DC (March)
- Neuroreceptor Modulation Will Deliver Many Different Flavors: Role in Delirium
Pathophysiology
Society of Critical Care Medicine Annual Congress, Miami, Florida (January)
- 2009 Top 10 Neuropharmacotherapy Clinical Pearls
Neurocritical Care Society Annual Meeting, New Orleans, Louisiana (November)
- Extended Time Window for Thrombolysis in Acute Ischemic Stroke
American College of Clinical Pharmacy Annual Meeting, Anaheim, California (October)
- Evolving Systems of Stroke Care in the United States versus Europe
American College of Clinical Pharmacy/European Congress of Clinical Pharmacy, Orlando, Florida (April)
- Present and Future Medical Interventions for Cerebral Vasospasm
Society of Critical Care Medicine, Nashville, Tennessee (February)
- 2008 Use of Statins Following Subarachnoid Hemorrhage
Society of Critical Care Medicine, Honolulu, Hawaii (February)
- Demystifying Thromboembolism Prophylaxis following Acute Brain and Spinal Injury
Society of Critical Care Medicine, Honolulu, Hawaii (February)
- 2007 Management of Anticoagulant Associated Intracerebral Hemorrhage
American Society of Health-System Pharmacists, Las Vegas, Nevada (December)
- Pathophysiology and Management of Acute Ischemic Stroke
American Society of Health-System Pharmacists, Las Vegas, Nevada (December)
- Neurologic Emergencies: Strategies for Effective Blood Pressure Control (Session Moderator and Speaker)
American Society of Health-System Pharmacists, Las Vegas, Nevada (December)
- Acute Antihypertensive Therapy Following Acute Cerebrovascular Disease: Applications of Treatment Guidelines (Session Moderator and Speaker)
American Society of Health-System Pharmacists, Las Vegas, Nevada (December)
- Improving Stroke Outcomes Across the Continuum of Care: Management of Acute Stroke
American Pharmaceutical Association Annual Meeting, Atlanta, Georgia (March)
- Potential funding sources/What Makes a Research Proposal Worthy of Grant Funding
Clinical Pharmacy & Pharmacology Pre-Symposium Meeting Society of Critical Care Medicine, Orlando, Florida (February)
- 2006 Management of Intracerebral Hemorrhage: Current Medical and Surgical Interventions
American Society of Health System Pharmacists, Anaheim, California (December)
- Off-Label Recombinant Factor VIIa in Emergent Intracerebral Hemorrhage Debate
American Society of Health System Pharmacists, Anaheim, California (December)
- Sedating the Comatose

- Society of Critical Care Medicine, San Francisco, California (January)
- 2005 How to Prepare for a Research Project
American College of Clinical Pharmacy Spring Research Forum, Myrtle Beach, South Carolina (April)
- The Research Proposal: Hints and Suggestions
American College of Clinical Pharmacy Spring Research Forum, Myrtle Beach, South Carolina (April)
- Pharmacokinetic and Pharmacodynamic Considerations for Antihypertensive Therapy in
Patients with Acute Cerebrovascular Disease
Society of Critical Care Medicine, Phoenix, Arizona (January)
- 2004 Recent Insights into the Pathophysiology of Epilepsy: Implications for Future Therapy
American Society of Health System Pharmacists Midyear Clinical Meeting, Orlando, Florida (December)
- 2003 Steroids in Neurotrauma: To Use or Not to Use
American Academy of Neurology Annual Meeting Honolulu, Hawaii (March)
- 2002 Management of Acute Intracerebral Hemorrhage
ASHP Midyear Clinical Meeting Atlanta, Georgia (December)
- Current Status of Neuroprotection for Stroke and Traumatic Brain Injury
American College of Neuropsychiatrists Annual Meeting, Traverse City, Michigan (July)
- 2001 Updates on Acute Stroke Management: Focus on Thrombolysis
ASHP Midyear Clinical Meeting New Orleans, Louisiana (December)
- 2000 Neurologic Complications of Traumatic Brain Injury
American College of Clinical Pharmacy Annual Meeting, Los Angeles, California (November)
- Endogenous Inflammatory Mediators of Critical Illness
ACCP Spring Meeting, Monterey, California (April)
- 1999 Acute Stroke Management (Speaker and Symposium Moderator)
ASHP Midyear Clinical Meeting, Orlando, Florida (December)
- Central Nervous System Microdialysis: Benchtop to Bedside
ACCP Annual Meeting CNS Networking Session, Kansas City, Missouri (October)
- Evolving Concepts and Controversies in Managing Acute Renal Failure in the ICU
ACCP Annual Meeting, Kansas City, Missouri (October)
- Updates in Critical Care Pharmacotherapeutic Issues
ASHP Annual Meeting, Reno, Nevada (June)
- 1998 Prophylaxis Update in Medical and Surgical Intensive Care Units
American College of Clinical Pharmacy, Cincinnati, Ohio (November)
- 1997 Complications of Substance Abuse in Neurotrauma Patients
ASHP Midyear Clinical Meeting, Atlanta, Georgia (December)
- 1996 Sedation Principles of the Neurotrauma Patient (Speaker and Symposium Moderator)
ASHP Midyear Clinical Meeting, New Orleans, Louisiana (December)

Invited Speaking- State/Regional

- 2023 Strengthening Professional Identity Formation by Putting Drugs Back at the Center of the Pharmacy Curriculum
University of Missouri-Kansas City School of Pharmacy Faculty Retreat (May)
- Hypertensive Emergencies: Considerations for Antihypertensive Agent Selection
South Carolina Chapter of American Society of Critical Care Nurses, Charleston, SC (May)
Baltimore Chapter of American Society of Critical Care Nurses, Baltimore, MD (May)
St Louis Chapter of American Society of Critical Care Nurses, St Louis, MO (April)
- 2022 Competency-Based Education: Debunking Misconceptions
Northeastern School of Pharmacy and Pharmaceutical Sciences Faculty Retreat (May)
- Competency-Based Education
Notre Dame of Maryland University School of Pharmacy Faculty Retreat (May)
- Competency-Based Education in Pharmacy and Pharmaceutical Sciences
UNC Eshelman School of Pharmacy CiPHER Seminar Series (May)
- Strengthening Professional Identity Formation by Putting Drugs Back at the Center of the Pharmacy Curriculum
University of Colorado Skaggs School of Pharmacy & Pharmaceutical Sciences (March)
- The Pharmacists Professional Identity
University of Kentucky College of Pharmacy National Pharmacy Day Interactive Discussion, Lexington, Kentucky (January)
- Bring Clinical Experience into the Classroom
Invest in Nursing Faculty Fellowship Program, Chapel Hill, NC (January)
- 2021 Bring Clinical Experience into the Classroom
Invest in Nursing Faculty Fellowship Program, Chapel Hill, NC (January)
- 2020 Bring Clinical Experience into the Classroom
Invest in Nursing Faculty Fellowship Program, Chapel Hill, NC (May)
- 2019 Hypertensive Emergencies: Considerations for Antihypertensive Agent Selection
Manhattan Critical Care Pharmacists Consortium, New York, New York (September)
- 2018 Curriculum in the Context of Transformation: Reframing Traditional Understanding and Practices
Sullivan University College of Pharmacy Visiting Professor (October)
- A Vision for the Future: Realigning the Curriculum to Accelerate Transformation
6th Annual Educational Renaissance Symposium (March)
- 2015 Considerations in Acute Management of Hypertension Following Stroke
Brain Attack Conference, Spartanburg, South Carolina (May)
7th Annual Stroke Symposium Riverside Medical Center, Newport News, Virginia (May)
Stroke Systems of Care Symposium Mobile Infirmity Health, Mobile, Alabama (March)
- 2014 Acute Pain Management
Charlotte AHEC 17th Annual Procrastinators Marathon, Charlotte, North Carolina (December)

Clarifying Concerns and Clinical Conundrums: Ensuring Appropriate Use of Target-Specific Oral Anticoagulants

Atlanta Area Society of Health System Pharmacists, Atlanta, Georgia (October)

Levetiracetam for Acute Seizures

Bay Area Neurocritical Care Society, San Francisco (August)

Hyponatremia: The Latest Thinking about Diagnosis, Evaluation and Treatment

Magnolia Regional Health Center Internal Medicine Grand Rounds, Corinth, Mississippi (September)

Medical Center of Central Georgia, Macon, Georgia (October)

Atlanta Medical Center, Atlanta, Georgia (December)

2013

Hyponatremia: Obstacles and Opportunities for Clinical Pharmacists

Dallas Area College of Clinical Pharmacy, Dallas, Texas (May)

Greater Kansas City Society of Health System Pharmacists, Kansas City, Missouri (August)

