

Capstone Project Poster Titles 2013 -2014

Bench Research

1. ***Translating Genotypes into Phenotypes of Clinically Significant Pharmacogenomic Biomarkers***
Rosaura Ford, Pharm.D. Candidate
Mentor: Ronald Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
2. ***Calcium and Phosphate Precipitation in Simulated Neonatal Total Parenteral Nutrition Solutions containing TrophAmine***
Lauren Richards, Pharm.D. Candidate
Mentor: William Kolling, R.Ph., Ph.D. and Tim McPherson, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Best Poster Award – SIUE School of Pharmacy Poster and Presentation Day 2014
3. ***The Effect of Priming on Adsorption of Insulin to Infusion Sets***
Seth Wagner, Pharm.D. Candidate
Mentors: Tim McPherson, Ph.D. and William Kolling, R.Ph., Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

Business Plans

1. ***Brighton Pharmacy Expansion Business Plan***
Shannon Beaman Bramel, Pharm.D. Candidate
Mentor: Steve Peipert, R.Ph.
Brighton Pharmacy, Brighton, Illinois
2. ***Burris Family Pharmacy***
Danielle Burris, Pharm.D. Candidate
Mentor: Micah Howell, Pharm.D.
Howell HealthMart Pharmacy, Edwardsville, Illinois
3. ***Implementation of a Diabetes Education Site Within a Kroger Pharmacy***
Andrew DiMaggio, Pharm.D. Candidate
Mentor: Casey Robinson, Pharm.D.
Kroger Pharmacy, Marion, Illinois

- 4. *Implementing a Wellness Clinic Within a Medicine Shoppe Pharmacy***
Bryce Harrison, Pharm.D. Candidate
Mentor: Ed Potts, R.Ph.
Medicine Shoppe Pharmacy, Fairfield, Illinois
- 5. *Lindenwood Drug West: A Business Plan for a Satellite Pharmacy***
Jim Hok, Pharm.D. Candidate
Mentors: Tom Hunt, R.Ph. & Griffin McNamara, Pharm.D.
Lindenwood Drug, St. Louis, Missouri
- 6. *Business Plan for Klein's Pharmacy***
Kirk Klein, Pharm.D. Candidate
Mentor: Mary Eilers, Pharm.D.
St. John's Hospital, Springfield, Illinois
- 7. *Total Transitions: A Readmissions Reduction Program for Poplar Bluff Regional Medical Center***
Savanna Mattingly, Pharm.D. Candidate
Mentor: Carrie Vogler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 8. *Custom Care Pharmacy Business Plan***
Marcus Mussatto, Pharm.D. Candidate
Mentor: T.J. Allan, Pharm.D.
Sullivan Drugs, Gillespie, Illinois
- 9. *My Recovery Rx: Business & Marketing Plan Proposal***
Alana Narup, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 10. *Byrd Watson Drug Lipid and Glycated Hemoglobin Testing Services Business Proposal***
Laura Olsen, Pharm.D. Candidate
Mentor: Kevin McBride, Pharm.D.
Byrd Watson Drug, Mt. Vernon, Illinois
Best Business Plan Presentation Award – SIUE School of Pharmacy Poster and Presentation Day 2014 (tie)
- 11. *Lilly-Rose Health Management Service Business Plan***
Daniel Quinn, Pharm.D. Candidate
Mentor: Tim McPherson, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

12. *Independent Pharmacy Services Business Plan*

Alyssa Riederer, Pharm. D. Candidate

Mentor: Dan Fieker, R.Ph.

Family Care Pharmacy, Highland, Illinois

13. *Wal-Mart Pharmacy Health and Wellness Clinic Business Plan*

Gold Uche, Pharm.D. Candidate

Mentor: Felicia Cooper-Higgins, Pharm.D.

Wal-Mart Pharmacy, Evergreen Park, Illinois

14. *Medication Therapy Management and Workflow Business Plan for Martinsville Pharmacy*

Charles Wieland, Pharm.D. Candidate

Mentor: Foster Propst, R.Ph.

Martinsville Pharmacy, Martinsville, Illinois

15. *La Farmacia: Improving Access to Medications for Hispanic Americans*

Christina Wilke, Pharm.D. Candidate

Mentor: Steve Smith, R.Ph.

Schnucks Pharmacy, Collinsville, Illinois

16. *Business Plan Proposal for Foundation Care Pharmacy*

Brittney Winkelman, Pharm.D. Candidate

Mentor: Michael Schultz, R.Ph.

Foundation Care Pharmacy, St. Louis, Missouri

Best Business Plan Presentation Award – SIUE School of Pharmacy Poster and Presentation Day 2014 (tie)

Surveys

1. *Piloting a Medication Assistance Programs (MAPs) Toolkit*

Dana Anderson Constant, Pharm.D. Candidate

Mentor: Janice Frueh, Pharm.D.

