

Capstone Project Poster Titles 2012 -2013

Bench Research

1. ***Second Order Kinetics of Tetracaine Solvolysis by Propylene Glycol***
Michael Goolsby , Pharm.D. Candidate
Mentors: Tim McPherson, Ph.D., William Kolling, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
2. ***An Investigation into the Catalysis of Peroxynitrite Decomposition
A Focus on Manganese(III) Bis-Hydroxyphenyldipyrromethene Complexes***
Harry Zollars, Pharm.D. Candidate
Mentor: Bill Neumann, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Honorable Mention – SIUE School of Pharmacy Poster Day 2013
SIUE Senior Showcase Presenter 2013

Business Plans

1. ***Hypertension Screening Services for Prescriptions Plus Pharmacy***
Chris Buchheit , Pharm.D. Candidate
Mentor: Lou Schlaefter, R.Ph.
Prescription Plus Pharmacy, Lebanon, Illinois
2. ***Watson's Cooperative***
Debbie Carlson, Pharm.D. Candidate
Mentors: Bart Caldieraro, R.Ph. and Walter Siganga, Ph.D.
Watsons Pharmacy, Greenville, Illinois
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
3. ***Off Site Pharmacy-Based Immunization Program Business Plan***
Jennifer Hund, Pharm.D. Candidate
Mentor: Lou Schlaefter, R.Ph.
Prescription Plus Pharmacy, Lebanon, Illinois
4. ***West Pine Fit Pharmacy: A Business Plan***
James Moreno, Pharm.D. Candidate
Mentor: Bronda Roby, R.Ph.
5. ***Diabetes Awareness and Screening Program in an Independent Pharmacy: A Business Proposal***
Amanda Peterson, Pharm.D. Candidate
Mentor: Paul Khoury, R.Ph.
Khoury Pharmacy Health Mart, Columbia, Illinois

6. *Business Plan for Medicine Shoppe Pharmacy*

Stephen Potts, Pharm. D. Candidate
Mentor: Kathy Sutton
Medicine Shoppe Pharmacy, Fairfield, Illinois

7. *Implementing a Medication Therapy Management Service at an Independent Retail Pharmacy*

Emily Powers, Pharm.D. Candidate
Mentor: Michael Schaltenbrand, R.Ph.
Medicate Pharmacy, East St. Louis, Illinois

Surveys

1. *Patient Satisfaction and Feedback Survey of Medication Therapy Management Services After a Complete Medication Review*

Seth K. Anato, Pharm.D. Candidate
Mentor: Christie Reyling, R.Ph.
Walgreens Pharmacy, Collinsville, Illinois

2. *Retrospective Evaluation of a 30-day Pneumonia Readmission Risk Calculator at a Tertiary Medical Center*

Ryan Birk, Pharm.D. Candidate
Mentors: Jennifer Arnoldi, Pharm.D. and Ginger J Ertel, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
St. John's Hospital, Springfield, Illinois
Best Poster Award – SIUE School of Pharmacy Poster Day 2013

3. *Reasons for Missed Appointments and Medication Non-adherence in the Ambulatory Care Setting*

Julie Buchheit, Pharm.D. Candidate
Mentor: Lakesha Butler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

4. *A Survey of the Current Role of Complementary and Alternative Medicine and Natural Products in Pharmacy Curricula*

Eric Callison, Pharm.D. Candidate
Mentor: Jennifer Rosselli, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

5. *The Patient Perspective of Pharmacist Counseling*

Stephanie Dilbeck Stewart, Pharm.D. Candidate
Mentor: Amanda Randazzo, Pharm.D.
Walgreens Pharmacy, O'Fallon, Illinois

- 6. *Evaluation of the Relationship between Pharmacy Student Grade-Point-Average and Prior Pharmacy Work Experience***
Elise Elliott, Pharm.D. Candidate
Mentor: Deanne Remmert, R.Ph.
Wal-Mart Pharmacy, Highland, Illinois
- 7. *Pharmacy Student's Knowledge and Perceptions of Preparation for Nontraditional Roles in Pharmacy***
Lydia Freed, Pharm.D. Candidate
Mentor: Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 8. *Community Pharmacist Perceptions of Over-the-Counter (OTC) Medication Consultations***
Eric Hellrung, Pharm. D. Candidate
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 9. *Practicing Pharmacists' Knowledge, Skills and Attitudes of Pain Management***
Deborah Helmink, Pharm. D. Candidate
Mentor: Chris Herndon, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 10. *Health-Related Decisions of Pharmacy Students Throughout Their Didactic Career***
J. Benjamin Holt, Pharm.D. Candidate
Mentor: Lisa M. Payne, R.Ph.
Walgreens Pharmacy, St. Louis, Missouri
- 11. *Assessing a Patient Education Video: Discussing Non-pharmacological Treatments to Help Manage Chronic Pain***
Mark Hotop, Pharm.D. Candidate
Mentor: Carrie Vogler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 12. *Perceptions of Southern Illinois University-Edwardsville Advanced Pharmacy Practice Experiential Students on Providing Clinical Services in Community Pharmacy***
Frances Huntley Schneider, Pharm.D. Candidate
Mentor: Amanda Findall, Pharm.D.
Walgreens Pharmacy, Ferguson, Missouri
- 13. *Determining the Level of Adrenal Fatigue Experienced by Students at SIUE School of Pharmacy***
Heidi Imhoff, Pharm.D. Candidate
Mentor: Beaux Cole, Pharm.D.
Medicine Shoppe, Springfield, Illinois