Louisiana Pharmacists Association, Baton Rouge, Louisiana (September)

Arkansas Society of Health System Pharmacists, Little Rock, Arkansas (October)

North Suburban Pharmacists of Chicagoland Association, Skokie, Illinois (October)

New York Council of Health-System Pharmacists, Albany, New York (November)

Hyponatremia Treatment Options: Management of High-Risk Patients

Internal Medicine Grand Rounds VA Hospital, Beckley, West Virginia (May)

Internal Medicine Grand Rounds Sister of Charity Hospital, Buffalo, New York (May)

Medicine Grand Rounds Jackson Madison County General Hospital, Jackson, Tennessee (July)

Internal Medicine Grand Rounds Good Samaritan Hospital, Cincinnati, Ohio (August)

The Impact of Hyponatremia: Role of the Pharmacist in Improving Care

Metroplex Society of Health System Pharmacists, Dallas, Texas (January)

2012

The Impact of Hyponatremia: Role of the Pharmacist in Improving Care

New York City Society of Health System Pharmacists, New York, New York (November)

Massachusetts Society of Health System Pharmacists, Boston, Massachusetts (November)

Alabama Society of Health-System Pharmacists Annual Meeting, Birmingham, Alabama (October)

California and Nevada Societies of Health System Pharmacists, Las Vegas, Nevada (October)

Minnesota Society of Health-System Pharmacists Midyear Meeting, Brooklyn Center, Minnesota (September)

Tennessee Society of Health-System Pharmacists, Nashville, Tennessee (June)

2011

Focus on Hyponatremia: Understanding and Treating the Most Common Electrolyte Disorder

Austin Area Society of Health System Pharmacists, Austin, Texas (November)

Georgia Society of Health System Pharmacists, Young Harris, Georgia (October)

Kentucky Society of Health System Pharmacists, Lexington, Kentucky (September)

Antiepileptic Drug Use in the Critical Care Unit

AACN/AANN North Carolina Chapter Meeting, Greensboro, North Carolina (April)

2010

Management of Hyponatremia: Pharmacists Key Role

Tennessee Pharmacists Association Annual Meeting, Memphis, Tennessee (July)

Maryland Pharmacists Association Annual Meeting, Ocean City, Maryland (June)

Management of Acute Hypertensive Crisis

South Carolina Neuroscience Nursing Society, Charleston, South Carolina (July)

Southeastern Georgia Society of Health System Pharmacists Augusta, Georgia (June)

Louisville Chapter of American Society of Critical Care Nurses, Louisville, Kentucky (January)

- Contemporary Management of Transient Ischemic Attack: Role of the Pharmacist
Michigan Pharmacists Association Annual Meeting, Detroit, Michigan (February)
- 2009 Hypertension and Secondary Stroke Prevention
Henry Ford Health System Annual Stroke Conference, Dearborn, Michigan (December)
- Management of Acute Hypertensive Crisis
Chicago Chapter of American Society of Critical Care Nurses, Chicago, Illinois (October)
Louisville Society of Anesthesiologists, Louisville, Kentucky (September)
- 2007 Intraventricular Hemorrhage: Focus on Thrombolysis
Southern Illinois College of Pharmacy Seminar Series, Edwardsville, Illinois (September)
- Medical and Surgical Management of Intracerebral Hemorrhage
Arizona Pharmacy Alliance, Phoenix and Tucson, Arizona (April)
- Blood Pressure Control in the Neuro Patient
New England Critical Care Pharmacy Symposium, Boston, Massachusetts (April)
- Off-Label Recombinant Factor VIIa in Emergent Intracerebral Hemorrhage Debate
New England Critical Care Pharmacy Symposium, Boston, Massachusetts (April)
- Acute Antihypertensive Therapy for Patients with Acute Cerebrovascular Disease
Atlanta Area Society of Health-System Pharmacists, Atlanta, Georgia (May)
Dayton Area Society of Health System Pharmacists, Dayton, Ohio (April)
- Neurology Grand Rounds Borgess Medical Center, Kalamazoo, Michigan (February)
Southwest Texas Society of Health System Pharmacists, El Paso, Texas (January)
- 2006 Acute Antihypertensive Therapy for Patients with Acute Cerebrovascular Disease
Critical Care Grand Rounds St Joseph Health System, Pontiac, Michigan (November)
Critical Care Nursing Symposium Mount Carmel West Health System, Columbus, Ohio (April)
Neurosurgery Grand Rounds University of Nebraska Medical Center, Omaha, Nebraska (April)
Heart to Mind Critical Care Nursing Symposium, Columbus, Ohio (March)
- 2005 Acute Antihypertensive Therapy for Patients with Acute Cerebrovascular Disease
Northern Ohio Society of Health System Pharmacists, Toledo, Ohio (December)
Neurology Grand Rounds Spectrum Healthcare, Grand Rapids, Michigan (June)
Neurology Grand Rounds Borgess Medical Center, Kalamazoo, Michigan (April)
Infectious Disease and Critical Care Symposium, Dearborn, Michigan (January)
- 2004 Vasoactive Therapy in Critically Ill Patients
Mid-Ohio Society of Health-System Pharmacists, Columbus, Ohio (September)
Southern Louisiana Society of Health-System Pharmacists, New Orleans, Louisiana (May)
- Neuroprotective Properties of Antiepileptic Agents
Symposium on Seizures Following Traumatic Brain Injury, Detroit, Michigan (January)
- Incorporating Clinical Evidence into Institutional Algorithms for Acid Suppression Therapy in
the Intensive Care Unit
ASPIRE Conference San Diego, California (January)
- 2003 Incorporating Clinical Evidence into Institutional Algorithms for Acid Suppression Therapy in
the Intensive Care Unit

- ASPIRE Conference Chicago, Illinois (April)
ASPIRE Conference Houston, Texas (March)
ASPIRE Conference Boston, San Francisco, California (February)
ASPIRE Conference Philadelphia, Pennsylvania (February)
- 2002 Incorporating Clinical Evidence into Institutional Algorithms for Acid Suppression Therapy in the Intensive Care Unit
ASPIRE Conference Boston, Massachusetts (November)
- Pharmacology of Secondary Stroke Prevention
Michigan Stroke Initiative Annual Conference, Lansing, Michigan (May)
- 2001 Prevention of Cerebral Vascular Disease
West Virginia Society of Health-System Pharmacists Annual Meeting, Charleston, West Virginia (April)
- Prevention of Cerebral Vascular Disease
Detroit Medical Center Annual Symposium, Dearborn, Michigan (February)
- 2000 Clinical Pharmacology and Drug Interactions of Newer Antiepileptic Agents
Updates and Dilemmas in Central Nervous System Diseases, Livonia, Michigan (September)
- Updates in New Antiepileptic Drug Therapy
Michigan Neuroscience Nursing Association Annual Meeting, Traverse City, Michigan (June)
- 1999 The Role of Anticoagulation in Acute Ischemic Stroke
Contemporary Approaches to Anticoagulation Disorders, Dearborn, Michigan (March)
- Pharmacology Year in Review- Neurosurgery/Neurology
Society of Critical Care Medicine, San Francisco, California (January)
- 1998 Update in the Treatment of Ischemic Stroke
Wake Area Health Educational Council Annual Pharmacy Conference, Raleigh, North Carolina (November)
- New Treatment Options for Seizure Disorders
The Great Lakes Regional Conference for Psychiatric and Neurologic Pharmacy, Detroit, Michigan (September)
- Management of Traumatic Brain Injury
Southeastern Michigan Society of Health-System Pharmacists, Southfield, Michigan (March 1998)
- Innovative Practice Roles for Pharmacists: Moving into the 21st Century
Symposium Moderator, Detroit, Michigan (February 1998)

Peer Reviewed Poster/Platform Presentations

- 2023 MyDispense Inpatient Electronic Medical Record Platform, an International Collaboration.
American College of Clinical Pharmacy Virtual Poster (May)
- Acute Kidney Injury and Augmented Renal Clearance Risk Factor Assessment in Patients With COVID-19. (Bronze Snapshot Award)
Society of Critical Care Medicine Annual Meeting (January)
American College of Clinical Pharmacy Encore Presentation (November)