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

2. *Pilot for Comprehensive Medication Management (CMM) Provided in a Psychiatric Group Home Setting*

Opal Bacon, Pharm.D. Candidate and Gabrielle Spann, Pharm.D. Candidate

Mentor: Kelly Gable, Pharm.D.

Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter 2014

3. *Patient-Centered Perspectives Surrounding Mental Health Treatment*

Jessica Barnfield, Pharm.D. Candidate

Mentor: Kelly Gable, Pharm.D.

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

- 4. *Patients' Willingness to Receive and Pay for Medication Therapy Management Services in a Community Setting***
Matthew Bartlett, Pharm.D. Candidate
Mentor: Jennifer Rosselli, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 5. *Assessing Self-Efficacy Levels of Pharmacy Students During the Ambulatory Care Advanced Practice Pharmacy Experience with Regard to Previous Enrollment in a Diabetes Elective***
Virginia Dickison, Pharm.D. Candidate
Mentor: Jessica Kerr, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 6. *A Survey of Hospice Volunteer Coordinators: Objectives of Current Hospice Volunteer Training Programs***
Julie Elbl, Pharm.D. Candidate
Mentor: Christopher Herndon, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 7. *Assessment of Pathways to Health Pilot***
Stephanie Failing, Pharm.D. Candidate
Mentor: J. Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 8. *Education Outreach: Raising Awareness of Diabetes and Pharmacy Careers:***
Christopher Flanigan, Pharm.D. Candidate
Mentor: Catherine Santanello, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 9. *Diabetes Management in Commercial Driver License Holders***
Kelsey Frichtl, Pharm.D. Candidate
Mentors: Jessica Kerr, Pharm.D. and Erin Behnen, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 10. *Survey to Evaluate Patient Satisfaction with Medication Therapy Management Services Provided in a Community Pharmacy***
Daniel Friedrich, Pharm.D. Candidate
Mentor: Brittany Gisi, Pharm.D.
Walgreens Pharmacy, St. Charles, Missouri
- 11. *Assessment of Clinical Outcomes after Diabetes Education***
Kelly Hanrahan, Pharm.D. Candidate
Mentor: Katherine Petkewicz, Pharm.D.
Veterans Administration CBOC, Elgin, Illinois
Honorable Mention – SIUE School of Pharmacy Poster and Presentation Day 2014

- 12. *Current State of Specialty-Tiers: Benefit-Design Impacts on Therapeutic Outcomes and Legislation in the United States***
Taylor Howell, Pharm.D. Candidate
Mentor: J. Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 13. *Walgreens Bedside Delivery Service: Easing the Transition from Hospital to Home***
Natalie Lauer, Pharm.D. Candidate
Mentor: Christie Reyling, R.Ph.
Walgreens Pharmacy, Collinsville, Illinois
- 14. *Illinois Prescribers' Attitude on the Utility of Medical Marijuana***
Oliver Mills, Pharm.D. Candidate
Mentor: Christopher Herndon, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 15. *Perceptions of Pharmacists as Immunizers in Small Town, Family-Owned Retail Pharmacies***
Katilyn Nihiser, Pharm.D. Candidate
Mentor: Angela Falk, R.Ph.
Sav-Mor Pharmacy, Tuscola, Illinois
- 16. *Implementation of the Pharmacy Practice Model Initiative in Illinois Hospitals***
Kristen Nowdomski, Pharm.D. Candidate
Mentor: William Wuller, R.Ph., M.S.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 17. *A Patient Satisfaction Survey on New Topical Compounded Pain Medications***
Mackenzie Ourth, Pharm.D. Candidate
Mentor: Rod Haselhorst, R.Ph.
Glen-Ed Pharmacy, Edwardsville, Illinois
- 18. *Average Daily Calcium Intake: Is the Population at Goal?***
Emily Papolczy, Pharm.D. Candidate
Mentor: Kara Borowiak, R.Ph.
St. Mary's Hospital, Centralia, Illinois
- 19. *Patient Perceptions of a Pharmacist-Provided Diabetes Self-Management Education Program in the Community Setting***
Kristie Rees, Pharm.D. Candidate
Mentors: Linda Lucke, R.Ph., Starlin Haydon-Greatting, M.S., R.Ph. and Garth Reynolds, R.Ph.
Illinois Pharmacists Association