- 14. *The Impact of OCPD Symptoms on Daily Functioning Among Pharmacists***
Laura Jeffers, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 15. *Barriers to Implementing Medication Therapy Management (MTM) in the Community Setting***
Anton Kalna, Pharm.D. Candidate
Mentor: Amanda Baumann, Pharm.D.
Walgreens Pharmacy, High Ridge, Missouri
- 16. *Students' Perception of the Flipped Classroom in the Ambulatory Care Elective***
John Kinscherff, Pharm. D. Candidate
Mentor: Stacey Thacker, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 17. *The Impact of a Diabetes Support/Exercise Group on Patients Living with Diabetes: A Patient Survey***
Ashley Kircher, Pharm.D. Candidate
Mentor: Julia Schimmelpfennig, Pharm.D.
St. Elizabeth's Hospital, Belleville, Illinois
- 18. *Effects of Freezing Fish Oil Capsules on Belching; A Randomized, Controlled, Cross-over Trial***
Kenneth Knutson, Pharm.D. Candidate
Mentor: McKenzie Ferguson, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter 2013
- 19. *Medication Adherence: Effect of Cost on Medication Adherence in Patients With Adequate Health Literacy and Ability to Pay***
Treven Kramer, Pharm.D. Candidate
Mentor: David Hurley, R.Ph.
Harrisburg Medical Center, Harrisburg, Illinois
- 20. *Patient Education Video on "What is Chronic Pain?" Survey***
Joseph Lutterbie, Pharm.D. Candidate
Mentor: Carrie Vogler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 21. *Healthcare Professionals' Perceptions and Knowledge of Mental Illness and Terminology***
Danny Mai, Pharm.D. Candidate
Mentor: Misty Gonzalez, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

- 22. *Pilot Study to Evaluate the Usefulness of MyRecoveryRx.com, a Reference Website for Healthcare Professionals to Determine Abuse Potential of Medications for Patients Recovering from Substance Abuse***
Shannon Moore Hindahl, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter 2013
- 23. *Evaluation of Pharmacist's Awareness and Self-Efficacy of Resources Available to them for Spanish Speaking Patients***
Morris Pearson, Jr., Pharm.D. Candidate
Mentor: Radhika Devraj, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 24. *Patients' Knowledge of Common Antihistamine and Pain Reliever Over-the-Counter Medications***
Sarah Repking, Pharm.D. Candidate
Mentor: Kim Yager, R.Ph.
Walgreens Pharmacy, Effingham, Illinois
- 25. *Evaluation of the State of Shared Governance Within Pharmacy Education in the Midwest United States***
Abigail Ruyle Eilerman, Pharm.D. Candidate
Mentors: Gireesh Gupchup, Ph.D., and Cassandra Maynard, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 26. *Assessing Empathy and Self-Efficacy Levels of Pharmacy Students Utilizing Progressive Case Simulations within a Diabetes Elective***
Andrew Schwierjohn, Pharm.D. Candidate
Mentor: Jessica Kerr, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter 2013
- 27. *Evaluation of Antibiotic Compliance in the Community Pharmacy Setting***
Michael Sheppard, Pharm.D. Candidate
Mentor: Shannon Buhmann, Pharm.D.
Walgreens Pharmacy, Maryville, Illinois
- 28. *Prevalence of Health Care Disparities***
Jessica Showen, Pharm.D. Candidate
Mentor: Cathy Santanello, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 29. *"This Side of the Dirt": A Program to Educate Teenagers About Drug Abuse and Addiction***
Heather Small Schultz, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

- 30. *Assessing Student Learning of the Flipped Classroom in an Ambulatory Care Elective***
Roxane Spann, Pharm.D. Candidate
Mentor: Stacey Thacker, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 31. *Pharmacists' Current Perspectives on Pharmacogenomics and Direct-to-Consumer Genetic Testing***
Katherine Tate, Pharm.D. Candidate
Mentor: Ronald Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 32. *Using a Closed Facebook Group as a Discussion Board in a Microbiology and Immunology Course in a School of Pharmacy Setting***
Brian Todd, Pharm.D. Candidate
Mentor: Cathy Santanello, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 33. *Parent and Caregiver Perceptions Related to the Use of Over-the-Counter Medications***
Sarah Trombetta, Pharm.D. Candidate
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 34. *The Impact of Pain Control Interventions Used During the Intrapartum Period and Parturition on Postpartum Pain Outcomes: A Survey Based Research Project***
Tiffany Troutman Grzegorzewski, Pharm.D. Candidate
Mentors: Erik Cornett, R.Ph. and Dr. Scott Joyner DO, OB/GYN
Natural Medicine Apothecary, Herrin, Illinois
- 35. *Barriers that Prevent Adults from Being Immunized***
Jessica Turner, Pharm.D. Candidate
Mentor: Jason Waggoner, R.Ph.
CVS Pharmacy, Matton, Illinois
- 36. *Evaluation of Interprofessional Ethics Seminar with Pharmacy and Dental Students***
Sarah Wagner, Pharm.D. Candidate
Mentor: Terri Poirier, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 37. *Evaluation of Mental Health Treatment Perspectives and Stigmas in the Rural Midwest***
Chris Walters, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 38. *SIUe Pharmacy Students' Perception on their Preparedness for APPE Rotations***
Lynsey Yording, Pharm.D. Candidate
Mentor: Stacey Thacker, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

39. *Development, Implementation, and Evaluation of a Supermarket Nutrition Tour Facilitated by Community Pharmacists*

Katelynn Zumwalt, 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. *Evaluation of Fentanyl Transdermal Transport System Prescribing Patterns at a Teaching Hospital*

Annamaria Balagyan, Pharm.D. Candidate

Mentor: Jennifer Arnoldi, Pharm.D.

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

2. *Assessment of Sedation in Mechanically Ventilated Patients in a Medical Intensive Care Unit*

Kristin Courtright, Pharm.D. Candidate

Mentor: Katie Ronald, Pharm.D.

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

3. *Platelet Recovery in Hospitalized Patients with Thrombocytopenia after Changing beta-lactam Therapy*

Katelyn Daniels, Pharm.D. Candidate

Mentors: Scott Bergman, Pharm.D., Julie Podlasek, Pharm.D., Shingo Chihara, M.D.

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

Memorial Medical Center, Springfield, Illinois

Honorable Mention – SIUE School of Pharmacy Poster Day 2013

4. *Ibuprofen Arginine for the Treatment of Patent Ductus Arteriosus: Safety and Efficacy Analysis*

Saima Farooqui, Pharm.D. Candidate

Mentor: Kelly Burch, Pharm.D.

Mercy Hospital, St. Louis, Missouri

5. *An Evaluation of Hyperglycemia During Induction Therapy in Treatment of Acute Lymphoblastic Leukemia*

Brice Foose, Pharm.D. Candidate

Mentors: Miranda Nelson, Pharm.D., Rachel Langley, Pharm.D., Chris McPherson, Pharm.D.

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

St. Louis Children's Hospital, St. Louis, Missouri

6. *Analysis of the Follow-up and Treatment of Vitamin D Deficient Patients*

Steven Gibson, Pharm.D. Candidate

Mentor: Jennifer Rosselli, Pharm.D.

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

7. *Evaluation of the Use of Ondansetron 32 mg Single Intravenous Dose in Hospitalized Patients at a Community Teaching Hospital*

Laura Gleason, Pharm.D. Candidate

Mentor: Keith Hecht, Pharm.D.

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

8. *An Evaluation of Acid Suppression Therapy Utilization in a Teaching Hospital*

LeeAnn Hart, Pharm.D. Candidate

Mentor: Cassandra Maynard, Pharm.D.

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

9. *High Dose Ceftazidime for Patients with Cystic Fibrosis: A Retrospective Chart Review*

Brooke Hasquin, Pharm.D. Candidate

Mentor: Lisa Lubsch, Pharm. D.

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

10. *Evaluation of Stress Ulcer Prophylaxis Appropriateness Before and After Staff Education in the Intensive Care Unit*

Christina Hayes, Pharm.D. Candidate

Mentor: Michelle Schymik, Pharm.D.

Deaconess Health System, Evansville, Indiana

11. *Inappropriate Medication Use By Community Dwelling Elders in Southern Illinois*

Erhardt Heisner, Pharm.D. Candidate

Mentor: Chris Herndon, Pharm.D.

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

12. *A Retrospective Chart Review of Methicillin-resistant Staphylococcus Aureus Treatment in a Rural Hospital*

Kyle Ingram, Pharm.D. Candidate

Mentor: Matt Clifton, Pharm.D.

Sarah Bush Lincoln Health Center, Mattoon, Illinois

13. *Investigation of a Relationship Between Pharmacy Student Didactic Academic Achievement and Performance on Advanced Pharmacy Practice Experiences*

Sal Khondaker, Pharm.D. Candidate

Mentor: Erin Timpe Behnen, Pharm.D.

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

14. *Analysis of Adherence to ADA Standards of Care*

Christina Ley, Pharm.D. Candidate

Mentor: Jennifer Rosselli, Pharm. D.

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

SIUE Senior Showcase Presenter 2013

- 15. *Time to Therapeutic INR: A Comparison of Physician to Pharmacist Warfarin Management***
Jessica Luebshaw, Pharm.D. Candidate
Mentor: Elizabeth Harthan, Pharm.D.
OSF St. Francis Medical Center, Peoria, Illinois
- 16. *Association of Adverse Drug Events and Selected Hospital Outcomes in Patients Aged 65 and Older***
Adam Lux, Pharm.D. Candidate
Mentors: J. Mark Ruscin, Pharm.D., Steve Verhulst, Ph.D. and Steve Scaife, M.S.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Southern Illinois University, School of Medicine, Springfield, Illinois
SIUE Senior Showcase Presenter 2013
- 17. *Accuracy of Allergies within the Electronic Health Record of a Tertiary Care Hospital***
David Oxencis, Pharm.D. Candidate
Mentor: Alisa Groesch, Pharm.D.
Memorial Medical Center, Springfield, Illinois
- 18. *Establishing a Baseline Measurement of Medication Errors during the Medication Reconciliation Process at a Southern Illinois Veteran Affairs Hospital***
Ronnie Ray, Pharm.D. Candidate
Mentor: Eric Gibbs, Pharm.D.
Veterans Affairs Medical Center, Marion, Illinois
- 19. *Improving MTM in Community Pharmacies: A Study on Techniques Used to Improve Usage of MTM in Community Pharmacies***
Brian Russell, Pharm.D. Candidate
Mentor: Lance Lomax, R.Ph.
Walgreens Pharmacy, St. Louis, Missouri
- 20. *Impact of Pharmacist Intervention on 30 Day Readmission Rates***
Derek Smith, Pharm.D. Candidate
Mentors: J. Mark Ruscin, Pharm.D., Steve Verhulst, Ph.D. and Steve Scaife, M.S.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Southern Illinois University, School of Medicine, Springfield, Illinois
- 21. *Fluoroquinolone Cross-resistance of Pseudomonas aeruginosa***
Britany Walls, Pharm.D. Candidate
Mentor: Katie Ronald, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 22. *A Retrospective Evaluation of Gentamicin Use in the Neonatal Intensive Care Unit***
Doug Wilson, Pharm.D. Candidate
Mentor: Jerry Krausz, R.Ph.
SSM Cardinal Glennon Children's Medical Center, St. Louis, Missouri

23. Retrospective Evaluation Identifying Inappropriately Formulated Medications in Patients Prior to Roux-en-Y Gastric Bypass Surgery

Ian Wilson, Pharm.D. Candidate
Mentor: Michael Short, Pharm. D.
Memorial Medical Center, Springfield, Illinois

Other

1. Induced Pluripotent Stem Cells: Science or Science Fiction

Christopher Anderson, Pharm.D. Candidate
Mentor: Ronald Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

2. Improving Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Scores with Nursing Electronic Alerts

Jena Cummins, Pharm.D. Candidate
Mentors: Joshua Schmees, Pharm.D.
St. Elizabeth's Hospital, Belleville, Illinois

3. Creation of Lab Video Modules for Use in a Self-Care Required Course

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

4. Genetic Analysis of Disease Risk in a Patient with Barrett's Esophagus Intestinal Metaplasia

Han Luu, Pharm.D. Candidate
Mentor: Ronald E. Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

5. Standardized Patient Evaluation of Student Blood Pressure Technique

Audrey Pruemmer, Pharm.D. Candidate
Mentor: Carrie Vogler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

6. Pharmacogenomics of Some of the Most Commonly Prescribed Drugs in the U.S.

Maxwell Slazinik, Pharm.D. Candidate
Mentor: Ronald Worthington, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

7. Design and Implementation of a Service Learning Course and Project: Vaccine Education

Rachel Stansbery, Pharm.D. Candidate
Mentor: Teri Kerr, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

8. *A Health Care Learner's Guide to Medication Assistance Programs in Springfield, IL.*

Tara Warren, Pharm.D. Candidate

Mentor: Janice Frueh, Pharm.D.

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