

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

Monday, 12:30 p.m. – 2:00 p.m.

Tuesday, 11:30 a.m. – 1:00 p.m.

Monday, 10:30 a.m. – 12:00 p.m.

- 1-001** Changes in interdisciplinary publication in pharmacy and medical literature, Elizabeth Claire Morgan, Kristen Joy Davis, Karen F. Marlowe, Molly Adams, Rakhi Karwa
- 1-002** Effect of Process Improvements on Time to First Dose Antibiotics in Febrile Neutropenic Patients, Laura Russell Edds
- 1-003** Evaluation of medication errors and outcomes with sliding scale insulin therapy, Shineca N. Weeks, Brittany Autry, Molly Adams, Allison May Chung, Rakhi Karwa
- 1-004** Impact of acid suppression therapy on oral iron supplementation in the pediatric ICU population, Richard A. Geiler, Allison May Chung, Rosa Vidal, Esteban Bonafante, Ricardo Arbizu Alvarez
- 1-005** Medication risk management programs: an analysis of specific medication components, Delia M. Charest
- 1-006** Prospective assessment of the incidence and effect of post-partum depression on women infected with human immunodeficiency virus, Jennifer Marie Wagner, Allison May Chung, Rakhi Karwa, Raymond A. Lorenz
- 1-007** Retrospective chart review comparing changes in laboratory and physical assessment data to patient complexity over a two year period at an academic family medicine clinic, Shanna Marie Howard, MaryAnn Elizabeth Birch, Angela Vinti, Raymond A. Lorenz
- 1-008** Retrospective chart review comparing the revenue generated when using current procedural terminology (CPT) codes versus medication therapy management (MTM) codes when billing for clinical pharmacy services in an academic family medicine clinic, MaryAnn Elizabeth Birch, Shanna Marie Howard, Angela Vinti, Raymond A. Lorenz
- 1-009** Retrospective evaluation of the relationship of vancomycin dosing and serum trough concentrations in an obese population., Katerina Katsanevas, Katherine Rable, Rakhi Karwa, Bradley Wright, Karen F. Marlowe
- 1-010** Utility of cefazolin versus nafcillin/oxacillin in the treatment of methicillin-sensitive staphylococcus aureus (MSSA) bacteremia, Lauren Greer, Kathryn Lewis, Edward Eiland
- 1-011** Attitudes of Arizona Pharmacy Professionals towards Complementary and Alternative Medicine, Ryan Martin, Dawn S Knudsen
- 1-012** Basal bolus insulin for diabetic patient care in a rural hospital setting, Jared L Hochstettler, Steven Williams, Eun Jeon, Katie Johnson
- 1-013** Comparison of findings from published weight loss trials for orlistat to the findings used by the Food and Drug Administration (FDA), Zaira Y. Balmaceda, Kathy Lin, Marion Slack
- 1-014** Description and categorization of exception prescriptions at the Southwest Veterans Affairs Consolidated Mail Outpatient Pharmacy (CMOP), David Jacobson, Kim Dinh, Aimee Gowler, Kim Miller, Bill Jones
- 1-015** Description of pharmacist interventions in a mobile multidisciplinary health clinic for the homeless, April Engquist, Kim Cauthon, Alan Schalscha
- 1-016** Histamine desensitization in chronic cluster headache, Julie McIndoo, Manasa S. Murthy, Richard Wenzel

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- 1-017 Intravenous levetiracetam as an abortive treatment in chronic daily headaches,** Manasa S. Murthy, Julie McIndoo, Richard Wenzel
- 1-018 Pharmacy Student Knowledge of Teratogens to Avoid in Pregnancy,** Jennifer Esch, Guadalupe Sandoval
- 1-019 Review of Veterans Health Administration (VHA) Consolidated Mail Outpatient Pharmacies (CMOPs) epinephrine auto-injector directions,** Aimee J. Gowler, Michael Sutherland
- 1-020 Smoking Cessation Practices and Perceived Barriers in Community Pharmacy Residency Programs,** Kateryna Yenina, Jeannie K. Lee
- 1-021 The use of focus groups to develop the Advanced Patient Care course at The University of Arizona College of Pharmacy,** Carey L. Geier, Anna A. Pleskun, Corey J. Bono, Jeannie K. Lee
- 1-022 Continuous Quality Improvement of Darbepoetin Alfa (Aranesp) Injections Administration Order Form,** Stacy L Yang, Vuong Green, Tiffany Bach, Siu-Fun Wong
- 1-023 Current provider opinions on pharmacist participation in reproductive health services,** Sanaz Ghaffarian, Erika Gray, Sally Rafie, Cynthia Harper, Sophia Yen
- 1-024 Dextromethorphan Abuse Awareness and its Implications on Pharmacists and Pharmacy Interns,** Albert Bach, Jenny Chang, Tram Khuong, Beverly Mojica, Joanne Nguyen, Minah Rhee
- 1-025 Evaluation of Retinopathy of Prematurity in Association with Erythropoietin Alfa Therapy in Neonates,** Olivia C. Garnier, Kim E Taing
- 1-026 Health care screenings and immunizations of HIV-infected veterans enrolled in a specialty care clinic: a retrospective analysis,** Karen L. Ward, Nancy N. Nguyen, Mark Holodniy
- 1-027 Health literacy and medication safety in Chinese American patients,** Weiwei Qin, Pearl S Yu, Jessica Chen, Gita Mehta, Grace M Kuo
- 1-028 High dose intravenous acyclovir and acute renal dysfunction in pediatric patients,** Yinan Wang, Serra Sibbett, Tom Cross, Steven Waite
- 1-029 Impact of pharmacist facilitated diabetes education on patient knowledge, quality of life (QOL), and satisfaction with pharmacists,** Melissa M. Lau, Cinda Wu, Jeany K. Jun, Emmanuelle Schwartzman, Anandi V. Law
- 1-030 Evaluation of a sepsis protocol for patients admitted to non-intensive care units,** Angela Michelle Luetters, Sarah Carson, Norman Kwong, Jennifer Biltoft, Maria Kinsella
- 1-031 Medication use evaluation of albumin at a community teaching hospital.,** John Michael Burgeson, Norman Kwong
- 1-032 Alvimopan for the Management of Post-Operative Ileus After Abdominal Surgery: A Meta-Analysis,** Michael R Schaedler, Amanda C. Barrett, Jennifer Colby, Craig I. Coleman
- 1-033 Effect of clinical pharmacy services on glycosylated hemoglobin (A1c) in patients with diabetes seen in a veteran's affairs primary care clinic,** Jennifer J. Lee, Salma H. Afifi
- 1-034 Probable drug interaction between prickly pear cactus, glipizide, and metformin in a patient with type 2 diabetes mellitus,** Craig W Freyer, Diana M Sobieraj
- 1-035 Quality improvement evaluation of hospital medication reconciliation discrepancies between pharmacy technicians and medical residents,** Salma H. Afifi, Effie L. Kuti