- 20. *Patient Knowledge of Over-the-counter (OTC) Medications and Barriers to Discussing OTC Medications with a Pharmacist***
Elizabeth Russ, Pharm.D. Candidate
Mentor: Matt Princehorn, Pharm.D.
Osco Pharmacy, Orland Park, Illinois
- 21. *Pharmacist-Delivered Zoster Vaccine: Patient Perceptions and Satisfaction***
Laurie Schou, Pharm.D. Candidate
Mentor: J. Cody Sandusky, Pharm.D.
Kroger Pharmacy, Marion, Illinois
- 22. *Students' Perceived Abilities to Perform Core Domains During Introductory Pharmacy Practice Experiences (IPPEs)***
Cara Schrand, Pharm.D. Candidate
Mentor: Erin Behnen, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 23. *Evaluating the Effectiveness of Electronic Messaging as a Form of Communication Between Pharmacists and Physicians***
Nikolas Shaughnessy, Pharm.D. Candidate
Mentor: Joshua Schmees, Pharm.D.
St. Elizabeth's Hospital, Belleville, Illinois
- 24. *Assessment and Comparison of Learning Styles for Pharmacy, Nursing and Dental Students at a Public Illinois University***
Melissa Smith, Pharm.D. Candidate
Mentor: Lakesha Butler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 25. *Evaluation of a Community Pharmacy Summer Intern Program Manual***
Lynsey Vahle, Pharm.D. Candidate
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter 2014
- 26. *Survey to Evaluate Satisfaction With and Usefulness of Pharmacist Facilitated Diabetes Conversation Map Sessions***
Emily Weidner, Pharm.D. Candidate
Mentor: Christine Reyling, R.Ph.
Walgreens Pharmacy, Collinsville, Illinois

27. *Social Media Use of Pharmacy Students at Five Pharmacy Schools*

Max Weiler, Pharm.D. Candidate

Mentor: Catherine Santanello, Ph.D.

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

28. *Evaluation of the Need for a Spanish Language Course for Pharmacists*

Lauren Youngberg, Pharm.D. Candidate

Mentor: Marcelo Nieto, Ph.D.

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

29. *Vaccination Rates Among Staff in a Community Pharmacy*

Brook Zumaris, Pharm.D. Candidate

Mentor: Miranda Wilhelm, Pharm.D.

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

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

1. *Nebulized Gentamicin versus Nebulized Tobramycin for Ventilator or Tracheostomy-Related Tracheitis in Pediatric Patients without Cystic Fibrosis*

Justin Chen, Pharm.D. Candidate

Mentors: Brittany Martin, Pharm.D. and Lisa Lubsch, Pharm.D.

Ranken Jordan Pediatric Bridge Hospital, St. Louis, Missouri and Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. *Assessing Pharmacist Involvement in Patients' Transition of Care Through Pharmacist Discharge Counseling: A Pilot Program*

Dolly Climaco, Pharm.D. Candidate

Mentor: Matt Clifton, Pharm.D.

Sarah Bush Lincoln Hospital, Mattoon, Illinois

3. *Clinical Outcomes of a Multi-State Pharmacy Coaching Program for Patients with Diabetes*

Kelcey Correll, Pharm.D. Candidate and Anand Patel, Pharm.D. Candidate

Mentors: Starlin Hayden-Greatting, M.S., R.Ph. and Garth Reynolds, R.Ph.

Illinois Pharmacists Association

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4. *Drug Utilization Evaluation of Dosing Combivent® Inhaler*

Amanda Crane, Pharm.D. Candidate

Mentor: Meghan Schrupf, Pharm.D.

Schnucks Pharmacy, Godfrey, Illinois

- 5. *Role of Pharmacists in Monitoring Behavioral Medication Pharmacotherapies Utilizing the Illinois Prescription Drug Monitoring Program***
Kacey Crum, Pharm.D. Candidate
Mentor: Randy Malan, R.Ph.
Illinois Department of Human Services Clinical Director, Springfield, Illinois
- 6. *Measuring True Adherence Rates to Oral Chemotherapy Agents in an Outpatient Setting***
Valerie Currier, Pharm.D. Candidate
Mentor: Jason Harlow, Pharm.D.
Illinois Cancer Care, Peoria, Illinois
- 7. *Assessing Occupational Hazard Risk of Select Compounded Monoclonal Antibodies and Protein Kinase Inhibitors***
Brendan Freitag, Pharm.D. Candidate
Mentor: Kelly Taylor, Pharm.D.
OSF St. Francis Medical Center, Peoria, Illinois
- 8. *Inpatient Chronic Obstructive Pulmonary Disease Exacerbation Treatment in Accordance with Current Guideline Recommendations: A Retrospective Chart Evaluation***
Mallory Klein, Pharm.D. Candidate
Mentor: Jennifer Arnoldi, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 9. *Comparison of Nonprescription Patient Encounters Experienced During Required Community Advanced Pharmacy Practice Experiences and the Didactic Self-Care Curriculum***
Erika Miller, Pharm.D. Candidate
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 10. *Fixed Dosing vs. Weight-Based Dosing of Rasburicase in Oncology Patients***
Westley Moll, Pharm.D. Candidate
Mentor: Keith Hecht, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 11. *A Retrospective Drug Utilization Review of Palivizumab for Respiratory Syncytial Virus Prophylaxis***
Samiyah Munshi, Pharm.D. Candidate
Mentors: Shelly Messenger, R.Ph. and Farouk Sadiq, M.D.
SSM Cardinal Glennon Children's Hospital, St. Louis, Missouri

12. *Adverse Events, Emergency Department (ED) Utilization, and Financial Burden Associated with Warfarin Therapy in Older Adults Presenting to the ED*

Cheyenne Newsome, Pharm.D. Candidate and Allie Ruggless, Pharm.D. Candidate

Mentor: J. Mark Ruscin, Pharm.D.

