

Capstone Project Poster Titles 2010 -2011

Bench Research

- 1. *Effect of PKC Activation on Cell Motility in EB1 Knock-Down Mouse Melanoma Cells***
Jeanine Cain, Pharm.D. Candidate
Mentor: Joseph Schober, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Best Poster Award – Illinois State Academy of Science – Cell, Molecular and Developmental Biology Division
- 2. *Sequential and Combination Vancomycin Plus Rifampin Therapy for Staphylococcus aureus Biofilm Infections***
Jennifer Cho, Pharm.D. Candidate
Mentor: Scott Bergman, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter
- 3. *Synthesis of Novel Anticonvulsant Compounds***
Lacey D. Rodgers, Pharm.D. Candidate
Mentor: A. Michael Crider, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 4. *The Compatibility of a Mixture of Four Ophthalmic Drops Plus Sterile Lidocaine Jelly Used as Preoperative Therapy for Cataract Surgery***
Erika Hahn, Pharm.D. Candidate
Mentors: William Neumann Ph.D., Tim McPherson Ph.D., Andrew Neath Ph.D., William Kolling Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter
Best Poster Award – ICHP Spring Meeting 2011

Business Plans

- 1. *Korberg Pharmaceutical Manufacturing and Pharmacy Service Provider***
Rosemary Amponsaa-Korang, Pharm.D. Candidate
Mentor: Walter Siganga, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 2. *Therapeutic Diabetic Shoes Business Plan***
Dallas Basinger, Pharm.D. Candidate
Mentor: Jason Kasiar, R.Ph.
Beck's Drug, Eldorado, Illinois
- 3. *Progress West HealthCare Center, Outpatient Anticoagulation***
Shannon Byrne, Pharm.D. Candidate
Mentors: Becky Ridenhour, R.Ph. and Brad McNew, R.Ph.
Progress West HealthCare Center, O'Fallon, Missouri
Honorable Mention – SIUE School of Pharmacy Poster Day 2011
- 4. *A Telepharmacy Business Model for Independent Pharmacies***
Josh Chambliss, Pharm.D. Candidate
Mentor: Todd Evers, R.Ph.
Evers Pharmacies, Collinsville, Illinois
- 5. *Establishing a 340b Pharmacy at a Community Mental Health Center***
Michelle Chesnut, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 6. *Implementation of a Pharmacist Run Vaccination Clinic at Walgreens Pharmacy in Poplar Bluff, Missouri***
Mike Crunk, Pharm. D. Candidate
Mentor: Kasey Schaffer, Pharm. D.
Walgreens Pharmacy, Poplar Bluff, Missouri
- 7. *Developing an Anticoagulation Clinic in a Rural Hospital: A Business Plan***
Lance A. Endsley, Pharm.D. Candidate
Mentor: Steve Dawkins, R.Ph., MHA
Fairfield Memorial Hospital, Fairfield, Illinois
- 8. *Student Pharmacists' Impact on Jamaican Healthcare: Implementation of a Clinical Service Plan for Hypertension and Type 2 Diabetes***
Caitlin Hoelscher, Pharm.D. Candidate and Jessie Mueller, Pharm.D. Candidate
Mentor: Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

9. *Implementation of an Antimicrobial Stewardship Program in a Small Midwestern Hospital: Business Plan*

Ray Katke, Pharm.D. Candidate
Mentor: Danielle Rahman, Pharm.D.
Gateway Regional Medical Center Walgreens, Granite City, Illinois

10. *Assessing the Cost of Providing Pharmacy Services for the Jamaican Dental Mission Trip*

Rachel Kaveler-Mueller, Pharm.D. Candidate
Mentor: Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Honorable Mention – SIUE School of Pharmacy Poster Day 2011

11. *Doehring Pharmacy: Telepharmacy Business Plan*

Greg McFarland, Pharm.D. Candidate
Mentor: Tony Doehring, R.Ph.
Doehring Pharmacy, Okawville, Illinois

12. *An Anticoagulation Clinic Business Plan*

Shyannon Moore McFarland, Pharm.D. Candidate
Mentor: Stacey Thacker, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
Honorable Mention – SIUE School of Pharmacy Poster Day 2011

13. *Developing Pharmacy Services for a Student-Run Medical Outreach Clinic for the Homeless*

Kristen Ochs, Pharm.D. Candidate
Mentor: Janice Frueh, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

14. *Implementation of a Medication Therapy Management Program in a Community Pharmacy*

