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 Mattiaz, 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

   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 Curriculums**
    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
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 BSPA, 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
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**  
Jacqulin 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
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