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

SIUE Senior Showcase Presenter 2014

13. *Evaluation of Rivaroxaban Use in a Teaching Hospital*

Katie Nicholls, Pharm.D. Candidate

Mentor: Jingyang Fan, Pharm.D.

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

14. *Trends of Glucocorticoid-Induced Osteoporosis Preventive Treatment in a Federally Qualified Health Center*

Christopher Selby, Pharm.D. Candidate

Mentor: Dr. Jennifer Rosselli, Pharm.D.

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

SIUE Senior Showcase Presenter 2014

15. *Initiating an Antimicrobial Stewardship: Pharmacy Dashboard*

Tracy Shewell, Pharm.D. Candidate

Mentor: Julia Schimmelpfennig, Pharm.D.

St. Elizabeth's Hospital, Belleville, Illinois

16. *Potentially Inappropriate Medication Use in Long-Term Care Facilities*

Bryce Shilts, 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 Clinical Director

Honorable Mention – SIUE School of Pharmacy Poster Day 2014

17. *Incidence of Red Man Syndrome with Vancomycin in Pediatric Cystic Fibrosis Patients*

Rahim Soltanshahi, Pharm.D. Candidate

Mentor: Lisa Lubsch, Pharm.D.

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

18. *Increasing Medication Availability at a 300-Bed Hospital in Missouri*

Jon Urbina, Pharm. D Candidate

Mentor: Patricia Mitchell-Fitzgerald, R.Ph., M.B.A.

St. Joseph Health Center, St. Charles, Missouri

19. *The Use of Acid Reducers in Pediatric Patients with Cystic Fibrosis*

Gina Westermeier Pharm.D. Candidate

Mentor: Lisa Lubsch, Pharm.D.

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

SIUE Senior Showcase Presenter 2014

20. *An Evaluation of Pediatric Risk Factors for Red Man's Syndrome*

Daniel Willhoit, Pharm.D. Candidate

Mentor: Miranda Nelson, Pharm.D.

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

Other

1. *Neuropathic Pain Case Study: Searching for a Cause through Genomic Data*

Clint Coleman, Pharm.D. Candidate

Mentor: Ronald Worthington, Ph.D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

2. *Can Risk of Allopurinol-Induced SCAR be Inferred from 23andme Genotype Data?*

Katie Donald, Pharm D. Candidate

Mentor: Ronald Worthington, Ph. D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

3. *Genetic Analysis of Possible Adverse Events from Anti-Hypertension Medications in a Subject from the Harvard Personal Genome Project*

Micki Evansco, Pharm.D. Candidate

Mentor: Ronald Worthington, Ph.D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

4. *Production of Diabetes Shared Medical Appointment Program for Veterans Affairs Medical Center*

Elizabeth Flores, Pharm.D. Candidate

Mentor: Jessica Kerr, Pharm.D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

5. *Genetic Analysis of Essential Hypertension Risk in a Subject from the Personal Genome Project*

Stephanie Hufstedler, Pharm.D. Candidate

Mentor: Ronald Worthington, Ph.D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

6. *Global Education Initiative for SIUE-SOP Students*

Erin Johnson, Pharm.D. Candidate

Mentor: Misty Gonzalez, Pharm.D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

7. *Development of a Health Literacy Tool for Assessment of Pharmacy Knowledge in the Deaf Population*

Lindsay McNeely Schmees, Pharm.D. Candidate

Mentor: McKenzie Ferguson, Pharm.D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

8. *Standardized Patient Evaluation of Student Blood Pressure Technique in Physical Assessment Course*

Katelyn Mitchell, Pharm.D. Candidate

Mentor: Carrie Vogler, Pharm.D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

9. *OTC Helper: A Pharmacist's Guide to Self-Care*

Scott Powers, Pharm.D. Candidate

Mentor: John Kocka, RPh.

Walgreens Pharmacy, Glen Carbon, Illinois

10. *Design and Implementation of a Quality Improvement Measure for Transdermal Fentanyl Prescribing*

Kyle Swingler, Pharm.D. Candidate

Mentor: Jennifer Arnoldi, Pharm.D.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois