

Capstone Project Poster Titles 2008 -2009

Bench Research

1. *Testing Twin Zygosity Using Short Tandem Repeat*

Ryan Hanewinkel, Pharm.D. Candidate

Mentor: Ron Worthington, Ph.D.

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

2. *Stability of Sodium Bicarbonate in Solution for Intravenous Infusion*

Jennifer Lurk, Pharm.D. Candidate

Mentor: William Kolling, Ph.D. and Tim McPherson, Ph.D.

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

Honorable Mention – SIUE School of Pharmacy Poster Day 2009

SIUE Senior Showcase Presenter

3. *The Combined and Individual Effects of Epothilone B and SRC Kinase Inhibitor PP2 on Breast Cancer Cell Motility*

Jason E. Scott, Pharm.D. Candidate

Mentor: Joseph Schober, Ph.D.

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

4. *Indoline Derivatives and Their Novel Activity on Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)*

Terry Sullivan, Pharm.D. Candidate

Mentor: Marcelo Nieto, Ph.D.

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

5. *Effect of Reactant Concentration, Reaction Temperature, and Polymer in Controlling the Particle Size of Silver Sulfadiazine*

Minh Tran, Pharm.D. Candidate

Mentor: Joseph Schober, Ph.D. and William Kolling, Ph.D.

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

6. *Age of Eluate in Preparation of Tc^{99m}-exametazime*

Lee Zeller, Pharm.D. Candidate

Mentor: Quent Besing, R.Ph.

GE Healthcare, St. Louis, Missouri

Business Plans

1. *Community-Based Vaccine Clinic Business Plan*

Tim Barton, Pharm.D. Candidate
Mentor: Jason Kasiar, R.Ph.
Beck's Drug, Eldorado, Illinois

2. *Anticoagulation Clinics in Community Pharmacies - A workbook containing basic steps and ideas for developing a business plan*

Jordan Bills, Pharm.D. Candidate
Mentor: Pat Curran, R.Ph.
Medicine Shoppe International, St. Louis, Missouri

3. *Beck's Drugs Anticoagulation Clinic - Business Proposition and Implementation Strategy*

Blake Clayton, Pharm.D. Candidate
Mentor: Jason Kasiar, R.Ph.
Beck's Drug, Eldorado, Illinois

4. *Immunization Services for Medicine Shoppe Pharmacy: A Business Plan*

Mary Elliott, Pharm.D. Candidate
Mentor: Pat Curran, R.Ph.
Medicine Shoppe International, St. Louis, Missouri

5. *Medicine Shoppe Diabetes Awareness and Screening Program: A Business Proposal/Plan*

Jill Finley, Pharm.D. Candidate
Mentor: Chrissy Ellegood, MSW
Medicine Shoppe International, St. Louis, Missouri

6. *Diabetes Clinic : Business Strategy and Plan*

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

7. *Diabetes: Risks and Prevention Business Plan*

Deonna Madison-Wooten, Pharm.D. Candidate
Mentor: Pam Marshall, R.Ph.
Walgreens, St. Louis, Missouri

8. *Glucose Meter Download Service*

David Mattiuz, Pharm.D. Candidate
Mentor: Miranda Wilhelm, Pharm.D.
Southern Illinois University Edwardsville, Edwardsville, Illinois

- 9. *Implementing U.S. Diabetes Conversation Maps® into a Community Pharmacy Setting***
Ashley McCoy, Pharm.D. Candidate
Mentor: Vallery Huston, Pharm.D.
Walgreens, Springfield, Illinois
- 10. *The Financial Benefit of Expanding MTM Services in a Community Setting in a Small Rural Town: Business Plan***
Candace Oliver, Pharm.D. Candidate
Mentor: Amanda Mathews, R.Ph.
Hy-Vee Pharmacy Manager, Centerville, Iowa
- 11. *Justification for the Provision of 24-Hour Pharmacy Coverage in a Community Hospital***
Becky Salmons, Pharm. D. Candidate
Mentor: Lynn Fromm, R.Ph.
Anderson Hospital, Maryville, Illinois
- 12. *Business Plan for Purchasing A Franchise Pharmacy***
Jessica Taylor, Pharm.D. Candidate
Mentor: Sam Bae, R.Ph.
Medicine Shoppe, St. Louis, Missouri
- 13. *Evers Pharmacy Lipid-Management Program***
Jessica VanArsdale, Pharm.D. Candidate
Mentor: Todd Evers, R.Ph.
Evers Pharmacies, Collinsville, Illinois

Surveys

1. *A Survey of the Utilization of the Illinois Prescription Drug Monitoring Program by Community Pharmacists*

Andrew Brand, Pharm.D. Candidate and Matthew Layman, Pharm.D. Candidate
Mentor: Christopher Herndon, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter

2. *Pharmacy Based Diabetes Education: Will Patients Pay?*

Stephan Draughan, Pharm.D. Candidate
Mentor: Starlin Haydon-Greatting, MS, R.Ph.
Illinois Pharmacists Association, Springfield, Illinois

3. *A Survey of Smoking Cessation and the Illinois Smoke Free Act*

Tyler Gehlbach, Pharm.D. Candidate
Mentor: Bruce Stacey, R.Ph.
Stacy's Family Pharmacy, Lincoln, Illinois

4. *A Nutrition Service Learning Project*

Keith Gibson, Pharm.D. Candidate
Mentor: Teri McCullough, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

5. *What do People Want Out of Retail Pharmacy MTM Services?*

Margo Hanerhoff, Pharm.D. Candidate
Mentor: Kevin James, R.Ph.
Medicine Shoppe International, St. Louis, Missouri

6. *A Survey Conducted to Evaluate Factors and Expectations that Influence a Patient's Selection in a Community Pharmacy*

Brandon Hardiman, Pharm.D. Candidate
Mentor: Janet Grigg, R.Ph.
CVS Pharmacy, Greenville, Illinois

7. *A Survey of Methadone Safety Monitoring Practices of Pain Specialists in Illinois*

Cory Loepker, Pharm. D. Candidate
Mentor: Christopher Herndon, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

8. *Measuring the Impact of Rising Gasoline Prices on the Ability of Medically Indigent Patients to Meet Their Healthcare Needs*

Ryan Massey, Pharm.D. Candidate
Mentor: J. Christopher Lynch, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

- 9. *Evaluation of Health Literacy Knowledge and Ability Among Pharm.D. Students***
Erich Milgrim, Pharm. D. Candidate
Mentor: Radhika Devraj, Ph.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
- 10. *E-prescribing...the way of the future?***
Samantha Parker, Pharm.D. Candidate
Mentor: Christine Reyling, R.Ph.
Walgreens Pharmacy, Swansea, Illinois
- 11. *A Survey of Prescription Opioid Misuse by Professional Students: A Comparison Between School of Pharmacy and School of Dental Medicine Students Enrolled at Southern Illinois University Edwardsville***
Goldie Peters, Pharm.D. Candidate
Mentor: Christopher Herndon, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
- 12. *Service Learning In United States Pharmacy Curriculum***
Alphy Roy, Pharm.D. Candidate
Mentor: Teri McCullough, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
- 13. *Survey of Medication Therapy Management Involvement by Central and Southern Illinois Independent Pharmacies***
Jarod Schaltenbrand, Pharm.D. Candidate
Mentor: Bart Caldieraro, R.Ph.
Watson's Drug Store, Greenville, Illinois
- 14. *Faculty Perceptions of Substance Abuse and Addiction Education Among Illinois Colleges of Pharmacy***
Michael Schneider, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
- 15. *Increasing Flu Shot Rates Through Increased Educational Materials and Advertisement***
Andrea Schutte, Pharm.D. Candidate
Mentor: Tonya Hill, R.Ph.
Sav-Mor Pharmacy, Neoga, Illinois
- 16. *Protection from atopic disease with early and late life exposures to animals***
Brycen Short, Pharm.D. Candidate
Mentor: Todd Bryant, R.Ph.
CVS Pharmacy, Illinois

17. *The Effectiveness of Medication Counseling in a Rural Community Hospital*

Jana A. Smith, Pharm. D. Candidate

Mentor: Mike E. Craig, R.Ph.

Sarah Bush Lincoln Health Center, Mattoon, Illinois

18. *Illinois' Prescription Information Library: An Outcome Survey*

Travis Willeford, Pharm.D. Candidate

Mentor: Randy Malan, R.Ph.

Illinois Department of Human Services, Springfield, Illinois

19. *Osteoporosis Awareness in a Community Setting*

Beth Zelinko, Pharm.D. Candidate

Mentors: Erin Timpe, Pharm.D., and Thomas Beverly, R.Ph.

Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois and
Coal City Pharmacy, Coal City, Illinois

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

- 1. *Analysis of the utilization of erythropoietic agents: a focus on the prescribing patterns of erythropoietin and darbopoietin in accordance with FDA guidelines***
Naser Abu-Shanab, Pharm.D. Candidate and Kelly Simmons, Pharm.D. Candidate
Mentor: John Kleiss, Pharm.D.
Sisters of Mercy Health Care System, St. Louis, Missouri
- 2. *Addressing Positive Methicillin-Resistant Staphylococcus aureus Cultures upon Hospital Admission***
Katie Bartels, Pharm.D. Candidate
Mentor: Natalie Hayes, Pharm.D.
Memorial Hospital, Belleville, Illinois
- 3. *A Retrospective Review of the Incidence of Clostridium difficile-associated Diarrhea in Patients at Carle Foundation Hospital Receiving Antibiotic Therapy with or without Lactobacillus rhamnosus GG; specifically ampicillin-sulbactam, piperacillin-tazobactam, levofloxacin, clindamycin or ceftriaxone***
Marc Belanger, Pharm.D. Candidate
Mentors: Matthew Pike, Pharm.D. and Linda Fred BSPS, MBA
Carle Foundation Hospital, Champaign, Illinois
- 4. *Retrospective Study on Medication Induced Falls in an Acute Care Setting***
Kunjal Bhakta, Pharm.D. Candidate
Mentor: Jane Mondino, Pharm.D.
St. John's Hospital, Springfield, Illinois
- 5. *Cystic Fibrosis Bone Disease in Children and Adolescents***
Brandy Bratcher, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter
- 6. *Before and After ENHANCE: Ezetimibe Dispensed in a Community Pharmacy***
Teresa Cocke, Pharm. D. Candidate
Mentor: Sarah Robertson, Pharm. D.
CVS Pharmacy, Carbondale, Illinois
- 7. *Incidence of Diabetic Neuropathy in Cigarette Smokers with Diabetes Mellitus***
Andrew Corn, Pharm.D. Candidate
Mentor: Lakesha Butler, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

8. *An Evaluation of the Implementation of National Patient Safety Goal 3E: Anticoagulation Safety*

Christina J Damm, Pharm.D. Candidate
Mentor: Susan E Guntren, R.Ph.
Jersey Community Hospital Pharmacy, Jerseyville, Illinois

9. *Correlation of Vancomycin Minimum Inhibitory Concentrations and Clinical Outcomes for Methicillin-Resistant Staphylococcus aureus Bacteremia*

Michaela M. Doss, Pharm.D. Candidate
Mentor: Scott Bergman, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
Honorable Mention – SIUE School of Pharmacy Poster Day 2009
SIUE Senior Showcase Presenter

10. *A Retrospective Drug Utilization Evaluation of Acyclovir in Neonatal Patients*

Julie Duke-Endsley, Pharm.D. Candidate
Mentor: Miranda Nelson, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
SIUE Senior Showcase Presenter

11. *Antibiotics Used Prior to the Development of Hospital-Acquired Clostridium Difficile Associated Diarrhea*

Alex Duyvejonck, Pharm.D. Candidate
Mentor: Katie Ronald, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

12. *Comparing Pharmacist versus Physician Monitoring of Intravenous (IV) Vancomycin*

Ben Erwin, Pharm.D. Candidate
Mentor: Jane Mondino, Pharm.D.
St. John's Hospital, Springfield, Illinois

13. *National Patient Safety Goal 3E: Analysis of Outcomes, Gateway Regional Medical Center, Granite City, IL*

Jacquelin S. Fredericks, Pharm. D. Candidate
Mentor: Danielle Rahman, Pharm.D.
Gateway Regional Medical Center, Granite City, Illinois

14. *A Retrospective Chart Review of the Efficacy and Nephrotoxicity Associated with Intravenous Colistin and Polymyxin B.*

Trenton A. Grimm, Pharm. D. Candidate
Mentor: Scott Bergman, Pharm. D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
Best Poster Award – SIUE School of Pharmacy Poster Day 2009

15. *Evaluation of Adverse Events Associated with Linezolid in a Pediatric Teaching Hospital"*

Tara Hosselton, Pharm. D. Candidate
Mentor: Miranda Nelson, Pharm. D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

16. *Nicardipine Use in Hypertensive Emergencies*

Jessica Laubscher, Pharm.D. Candidate
Mentor: Jered Bauer, Pharm.D.
The Preference Group, Belleville, Illinois

17. *The Use of Acupressure Wristbands in Pediatric Patients for Relief of Nausea/Vomiting After Bone Marrow Transplantation*

Amanda Law, Pharm. D. Candidate
Mentor: Melissa Heigham, Pharm. D.
St. Louis Children's Hospital, St. Louis, Missouri

18. *Drug Utilization Evaluation of Linezolid in a Pediatric Teaching Hospital*

Ashley Lawton, Pharm.D. Candidate
Mentor: Dr. Miranda Nelson, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

19. *The incidence of hyperprolactinemia signs and symptoms associated with risperidone and paliperidone use in an outpatient mental health facility*

Elizabeth N. Lloyd, Pharm.D. Candidate, Courtney A. Mudd, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

20. *Incidence of Febrile Neutropenia in Lymphoma Patients Receiving CHOP Chemotherapy with Day 1 or Day 2 Pegfilgrastim Administration*

Tony Lopez, Pharm.D. Candidate
Mentor: Michelle Woods, Pharm.D.
Illinois Cancer Care Center, Peoria, Illinois

21. *The Pharmacists' Role in Therapeutic Monitoring of Antibiotic Therapy for Pediatric Cystic Fibrosis Exacerbation: A Retrospective Review*

Michelle McArthur, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

22. *The Role Of De-Escalation Therapy In A Health Care Setting*

Sini Muckom, Pharm.D. Candidate
Mentor: Karen Scriven, Pharm.D.
Health South Rehabilitation Hospital, Rock Hill, South Carolina

23. *Assessment of Antiemetic Treatment in Pediatric Patients Receiving Inpatient Chemotherapy*

Brandi Myers, Pharm.D. Candidate
Mentor: Melissa Heigham, Pharm.D.
St. Louis Children's Hospital, St. Louis, Missouri

- 24. *Appropriate Use of Stress Ulcer Prophylaxis in General Medicine Patients***
Leah Nanney, Pharm.D. Candidate
Mentor: Jenny Niemerg, Pharm.D.
St. Elizabeth's Hospital, Belleville, Illinois
- 25. *Long Term Azithromycin Therapy in Cystic Fibrosis Patients***
Kelly L. Perez, Pharm.D. Candidate
Mentor: Lisa Lubsch, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
- 26. *Asthma Control in an Aberdeen Area Indian Health Services facility. A Pharmacoeconomic Study Based on a Retrospective Drug Utilization Review.***
Maggie R. Rodeffer, Pharm.D. Candidate
Mentor: Lt. Todd Campbell, Pharm.D.
Sioux San Hospital, Rapid City, South Dakota
Honorable Mention Award Winner – SIUE School of Pharmacy Poster Day 2009
- 27. *ACE-I Use in a Population of Advanced Age***
Andrew Roseboom, Pharm.D. Candidate
Mentor: Anna Thuer, Pharm.D.
Alton Memorial Hospital, Alton, Illinois
- 28. *Evaluation of Maintenance within Therapeutic INR Range While at Herrin Hospital For Those Receiving Warfarin Prior to Admission***
Brian Smith, Pharm.D. Candidate
Mentor: Lori Sink, Pharm.D.
Herrin Hospital, Herrin, Illinois
- 29. *Effects of a Pharmacy-Managed Warfarin Protocol in an Inpatient Rehabilitation Facility***
Kelly Smith, Pharm.D. Candidate and Jennifer Rains, Pharm.D. Candidate
Mentor: Cassandra Maynard, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
- 30. *Factors Associated with Developing C. difficile Infection***
Tonya Sprenger, Pharm.D. Candidate
Mentor: Natalie Hayes, Pharm.D.
Memorial Hospital, Belleville, Illinois
- 31. *Clinical Pharmacist Interventions on an Assertive Community Treatment Team***
Mary Janet Stunson, Pharm.D. Candidate
Mentor: Kelly Gable, Pharm.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois
- 32. *Readmission Rate of Patients on Coumadin***
Seyoum Woldegebriel, Pharm.D. Candidate
Mentor: Jane Mondino, Pharm.D.
St. John's Hospital, Springfield, Illinois

Other

- 1. *Design and Impact of Computerized Prescription Labeling Software in an Inpatient Facility***
Jeremy Hanon, Pharm.D. Candidate
Mentors: John Brashear, R.Ph. and Greg Beaty, R.Ph.
Warren G. Murray Developmental Center, Centralia, Illinois

- 2. *Development of a Long Term Care Pharmacy Reference Tool for Over-the-Counter Medication Coverage by the Illinois Department of Healthcare and Family Services***
Alaina Helfrich, Pharm. D. Candidate
Mentor: Dave Flamuth, R.Ph.
Omnicare Pharmacy, Illinois

- 3. *Evaluating the Financial Impact of Clinical Interventions Made by Student Pharmacists during their Advanced Community Pharmacy Practice Experiences***
Diana Jason, Pharm.D. Candidate
Mentor: Bill Wuller, M.S.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

- 4. *Disposal of Unwanted Medications in Sangamon County***
Corinne Peshek, Pharm.D. Candidate
Mentor: John Endris, R.Ph.
Complete Care Pharmacy, Springfield, Illinois

- 5. *The Creation and Use of Instructional Videos in Pharmaceutical Compounding Education***
Jason Tipton, Pharm.D. Candidate
Mentor: William Kolling, Ph.D. and Tim McPherson, Ph.D.
Southern Illinois University Edwardsville School of Pharmacy, Edwardsville, Illinois

- 6. *Management of Pharmaceutical Waste: Community Hospital***
Nathan Wear, Pharm.D. Candidate
Mentor: Lori Adams, R.Ph.
Memorial Hospital, Belleville, Illinois