- 2022 Assessing the Use of Microlearning for Preceptor Development
American Society of Health System Pharmacists Midyear Meeting, Las Vegas, Nevada (December)
- Scoping Review of Rational Polytherapy in Patients with Drug Resistant Epilepsy (Best Overall Poster Internal Medicine PRN)
American College of Clinical Pharmacy Global Meeting, San Francisco, California (October)
Best Original Research Abstract Internal Medicine PRN
- Analysis of Renal Function in Patients Hospitalized with COVID19 (Best Overall Fellow/Resident Abstract)
American College of Clinical Pharmacy Global Meeting, San Francisco, California (October)
Best Overall Research Abstract, Postgraduate Trainee
- A Rapid Review of Augment Renal Clearance in Patients with COVID-19
Society of Critical Care Medicine Annual Virtual Meeting (April)
- 2021 Comparing quality of peer versus teaching assistant feedback
American College of Clinical Pharmacy Annual Virtual Meeting, (October)
- Use of a clinical reasoning scaffolding tool improves future student clinical reasoning performance
American College of Clinical Pharmacy Annual Virtual Meeting (October)
- Adaptive Learning for Evolving Education Needs
The Association of Medical Education in Europe (AMEE) Short Communication (August)
- Scoping Review of Feedback in Pharmacy Education
The Association of Medical Education in Europe (AMEE) ePoster (August)
- Identification of intellectual standards to evaluate clinical reasoning skills
American Association of Colleges of Pharmacy Virtual Annual Meeting (July)
- What is known about PCOA? A scoping review of the pharmacy curriculum outcomes literature
American Association of Colleges of Pharmacy Virtual Annual Meeting (July)
- Scoping review of augmented renal clearance in critically ill pediatric patients
Society of Critical Care Medicine Virtual Congress (February)
- Scoping review of augmented renal clearance in oncology patients
Society of Critical Care Medicine Virtual Congress (February)
- 2020 Incorporation of master adaptive learner into didactic courses places students at threshold for clinical experience entrustable professional activities
Association of Medical Education in Europe Virtual Conference (September)
- 2019 A Longitudinal Study of Gender Parity Trends in The Neurocritical Care Society
Neurocritical Care Society Annual Meeting, Vancouver, BC (October)
- Baseline knowledge assessments are an effective tool for retrieval practice in student pharmacists.
Association for Medical Education in Europe Annual Meeting, Vienna, Austria (August)
Encore Poster Presentation, American College of Clinical Pharmacy Annual Meeting, New York, New York (October)

Master Adaptive Learning: Re-engineering Core Integrated Pharmacotherapy Curriculum for 21st Century Learning
Platform and Poster presentation, American Association of Colleges of Pharmacy Annual Meeting, Chicago, Illinois (July)
Encore Poster Presentation, American College of Clinical Pharmacy Annual Meeting, New York, New York (October)

Utilization of the master adaptive learner (MAL) framework for development of an integrated pharmacotherapy course series.
Poster presentation, Pharmacy Education Conference, Prato, Italy (July)

Integration of the pharmacists' patient care process (PPCP) in an integrated pharmacotherapy course series.
Poster presentation, Pharmacy Education Conference, Prato, Italy (July)

Use of the entrustable professional activities framework for classroom-based assessment of clinical reasoning for clinical decision making.
Poster presentation, Pharmacy Education Conference, Prato, Italy (July)

2018 Impact of renal function on achieving therapeutic exenatide concentrations in acute brain injury.
Poster presentation, American College of Clinical Pharmacy (October)

Levetiracetam pharmacokinetics and dose optimization for seizure prophylaxis in moderate-to-severe traumatic brain injury.
Poster presentation, Neurocritical Care Society Annual Meeting, Boca Raton, Florida (September)

Assessment of KCentra[®] dosing practices within neurocritical care.
Poster presentation, Neurocritical Care Society Annual Meeting, Boca Raton, Florida (September)

2017 Cystatin C concentrations following acute traumatic brain injury
Poster presentation, Neurocritical Care Society Annual Meeting, Kona, Hawaii (October)

Feasibility of intravenous exenatide infusion in critically ill patients with acute brain injury
Poster presentation, Neurocritical Care Society Annual Meeting, Kona, Hawaii (October)

Energy expenditure in critically ill adult patients with acute brain injury: indirect calorimetry versus predictive equations
Poster presentation, Neurocritical Care Society Annual Meeting, Kona, Hawaii (October)

2016 Assessment of Kcentra[®] dosing practices in neurocritical care.
Poster presentation, Neurocritical Care Society Annual Meeting, Washington, DC (September)

Enhanced renal clearance in patients with intracerebral hemorrhage.
Poster presentation, Neurocritical Care Society Annual Meeting, Washington, DC (September)

Enhanced renal clearance in patients with subarachnoid hemorrhage.
Poster presentation, Neurocritical Care Society Annual Meeting, Washington, DC (September)

Implementation of a daily Goals tool improves team communication surrounding quality & safety practices in a neurosciences ICU.
Poster presentation, Neurocritical Care Society Annual Meeting, Washington, DC (September)

Early clinical immersion as inpatient psychiatry medication education group leaders.

- Poster presentation, American Association of Colleges of Pharmacy, Anaheim, California (July)
- 2015 Vancomycin pharmacokinetic parameters in patients with spontaneous intracerebral hemorrhage.
Poster presentation, Neurocritical Care Society, Scottsdale, Arizona (October)
- Vancomycin pharmacokinetic parameters in patients with aneurysmal subarachnoid hemorrhage.
Poster presentation, Neurocritical Care Society, Scottsdale, Arizona (October)
- 2014 Chronic use of lacosamide does not alter its distribution between serum and cerebrospinal fluid.
Poster presentation, American Epilepsy Society Meeting, Seattle, Washington (December)
- Vancomycin pharmacokinetic parameters in patients with acute brain injury undergoing controlled normothermia.
Encore poster presentation, American College of Clinical Pharmacy Annual Meeting, Austin, Texas. (October)
- Vancomycin pharmacokinetic parameters in patients with acute brain injury undergoing controlled normothermia.
Poster presentation, Neurocritical Care Society Annual Meeting, Seattle, Washington. (September)
- Vancomycin pharmacokinetic parameters in patients with acute brain injury undergoing pentobarbital infusion or therapeutic hypothermia.
Poster presentation, Neurocritical Care Society Annual Meeting, Seattle, Washington (September)
- Glycemic control in controlled normothermia for acute brain injury.
Poster presentation, Neurocritical Care Society Annual Meeting, Seattle, Washington (September)
- Glycemic control in prolonged therapeutic hypothermia for acute brain injury.
Poster presentation, Neurocritical Care Society Annual Meeting, Seattle, Washington (September)
- Stroke prevention in atrial fibrillation: utilization patterns following novel oral anticoagulant availability
Poster presentation, American Pharmaceutical Association Annual Meeting, Orlando, FL (March)
- 2013 Correlation of Plasma and CSF Levels of Lacosamide
Poster presentation, American Epilepsy Society Annual Meeting, Washington, DC (December)
- 2012 Venous Thromboembolism Prophylaxis in Traumatic Brain Injury Patients: How Aggressive Should We Be?
Poster presentation, Society of Critical Care Medicine Annual Congress, Houston, Texas (February)
- 2011 Impact of Early Blood Pressure Reduction in Hypertensive Patients with Non-Traumatic Intracranial Hemorrhage
Poster presentation, Neurocritical Care Society Annual Meeting, Montreal, Quebec (September)
- A Multi-Center Evaluation of the Impact of Drug Shortages in Neurocritical Care (NCCU): Management Strategies and Resource Utilization
Poster presentation, Neurocritical Care Society Annual Meeting, Montreal, Quebec (September)
- A National Survey of Drug Shortages in Neurocritical Care Units (NCCU): Description of Shortage with Commonly Used Agents

Poster presentation, Neurocritical Care Society Annual Meeting, Montreal, Quebec (September)

Pharmacotherapeutic problem solving at Wayne State University: an integrated approach. Poster Presentation, AACP Annual Meeting San Antonio, Texas (July)

2010

An Observational Study of Bleeding Events Associated with Pharmacologic Venous Thromboembolism Prophylaxis Following Spontaneous Intracerebral Hemorrhage
Poster presentation, Neurocritical Care Society Annual Meeting, San Francisco, California (September)

Anticonvulsant Use in the Initial Management of Status Epilepticus
Poster presentation, Neurocritical Care Society Annual Meeting, San Francisco, California (September)

Anticonvulsant Use in the Management of Refractory Status Epilepticus
Poster presentation, Neurocritical Care Society Annual Meeting, San Francisco, California (September)

Characteristics and Outcomes of Patients with Status Epilepticus
Poster presentation, Neurocritical Care Society Annual Meeting, San Francisco, California (September)

Pharmacist Involvement in the Management of Status Epilepticus
Poster presentation, Neurocritical Care Society Annual Meeting, San Francisco, California (September)

A Prospective Evaluation of Labetalol vs. Nicardipine for Blood Pressure Management in Patients with Acute Stroke
Poster presentation, Society of Critical Care Medicine, Miami, Florida (January)
Encore poster presentation, American College of Clinical Pharmacy, Austin, Texas (October)

Epidemiology of Hyponatremia During Acute Spontaneous Intracerebral Hemorrhage
Poster presentation, Society of Critical Care Medicine, Miami, Florida (January)

2009

Incidence of MCI and AD in Cervical Spondylosis
Poster presentation, Sixth International Congress on Vascular Dementia, Barcelona, Spain (November)

Impact of Glucose Variability on In-Hospital Mortality Following Acute Spontaneous Intracerebral Hemorrhage (sICH)
Platform presentation, Neurocritical Care Society, New Orleans, Louisiana (October)

Mortality after Intracerebral Hemorrhage is Associated with Renal Dysfunction
Poster presentation, International Stroke Conference, San Diego, California (February)
Encore poster presentation, American College of Clinical Pharmacy, Anaheim, California (October)

Glucose Control and Clinical Outcome in Patients with Intracerebral Hemorrhage
Poster presentation, Society of Critical Care Medicine, Nashville, Tennessee (February)

2008

Renal Dysfunction is Associated with Increased Mortality after Intracerebral Hemorrhage
Poster presentation, Neurocritical Care Society, Miami, Florida (October)

Computer-Simulated Pharmacokinetic Feasibility and Timing for Transition from Intravenous to Oral Nicardipine
Poster Presentation, American College of Clinical Pharmacy, Phoenix, Arizona (April)

CLEAR IVH: A Comparison of CSF Disposition of Two Different Dosing Regimens of Intraventricular rt-PA
Poster Presentation, American Academy of Neurology, Chicago, Illinois (April)

- Hypernatremic Hyperosmolar State (HHS) in Acute Brain Injury: Effect on Intracranial Pressure
Poster Presentation, Society of Critical Care Medicine, Honolulu, Hawaii (February)
Encore poster presentation, American College of Clinical Pharmacy, Louisville, Kentucky (October)
Encore poster presentation, Neurocritical Care Society, Miami, Florida (October)
- Glucose Control and Clinical Outcome in Traumatic Brain Injury
Poster Presentation, Society of Critical Care Medicine, Honolulu, Hawaii (February)
Encore poster presentation, Neurocritical Care Society, Miami, Florida (October)
- The Role of Levetiracetam in the Neuro-Critical Care Population
Poster Presentation, Society of Critical Care Medicine, Honolulu, Hawaii (February)
- 2007 Tolerability of Levetiracetam Among Black Patients Admitted to an Urban Medical Center
Poster Presentation, American Epilepsy Society, Philadelphia, Pennsylvania (December)
- An Observational Study of Bleeding Events Associated with Low-Dose Unfractionated Heparin in A Neurologic Intensive Care Unit
Platform Presentation, Society of Critical Care Medicine Annual Congress Orlando, Florida (February)
Encore poster presentation, American College of Clinical Pharmacy, Denver, Colorado (October)
- 2006 CLEAR IVH Dose Finding Study Results: Improved Safety Profile for rt-PA
Platform presentation, International Stroke Conference Orlando, Florida (February)
- Nicardipine (N) vs. labetalol (L) for acute blood pressure control after stroke
Poster presentation, Society of Critical Care Medicine San Francisco, California (January)
Encore poster presentation, American College of Clinical Pharmacy, St. Louis, Missouri (October)
Encore poster presentation, Neurocritical Care Society, Baltimore, Maryland (October)
- 2005 Evaluation of the cerebral hemodynamic effects of remifentanyl in patients at risk for increased intracranial pressure
Poster presentation, American College of Clinical Pharmacy, San Francisco, California (October)
- Pharmacodynamic profiling of cefepime in the cerebrospinal fluid of hospitalized patients through the use of population pharmacokinetic modeling and Monte Carlo simulation
Poster presentation, European Congress of Clinical Microbiology and Infectious Diseases, Copenhagen, Denmark (April)
- National survey on the use of steroids in adults with bacterial meningitis
Poster presentation, American College of Clinical Pharmacy, Myrtle Beach, South Carolina (April)
- Hypertonic saline versus normal saline in patients at risk for increased intracranial pressure
Poster presentation, Neurocritical Care Society, Phoenix, Arizona (February)
- Prescribing practices related to discontinuation of stress ulcer prophylaxis in patients with risk factors for clinically significant gastrointestinal bleeding
Poster presentation, Society of Critical Care Medicine Congress, Phoenix, Arizona (January)
- 2004 Prescribing patterns for antihypertensive agents in intracerebral hemorrhage
Poster presentation, Society of Critical Care Medicine Congress, Orlando, FL, (February)
- National survey of high-dose steroid prescribing practices following spinal cord injury
Poster presentation, Society of Critical Care Medicine Congress, Orlando, FL (February)
Encore Poster Presentation, American College of Clinical Pharmacy, Dallas, Texas (October)

- 2003
- Initial experience using hypertonic saline infusion for cerebral edema
Poster presentation, Society of Neurosurgical Anesthesiology and Critical Care, San Francisco, CA (October)
- Readability of stroke information for patients: an educational dilemma.
Poster Presentation, American College of Clinical Pharmacy, Palm Springs, California (April)
- Introducing Hypertonic Saline for Cerebral Edema: An Academic Center Experience
Poster Presentation, Society of Critical Care Medicine, San Antonio, Texas (January)
Encore Poster Presentation, American College of Clinical Pharmacy, Palm Springs, California (April)
- Feasibility of Oral versus Rectal Loading of Carbamazepine in Critically Ill Patients
Platform Presentation, Society of Critical Care Medicine, San Antonio, Texas (January)
- Acute Blood Pressure Management in Ischemic and Hemorrhagic Stroke
Platform Presentation, Society of Critical Care Medicine, San Antonio, Texas (January)
- Evaluation of Propofol, Remifentanyl, & Propofol + Remifentanyl as Sedatives for ICP Control
Poster Presentation, Society of Critical Care Medicine, San Antonio, Texas (January)
- 2002
- Rapid Topiramate Dose Escalation in Critically Ill Patients
Platform Presentation, American Epilepsy Society, Seattle, Washington (December)
- Rapid Dose Escalation of Lamotrigine in Patients with Refractory Seizures.
Poster Presentation, American Epilepsy Society, Seattle, Washington (December)
- Evaluation of the Utilization of a Game-Based Teaching Strategies in a Pharmacotherapeutics Course
Poster Presentation, American College of Clinical Pharmacy, Albuquerque, New Mexico (October)
- Disposition of Cefepime in the Central Nervous System in Patients with External Ventricular Drains
Poster Presentation, American Academy of Neurology, Denver, Colorado, (April)
Encore Poster Presentation, American College of Clinical Pharmacy, Albuquerque, New Mexico (October)
- 2001
- National Survey of Antiepileptic Prescribing Practices Following Subarachnoid Hemorrhage
Platform Presentation, American Association of Neurological Surgeons, New Orleans, Louisiana (April)
Encore Poster Presentation, American College of Clinical Pharmacy, Tampa, Florida (October)
- Bleeding Complications Associated with Early Low-Dose Unfractionated Heparin: Comparison of Neurosurgery and Medical Intensive Care Unit Patients
Poster Presentation, Society of Critical Care Medicine, San Francisco, California (February)
- Tolerability of Bolus versus Continuous Gastric Feeding in Brain Injured Patients
Poster Presentation, Society of Critical Care Medicine, San Francisco, California (February)
Encore Poster Presentation, American College of Clinical Pharmacy, Salt Lake City, Utah (April)
- 2000
- Implementation of a Pharmacists Managed Heparin Dosing and Monitoring Service in Ischemic Stroke Patients.
Poster Presentation, ASHP Midyear Clinical Meeting, Las Vegas, Nevada (December)

Results of Implementing a Multidisciplinary Protocol Favoring Continuous Infusion Gastric Feeding in a Neurology/Neurosurgery Intensive Care Unit (NICU)
Poster Presentation, American Academy of Neurology, San Diego, California (April)

Prescribing Practices of Antihypertensive Agents in Patients with Ischemic Stroke: Impact on Patient Outcome
Poster Presentation, American Academy of Neurology, San Diego, California (April)

Status Epilepticus: Cost-Burden at an Urban Medical Center
Poster Presentation, Society of Critical Care Medicine, Orlando, Florida (February)

Physician Specialty and Cost Variation in the Treatment of Status Epilepticus at an Urban Medical Center
Poster Presentation, Society of Critical Care Medicine, Orlando, Florida (February)
Encore Poster Presentation, ACCP Annual Meeting, Los Angeles, California (November)

Enterobacter Infections in Intensive Care Unit Patients at an Urban Trauma Center
Poster Presentation, Society of Critical Care Medicine, Orlando, Florida (February)

1999 Cost-Minimization Analysis of Phenytoin and Fosphenytoin in the Emergency Department
Poster Presentation, ACCP Annual Meeting, Kansas City, Missouri (October)

Readability of Printed Sources of Information for Epileptic Patients: Implications for Patient Education
Poster Presentation, ACCP Annual Meeting, Kansas City, Missouri (October)

Evaluation of the Cardiovascular Effects of Nimodipine in Patients with Aneurysmal Subarachnoid Hemorrhage
Poster Presentation, American Academy of Neurology, Toronto, Ontario Canada (April)
Encore Poster Presentation, ACCP Annual Meeting, Kansas City, Missouri (October)

Enterobacter Meningitis: Organism Susceptibility, Antimicrobial Therapy, and Associated Outcomes
Poster Presentation, American Academy of Neurology, Toronto, Ontario Canada (April)

Relation of Computed Tomographic Findings to Seizure Occurrence after Aneurysmal Subarachnoid Hemorrhage: Implications for Prophylactic Anticonvulsant Prescription
Platform Presentation, American Academy of Neurology, Toronto, Ontario Canada (April)

Evaluation of Prescribing Variability for Status Epilepticus.
Poster Presentation, Society of Critical Care Medicine, San Francisco, California (January)

1998 Analysis of Urokinase Fibrinolytic Activity After Freezing and Thawing: Implications for Thrombolysis of Intraventricular Hemorrhage
Poster Presentation, ASHP Midyear Clinical Meeting, Las Vegas, Nevada (December)

Safety Evaluation of Remifentanyl in Traumatic Brain Injury
Poster Presentation, Society of Neurosurgical Anesthesia and Critical Care, Orlando, Florida (October)

Seizure Prophylaxis After Aneurysmal Subarachnoid Hemorrhage: Implications for Length of Therapy
Poster Presentation, Congress of Neurological Surgeons, Seattle, Washington (October)

Use of Remifentanyl for Autonomic Instability in the Neurosurgical Intensive Care Unit
Oral Poster, Congress of Neurological Surgeons, Seattle, Washington (October)

Spinal Epidural Abscesses in a Large Urban Hospital: Clinical Implications of Current
Antibiotic

Prescribing Variation

Poster Presentation, Congress of Neurological Surgeons, Seattle, Washington (October)

Encore Poster Presentation, American College of Clinical Pharmacy, Cincinnati, Ohio (November)

A Prospective Randomized Evaluation of Adverse Events and Length of Stay Associated with
Parenteral Phenytoin or Fosphenytoin Use in the Emergency Department

Poster Presentation, American Academy of Neurology, Minneapolis (April)

Encore Poster Presentation, American College of Clinical Pharmacy, Cincinnati, Ohio (November)

A National Survey of the Use of Sedating and Neuromuscular Blocking Agents in the Intensive
Care Unit

Platform Presentation, Society of Critical Care Medicine, San Antonio, Texas (February)

Encore Poster Presentation, ACCP Spring Research Forum, Palm Springs, California (April)

A National Survey of the Use of Sedating and Neuromuscular Blocking Agents in the Pediatric
Intensive Care Unit

Poster Presentation, Society of Critical Care Medicine, San Antonio, Texas (February)

Evaluation of the Appropriateness of Intravenous Phenytoin in the Emergency Department

Poster Presentation, Society of Critical Care Medicine, San Antonio, Texas (February)

1997 Susceptibility Patterns of Organisms Isolated from Spinal Epidural Abscesses in an Urban
Trauma Center

Poster Presentation, ASHP Midyear Clinical Meeting, Atlanta, Georgia (December)

National Survey of Written Protocol Utilization and Selection Criteria for Sedative and
Neuromuscular Blockers in the Pediatric Intensive Care Unit.

Poster Presentation, ASHP Midyear Clinical Meeting, Atlanta, Georgia (December)

Use of Continuous Infusion Remifentanyl for Sedation in the Neurosurgical Intensive Care Unit

Poster Presentation, ASHP Midyear Clinical Meeting, Atlanta, Georgia (December)

Intracranial Pressure Monitor-Related Infections in Adult Neurosurgical Patients: An Analysis
of Risk Factors and Antibiotic Prophylaxis

Poster Presentation, American College of Clinical Pharmacy Annual Meeting, Phoenix, Arizona
(November)

Written Protocol Utilization and Selection Criteria for Sedative and Neuromuscular Blocking
Agents in Adult Intensive Care Units Across the United States

Poster Presentation, American College of Clinical Pharmacy Annual Meeting, Phoenix, Arizona
(November)

1996 Rate of Infection and Susceptibility Patterns Over a Three-Year Period in Neurosurgery
Patients with ICP Monitor Related CNS Infections

Poster Presentation, ASHP Midyear Clinical Meeting, New Orleans, Louisiana (December)

Remifentanyl versus Remifentanyl with Midazolam During Monitored Anesthesia Care (MAC):
Anesthesiologist's Assessment and Patient Satisfaction

Poster presentation, International Anesthesia Society, Washington, DC (March)

- 1995 Characteristics of Pharmacy Fellowship Programs in the United States
Poster Presentation, ASHP Midyear Clinical Meeting, Las Vegas, Nevada (December)
Encore Poster Presentation, ACCP Annual Meeting, Nashville, Tennessee (August 1996)
- 1994 Evaluation of Gastric pH Control in Head Trauma Patients by Continuous Infusion of
Cimetidine
Poster Presentation, Congress of Neurological Surgeons, Chicago, Illinois (October)
- Effects of Ofloxacin on the Pharmacokinetics and Pharmacodynamics of Procainamide
Poster Presentation, American College of Clinical Pharmacy Annual Meeting, St Louis, Missouri (August)
- 1993 A Modified Michaelis-Menten Equation for the Prediction of Free Phenytoin Serum
Concentrations
Poster Presentation, American College of Clinical Pharmacy Annual Meeting, Reno, Nevada (August)
- Stepwise Approach to Stress Ulcer Prophylaxis Within a Neurosurgical Intensive Care Unit.
Poster presentation, American Association of Neurological Surgeons, Boston, Massachusetts (April)
- 1992 A Modified Ludden Equation for the Prediction of Free Phenytoin Serum Concentrations
Poster presentation, ASHP Midyear Clinical Meeting, Orlando, Florida (December)

RESEARCH

Grants Submitted – Pending

Exploring mechanisms of status epilepticus related to pyridoxine
Cure Epilepsy Research Award (Co-Investigator)

Exploring homocysteine and pyridoxine as biomarker in status epilepticus
Sergievsky Award for Epilepsy Health Equity and Diversity, American Epilepsy Society (Co-Investigator)

Exploring homocysteine and pyridoxine as biomarker in status epilepticus
American Academy of Neurology Young Investigator Mentorship Award (Primary Mentor)

UNC School of Medicine Simmons Scholar Program, Primary Mentor for Clio Rubinos, MD, MSCR

Grants Funded - Ongoing

Association of Opioid Utilization in the Medical Intensive Care Unit and New Opioid Prescriptions at Hospital
Discharge
\$22,000- 2021 American College of Clinical Pharmacy Futures Grant (Primary Mentor)

Item development and validation for an assessment predicting non-academic elements of
readiness to engage in clinical reasoning
\$750.00- 2021 Education and Training PRN Grant (Co-Principal Investigator)

Funded - Completed

Characterization of renal function among patients with COVID19
\$1500.00 – 2021 American College of Clinical Pharmacy Critical Care PRN Grant (Co-Principal Investigator)

Feedback for Clinical Reasoning: Closing the Gaps to Improve Efficiency and Quality

\$4000.00 - 2020 AACP Scholarship of Teaching and Learning Grant (Principal Investigator)

Development of My Dispense: Health System Simulation (internally funded)
UNC Eshleman School of Pharmacy: Principal Investigator

Intravenous Exenatide Infusion in Critically Ill Neurologic Injured Patients: A Proof-of-Concept Study
Funded \$114,729 (2015-2017) Amylin Pharmaceuticals (Co-Principal Investigator)
Funded Continuous Blood Glucose Monitors and Supplies – Medtronic Inc.

Optimizing Drug Doses to Improve Outcomes of Critically Ill Patients
Funded \$75,000 (2015-2017) MCTSA005, CTSA Consortium Multi-Institutional Collaborative Translational Research Pilot Grant (Principal-Investigator)

Augmented renal clearance in hemorrhagic stroke patients admitted to the neurosciences intensive care unit
Funded \$11,070 (2015-2016) University of North Carolina School of Medicine Department of Neurology Pilot Grant Fund (Co-Principal Investigator)

Implementation of Daily Goals to Improve Communication and Care within the Intensive Care Unit
Funded \$50,000 (2015-2016) IHIQ Grant UNC Hospitals (Co-Investigator)

Assessment of Kcentra® Dosing Practices within Neurocritical Care
Funded \$16,528 (2016-2017) CSL Behring (Principal-Investigator)

Geriatrics Workforce Enhancement Program
Funded \$850,000 (2016-2019) Health Resources and Services Administration (Co-Investigator) 3% Effort

Clinical and Patient-Reported Outcomes Following Frequent Pharmacist-Enforced Sedation Assessments in Critically Ill Adults
Funded \$25,000 (2014-2015) ASHP Foundation PPMI Demonstration Grant (Co-Investigator)

Pharmacokinetics and Clinical Response of Tolvaptan in Neurocritical Care Patients
Funded \$163,278 (2015-2017) Otsuka Pharmaceuticals (Principal Investigator)

Correlation of Plasma and Cerebrospinal fluid (CSF) Levels of Lacosamide
Funded \$51,000 (2012-2015) UCB Pharmaceuticals (Co-Investigator)

Redesign of CNS Therapeutics Module
Funded \$5,000 UNC Center for Faculty Excellence (Co-Investigator)

An Observational Prospective Registry to Identify Demographic and Clinical Characteristics of Patients Hospitalized with Euvolemic and Hypervolemic Hyponatremia and Assess the Comparative Effectiveness of Available Treatments and The Impact on Resource Utilization
Funded \$13,250 (2010-2011) Otsuka Pharmaceuticals (Co-Investigator)

Nicardipine versus labetalol for management of blood pressure following acute stroke
Funded \$180,961 (2008-2011) PDL BioPharma (Principal investigator)

Intracerebral Hemorrhage Thrombolysis Pharmacokinetics Study
Funded \$242,586 (2009-2012) - National Institutes of Health (NINDS) (Principal Investigator on sub-study)

The Pharmacokinetics and Pharmacodynamics of Intraventricularly Administered rt-PA following Intraventricular Hemorrhage
Funded \$116,261 (2004-2009) – Food and Drug Administration Orphan Drug Program (Principal Investigator on sub-study)

Hypernatremic Hyperosmolar State in Acute Brain Injury: Intracranial Pressure Lowering Therapy (Hy-SALT)
Funded \$30,000 (2006-2008)– Society of Critical Care Medicine Joseph F. Dasta Critical Care Outcomes Award (Principal investigator)

Evaluation of Intravenous Levetiracetam for Seizure Prophylaxis in Critically Ill Patients
Funded \$10,000 (2007-2009) USB Pharmaceuticals (Principal investigator)

Tolerability of Levetiracetam in African American Patients
Funded \$10,000 (2007-2009) USB Pharmaceuticals (Principal investigator)

Nicardipine versus Labetalol for Acute hypertension in Hemorrhagic Stroke (ICH) patients
Funded \$30,000 (2005-2007)– 2005 SCCM Ortho Biotech Critical Care Outcomes Fellowship (Principal investigator)

Clinical Visiting Professorship (Mentor Denise H. Rhoney; Mentee John Lewin Johns Hopkins University)
Funded \$3000.00 (2005) Society of Critical Care Medicine

Central Nervous System Microdialysis
Preceptor: Mark S. Luer, Pharm.D. (University of Arkansas for Medical Sciences)
Funded \$2500.00 (1999)- ACCP CNS Mini-Sabbatical Program

Outcomes and Cost of Propofol and/or Remifentanyl for ICP Control
Funded \$5,000 (2000-2001) – Detroit Medical Center Department of Pharmacy Research Award (Principal investigator)
Not Funded \$10,000 – ACCP Outcomes Research Award
Not Funded \$30,000 – Society of Critical Medicine Outcomes Award
Funded \$30,000 (2000-2002) – SCCM Ortho Biotech Critical Care Outcomes Fellowship (Principal investigator)

Evaluation of the Cerebral Hemodynamic Effects of Remifentanyl in Patients at Risk for Increase Intracranial Pressure
Detroit Receiving Hospital: Principal Investigator
Funded \$5000.00 (1997-1998)- Wayne State University College of Pharmacy Faculty Research Award
Funded \$10,000.00 (1998-2000) – American College of Clinical Pharmacy Bristol Myers Squibb CNS Research Award 1998

National Survey of Antiepileptic Prescribing Practices Following Subarachnoid Hemorrhage
Detroit Receiving Hospital – Co-Investigator
Funded \$10,000.00 (1998-1999) – Wayne State University Research Award

Cost-minimization Analysis of Phenytoin and Fosphenytoin in the Emergency Department.
Detroit Receiving Hospital: Co-Principal Investigator
Funded \$5000.00 – Detroit Medical Center Department of Pharmacy Research Award

A Cost-Effectiveness Analysis of Lansoprazole, Cimetidine, and Sucralfate for Prophylaxis Against Gastrointestinal Hemorrhage in Seriously Ill Neurosurgical Patients
Detroit Receiving Hospital: Co-Principal Investigator
Funded \$5000.00 (1996-1997) – Detroit Medical Center Department of Pharmacy Research Award

Implementation of a Pharmacist-Managed Heparin Dosing and Monitoring Service in Ischemic Stroke Patients
Detroit Receiving Hospital: Principal Investigator
Funded \$6000.00 (1997-1999) – ASHP Foundation New Pharmacy Practice Research Award

Clinical and Economic Analysis of Fosphenytoin versus Phenytoin in the Emergency Department
Detroit Receiving Hospital; CO- Principal Investigator
Study Drug Funded – Parke Davis

A National Survey of the Use of Sedating Drugs and Neuromuscular Blocking Agents in the Neurosurgery Intensive Care Unit

Detroit Receiving Hospital; Principal Investigator
Funded \$22,000.00 (1996-1998) - Glaxo-Wellcome, Inc.

Analysis of Urokinase Activity Following Freezing
Detroit Receiving Hospital; Principal Investigator
Funded \$5000.00 (1997-1998) – Detroit Receiving Hospital Department of Pharmacy Research Award

Not Funded – Ongoing

Persistence rates of clobazam and perampanel for drug-resistant epilepsy
UNC Eshleman School of Pharmacy: Principal Investigator

Critical Thinking, Clinical Reasoning, Clinical Decision Making and Process of Care: Development of a Validated Integrated Model for Health Science Education
UNC Eshleman School of Pharmacy: Principal Investigator

Defining the Knowledge Identity of Pharmacy Education and Practice
UNC Eshleman School of Pharmacy: Principal Investigator

Evolution of Pharmacists in Neurocritical Care
UNC Eshleman School of Pharmacy: Principal Investigator

Scoping Review of Pharmacotherapy Supplementation with Spinal Cord Stimulation
UNC Eshleman School of Pharmacy: Principal Investigator

Not Funded – Completed

Scoping Review of Rational Polytherapy for Drug Resistant Epilepsy
UNC Eshleman School of Pharmacy: Co-Investigator

Scoping Review of Feedback in Pharmacy Education
UNC Eshleman School of Pharmacy: Principal Investigator

Scoping Review of PCOA in Pharmacy Education
UNC Eshleman School of Pharmacy: Principal Investigator

Validity of estimated CrCl equations in patients with hemorrhagic stroke
University of North Carolina Hospital: Principal Investigator

Flipped Research Model for Residency Research Training
University of North Carolina Hospital: Co-Investigator

Impact of Baseline Exam Performance on Predicting Student Performance in Pharmacotherapy Courses
UNC Eshelman School of Pharmacy: Principal Investigator

Nutritional requirements during prolonged hypothermia following neurologic injury
University of North Carolina Hospital: Principal Investigator

Observational analysis of glucose control following hemorrhagic stroke
University of North Carolina Hospital: Principal Investigator

Timing and safety of deep venous thromboembolism prophylaxis using unfractionated heparin in neurosurgical intensive care unit patients.
University of North Carolina Hospital: Principal Investigator

Vancomycin pharmacokinetic parameters in patients with acute brain injury
University of North Carolina Hospital: Principal Investigator

Vancomycin pharmacokinetic parameters in patients with CNS infections
University of North Carolina Hospital: Co-Investigator

Impact of thermoregulation and pentobarbital infusion on vancomycin pharmacokinetic parameters in patients with acute brain injury
University of North Carolina Hospital: Principal Investigator

Evaluation of pharmacy practice residency research training on resident's actual versus perceived ability and interest to identify and solve practice-related problems
University of North Carolina Hospital: Co Investigator

Enhancing mental health patient outcomes through partnership: The layered learning practice model
University of North Carolina Hospital: Co Investigator

Glycemic control during prolonged hypothermia following neurologic injury
University of North Carolina Hospital: Principal Investigator

Susceptibility patterns of organisms isolated from spinal epidural abscesses in an urban trauma center
Detroit Receiving Hospital: Principal Investigator

Comparison of an Interactive E-Learning Preparatory Tool and a Conventional Downloadable Handout: Findings from a Flipped Neurologic Neurology Pharmacotherapy Lecture
University of North Carolina Eshelman School of Pharmacy: Principal Investigator

The impact of length of hyponatremia on outcome following neurologic injury
Detroit Receiving Hospital: Principal Investigator

Central Nervous System Penetration and Pharmacodynamics of Cefepime
Not Funded \$36,113.90 (10% Salary) – Dura Pharmaceuticals
Not Funded \$ 15,000- ASHP Foundation Grant

Pharmacokinetics of Oral versus Rectal Loading Doses of Carbamazepine in Neurotrauma Patients
Detroit Receiving Hospital: Principal Investigator
Not Funded \$5000.00 – Novartis Pharmaceuticals

Evaluation of Prescribing Practices for Status Epilepticus and Effect on Patient Outcome
Detroit Receiving Hospital: Principal Investigator

Readability of Patient Education Materials for Seizure Disorders and Antiepileptic Drug Therapy
Detroit Receiving Hospital: Principal Investigator

Appropriateness of Antihypertensive Therapy for Ischemic and Hemorrhagic Stroke Patients
Detroit Receiving Hospital: Principal Investigator

Susceptibility Patterns of Organisms Isolated from Spinal Epidural Abscesses in an Urban Trauma Center
Detroit Receiving Hospital; Principal Investigator

ICP Monitoring Device Related CNS Infection Analysis
Detroit Receiving Hospital; Principal Investigator

Characteristics of Pharmacy Fellowship Programs in the United States
University of North Carolina; Principal Investigator

Not Funded – Not Completed

Decision-making in Pharmacy and the Changing Nature of Work of Pharmacy Professionals: An exploratory, qualitative study - 2022
\$200,000 - Russell Sage Foundation (Co-PI)

The Path Forward: Theory Guided Pharmacy Practice - 2022
\$45,000 – UNC Sabbatical Program

Persistence rates of clobazam and perampanel for drug-resistant epilepsy - 2022
\$40,000 – AACP Futures Grant: Co-Investigator (primary mentor)

Anything Grows: Design of an intervention to promote a growth mindset across PharmAlliance institutions
Funded \$29,816 (2020-2021) PharmAlliance Tier A Grant (Co-Investigator)

Using Knowledge Maps in Pharmacy Education
UNC Eshleman School of Pharmacy: Principal Investigator

Zooming Into Deep Learning of Epilepsy: Integrating the Science of Learning into Education Technology
UNC Eshleman School of Pharmacy: Principal Investigator

Predicting Augmented Renal Clearance in a Heterogeneous Critically Ill Patient Population using Applied Data Mining Techniques
UNC Eshleman School of Pharmacy: Principal Investigator

Quality of Feedback: Development of a Validated Instrument
UNC Eshleman School of Pharmacy: Principal Investigator

Feedback as Effective Pedagogy: Identifying Common Errors Made in Clinical Reasoning
UNC Eshleman School of Pharmacy: Principal Investigator

The Path Forward: Theory Guided Pharmacy Practice
UNC Eshleman School of Pharmacy: Principal Investigator

Intelligent Pharmacy Competency Tracking through Competency.AI
Not Funded \$100,000 – Eshelman Institute for Innovation (Principal innovator)

Impact of augmented renal clearance on levetiracetam clearance following traumatic brain injury
Not Funded \$50,000- Society of Critical Care Medicine Vision Grant (Principal investigator)

Augmented renal clearance following aneurysmal subarachnoid hemorrhage
Not Funded \$25,000- Brain Aneurysm Foundation (Principal investigator)

Impact of prolonged therapeutic hypothermia on subcutaneous low molecular weight heparin used for thromboembolism prophylaxis in patients with traumatic brain injury: A proof of concept study
Not Funded \$40,978.18 – NC TRACS (Principal investigator)

Risk Benefit Analysis of Thromboembolism Prophylaxis in Patients with Intracerebral Hemorrhage
Not Funded \$50,000 – ASHP Research Foundation (Principal investigator)

Predictors of Bleeding Complications Associated with Pharmacological Thromboembolism Prophylaxis in Patients with Intracranial Hemorrhage

Not Funded AFPE Gateway Research Scholarship

Safety and Feasibility of Minocycline Following Traumatic Brain Injury
Not Funded \$200,000 Ralph C. Wilson Foundation Grant (Principal investigator)

Osmotherapy and Immunomodulation in Intracerebral Hemorrhage
Not Funded \$30,000 American College of Clinical Pharmacy Frontiers Award (Principal investigator)

Osmotherapy and Immunomodulation in Intracerebral Hemorrhage
Not Funded \$250,000 National Institutes of Health R21 Award (Principal investigator)

Inflammatory and Genetic Mechanisms of Cerebral Edema Following Intracerebral Hemorrhage
Not Funded \$160,000/year x5 years National Institutes of Health (Co-investigator)

Clearance of Topiramate During Pregnancy and Post-Partum States
Not Funded \$66,000 Ortho McNeil Pharmaceuticals

Modified Ketogenic Diet vs. Low Fat Diet for Adjunctive Treatment of Epilepsy in Adults
Not Funded \$500,000 American Epilepsy Society

Osmotherapy and Immunomodulation in Intracerebral Hemorrhage
Not Funded \$50,000 American College of Clinical Pharmacy Career Development Award

Comparative Outcome Assessment of Propofol and/or Remifentanyl Used as Sedatives in Brain-Injured Patients
Not Funded \$30,000 (0% Salary) – SCCM Joseph Dasta Clinical Pharmacy Outcomes Award

Central Nervous System Penetration of a Standardized Grape Preparation
Not Funded \$30,000 (0% Salary) – California Table Grape Commission

Pharmacist's Role in a University Stroke Clinic
Not Funded \$50,000 (0% Salary) – Merck Health Care Grant

Safety and feasibility of oral transmucosal fentanyl citrate (OTFC) compared to oral morphine sulfate solution for chronic back pain
Detroit Receiving Hospital – Principal Investigator
Not Funded \$25,000 - Anesta Corporation

PROFESSIONAL SERVICE ACTIVITIES

National Institutes of Health

NINDS and Stroke NET

- Study section member – 2019 - present

National Organizations

Neurocritical Care Society

- Research Grant Review Panel – May 2016 - 2018
- Board of Directors Composition Task Force May 2015- October 2016
- Executive Committee – October 2013 to 2014
- Board of Directors - October 2008 to 2012 re-elected for 2nd term October 2012 to 2016
- Research Committee – 2013-2020
- Membership Committee – 2014 – 2015
- Pharmacy Section – 2014- present

- Newsletter and Website Committee – 2008-2012
- Chair, Research Committee, Clinical Pharmacy Section – 2010-2018
- Pharmacy Leadership Committee – 2012-2018
- Fundraising Committee – 2012-2016
- Travel Award Review Committee – 2012
- Pharmacy Taskforce – 2013 - 2015
- Abstract reviewer for the joint scientific meeting of The German Society for Neurocritical Care and Emergency Medicine and the Neurocritical Care Society - 2012
- Therapy of Cerebral Edema Writing Group for Large Hemispheric Infarct International Guideline - 2012-2015
- Project Investigator for the Common Data Elements for Unruptured Intracranial Aneurysms and Subarachnoid Hemorrhage
- Attended Neurocritical Care Research Conferences:
 - First Conference Houston, Texas September 2009
 - Third Conference Houston, Texas August 2014
 - Fourth Conference Houston, Texas May 2016
 - Reviewer for travel grant awards
 - Served as session moderator
 - Fifth Conference Boca Raton, Florida September 2018
- I have also provided contributions to The Neurocritical Care Society published newsletter, *Currents*:
 - Role of ICU Clinical Pharmacists, 2012 (June); 7(2):12.
 - Pharmacy Section Highlights from the Annual Meeting, 2010 (December);5(4):13
 - Clinical Pharmacy Annual Meeting Roundtable; 2009 (February); 4(1):12
- Leading a qualitative design group to outline the Evolution of Pharmacists in Neurocritical Care – January 2021-present

American Academy of Neurology

- Stroke and Stroke Rehabilitation Quality Measurement Work Group – October 2015 – 2016

American Association of Colleges of Pharmacy

- Chair, Academic Affairs Committee – July 2023-Present
- Member, Faculty Workload Task Force – July 2022 - 2023
- Chair, Competency Based Education Joint Task Force- July 2021- July 2022
- Reviewer for AACP Innovations in Teaching Award – October 2019 – present
- Academic Leadership Program Fellow of American Associations of College of Pharmacy – August 2010-2011
- Member of Women Faculty SIG and Pharmacy Practice Section
- AACP Wall-Mart Scholars Program – 2010, 2018, 2020

Society of Critical Care Medicine

- Master of American College of Critical Care Medicine – January 2023
- Fellow of American College of Critical Care Medicine – February 2007
- Presidential Citation, Society of Critical Care Medicine – 2006, 2007
- Chair of Grant Review Committee Clinical Pharmacy & Pharmacology Section (SCCM) January 2006 - 2009
- Member of Advisory Board Clinical Pharmacy & Pharmacology Section (SCCM) January 2002 -2004
- Clinical Pharmacy & Pharmacology Section – SCCM, July 1994 to present
- I have also provided a contribution to The Society of Critical Care Medicine published newsletter, *Critical Connections*:

- Pharmacological Management of Therapeutic Hypothermia Induced Shivering, 2008 (August).

American College of Clinical Pharmacy.

- Nominated for President Elect, Election Spring 2024
- MeRIT program Mentor, 2019 - present
- Education Affairs Committee– 2022 to 2023
- Expansion of Residency Training Task Force – 2021 to 2022
- Abstract Chair, 2016 Annual Meeting
- Abstract Chair, 2017 Annual Meeting
- Elected, Board of Trustees, Research Institute (now Research Foundation) – October 2014 to October 2017
- Chair, Board of Trustees, Research Institute (now Research Foundation) – October 2015 to October 2017
 - Attended the 2015 American Society of Association Executives (ASAE) CEO Symposium
- Fellow of American College of Clinical Pharmacy – October 2004
- American College of Clinical Pharmacy Programming Committee, November 2003 to 2005
- Chair of Critical Care Practice and Research Network (ACCP) - November 1999 to November 2000
- Chair-Elect of Critical Care Practice and Research Network (ACCP) November 1998 to 1999
- Chair of Programming Committee Critical Care PRN (ACCP) November 1998 to 2000
- Secretary-Treasurer of Critical Care Practice and Research Network (ACCP) November 1997 to November 1998
- Chair of Membership Committee of Critical Care PRN (ACCP) November 1997 to November 1998
- Critical Care Practice and Research Network - ACCP, July 1993 to present
- Central Nervous System Practice and Research Network - ACCP, July 1993 to present

University of North Carolina at Chapel Hill

- PharmAlliance Leadership Group – September 2022 to present
- PharmAlliance Pharmacy Practice Domain Co-Chair – September 2022 to present
- Taskforce on Teaching Effort – January 2022 to November 2022 (chair)
- Campbell Mentor for Megan Clarke Roberts – July 2018 to present
- Mentor of Anita Crescenzi, PhD – August 2020 to 2023
- Practice Advancement Workgroup (PACE) – May 2021 to 2022
- Asheville Red Team, July 2020 to September 2020
- PACE Fellowship Working Group, May 2020 to 2021
- Education Advisory Committee, September 2020 to present
- Data Steering Committee, October 2019 to present
- Curriculum Outcomes Advisory Group, August 2020 to 2021
- Digital Learning Committee, January 2020 to 2021
- Microcredential Advisory Committee, September 2019 to 2020
- Curriculum Advisory Team, September 2018 to 2020
- PharmAlliance Week Planning Group, March 2019 to October 2020
- PharmAlliance UNC Steering Group, March 2019 to present
- Co-Chair of ACPE Standards 10-13 Self-Study Team, May 2018 to January 2020
- Eshelman Institute for Innovation Grant Reviewer, March 2019
- PharmAlliance Pharmacy Practice Domain Leadership Group, May 2015 to 2018
- PharmAlliance Education Domain Leadership Group, January 2018 to 2021

- PharmAlliance Planning Committee for the Global Summit on Pharmacy Practice, July 2017 to November 2017
- Pharmacy Education Research Consortium, September 2017 to 2018
- Partnership in Patient Care Executive Committee, January 2017 to 2019
- Curricular Transformation Executive Committee, September 2017 to 2019
- Curricular Innovation and Assessment Committee, September 2017 to 2018 (Chair)
- Pharmacotherapy Stream, September 2017 to 2018 (Chair)
- Faculty Administrator Development Program, September 2017 to 2018
- Appointed to Carolina Health Task Force, June 2017 to October 2017
- PACE Leadership Group, January 2012 to 2019
- NC TraCS Research Liaison, October 2013 to September 2017
- Carolina Engagement Council, January 2013 to 2018
- UNC Eshelman School of Pharmacy Executive Committee, January 2012 to 2021
- Full Professors, January 2012 to present
- Eshelman School of Pharmacy Curriculum Transformation Steering Committee, July 2012 to December 2012
- Pharmacy Innovation and Problem-Solving Committee, June 2013 – December 2013
- Scholarship Sub-committee of Curriculum Transformation Steering Committee (Co-Chair), July 2012 to June 2013
- Chapel Hill Drug Conference Division of Practice Advancement and Clinical Education Planning Committee, July 2012 to May 2013
- Masters Program Strategic Planning (Chaired Scholarship subcommittee) June 2013-2017
- Keynote Speaker, Rho Chi Recognition Ceremony, March 2012
- Lead Program Panelist, 2012,2013

Wayne State University

- Interim Chair, Department of Pharmacy Practice (May 2011-December 2011)
- Phi Lambda Sigma Pharmacy Leadership Society Faculty Co-Advisor, 2010-211
- Department of Pharmacy Practice Tenure Track Search Committee, September 2009 to 2011 (Chair)
- Dean Search Committee, April 2008 to June 2009
- Department of Pharmacy Practice Executive Committee, September 2009 to 2011
- Task Force on Summative Assessment, May 2010 to 2011
- Problem Based Learning Oversight Committee, May 2005 to present (Chair 2007-2011)
- Department of Pharmacy Practice Salary Committee (2002, 2004, 2008, 2009, 2010, 2011)
- Department of Pharmacy Practice Promotion and Tenure Committee, 2003 to 2011 (Chair 2005, 2009)
- College of Pharmacy Promotion and Tenure Committee, November 2007 to 2011
- College Research Committee, August 2008 to 2011
- College Social Amenities Committee, August 2009 to 2011
- College Assessment Committee, August 2008 to 2010
- Wayne State University Office of Teaching and Learning Advisory Board, January 2004 to 2007
- Eugene Applebaum College of Pharmacy & Health Sciences Researcher of the Year Award Committee August 2005 to 2006
- College Excellence in Teaching Award Committee, April 2004 to 2006
- College of Pharmacy Convocation Planning Committee, January 2004 to 2007 (Chair)
- Wayne State University College of Pharmacy Awards & Scholarship Committee, January 2001 to 2006 (Chair 2003 to 2006)

- Wayne State University Stroke Research Group, September 1997 to 2011
- Rehabilitation Institute of Michigan Research Group January 2006 to 2011

Detroit Receiving Hospital

My involvement in hospital-based committees is related to enhancement of clinical services within the neurocritical care unit and the department of pharmacy at Detroit Receiving Hospital.

- Cardiovascular and Thrombosis Subcommittee, September 2004 to 2011
- Longitudinal Advanced Practice Program Committee, May 2002 to 2011
- Detroit Medical Center Residency Steering Committee – May 1997 to 2011
- Residency Advisory Committee – September 1995 to 2011
- Detroit Receiving Hospital Clinical Practice Group – September 1997 to 2011
- Detroit Medical Center Annual Symposium Planning Committee – August 1996 to 2004

Other Professional Service Activities

Section Editor of Neurological Diseases. Drug Induced Diseases: Prevention, Detection, and Management, 1st Edition, American Society of Health-System Pharmacists

Reviewer for Stroke, Expert Reviews in Neurotherapeutics, Critical Care Medicine, Neurocritical Care, Drug Safety, The Annals of Pharmacotherapy, Pharmacotherapy, Seizure, Currents in Pharmacy Teaching and Learning, AJPE, and American Journal of Health System Pharmacists.

Reviewer of AHFS Drug Information

Professional Organization Membership

Neurocritical Care Society
American Stroke Association
American Academy of Neurology
American College of Clinical Pharmacy
American Society of Health System Pharmacists
Society of Critical Care Medicine
American Association of Colleges of Pharmacy
University of Kentucky Alumni Association
University of Kentucky College of Pharmacy Alumni Association
Rho Chi National Pharmacy Honor Society
Lambda Kappa Sigma Pharmaceutical Fraternity