

Capstone Project Poster Titles 2014 -2015

Bench Research

1. *Towards Identification of Critical Waters for Accurate Prediction of Inhibitor Binding to Cytochrome P450 3A4*
Brett Lacy, Pharm.D. Candidate
Mentor: Maria Kontoyianni, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
2. *The Effects of a High-fat Diet and Exercise on Muscle FNDC5 Levels in C57Bl/6 Mice*
Stephanie Vick, Pharm.D. Candidate
Mentor: Brianne Guilford, Ph.D.
Southern Illinois University Edwardsville, Edwardsville, Illinois

Business Plans

1. *Union Drugstore: An Independent Pharmacy*
James Bivona, Pharm.D. Candidate
Mentor: Todd Evers, R.Ph.
Evers Pharmacies, Collinsville, Illinois
2. *Business Plan for Grace Health Center and Pharmacy*
Lauren Breden, Pharm.D. Candidate
Mentor: Bart Caldieraro, R.Ph.
Watsons Drug Store, Greenville, Illinois
3. *Tri-County Medical Supply Business Plan*
Lisa Eilerman, Pharm.D. Candidate
Mentor: Leslie Baker, R.Ph.
WalMart Pharmacy, Wood River, Illinois
4. *Long Term Complete Care: Serving the Delmar Gardens of Chesterfield, West, and North Long Term Care Facilities*
Erick Gill, Pharm.D. Candidate
Mentor: Steve Hebel, R.Ph.
Corum Healthcare, St. Louis, Missouri
5. *Personalized Medicine: Implementation in Pain Management*
James Langley and Bradlee Rea, Pharm.D. Candidates
Mentor: Darren Hillis, Pharm.D.
DePaul Hospital, St. Louis, Missouri

Honorable Mention – SIUE School of Pharmacy Poster and Presentation Day 2015

6. *Genetic Advantage*

Bryan Lumpkin, Pharm.D. Candidate

Mentors: Walter Siganga, Ph.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

Best Presentation Award – SIUE School of Pharmacy Poster and Presentation Day 2015

7. *Business Plan for a Blood Pressure Initiative*

Jessica Trader, Pharm.D. Candidate

Mentor: Teagan Ryan, R.Ph.

Medicine Shoppe Pharmacy, Springfield, Illinois

8. *PharmZ, LLC*

Catherine Zollars, Pharm.D. Candidate

Mentor: Micah Howell, Pharm.D.

Howell Pharmacy, Edwardsville, Illinois

Honorable Mention – SIUE School of Pharmacy Poster and Presentation Day 2015

Surveys

1. *Naloxone Rescue Therapy for Individuals with Serious Mental Illnesses and Addiction: A Pilot Evaluation of Use and Understanding Among Healthcare Providers*

Nicholas Beiermann, Pharm.D. Candidate

Mentor: Kelly Gable, Pharm.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. *Survey of Community Pharmacist Knowledge of Acetaminophen Containing Products*

Emil Borowiak, Pharm.D. Candidate

Mentor: Miranda Wilhelm, Pharm.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

3. *Pilot study over four months to determine if knowledge and measurement of body composition leads to improved results, better diet and increased exercise*

Julia Bost, Pharm.D. Candidate

Mentor: Kimberly Meador, R.Ph.

Walgreens Pharmacy, Bethalto, Illinois

4. *Prescription Wait Times in a Community Pharmacy: A Survey of Patient Expectations*

Derek Burns, Pharm.D. Candidate

Mentor: Bria Sims, Pharm.D.

CVS Pharmacy, Mount Vernon, Illinois

5. ***Units of Measure used for Pediatric Liquid Prescription Dosing in the Community Pharmacy***
Ryan Crouse, Pharm.D. Candidate
Mentor: Beth Francis, R.Ph.
CVS Pharmacy, Mount Vernon, Illinois

6. ***Self-perceived impact of study abroad on pharmacy students' cultural competence***
Emily Donahue McMahill, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

7. ***Southern Illinois Community Pharmacists' Perceptions on Over-the-Counter Syringe Sales***
Justin Freeman, Pharm.D. Candidate
Mentor: Christine Reyling, R.Ph.
Walgreens Pharmacy, Collinsville, Illinois

8. ***Student Perceptions of a Performance-Based Assessment Final Exam in a Self-Care Elective Course***
Audra Hipsher Keepes, Pharm.D. Candidate
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

9. ***Effects on Patient Adherence Due to Communication Delays between Doctors' Offices and Pharmacies***
Curtis Hoalt, Pharm.D. Candidate
Mentor: Brian Russell, Pharm.D.
Walgreens Pharmacy, Maryville, Illinois

10. ***Evaluation of Southern Illinois University Edwardsville Education Major's Confidence and Knowledge in Educating Students about Prescription Drug Abuse***
Nathan Lindley, Pharm.D. Candidate
Mentor: Jessica Kerr, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

11. ***Media and Legislative Impact on Provider Attitudes Toward a Recently Approved Opioid Analgesic***
Sara Lindsay, Pharm.D. Candidate
Mentor: Christopher Herndon, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

12. ***Evaluation of a Needle-Free Injection System Training Program***
Keith Marry, Pharm.D. Candidate
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

- 13. *An Electronic Pharmacist Intervention Documentation Program (DOC-U-Vent) in Ambulatory Healthcare Settings: A Pilot Study***
Dana McGinnie, Pharm.D. Candidate
Mentor: Lakesha Butler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 14. *Influenza Vaccination: A Survey to Pharmacy Students at Southern Illinois University Edwardsville***
Michael Menzel, Pharm.D. Candidate
Mentor: Alexander Bryant, Pharm.D.
Mercy Hospital, St. Louis, Missouri
Honorable Mention – SIUE School of Pharmacy Poster and Presentation Day 2015
- 15. *Prescriber Perceptions of Communications between Community Pharmacists and Physicians***
Nicole Mindrup, Pharm.D. Candidate
Mentor: Brian Russell, Pharm.D.
Walgreens Pharmacy, Maryville, Illinois
- 16. *An Analysis of the Returned To Stock Medications at a Retail Pharmacy***
Ibrahim Mohsen, Pharm.D. Candidate
Mentor: Mike Lawler, Pharm.D.
WalMart Pharmacy, St. Louis, Missouri
- 17. *Assessing Pharmacists' Knowledge of Current Substance Abuse, Treatment and Recovery Programs***
Kelsey Mosher, Pharm.D. Candidate
Mentor: Kate Newman, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 18. *Pharmacists' Awareness and Perception of Pharmacogenomics***
Eric Niebrugge, Pharm.D. Candidate
Mentor: Ronald Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 19. *Assessing and Describing Recovery Resources Available for Pharmacists***
Lindsey Reno, Pharm.D. Candidate
Mentor: Misty Gonzalez, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 20. *The Design, Implementation, and Evaluation of a Pediatric Specialization at a School of Pharmacy***
HollyAnn Russell, Pharm.D. Candidate
Mentors: Lisa Lubsch, Pharm.D. and Miranda Nelson, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

- 21. *A Survey of Semi-Rural Illinois Prescribers Assessing Resources Used in Medication Prescribing and Medication Dosing***
Kevin Sager, Pharm.D. Candidate
Mentor: Eric Bandy, R.Ph.
Bandy's Health Mart Pharmacy, Salem, Illinois
- 22. *Staffing Requirements of PGY1 Pharmacy Residencies in Large Hospitals and PGY2 Pediatric Residencies***
Cody Schaefer, Pharm.D. Candidate
Mentors: Jennifer Ellison, Pharm.D. and Julie Kasap, Pharm.D.
OSF St. Francis Medical Center, Peoria, Illinois
- 23. *Comparison of the Personal Pharmacist Service in Croatia to Medication Therapy Management in the United States***
Amanda Schneider, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 24. *Rural Community Pharmacy and Mental Health Treatments: A Needs Assessment and Training Opportunity***
Jerica Sneed, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 25. *The Development of an Educational Program for Pharmacists Addressing Deaf Culture Training and Communication with Deaf Patients***
Michelle Thies Lyons, Pharm.D. Candidate
Mentor: McKenzie Ferguson, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 26. *A Pilot Program to Assess Medication Adherence Among HIV Positive Patients***
Deni Trone, Pharm.D. Candidate
Mentor: J. Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 27. *Determining the Need For An Educational Course On Pet Medications Based On Pharmacist Knowledge And Pharmacy Sales***
Ashley Williams, Pharm.D. Candidate
Mentor: Eric Hess, R.Ph.
WalMart Pharmacy, Glen Carbon, Illinois
- 28. *Assessment of Need to Prepare Primary and Secondary School Educators to Discuss Prescription Drug Abuse with Youth***
Dana Wright, Pharm.D. Candidate

Mentor: Jessica Kerr, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

29. *Allergic Bronchopulmonary Aspergillosis in Cystic Fibrosis*

Breanna Wyman, Pharm.D. Candidate

Mentor: Lisa Lubsch, Pharm.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

Retrospective Chart Reviews, Drug Utilization Review, Review of Guidelines, etc.

1. *Relationship Between the Number of Medications and the Fall Risk in a Geriatric Nursing Home Setting*

James Blazier, Pharm.D. Candidate

Mentor: Stephen McConnell, R.Ph.

Everspring Pharmacy, St. Louis, Missouri

2. *Targeted Evidenced-based Education to Reduce Inappropriate Medication Use in End of Life Care*

Sarah Cooper, Pharm.D. Candidate

Mentor: Christopher Herndon, Pharm.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

3. *Analysis of Patient Refill History to Assess Medication Adherence in Patients Taking Pancreatic Enzymes*

Marianne E. Dust, Pharm.D. Candidate

Mentor: Katie N. Mothershed, Pharm.D.

Foundation Care Pharmacy

4. *Evaluation of Documented Antiplatelet and Lipid-Lowering Therapies for Secondary Prevention of Cardiovascular Disease*

Brianna Finch and Megan Herman Spraul, Pharm.D. Candidates

Mentor: Jennifer Rosselli, Pharm.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

5. *Cost Analysis of Metered Dose Inhaler vs. Nebulizer Treatment in a Hospital Setting*

Benjamin Frietsch, Pharm.D. Candidate

Mentor: Ed Rainville, M.S., R.Ph.

OSF St. Francis Medical Center, Peoria, Illinois

6. *A Retrospective Study of Nitroglycerin Prescribing to Acute Coronary Syndrome Patients upon Hospital Discharge*

Jeremy Gray, Pharm.D. Candidate

Mentor: Cassandra Maynard, Pharm.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

- 7. *Pain Medication Utilization in Patients with Mental and Behavioral Illnesses in a State Hospital***
Adam Gummersheimer, Pharm.D. Candidate
Mentors: Robert Schmitt, R.Ph, MHA and Jose Valdes, Pharm.D.
St. Louis Psychiatric Rehabilitation Center, St. Louis, Missouri and Nova Southeastern University College of Pharmacy, Ft. Lauderdale, Florida
- 8. *Pharmacist Impact on Pain Control and Opioid Utilization in Patients Enrolled in a Family Medicine Pain Service: A Retrospective Chart Review***
Jaymi Holloman, Pharm.D. Candidate
Mentor: Christopher Herndon, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 9. *Assessment of Ordering and Initiation of Insulin Infusion Order Set in a Medical Intensive Care Unit (MICU)***
Khushbu Italia, Pharm.D. Candidate
Mentor: Katie Ronald, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 10. *Retrospective Evaluation of Dosing Body Weight for Unfractionated Heparin in the Obese Population***
Billee John and Emily Tesdal, Pharm.D. Candidates
Mentor: Jingyang Fan, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 11. *Concurrent Use of Acetylcholinesterase Inhibitors and Anticholinergic Medications in Nursing Home Residents***
Jessica Kerwin, Pharm.D. Candidate
Mentor: J. Mark Ruscin, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 12. *A Retrospective Review of Emergency Department Antibiotic Prescribing Practices for Skin and Soft Tissue Infections at a Large, Midwestern, Tertiary Care, Teaching Facility***
Claire Koch, Pharm.D. Candidate
Julie Giddens, Pharm.D.
OSF St. Francis Medical Center, Peoria, Illinois
Honorable Mention – SIUE School of Pharmacy Poster and Presentation Day 2015
- 13. *Retrospective Chart Review of Chronic Pain Management***
Lauren Kormelink, Pharm.D. Candidate
Mentor: Carrie Vogler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

- 14. *Antibiotic De-Escalation in Patients Presenting with Healthcare-Associated Pneumonia in a Medical Intensive Care Unit versus the General Floor***
Claire Laughlin and Zak Vinson, Pharm.D. Candidates
Katie Ronald, Pharm.D., Julie Downen, Pharm.D., Maithili Deshpande, Ph.D., and Megan Metzke, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois and Memorial Medical Center, Springfield, Illinois
SIUE Senior Showcase Presenter 2015
- 15. *The Forgotten Transition of Care: Discharge Protocol from Hospital to Community Pharmacy***
Megan LeBaron, Pharm.D. Candidate
Mentor: Kristi Stice, Pharm.D.
Kishwaukee Hospital, DeKalb, Illinois
- 16. *Standardizing Care for Patients with Diabetes during the Jamaica Dental Mission: A Retrospective Chart Review***
Cathryn McIntosh, Pharm.D. Candidate
Mentor: J. Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 17. *Comparison of Pharmacy Elective Offerings at Accredited U.S. Colleges and Schools of Pharmacy***
Kamrey McNutt, Pharm. D. Candidate
Mentor: Erin M. Behnen, Pharm. D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 18. *Comparison of Calculated Patient Adherence Rates for Pancreatic Enzymes***
May Nguyen, Pharm.D. Candidate
Mentor: Katie Mothershed, Pharm.D.
Foundation Care Pharmacy, St. Louis, Missouri
- 19. *Discontinuation of Proton Pump Inhibitors Used for Stress Ulcer Prophylaxis at Hospital Discharge***
Edmond Paspali, Pharm.D. Candidate
Mentor: Amy Boblitt, Pharm.D.
Memorial Medical Center, Springfield, Illinois
- 20. *Analyzing the Use of Anticholinesterase Agents in Nursing Home Patients with Chronic Obstructive Pulmonary Disease and Bradycardia***
Lyle Pratt, Pharm.D. Candidate
Mentors: J. Mark Ruscin, Pharm.D. and Randy Malan, R.Ph.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois and Illinois Department of Human Services, Springfield, Illinois
SIUE Senior Showcase Presenter 2015

- 21. *Impact of an Antimicrobial Stewardship Program on Meropenem Utilization and Patient Outcomes***
Kelly Quon, Pharm.D. Candidate
Mentor: Julie Giddens, Pharm.D.
OSF Saint Francis Medical Center, Peoria, Illinois
- 22. *Vancomycin Use and Monitoring Following Rapid Testing of Bloodstream Cultures for Staphylococcus and Oxacillin Susceptibility***
Michael Santini, Pharm.D. Candidate
Mentor: Scott Bergman, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 23. *Evaluation of the Causation and Treatment of Pediatric Patients with DRESS Syndrome***
Sarah B Schuchard, Pharm.D. Candidate
Mentor: Miranda P Nelson, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 24. *A Cost Effectiveness Analysis: A Clinical Pharmacist in a Rural Southern Illinois Hospital***
Cortney Spradling, Pharm.D. Candidate
Mentor: Stacy Smith, R.Ph.
Greenville Regional Hospital, Greenville, Illinois
- 25. *Retrospective Chart Review Evaluating the Use of Azithromycin for Chronic Pulmonary Management of Children with Cystic Fibrosis***
Shana Stein Archer, Pharm.D. Candidate
Mentors: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Best Poster Award – SIUE School of Pharmacy Poster and Presentation Day 2015
- 26. *Analysis of Genetic Biomarkers of Fibromyalgia in One Pair of First Degree Relatives***
Christina Tiek, Pharm.D. Candidate
Mentor: Ron Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 27. *Comparison of Patient Controlled Analgesia and Continuous Infusion Dosing Regimens for Opioids in Pediatric Patients with Sickle Cell Vaso-Occlusive Pain Crisis***
Tabetha Todd, Pharm.D. Candidate
Mentors: Jonica Huntman, Pharm.D. and Monica Hulbert, M.D.
St. Louis Children's Hospital and Washington University, School of Medicine, St. Louis, Missouri
SIUE Senior Showcase Presenter 2015

28. *Medicare Utilization and Payments in 2012 for Nuclear Medicine Practitioners*

Ting Zhang, Pharm.D. Candidate

Mentor: Walter Siganga, Ph.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

Other

1. *Pancreatic Cancer: A Case Study to Serve as a Guide for Pharmacists Interested in Pharmacogenetics*

Kevin Lyons, Pharm.D. Candidate

Mentor: Ronald Worthington, Ph.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. *Case Report: Gemcitabine-induced Pseudosepsis*

Alex Seay, Pharm.D. Candidate

Mentor: Kathy Wheeler, Pharm.D.

SSM Cancer Care Center, St. Charles, Missouri