Jared Parr, Pharm.D. Candidate
Mentor: Jo Ellen Miller, Pharm.D.
Kroger Pharmacy, Marion, Illinois

15. *Starting a PGY2 Psychiatric Residency: A Business Plan*

Kelly Struempf, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

16. *Incorporating Supermarket Educational Tours into a Community Pharmacy's Services: A Business Plan*

Jennifer Tucker Schneider, Pharm.D. Candidate
Mentor: Dan Fieker, R.Ph.
Family Care Pharmacy, Highland, Illinois

17. *A Business Plan for Designing and Implementing a Telepharmacy*

Todd Weitekamp, Pharm. D. Candidate
Mentor: Dan Fieker, R.Ph.
Family Care Pharmacy, Highland, Illinois

18. *Proper Disposal of Pharmaceutical Waste: A Business Plan*

Christopher J. Workman, Pharm.D. Candidate
Mentor: Michael D. Rohrer, R.Ph.
Abraham Lincoln Memorial Hospital, Lincoln, Illinois

19. *An Antimicrobial Stewardship Program Business Plan*

Nathan Yarbor, Pharm.D. Candidate
Mentor: Michelle Schymik, Pharm. D.
Deaconess Hospital, Evansville, Indiana

Surveys

1. *The Impact of Patient Education on Willingness to Receive the Influenza Vaccine*

Danelle Asher, Pharm.D. Candidate
Mentor: Heather Sucech, Pharm.D.
Walgreens Pharmacy, Springfield, Illinois

2. *Employer Survey of Southern Illinois University of Edwardsville-School of Pharmacy Graduates' Preparedness for the Workplace*

Michael Balcer, Pharm.D. Candidate
Mentor: Erin Timpe, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

3. *Willingness of Patients to Utilize Pharmacist Based Travel-Immunization Services in the Community Setting*

Kodi Cast, Pharm.D. Candidate
Mentor: Christopher Smith, Pharm.D.
Walgreen's Pharmacy, St. Charles, Missouri

4. *Dental Students Perception of the Benefit of Having Pharmacy Students Participate on the SIU Jamaica Dental Mission Trip*

Robert Connell, Pharm.D. Candidate
Mentor: Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

5. *Improving Access to Diabetes-Related Services*

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

6. *Patient Perception and Knowledge of Acetaminophen in a Large Family Medicine Service*

Dawn Dankenbring, Pharm.D. Candidate
Mentor: Chris Herndon, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

- 7. *Substance Abuse and Addiction Policies for Colleges and Schools of Pharmacy
A National Survey***
Darren DeLong, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 8. *Demodectic Mange in Canines: An Analysis of FDA Approved and Non-FDA Approved Medications***
Kimberly DeRosier, Pharm. D. Candidate
Mentor: Cathy Santanello, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 9. *Pharmacist's Opinion: Does Technician Certification Improve Competency?***
Erin M. Ditch, Pharm. D. Candidate
Mentor: Amy Cohron, Pharm.D.
Schnuck's Pharmacy, St. Louis, Missouri
- 10. *Illinois Pharmacists Perception and Willingness to Participate in Community Based Vaccination Clinics***
Brian Eddings, Pharm.D. Candidate
Mentor: James Troiano, Pharm. D.
CVS Pharmacy, Illinois
- 11. *A Influence of the Perceived Risk of Cervical Cancer on Human Papiloma Virus Vaccination Among Southern Illinois University Edwardsville Pharmacy Students***
Amanda Findall, Pharm.D. Candidate
Mentor: Keith A. Hecht, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 12. *Superior Product for the Treatment and Control of Flea Infestations in Domesticated Animals: A Survey of Pet Owners***
Amanda Garner, Pharm.D. Candidate
Mentor: Cathy Santanello, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 13. *Medication Awareness Program: Assessment of the Participants Interactions with Their Pharmacist***
Timothy Gleason, Pharm.D. Candidate
Mentor: Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 14. *Knowledge of Chronic Pain: An Analysis of Health Literacy***
Jake Griffin, Pharm.D. Candidate
Mentor: Radhika Devraj, Ph.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter

15. *Preceptors Perception of the Introductory Pharmacy Practice Experience Program at Southern Illinois University Edwardsville School of Pharmacy*

Chelsee Huggins, Pharm.D. Candidate

Mentor: Theresa Kerr, Pharm.D.

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

16. *Implementation of Take Care Clinic in a Community Setting*

Saba Khan, Pharm. D. Candidate

Mentor: Michelle Leung, Pharm.D.

Walgreens Pharmacy, Chicago, Illinois

17. *Pharmacist-Provided Education on Shingles and Shingles Prevention in the Assisted Living Community and Its Impact on Immunization Interest and Patient Knowledge.*

Kara Levek, Pharm.D. Candidate and Meagan Murphy, Pharm.D. Candidate

Mentors: Brian S. Heaney, R.Ph. & Steven J. Zielinski, Pharm.D.

Shop N' Save Pharmacy, St. Louis, Missouri

18. *Efficacy of an Educational Intervention in Enhancing the Counseling Ability of Community Pharmacists in Health Maintenance*

David Libbra, Pharm.D. Candidate

Mentor: Mark McAninch, R.Ph.

Rinderer's Pharmacy, Bethalto, Illinois

19. *Patients' Perception of Risk for Developing Type 2 Diabetes Mellitus*

Dustin Morris, Pharm.D. Candidate

Mentor: Wayne Piotrowski, R.Ph.

CVS Pharmacy, Salem, Illinois

20. *Canines with Cardiomyopathy: Are Current Treatments Prolonging Life Expectancies?*

Marla Musso, Pharm.D. Candidate

Mentor: Cathy Santanello, Ph.D.

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

21. *Assessment of Medication Adherence in an Immigrant and Refugee Psychiatric Patient Population*

Nell Pieper, Pharm.D. Candidate

Mentor: Kelly Gable, Pharm.D.

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

Best Poster Award – SIUE School of Pharmacy Poster Day 2011

22. *The Awareness of Nitroglycerin Myths Amongst Healthcare Professionals*

Justine Pittenger, Pharm.D. Candidate

Mentor: Cassandra Maynard, Pharm.D.

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

23. *Assessing the Need for, Educating on, and Implementing the File of Life Program in Central Illinois: A Survey*

Kristy Purcell, Pharm.D. Candidate and Jennifer Scharping, Pharm.D. Candidate

Mentor: Theresa Kerr, Pharm.D.

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

24. *Evaluation of a Trial Run of an Objective Structured Clinical Exam in a School of Pharmacy*

Matthew Schneider, Pharm.D. Candidate

Mentor: Erin Timpe, Pharm.D.

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

25. *A Profile of Pharmacist Administered Immunization Programs in Illinois*

Michael Speck, Pharm.D. Candidate

Mentor: Mike Patton, Executive Director

Illinois Pharmacists Association, Springfield, Illinois

26. *Providing Optimal Care to the Chronic Pain Patient in the Community Pharmacy: A Patient Survey*

Erron S. Swick, Pharm.D. Candidate

Mentor: Chris Herndon, Pharm.D.

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

27. *Prevalence, Awareness, and Control of Hypertension in a Chicago Suburban Community*

Paulina Szczerba, Pharm.D. Candidate

Mentor: Gaurang Patel, Pharm.D.

Walgreens Pharmacy, Arlington Heights, Illinois

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

1. *Evaluation of Standard-Dose Heparin Protocol in Obese Patients*

Chris Bierman, Pharm.D. Candidate

Mentor: Jingyang Fan, Pharm.D.

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

2. *The Effect of Therapeutic Interchange on the Accuracy of Discharge Medication Reconciliation*

Greg Booth, Pharm.D. Candidate

Mentor: Jennifer Arnoldi, Pharm.D.

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

3. *Protocol Development for the Management of Opioid Withdrawal in an Acute Care Inpatient Setting*

Ritika Chopra, Pharm.D. Candidate

Mentor: Misty Gonzalez, Pharm.D.

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

- 4. *A Retrospective Chart Review of Core Diabetes Measures within a Primary Care Clinic***
Daniel Doddroe, Pharm.D. Candidate
Mentor: Janice Frueh, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 5. *The Influence of Psychiatric Medications on Metabolic Syndrome and Diabetes***
Michael Geisler, Pharm.D. Candidate
Mentor: Randy Malan, R.Ph.
Illinois Department of Mental Health Services, Springfield, Illinois
- 6. *Interim Analysis of Pharmacist-Delivered Diabetes Care***
Justinne Guyton, Pharm.D. Candidate
Mentor: Jennifer Rosselli, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 7. *Pharmacy-Based Vancomycin Dosing and Changing Renal Function: A Single-center Retrospective Review***
Marissa Herman, Pharm.D. Candidate
Mentor: Julia Schimmelpfennig, Pharm.D.
St. Elizabeth's Hospital, Belleville, Illinois
- 8. *Medication Reconciliation for Geriatric Patients through Transition of Care***
J. Marq House, Pharm.D. Candidate
Mentor: Carrie Vogler, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 9. *The Concurrent Use of Cholinesterase Inhibitors and Anticholinergics in Elderly Patients***
Ken Kinsinger, Pharm.D. Candidate
Mentor: J. Mark Ruscini, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 10. *Evaluation of Erythropoiesis-Stimulating Agent Use in an Outpatient Cancer Center***
Laura Knuf, Pharm.D. Candidate
Mentor: Keith Hecht, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 11. *Risk Factors Associated with Hyperglycemia During Induction Therapy in Children with Acute Lymphoblastic Leukemia (ALL)***
Dennis LaChance, Pharm.D. Candidate
Mentor: Melissa Heigham, Pharm.D.
St. Louis Children's Hospital, St. Louis, Missouri
- 12. *Rates of Thrombocytopenia Induced by Targeted Gram-Positive Antibiotic Therapy***
Thomas J. Majka Jr., Pharm.D. Candidate
Mentor: Keith A. Hecht, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

- 13. *Anemia and Falls: A Retrospective Chart Review in the Long Term Care Setting***
Michelle Marek, Pharm.D. Candidate
Mentor: James Byars, R.Ph.
Omnicare, Belleville, Illinois
- 14. *Evaluation of Serum Bactericidal Titers (Schlichter Tests) for Staphylococcus aureus.***
Gary Pinkley, Pharm.D. Candidate
Mentor: Scott Bergman, Pharm. D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 15. *The Effect of a Team-based Pharmacist in a Pediatric Hospital Setting on Discharge Prescriptions***
Sara Robinson, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 16. *Self-Reported Symptoms Before and After Treatment with Individualized Hormone Replacement Therapy***
Mark Sly, Pharm.D. Candidate
Mentor: Steve Pipert, R.Ph.
Rinderer's Pharmacy, Bethalto, Illinois
- 17. *Pilot Program to Reduce Medication Reconciliation Errors***
Alan Smith, Pharm.D. Candidate
Mentor: Kirsten Myers, Pharm.D.
Hannibal Regional Hospital, Hannibal, Missouri
- 18. *Retrospective Analysis of Single Class and Multi Class Polypharmacy Agents on Prevalence of Type 2 Diabetes Mellitus or Associated Risk Factors***
Joshua Thompson, Pharm.D. Candidate
Mentor: Randy Malan, R.Ph.
Illinois Department of Mental Health, Springfield, Illinois
- 19. *Use of Inhaled Tobramycin as a Treatment in Cystic Fibrosis Pulmonary***
Amy Vennell, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois
- 20. *A Retrospective Review of Error-Prone Abbreviations in a Community Pharmacy***
Leslie Vonderhaar, Pharm.D.
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, School of Pharmacy, Edwardsville, Illinois

Other

1. *Correlation of DXA and Heel Ultrasonometer T-score Results*

Krista Brown, Pharm.D. Candidate

Mentor: Miranda Wilhelm, Pharm.D.

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

SIUE Senior Showcase Presenter

2. *Robotic Prescription Filling Machine in a Community Pharmacy: How Much Time is Really Saved?*

Daniel Engelkens, Pharm.D. Candidate

Mentors: Cindy Wuller, M.S. and McKenzie Ferguson, Pharm.D.

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

3. *The Prevalence of Noninferiority and Equivalence Studies in Major Medical Journals*

Jeff Harp, Pharm.D. Candidate

Mentors: Erin Timpe, Pharm.D. and McKenzie Ferguson, Pharm.D.

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

4. *Medication Discrepancies Among Older Adults Discharged from an Acute Care Setting Found During Pharmacist Home Visits*

Lauren Tedlock, Pharm. D. Candidate

Mentor: J. Mark Ruscin, Pharm. D.

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

5. *Initiation, Acceptance, and Implementation of a Novel Worksheet and an Updated Patient Controlled Analgesia (PCA) Order Set*

Eric Yurcisin, Pharm.D. Candidate

Mentors: Matt Hammer, Pharm.D., Chris Herndon, Pharm.D. and

Julia Schimmelpfennig, Pharm.D.

St. Elizabeth's Hospital, Belleville, Illinois