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- 1-036** A multicultural analysis of alternative therapy use in South Florida, Dahlia Samantha Solomon, Guerla Avilus
- 1-037** A survey on the behavioral changes displayed amongst healthcare professionals pre & post flu outbreak, Erica Lawal, ERICA LAWAL, YUSEF DAVIS, Leonard Rappa
- 1-038** Adherence to the 2009 American Diabetes Association (ADA) guidelines in a diabetic population in an ambulatory care setting, Alean Bryant, Carina Edwards, Neil Patel, Frank Orlando, Shelly Sandiford, Tara Workman
- 1-039** Analysis of vancomycin failure rates at a teaching hospital, Kathryn Autrey, Sean McGregor, Elias B. Chahine
- 1-040** Assessment of pharmacy students' knowledge of medication disposal, Franshea C. Steward, Chandra Cannon, Timothy McCoy, Phyllings Lerisson, Tayanna Richardson
- 1-041** Assessing medication compliance in an ambulatory setting, Jasmine L. Egbue, Jayson Jackson, Ashle' Morrow, Yolanda Roberts, Jasmine Williams, Dr. John J. Scrivens
- 1-042** Assessing the readability of drug information on wikipedia, Jennifer Miles, Devin Pelcher, Kevin Clauson, Qing Zeng-Treitler, Sasikiran Kandula, Lisa Ferguson
- 1-043** Assessment of the First Annual Roadmap to a Pharmacy Residency Workshop by a Student Society of Health-Systems Pharmacy, Ortega Anne Melissa, Julie Nguyen, Carla Evans
- 1-044** Cockcroft and Gault versus modification of diet in renal disease (MDRD) in renal dosing of drugs., Mabel Rodriguez, Emily Marcklioli, Samantha Barrett, Antolee Walters
- 1-045** Contract pharmacy services managed by pharmacy schools, Shacara Thompson, Joel Frazier, Brandon Harris, Kandra Perry, Frank Emanuel, Pharm.D
- 1-046** Daptomycin utilization review in a teaching hospital, Bethany J Della Vecchia, Hong Vu, Elias B. Chahine
- 1-047** Do aspirin and other non-steroidal anti-inflammatory drugs have a role in the prevention and treatment of Alzheimer's disease? a systematic review, Naomi J. Woodley, Miriam Etienne, Katreen Gabriel, Andrew Assad, Aisha Wright, Randy Bell
- 1-048** Drug information resources in the Caribbean, Rena T. Patel, Ralston Campbell, Elizabeth Espinel, Gustavo Llerena, Angela Garcia
- 1-049** Drug interactions between antiretroviral agents and psychotropic medications, Yijun Lin, Kathy Graham
- 1-050** Effect of pharmacists on medication adherence in women with human immunodeficiency virus (HIV) / acquired immune deficiency syndrome (AIDS), Evans Branch, Janise Phillips, Alicia Green, Susan Mathai, Randy Nemecek
- 1-051** Effects of a primary care provider on coordination of care issues with patients on long-term warfarin therapy, Travis Clark, Desarae Garland, Shantaye Stephens, Monique Underwood, Kamil Simmons-Pierre
- 1-052** Effects of globalization on American journals over a 10 year period, Shila G. Fisher, Glenn Samuels, Frantz J Nerestant, Monique Prospere, Wayne Simon
- 1-053** Evaluating medicinal and dietary contributions of gluten in depressive disorders, Mary K. Soliman, Angela Hill, Donna Golatt, Charmaine Anderson
- 1-054** Evaluating students perception of the patient assessment course, Jessica Jackson, Ingrid Dean, Adam Allen, Sylinda Fulse, Sheneear Walker
- 1-055** Evaluating the effectiveness of a diabetes education class on hemoglobin A1C levels, Genetta Watts, Kenneth Baker, Linzie Walker

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- 1-056 Evaluating the use of ascorbic acid as adjunctive therapy to reduce the incidence of atrial fibrillation**, Samantha S. Bastow, Christine K Yocum
- 1-057 Evaluation of an anticoagulation management service in a community health center**, Charlie Colquitt, Dorian Austin, Olalekan Fasonu, Jennifer Green, Ivory Gordon
- 1-058 Evaluation of Carbapenem Utilization in a Large Teaching Institution**, Jamie Duncan, Margaret Alaba, Alexander Brown, Bernice Edwards, Shalay Rhoden
- 1-059 Evaluation of the use of diluted thrombin and Gelfoam in neurosurgery**, Shalini Pathyil, John Girgis, Shirly Fahmy, Marlease Haynes, Carolyn Tete, Earnest Alexander
- 1-060 Everolimus use in estrogen receptor positive breast cancer to block endocrine therapy resistance: a literature review**, Elizabeth DiMaggio, Amanda Mancini Kelly
- 1-061 Extended infusion dosing of piperacillin-tazobactam**, Shameik J. Brooks, Mellie Rose Abella, Jessica Alegre, James Johnson
- 1-062 General knowledge of college students regarding sexually transmitted diseases (STDs)**, Duy H. Truong, Duc Vinh Do, Tuan M. Tran, Valerie Petermon, Almando Sapp
- 1-063 Impact of pharmacy students' clinical interventions during general medicine rounds**, Aisha K. Gomez, Christie Hollinger, Gayle Rivers, Toni Sasser
- 1-064 Lacosamide as adjunctive treatment of partial-onset seizures**, Stephanie Meas, Erenie Hanna, Arathi Reddy
- 1-065 Lithium-Induced Psychosis**, Ashley S. Johnson, Chantrelle Johnson
- 1-066 Medical mission fundraising**, Julie B. Nguyen, Thi Cai, Jennifer R. Douma, Janet Howard, Tsehaye Zemenfes, Dr. Nancy Hart
- 1-067 Medication Use Evaluation: The Metabolic Side Effects of Paliperidone in an Inpatient Psychiatric Facility**, Amy L Everitt, Jose Rey
- 1-068 Outcomes of the implementation of a pain management team**, Priscilla W. Wilson, Keylow E. King, Jessica M. Devasia, Thu-Hong M. Le, Keith D. Perry, Rinku A. Philip
- 1-069 Pharmacist-assisted tobacco cessation quit intervention and follow-up program**, Toby Rutledge, Toby Rutledge, Kae'Anna Runcie, Hany Edward, Angela Hill, Angela Singh
- 1-070 Pharmacy School And Stress**, Shawanna S. Addison, Martez Prince, Leonard Rappa
- 1-071 Portrayal of the Pharmacy Profession as depicted by the Hollywood Media**, Brittney Tyson, Joycelyn Curry, Endia Davis, Raynevia Diaz, Wayne Simon
- 1-072 Professional pharmacy organizations: an evaluation of meeting attendance and membership**, Calleen Olivia Sullivan, Sandra Benavides
- 1-073 Risk of Jaw Necrosis with Oral Bisphosphonates**, Chilla E Goncz, Janet Howard, Lauren Pikna, Debbie Woodall
- 1-074 Rivaroxaban versus enoxaparin for thromboprophylaxis after total hip or knee arthroplasty: a literature review**, Amanda Mancini Kelly, Elizabeth DiMaggio
- 1-075 Role of bifeprunox for acute and long term treatment of schizophrenia**, Puneet Kulhari, Thuy T Nguyen, Joseph Pharmacy Student Gariboldi, Kevin Hanlon
- 1-076 Sexually transmitted infections: awareness and attitudes among patients serviced by the Duval County Health Department**, Lori A. Gordon, Jenna Ezenwa, Philip Hamilton, Darrell Watkins, Ebony Remsey
- 1-077 Soapbox 2.0: Blog and microblog use by pharmacists for ranting and discourse**, Justin Elkins, Chilla E Goncz, Kevin Clauson, Ramona Somnarain

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- 1-078** **The efficacy of anemia treatments in the elderly population**, Vivian A. Anaafi, Matthew Douglas, Marcus Ezell, Tonya Martin
- 1-079** **The impact of coumadin counseling by pharmacists on re-hospitalization for thromboembolic events or coumadin toxicity**, Jocelyn Jones, Brittney Lannaman, Brittney Cobb, Victoria Evelyn, Precious Jenkins
- 1-080** **The opinions of health care professionals on the availability of emergency contraception to 17 year olds without a prescription.**, Ashley N. Brown, Daryl Norwood, Tamika Robinson, Ashley Ridley, Phylecia Burgess
- 1-081** **The significance of antimicrobial surveillance in justifying an antimicrobial stewardship program in an acute care community teaching hospital**, Jenny Martinez, Norman Ruiz-Castaneda, Sylvia Torres, Mercedes Urgelles, Mary Ibarra-Diaz
- 1-082** **Total Parenteral Errors In an Outsourcing Pharmacy Versus Hospital Pharmacies Across the United States**, Jarvis J Francis, Jarvis J Francis
- 1-083** **Vancomycin versus Daptomycin in Treating Skin and Soft Tissue Infections and Right-Sided Endocarditis**, Marlene M Lesmes, Sarah Quesada, Margaret Messiha, Dora Choy
- 1-084** **Weight loss management among south floridians**, Nicky Jones, Jenelle Griffiths
- 1-085** **Working Together for Optimal Patient Care: Nurses and Pharmacists Lets Talk**, Jessica Smith, Anna Lockey, Ebony Ramsey
- 1-086** **A drug utilization evaluation of sitagliptin in a military treatment facility**, Amy M. Lugo, Tara Bennett, Lilia Z Macias-Moriarity
- 1-087** **Assessing adherence to the Infectious Disease Society of America and the American Thoracic Society (IDSA/ATS) guidelines for empiric treatment of pneumonia: a medication use evaluation (MUE)**, Parag Kumar, Robin Southwood, Virginia Fleming, Brian Buck
- 1-088** **Assessment of sliding scale insulin use and efficacy prior to implementation of a supplemental insulin protocol on medicine and surgery nursing units**, Chris Z Johnson, Christina Deremer, Pharm.D., BCPS
- 1-089** **Case study: adrenal insufficiency in a trauma intensive care unit patient**, Mary Katherine Brown, Phillip Owen
- 1-090** **Comparison of intensive and conventional insulin regimens in the medical intensive care unit**, Leena Amine, Stacey Folsie, Micah Fisher
- 1-091** **Comparison of venous thromboembolism (VTE) prophylaxis pre- and post-computerized provider order entry (CPOE) implementation**, Roxanne Hotz, Mansi Tushar Sheth, Donna Vasil, Dianne Williams
- 1-092** **Determination of Effective Vancomycin Dosing Among Physicians and Pharmacists**, Manav Patel, Sara L Fleszar, Scott Kincaid
- 1-093** **Development of guidelines for intravenous immune globulin use at an academic medical center**, Alina Kuo, Tad A. Gomez, Dianne Williams
- 1-094** **Effect of implementation of computerized prescriber order entry (CPOE) on antimicrobial surgical prophylaxis in a children's medical center**, Christy C. Cecil, Jennifer Jones, Jill Butterfield, Kalen B. Porter
- 1-095** **Effectiveness of medical staff-approved intravenous acetylcysteine guidelines at an academic medical center.**, John A. Galdo, Christy Norman, Dianne Williams

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- 1-096** Evaluating the safety of inpatient anticoagulation with an intravenous (IV) heparin protocol before and after implementation of computerized provider order entry (CPOE), Melinda C. Kezer, Tom Flynt, Dianne Williams
- 1-097** Evaluation of insulin practices in a neonatal intensive care unit: a quality improvement project, Melinda Rowland, Wendy LaPorte, Angela Shogbon, Vorlak Hong
- 1-098** Evaluation of obtaining baseline international normalized ratio (INR) and warfarin home dose and regimen documentation among healthcare professionals in a pharmacy managed inpatient warfarin service, Olubusola O. Oluyemi, Mandana Ghodrat
- 1-099** Evaluation of Plerixafor on Stem Cell Collection Prior to an Autologous Hematopoietic Stem Cell Transplant (HSCT), Elaine Mebel, Jim McAllister, David DeRemer
- 1-100** Evaluation of the appropriateness of echinocandin utilization at an academic medical center., Quynh-Nhu Ho, Jill Butterfield
- 1-101** Evaluation of the management of alcohol withdrawal at an academic institution, Akosua K. Boateng, Akosua K. Boateng, Prasad Abraham, Marina Rabinovich, Lisa Lundquist
- 1-102** Evaluation of the safety and efficacy of bivalirudin use in an academic medical center, Caitlin Bowers, David Killough
- 1-103** Evaluation of the safety of blood pressure lowering during the acute stroke period: a follow-up study, Christine L. Elson, Jody L Rocker, Jeffrey A Switzer, David C Hess, Susan C Fagan
- 1-104** Identifying potential medication errors associated with the use of automated dispensing machines in an academic medical center, Lauren R. Biehle, James McAllister, Marjorie Shaw Phillips
- 1-105** Implementation and evaluation of a physician-driven documentation form for high-cost chemotherapy and its impact on reimbursement in an ambulatory cancer clinic., Kristen Leigh Motlow, James McAllister, Tad A. Gomez
- 1-106** Imported Plasmodium falciparum malaria in the United States: a case report of a critically ill adolescent., Allyson M. Berg, W. Klugh Kennedy
- 1-107** Improving blood glucose documentation and hypoglycemia treatment in a long term care setting, Kimberly Anne Millward, Katherine McMichael, Kevin Corbin, Marjorie Phillips
- 1-108** Medication use evaluation of oxaliplatin in the inpatient setting, Jonathan Slocum, Scott Kincaid
- 1-109** Pharmacy impact on warfarin discharge safety, Natalie D. Johnson, Alina Kuo, Christy Norman, Christina DeRemer
- 1-110** Reintroduction of intravenous minocycline: suitability of a concentrated solution, Jenny L. Cribb, Michael Boyd, Kathryn Bishburg, Christine Elson, Susan C Fagan
- 1-111** Role of recombinant activated human coagulation Factor VII (rFVIIa) in treating a patient with acquired hemophilia, Maria M. Thurston
- 1-112** Stress ulcer prophylaxis across the continuum of care at an academic medical center, Jamie D. Lake, Trisha Branan, Christina DeRemer, Jody Rocker, Erika Grigg
- 1-113** Trend in vancomycin mean inhibitory concentration (MIC) against methicillin-resistant staph aureus (MRSA) in an academic medical center., Navid R. Amlani, J. Russell May, Pharm. D., John Steele, M.D.

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- 1-114 Updated dosage adjustment for hepatic dysfunction based on Child-Pugh scores,** Ryan A. Markham, Carla F. Wolfgang
- 1-115 Diabetes Self Management Education for an Underserved, Non-English Speaking Community,** Danita Henley
- 1-116 Nebulized morphine sulfate, a case report,** Adrienne Au, Cherie Chu, Danfeng "Dawn" Cai
- 1-117 Neuroleptic malignant hyperthermia: a case study report,** Veneta Tsonev, Jason Braithwaite, Han Duong, Sarah Kaufman, Ryan Trombley
- 1-118 Rat Lung Worm Associated Eosinophilic Meningitis in Hawaii,** Krystin Duong, Amber Schwarz, Angelina Eustaquio, Ashley Ann Fukumae, Kaitlan Pham
- 1-119 Drug interaction evidence: a passing grade?,** Sarah Hanigan, Genevieve delos Santos, Bhavik Nana, William Budris
- 1-120 Mechanisms of azithromycin efficacy in cystic fibrosis,** Eric J. Paulus, Katie A. Gannon, Gary Milavetz
- 1-121 Medication use evaluation of duloxetine in a tertiary care hospital,** Elisabeth E. Donahey, Jill Fowler
- 1-122 Novel simplified cardiovascular risk scoring system to assess clinical outcomes,** Graziela Z Kalil, Meaghan Rogers, Matt Harmston, Barry Carter
- 1-123 Two case reports of transdermal selegiline for chronic daily headache,** Sean DeFrates, Richard Wenzel
- 1-124 Use of opioids for the treatment of fibromyalgia,** Megan M Brockman, CoraLynn Trewet, Larry Severidt
- 1-125 Utilizing spaghetti diagram and layout rearrangement to improve intravenous (IV) room pharmacy efficiency,** Dazhi Liu, Lijian Cai
- 1-126 A critical review of composite endpoints in pharmacy journals,** Paul Stranges, Jacob Gettig
- 1-127 A retrospective drug utilization evaluation of acyclovir in neonatal patients,** Julie M. Duke Endsley, Miranda P. Nelson, David Hunstad
- 1-128 Aberrant drug taking behaviors associated with opioids by patients in a large family medicine residency clinic: a retrospective chart review,** Matthew Lewis, Chris Herndon
- 1-129 An Assessment of the Insulin Protocol within an Intensive Care Unit,** Daniel Grohmann, Katie Ronald
- 1-130 Auxiliary labels- just there for decoration?,** Valerie L. Ravenna, Robin Zavod
- 1-131 Candida Susceptibility to Fluconazole,** Halley S. Connor, Halley S. Connor, Scott Bergman
- 1-132 Depression and antidepressant therapy in newly initiated dialysis patients,** Jennifer A Splawski, Jeffrey R Bishop, Alan Lau, Priscilla How, Darius Mason, Prathana Anattiwong
- 1-133 Effect of locus of control on chronic migraine and chronic headache patients with increased prevalence and severity of depression/anxiety disorders,** Matthew J. Hammer, Robert A. Nicholson, Timothy R. Smith, James W. Banks III
- 1-134 Incidence of vancomycin nephrotoxicity with doses recommended by the Infectious Disease Society of America guidelines,** Jeffrey D. Zimmerman, Kelly Ackerman, Kelly Gulbrandson, Michael Postelnick

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- 1-135** Incorporation of instructions regarding radio contrast media in the pharmacy curriculum: a survey of faculty member(s) at pharmacy schools in the Midwest, Tejas Patel
- 1-136** Interventions made by pharmacy students on APPE rotation at a pediatric hospital, Amy E. Borland
- 1-137** Mandatory methicillin resistant staphylococcus aureus (MRSA) surveillance: a retrospective review, Juhi Jain, Meri Hix, Carrie Sincak, Timothy Todd
- 1-138** Medication use evaluation: monitoring of metabolic abnormalities with second generation antipsychotics, Freda Duong, Jennifer Zacher, Shaunte Pohl
- 1-139** Medication utilization evaluation: hydromorphone and related opioid analgesics, Christina Kim
- 1-140** Oncology pharmacist recommendations for empiric antibiotic therapy for gram positive organisms in febrile neutropenia, Emily T Collins-Lucey, Keith Hecht
- 1-141** Pilot survey of pharmacy students' opinions regarding postgraduate mandatory residency training for direct patient care services, Seema J Shah, Kelly E Martin, Katie Morneau, Deborah A Sturpe, Julie A Fusco
- 1-142** Randomized controlled study on the effect of a student response system on short and long term learning in a drug literature evaluation course, Flora Liu, Nancy Fjortoft, Jacob Gettig
- 1-143** The pharmacists role in the management of chornic hepatitis C in liver transplant patients, Christopher Angderson, Juliana Chan
- 1-144** Tigecycline Usage Evaluation, Bart Smith
- 1-145** A financially sustainable model for primary care clinical pharmacy services in a physician-directed clinic, Amy Wleklinski, Gloria Sachdev
- 1-146** An Assessment of Past Purdue Pharmacy Kenya Clerkship Student Participants, Michael C. Smith, Ellen M Schellhase, Sonak D Pastakia
- 1-147** An Evaluation of Vancomycin Dosing and Serum Concentrations, Bryce Mitchell, Stephanie Reynolds, Kendra Atkinson, Sharon Erdman
- 1-148** Assessing achievement of evidence-based blood pressure goals in an internal medicine residency clinic: a retrospective chart review, Cortney B. Hindahl, Megan A. Tolen, Alison M. Walton
- 1-149** Assessment of factors that impact medical, nursing and pharmacy students attitudes toward interprofessional collaboration, Clare E. Rupprecht, Kimberly S. Plake
- 1-150** Assessment of pharmaceutical education to caregivers of Alzheimer's patients in a support group setting, Jeanne Y Peterson, Amanda C Little, Kamran Parsen, David Knoth
- 1-151** Calcium containing phosphate binder use in chronic kidney disease patients and risk of cardiovascular calcification: a look at the evidence, Molly A Mason, Brian M Shepler
- 1-152** Certified advanced clinical practitioners in New Mexico and North Carolina: an initial survey of practice characteristics and reimbursement mechanisms, Jeffrey Thomas Perdiew, Matthew Murawski, Ernest Dole, Timothy Ives, Dale Tinker
- 1-153** Comparative analysis of vancomycin-associated nephrotoxicity in patients before and after implementation of new vancomycin dosing guidelines at Community Health Network, Lauren Marzotto, Amanda Parsons, Emily Greenhaw, William Malloy, Jarrett R. Amsden

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- 1-154** **Complications in neonates associated with total daily heparin exposure**, Leanne M Current, Kate Rawlings, Jane Gervasio, Meredith McKinney
- 1-155** **Creating and implementing a community health website**, Punit Shah, Aaron Lee, Annette McFarland, Carriann Richey
- 1-156** **Day shift versus night shift work: evaluation of risk for diabetes and other components of the metabolic syndrome**, Whitney Redding, Laura Geswein, Erin Weber, Christy Nash
- 1-157** **Development of a pharmacist managed anticoagulation clinic in a resource-constrained setting**, William Crisp, Mercy Ouma, Imran Manji, Ellen M Schellhase, Sonak D Pastakia
- 1-158** **Development of tools for Medicare Part D enrollment**, Brittany C. Romine, Megan Leonard, Carriann Richey, Kelly O'Connell
- 1-159** **Development, implementation and evaluation of vancomycin guidelines for dosing, use, and monitoring at Indiana University Hospital of Clarian Health**, Hannah E Weber, Tommy Kleyn, Suellen J Sorensen
- 1-161** **Does location matter? Examining the differences in prescribing practices based on rural and nonrural location**, Rachel Shepard, Iftekhar Kalsekar
- 1-162** **Economic impact of genetic testing in clinical pathways on total oncology care**, George Litsas, Jeff Hawes, Winston Wong
- 1-163** **Electronic-prescribing survey: the pharmacists' perspective**, Joseph Bailey, Krista Ringwald, Mina Alsaraf, Gloria Sachdev
- 1-164** **Evaluation of prescribing trends in outpatients with mental retardation and axis I or axis II psychiatric disorders**, Lindsey R. Corbets, Carol A. Ott
- 1-165** **Evaluation of prophylactic acid suppressive therapy outside of the intensive care unit setting**, Tara Holt, Janice Cai, Jeffrey Hutchens, David Foster
- 1-166** **Evaluation of thiazide diuretics as initial management of hypertension among primary care providers in a veteran affairs (VA) population**, Pooja Shah, Amy Pullen, Raychelle Oler, Darin Ramsey
- 1-167** **Frequency of diagnoses of inpatient admissions at a rural, resource-constrained referral hospital in Eldoret, Kenya**, Emily D. Chambers, Claire Landis, Messai Belayneh, Sejal Patel, Chris Buckel
- 1-168** **Impact of telecounseling on improving tobacco cessation rates in patients receiving managed care Medicaid benefits.**, Holly Durcholz, Michelle DeGeeter, Kacie Phillips, Dan Orlovich
- 1-169** **Implementation of an innovative diabetes education program in an ambulatory independent pharmacy**, Tyler Drum, Ashley Warburton
- 1-170** **Improvement of patient education and standardization of dexamethasone prescribing for patients receiving taxane chemotherapy**, Marisa T. Broderdorf, Jeffrey Thomas Perdiew, Cathy Whalen
- 1-171** **Intensive insulin therapy versus conventional therapy: impact on the reduction of morbidity and mortality in the pediatric intensive care unit**, Erin M Rainey, Todd Walroth, Heather Warhurst, Justin W Bouw, Jennifer Morris
- 1-172** **Metabolic effects of olanzapine in resource constrained HIV-infected patients**, Mallory A Kruckman, Sonak Pastakia, Mei Liu
- 1-173** **Patient attitudes and perceptions about immunizations during the H1N1 2009 influenza pandemic**, LaSonya Ford, Jasmin Pettigrew

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- 1-174 Pharmacists conducting discharge medication reconciliation to decrease hospital readmission rates**, BreAnn N Taylor, Valerie L Fishbeck, Alexander J Ansara, Julie L Weisman
- 1-175 Pharmacy and nursing collaboration**, Emma Kathryn Thone
- 1-176 Prevalence of adverse drug effects and adverse drug reactions in the 200 most commonly prescribed drugs**, Kristin Villa, Mary Roswarski, Brian M Shepler, Matthew Murawski
- 1-177 Prevalence of adverse drug effects and adverse drug reactions in the 200 most commonly prescribed drugs corrected for prescription volume**, Mary Roswarski, Kristin Villa, Brian M Shepler, Matthew Murawski
- 1-178 Retrospective review of a student mediated antimicrobial stewardship program in a long term acute care setting**, Jessica A Hermes, Peter M DeLaney, Michael Brandon McLain, Eric M Norrington, Celina Cummings
- 1-179 Schizophrenia, schizoaffective disorder, and pharmacy: the patients perspective.**, Matthew A Hoch, Carol A. Ott, Kimberly Plake
- 1-180 Survey of outpatient clinical pharmacy services in Indiana**, Ashley T. Logan, David Cruse, Gloria Sachdev
- 1-181 The influence of an introduction to clinical research course on Doctor of Pharmacy student perceptions of clinical research and advanced training options.**, Joshua R Henry, David R Foster, Kimberly S Plake, Brian R Overholser
- 1-182 The role of pramlintide in the treatment of diabetes and obesity: A review for community pharmacists**, Apinya Suppatkul, Cory Smith, Christiane Nash
- 1-183 Use of angiotensin-converting enzyme inhibitors (ACE inhibitors), angiotensin-receptor blockers (ARBs), and HMG-CoA reductase inhibitors (Statins) in women of childbearing potential**, Kathy L. Newman, Lindsay R. Horan, Alison Walton, Karie Morrical-Kline
- 1-184 Use of injectable antipsychotics in non-psychiatric inpatient settings**, Michele M. Swihart, Karen A. Kirschbaum
- 1-185 Filling errors in hospital pharmacy resulting from sound-alike drugs**, Haruko Nakano
- 1-186 UMKC Medicare Part D service project 2009: an analysis of cost savings and patient satisfaction**, Katherine M. Lurk, Maureen E. Knell, Peggy G. Kuehl
- 1-187 Effect of depression on diabetes care: a retrospective study in the Kentucky Medicaid population**, Hannah E. Chandler, Sheila Botts
- 1-188 Evaluating the effectiveness of an interactive seminar to increase pharmacy students' knowledge of and interest in residency training**, Kimberly E. Gasser, Kelly Smith, Douglas Steinke
- 1-189 Octreotide use in glimepiride-induced hypoglycemia**, Jordan R. Covvey, Daniel A. Lewis
- 1-190 Outcomes of medication regimen restriction due to beta-lactam antibiotic allergy**, Daniel Cornett, Craig Martin, David Feola, Doug Steinke
- 1-191 Severe acute kidney injury in patients at low risk for contrast induced nephropathy with vancomycin, piperacillin/tazobactam and intravenous contrast**, Paige M. Kapp, George A. Davis
- 1-192 The role of insulin in the progression of metastatic prostate cancer**, Anna E Hitron, Val Adams, Jeff Talbert, Doug Steinke
- 1-193 How Attributes of a Typical Student Pharmacist Affect GPA**, Charles C. Snyder, Joseph G LeBlanc, Justin H Lui, Ann M Wicker, Brice L Mohundro

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- 1-194** **Impact of pharmacy faculty and students on hypertension management in a family medicine clinic**, Kristian S. Fruge¹, Whitney J. Coleman, Tibb F. Jacobs, Jamie M. Terrell, Emily W. Evans
- 1-195** **Impact of therapeutic interventions by student pharmacists on diabetes outcomes - a retrospective study**, Dalia H. Abdelhalim, Melissa Tingler, Dina Abdelhalim, Divitra Brown, Emily Weidman-Evans, Jamie Terrell
- 1-196** **Lay understandings of Type 2 Diabetes among lower SES African Americans**, Shonte Foster, Chris Faircloth, MarcheLe Irving

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

[Monday, 10:30 p.m. – 12:00 p.m.](#)

[Tuesday, 11:30 a.m. – 1:00 p.m.](#)

Monday, 12:30 a.m. – 2:00 p.m.

- 2-001** A comparison of first and second blood drops on self-monitoring blood glucose (SMBG) device readings, Jonathan Faldasz, Ann Lynch, Matthew Silva
- 2-002** ABC's of Vitamin D: The development of an informational brochure for clinicians and patients., Erin Elizabeth Greel, Samrah Naseem, Elizabeth Osorio, Jennifer Goldman-Levine, Rebecca Couris
- 2-003** Acetaminophen overdose in pediatric patients, Michelle A. Sullivan, Harmanpreet Sandhu, Ashley Child, Catherine Basile, Jennifer Goldman-Levine
- 2-004** Addition of metformin to insulin therapy in overweight type 1 diabetes mellitus., Nhien H Bui, Michelle A. Sullivan, Amanda Mytkowicz, Jennifer Goldman-Levine
- 2-005** Agents that affect coagulation during breast biopsy, An informational poster and brochure, Ngoc Hanh T Nguyen, Megan Cleary, Samrah Naseem, Jennifer Goldman-Levine, Rebecca Couris
- 2-006** Bell's Palsy: a patient case example, Moc Lan Trinh, Sara Farhodi, Vaishali Shah, Jennifer Goldman-Levine
- 2-007** Can methylphenidate be discontinued in a patient with attention deficit hyperactivity disorder (adhd) who undergoes chiropractic treatment?, Jason M Donnelly, Robert Arcott, Adam J. Pipczynski, Cliff Winn, Jennifer Goldman-Levine
- 2-008** Case report of elevated international normalized ratio (INR) secondary to tramadol-warfarin interaction, Christopher W Spitzer, Abigail Maxwell, Dhiren Patel, David Schnee
- 2-009** Case report of foscarnet-induced hallucinations and nightmares, Nevada E. Gray, NgocQuynh Phan, Beth Mcdonagh, Michael Steinberg
- 2-010** Case report of twice daily insulin glargine dosing, Abigail Maxwell, David Schnee, Dhiren Patel, Christopher W Spitzer
- 2-011** Case report on management of insulin resistance in patient with cognitive deficiency, Tai Dinh
- 2-012** Cat Scratch Fever: Claws are the Cause, Manisa Bulsara, Erin Greel, Ankita Patel, Jennifer Goldman-Levine, Rebecca Couris
- 2-013** Cholesterol: the ins and outs, Christine Do, Alexander Pham, Edward Skinner, Jennifer Goldman-Levine, Rebecca Couris
- 2-014** Diabetes Control - Carbohydrate Counting: The development of an informational brochure for clinicians and patients, David Z Kunin, Lauren Brown, Philip Beshay, Jennifer Goldman-Levine, Rebecca Couris
- 2-015** Difficulties of management of fibromyalgia in a patient with multiple disease states, Kristy Rich
- 2-016** Effectiveness of basic and advanced calibrations for the fidelity of a robotic prescription dispensing system as measured by script count accuracy, Philip Kreiter
- 2-017** Evaluating the optimal use of vancomycin in a community hospital, Cui Q. Li, Sana Nadeem, Saba PharmD Candidate Sarsam, Kristin A. Tuiskula, Fae G. Wooding
- 2-018** Evaluation of a warfarin reversal protocol in a community hospital, Zahra A. Shivji, Tiffany E. Bias, Alicia M. Nothstein, Fae G. Wooding, Kristin A. Tuiskula

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 2-019 Evaluation of phytonadione for non-emergent reversal of warfarin anticoagulation: Impact on time to therapeutic range, length of stay and cost,** Lan Q. Nguyen, Michelle A. Sullivan, Snehal Bhatt, Lauren Leydon, Joung Hong, Andrew Wayland
- 2-020 Falsely low glycated hemoglobin (A1C) due to high concentrations of hemoglobin F: information for the pharmacist,** Sam Methratta, Ashley M. Child, Robert Arcott, Jennifer Goldman-Levine
- 2-021 Harnessing diabetes-induced nephropathy: pharmacy students' impact,** Colette Tieu, Cui Q. Li, GERALYN E. WATERS, Sheila M. Seed
- 2-022 Hepatitis C and milk thistle: an informational poster and brochure for clinicians and patients,** David M. Nardolillo, Bhumi Desai, Samrah Naseem, Jennifer Goldman-Levine, Rebecca Couris
- 2-023 Increasing awareness of acetaminophen toxicity with over the counter and prescription products.,** Mark J. Kohn, David Nardolillo, Amanda Mytkowicz, Jennifer Goldman-Levine
- 2-024 Insulin use in the elderly: a case presentation,** Ashley M. Child, Sam Methratta, David Kunin, Jennifer Goldman-Levine
- 2-025 Lipid emulsions serving as a potential antidote for local anesthetic toxicities,** Michelle M. Centrella, Mark J. Kohn
- 2-026 Medication awareness and discrepancies in patients admitted to a cardiovascular medicine floor at an academic medical center,** Anna Beryozkina, Reshma Shah, Snehal Bhatt
- 2-027 Medication use safety advanced practice experiential education,** Uyen Vo, Brandon Anderson, Christian Hartman
- 2-028 Medications and exercise a combination that may jeopardize: the development of an informational brochure for clinicians and patients,** Thai Hong Nguyen, Christopher Nadeau, Edward Skinner, Jennifer Goldman-Levine, Rebecca Couris
- 2-029 Myalgia associated with glipizide therapy: a patient case report,** Adam J. Pipczynski, Robert Arcott, Jason Donnelly, Jennifer Goldman-Levine, Dhiren Patel
- 2-030 New-onset diabetes after kidney transplantation: a patient case report,** Robert Arcott, Jason Donnelly, Adam J. Pipczynski, Jennifer Goldman-Levine
- 2-031 Obtaining a current state assessment of institution-specific high-alert drug knowledge among pharmacy, nursing and medical staff,** Phuoc Lynsey T. Le, Karyn Sullivan, Michael Ditoro, Diane Newcomb, Jason Andree
- 2-032 Pharmacists and Students Perceived Benefits of Involvement in State Pharmacy Associations,** Kirthana Raman, Kristine Willett, Cheryl Durand, Audrey Broyer, Amanda MacPheters
- 2-033 Pharmacy students research on breast cancer drug development,** Saba Sarsam, Daniel Lamontagne, Sana Nadeem, Tiffany E. Bias, Carolyn J. Friel
- 2-034 Pharmacy-managed anticoagulation therapy in a hospital setting,** Judy L Lin, David M. Nardolillo, Ankur Patel, Alan F Kaul, Yafet Abadi
- 2-035 Prescribing and monitoring patterns in digoxin therapy,** GERALYN E. WATERS, Maha Abdalla, Kristin A. Tuiskula, Jason Andree, Abir Kanaan
- 2-036 Professional pharmacy students' attitudes toward leadership and the value of a mentor,** Bhumi Desai, Trisha LaPointe
- 2-037 Proton pump inhibitor use in patients receiving clopidogrel: Has published data affected clinical practice?** , Lauren Leydon, Michelle A. Sullivan, Andrew Wayland, Joung Hong, Snehal Bhatt

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 2-038** **Rehydration H₂much or H₂low: The development of an informational brochure for clinicians and patients.**, Haily Le, Haily Le, Julia Kuks, Pamela McQuinn, Jennifer Goldman-Levine, Rebecca Couris
- 2-039** **Serum digoxin concentration in female versus male patients: does one size fit all?**, Maha Abdalla, James Tisdell, Kristin A. Tuiskula, Jason Andree, Abir Kanaan
- 2-040** **Sugar and Fat, No Not That: The development of an informational brochure for clinicians and patients.**, Samrah Naseem, Lauren Brown, Bhumi Desai, Jennifer Goldman-Levine, Rebecca Couris
- 2-041** **Truth about N, N-diethyl-m-toluamide (DEET)**, Nahal Beik, Justin St. Phillips, Sonia Freitas, Jennifer Goldman-Levine, Rebecca Couris
- 2-042** **Using microsoft access 2003 to create a record keeping database to follow public health regulation**, Ankur Patel, Judy Lin, David M. Nardolillo, Alan F Kaul
- 2-043** **Vitamin D₂ versus vitamin D₃, what pharmacists need to know?**, Amanda Mytkowicz, Neha Patel, Lan Nguyen, Jennifer Goldman-Levine
- 2-044** **Epoetin alpha use among adult internal medicine patients with chronic kidney disease: a medication use evaluation**, Connie H. Yoon, Asha L Tata, Wana Manitpisitkul
- 2-045** **Evaluation of a pharmacist led heart failure nursing in-service program**, Adam Bress, Kristin Watson, Kelly Summers, Joanne Marshall, Patricia Uber
- 2-046** **Evaluation of a venous thromboembolism (VTE) risk assessment tool at a teaching institution**, Matt Bathula, Brittany Farrugia, Kristin Watson
- 2-047** **Evaluation of eptifibatide dosing in renal impairment**, Brittany Farrugia, Kristin Watson
- 2-048** **Identification of patient barriers in reaching evidence-based low-density lipoprotein cholesterol (LDL-C) goals in a pharmacist-run lipid clinic at a Veterans Affairs medical center**, Kelly E. Martin
- 2-049** **Management of high risk patients at the Walter Reed Army Medical Center**, Shamika S Pryor, Mitsi Lizer
- 2-050** **Tumor lysis syndrome hyperuricemia: Evaluation of rasburicase single-dose 6mg and repeat-dose 6mg**, Ashleigh N Vines, Carl Shanholtz, Jennifer Thompson
- 2-051** **Analysis of medication adherence after acute coronary syndrome in southeast Michigan using geographic information systems (GIS)**, Cuong Hoang, Steve Erickson, Danielle Gwinn
- 2-052** **Assessing Chronic Disease Medication Adherence: Revising the Morisky Scale to Create a New Self-Report Measurement Tool**, Megan Hinkley, Megan Schlenker, Jennifer Lins, Steve Erickson
- 2-053** **Assessment of contributions of doctor of pharmacy students on the infectious disease rotation**, Melissa Lipari, Sarah Kirk, Pramodini B. Kale-Pradhan, Michelle Dehoorne-Smith, Gary Blake
- 2-054** **Comparing Charlson comorbidity index and GRACE in predicting mortality and secondary events**, Emily Cole, Steve Erickson
- 2-055** **Comparison of Cardiovascular Risk among the Young in Developed and Developing Nations**, Akinyemi Oni-Orisan, Kendra Yum, Yi Liu, Jenna Kast, Hiep Ho
- 2-056** **Compliance with antimicrobial stewardship quality indicators after implementation of a standardized order form**, Katherine A Jennings, Jona Lekura, Melissa Miller, Ankit Desai, Susan Davis
- 2-057** **Dosing Vancomycin in Adolescent Patients**, Jacob W Holler, Kristin C Klein

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 2-058** **Effect of the implementation of smart patient controlled analgesia (PCA) pumps on PCA administration safety**, Mai Tran, Scott Ciarkowski, Jim Stevenson, Deborah Wagner
- 2-059** **Epidemiology and outcomes of cytomegalovirus (CMV) in allogenic hematopoietic stem cell transplant (aHSCT) patients at a University Hospital**, Karlye Pesci, Daryl D. DePestel, David Frame
- 2-060** **Evaluating the adequacy of local empiric antimicrobial therapy recommendations**, Melissa B. Miller, Ankit Desai, Katherine A Jennings, Jona Lekura, Rachel Chambers
- 2-061** **Evaluation of antibiotic use for febrile neutropenia on an inpatient oncology unit**, Nimisha Soni, Daniel Bestul, Anjly Sheth
- 2-062** **Evaluation of compliance with local empiric antimicrobial guidelines**, Ankit Desai, Katherine Jennings, Jona Lekura, Melissa Miller, Rachel Chambers
- 2-063** **Evaluation of long-term anticoagulation in patients with left-ventricular assistance devices**, Jane McDonnell, Douglas Jennings
- 2-064** **Evaluation of the appropriate use of fondaparinux (Arixtra) for inpatient use at Henry Ford Hospital**, Jennifer Hagopian, Danielle Holowecky, Jessica Schillig, James Kalus
- 2-065** **Hemodynamic and electrocardiographic effects of short-term cyanocobalamin administration on healthy volunteers**, Magan Ma, Doug Jennings, James Kalus
- 2-066** **Identifying Patient Needs for Managing Chronic Conditions with Medications: A Focus Group Analysis**, Andrea Baumer, Suzan Kucukarslan, Nancy Lewis, Leslie Shimp, Caroline Gaither
- 2-067** **Ifosfamide-induced encephalopathy: identifying risk factors and evaluating treatments**, Harjot Jassal, Harjot Jassal, Daniel Bestul
- 2-068** **Medication-use evaluation of intravenous levetiracetam utilization in a large, private-academic institution**, Nicole Ghannam, Lisa Forsyth, Allycia Natavio
- 2-069** **Pharmacy emergency preparedness response using the incident command structure (ICS): evaluation of member roles & improvements as discovered in a mock drill**, Jamie Mummee Hwang, Jamie Mummee Hwang, Joanne MacDonald, Angela Milad, Greg Polk
- 2-070** **Physician's Beliefs, Attitudes, and Intentions toward Collaborating with Pharmacists in Ambulatory Healthcare Setting for Chronic Disease Management in Diabetes Patients**, Karen Kim, Noor Al-Bassam, Yannan Dong, Steven Lai, Suzan Kucukarslan
- 2-071** **Physicians' beliefs, attitudes, and intentions toward collaborating with pharmacists in ambulatory healthcare settings for chronic disease management in asthma patients**, Steven K Lai, Noor Al-Bassam, Yannan Dong, Karen Kim, Suzan Kucukarslan
- 2-072** **Post market research efforts of selected anti-diabetic agents**, Vishal R. Patel, Mohamad Hammoud, Chending Wu, Nabil Khalidi
- 2-073** **Student participation in antimicrobial stewardship: a directed study elective course**, Jona Lekura, Melissa Miller, Ankit Desai, Katherine Jennings, Susan Davis
- 2-074** **Survey of left ventricular assist device (LVAD) surgical infection prophylaxis (SIP) practices**, Nicholas A Miles, Paul Walker, Daryl DePestel, Preeti N Malani
- 2-075** **Symptoms consistent with serotonin excess during concomitant therapy with linezolid and serotonin re-uptake inhibitors**, Gregory M. Kwiatkowski, Stephen Stout, Michael Kraft, Daryl DePestel, Valerie San Luis, Lynda Welage

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 2-076** **The Impact of a Pharmacist Directed Anticoagulation Services on Transition from the Inpatient to Outpatient Setting**, Danielle Holowecky, Jennifer Hagopian, Jessica Schillig, James Kalus
- 2-077** **Tracking the management of heparin-induced thrombocytopenia (HIT) at Henry Ford Hospital**, Long To, Jessica Schillig, James Kalus
- 2-078** **Use of naloxone during rapid response team (RRT) calls at University of Michigan hospitals and health centers (UMHHC)**, Luba Y Burman, Deborah Wagner
- 2-079** **Collaboration of Pharmacy and Medical Students in Implementing the HOPE Clinic**, Nishi Patel, Megan Clairmont, Nicholas Vidor, Marie Lange
- 2-080** **Impact of an Emergency Room Medication Reconciliation Service on Patient Satisfaction**, Arinzechukwu Nkemdirim Okere, Michael Swanoski, Charles Gessert, Colleen Renier
- 2-081** **Assessment of a clinical pharmacist's impact on the appropriateness of use of doripenem in the intensive care unit at a community hospital.**, Kelsey Koon, Alison M. Stevens, Michael W. Daly, Erik Schindler
- 2-082** **Comparison of major and minor bleeding in percutaneous coronary intervention using heparin and glycoprotein IIb/IIIa inhibitors versus bivalirudin alone**, Kathleen Buechter, Kristian Navickas, Zachary Stacy
- 2-083** **Cost-savings analysis of albuterol versus levalbuterol in the pediatric setting**, Kathryn Grace Brenner, Nausheen Hasan, Megan Van Berkel
- 2-084** **Evaluating the appropriateness of albumin prescribing: a retrospective hospital medication utilization evaluation**, Brian D. Miller
- 2-085** **Evaluation of alvimopan use for the management of postoperative ileus**, Bethany R. Tellor, Jennifer R. Smith
- 2-086** **Evaluation of concomitant clopidogrel and acid-suppressant therapy: a pharmacist-initiated intervention**, Erin L. Nagle, Amy M. Drew
- 2-087** **Evaluation of the appropriateness of vancomycin dosing and therapeutic drug monitoring based on current consensus guidelines**, Cory Adolf Blacksmith, Heather A. Payton, Erik Schindler
- 2-088** **Interprofessional health fair at the University of Missouri-Kansas City: osteoporosis screening booth student experience**, Jennifer N. Molnar, Sarah Dodson, Crystal D Obering
- 2-089** **Results of an osteoporosis screening in an underserved population: One segment of the UMKC interprofessional fair**, Sarah Elaine Dodson, Jennifer N Molnar, Crystal D Obering
- 2-090** **Staphylococcus aureus infections: an analysis of medical intensive care unit patients at a 500-bed rural teaching hospital**, Amanda Hofstetter, Katie Ronald
- 2-091** **The Impact of Antibiotic Administration Time In Sepsis Patients**, Shelley H. Otsuka, Katie Ronald
- 2-092** **Venous thromboembolism prophylaxis in the medically ill: a retrospective comparison of pharmacy and physician-guided strategies.**, Micha E Scabarozi, Katie Johanning, Alan Seaton, Zachary Stacy
- 2-093** **Assessment of peripheral artery disease in patients with a history of vitamin D deficiency**, Amber Deshay Guinn, Vikki M Steward, Tamisha N Hendrix, Daniel M Riche, Honey E East

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 2-094** **Change in self-reported physical activity among Science, Language Arts and Mathematics (SLAM) participants since implementation of the Mississippi Healthy Students Act**, Lauren A. Kimmons, Deborah Minor, Kris Harrell, Wendy White, Nimr Fahmy
- 2-095** **Changes in lipid control in patients on "non-four dollar list" HMG-CoA reductase inhibitors who were switched to a different drug due to the availability of HMG-CoA reductase inhibitors on "four dollar lists"**, Justin Bradley Marx, James Pitcock, Katie S. McClendon
- 2-096** **Clinical implications of updated lipid guidelines among 2009 Science, Language Arts, and Mathematics (SLAM) participants**, Rebecca Taylor, Debbie Minor, Stephanie Davis, Natalie Petersen, Kris Harrell
- 2-097** **Comparison of dietary trends among SLAM participants with current state and national trends**, Tristen Jackson, Debbie Minor, Melissa James, Wendy White, Kris Harrell
- 2-098** **Correlation Between Risk Factors for Metabolic Syndrome and Self Reported Health Indices in Mississippi Adolescents Participating in SLAM 2009**, Jon G Jackson, Patrick Boler, Kenneth Butler, Deborah Minor, Kristopher Harrell
- 2-099** **Correlation of body mass index with fruit and vegetable intake in Mississippi adolescents participating in SLAM 2009**, Quint Hunt, Debbie Minor, Andrew Lohrisch, Kris Harrell
- 2-100** **Effect of hydroxymethylglutaryl-coenzyme A reductase inhibitor therapy on serum adiponectin concentrations: a meta-analysis of randomized controlled trials**, Travis King, Lauren Kimmons, Wesly Pierce, Daniel M Riche
- 2-101** **Pain management in a women's specialty hospital**, Andria Brook Budwine, John Bridges, Clay Cooper, Thomas Greenwell, Vijaya Duggirala
- 2-102** **Pharmacy schools effects on overall physical and nutritional health**, Courtney Young, Andria Budwine, Viola Hreish, Kristopher Harrell
- 2-103** **Psychiatric rehospitalization following hospital discharge on risperidone long-acting injection**, Jerry D. Vaughn, Brian Crabtree, Laura Yonker, Cynthia Evans
- 2-104** **Social Attachment Scale for Adults (SATS-A): correlations with medication adherence and social support**, Patrick Lynn Boler, Amber S Holdiness, Debbie Minor, Ken Butler, Marion Wofford
- 2-105** **Antibiotic prescribing for urinary tract infections in ambulatory care patients**, Amanda C. Zomp, Michael E. Wright, Tina Tseng, PhD, Melissa D. Johnson, PharmD, MHS, D. Byron May, PharmD, BCPS
- 2-106** **Assessing the use of proton-pump inhibitors (PPIs) in general medicine non-intensive care unit patients**, Maureen Bottino, Dalia Mack
- 2-107** **Association between parental education level, perception of child's weight, and acceptance of obesity counseling: opportunities for pharmacists**, Christopher E Anson, Daniel Waller, Melissa D Johnson, Tina Tseng, Ray Tseng
- 2-108** **Association between prescription medication filling errors and pharmacy technician certification**, Melissa D Green, Benjamin H Edwards, Shannon Hawkes, Melissa D Johnson, Elliot M Sogol
- 2-109** **Detection of contaminants from the use of docetaxel and paclitaxel chemotherapy in the work environment via ChemoGLO**, Vinh Hoang, Stephen Eckel, Hiep C. Tu, Suzan K Hanna, William C Zamboni

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- 2-110** **Dexmedetomidine use in ventilated patients in a neonatal intensive care unit,** Michael L. Hurtik, Keliana O'Mara, Peter Gal, John Wimmer, J. Laurence Ransom
- 2-111** **Effect of positive vancomycin resistant enterococcus screens on antimicrobial therapy selection,** Ian R. Willoughby, Ralph H. Raasch
- 2-112** **Effects of protease inhibitors or non-nucleoside reverse transcriptase inhibitors on the time it takes to reach a therapeutic warfarin dose in HIV-infected subjects,** Anthony Chase Shelton, Robyn J Redus, Sarah A McKee, Melissa D Johnson, Mary Townsend
- 2-113** **Efficiency of initial vancomycin dosage regimens in achieving therapeutic targets in patients treated for pulmonary exacerbations of cystic fibrosis,** Aaron P. Webb, Dennis M. Williams, Jennifer L. Barrow, Lindsay M. Daniels, Ralph H. Raasch
- 2-114** **Ethnic and racial differences in parental willingness to accept obesity counseling from non-physician healthcare providers,** Daniel Waller, Christopher E Anson, Melissa D Johnson, Tina Tseng, Ray Tseng
- 2-115** **Evaluating the effectiveness of a group lipid clinic at maintaining lipid goals in high risk patients at the Durham Veterans Affairs Medical Center,** Holly E. Causey, Debra W Kemp, William Gersch, Stephanie Melnyk, Wissam Kourany
- 2-116** **Evaluation of an antimicrobial stewardship program (ASP) in a community hospital,** Kathryn Givens Merkel, Susan Miller, Serina Tart, William Gardner
- 2-117** **Evaluation of Aprepitant and Fosaprepitant Use in the Inpatient Setting,** Rachel A. Younger, LeAnne Kennedy, Brandy Strickland
- 2-118** **Evaluation of Asparaginase Therapy and its Related Adverse Events,** Mona Benrashid, Dana Fasanella, Helen Stevens, Brandy Strickland, LeAnne Kennedy
- 2-119** **Evaluation of stress ulcer prophylaxis in a family medicine residency inpatient service,** Carrie Griffiths, R. Wesley Haynes, Heather Kehr, Sonia Everhart, Brent Messick
- 2-120** **Hepatic safety of long-term exposure to capsosungin or micafungin among patients at Duke University Medical Center,** Brittanie Hatch, Sunita Pullaiah, Danielle Shannon, Robert Schmid, Melissa D Johnson
- 2-121** **Implementing a condensed continuing professional development (CPD) training program as a tool for lifelong learning among hospital pharmacists,** Rebecca Jones, Toyin Tofade, Leigh Foushee, Stephen Eckel, Steve Caiola
- 2-122** **Investigating the association between quality of asthma care and socioeconomic status among adults diagnosed with asthma,** Megan L. Ward, Barton Robbins, Brandon Jolley, Tina Tseng, Melissa Holland
- 2-123** **Outcomes of obese patients receiving daptomycin for gram positive bacteremia,** Jayme M Lentz, Amie D Mousseau, Christopher L Williams, Melissa Holland, Melissa D Johnson
- 2-124** **Paying for pain relief: the relationship between patients expected payment method and analgesic prescribing,** Robert Lalley, Robert Lalley, Chris Ogles, Melissa D Johnson, Tina Tseng, Melissa Holland
- 2-125** **Potential patient time savings in a pharmacist-led disease management program: a comparison of traditional mydriatic diabetic retinopathy screening in an ophthalmology clinic vs. non-mydriatic digital photography screening during a primary care clinic vis,** Jamie Jurkiewicz, Robb Malone, Dan Jonas, Betsy Bryant Shilliday, Seema Garg

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 2-126 Predictors of Cholinesterase Inhibitor Use in an Outpatient Geriatric Interdisciplinary Clinic at an Academic Teaching Hospital**, Katharine A McGrail, Jenna Ivey Burkhart, Holly J. Coward
- 2-127 Proton pump inhibitor regimen adherence in the Hispanic/Latino population**, Ana R. Cerna, Kelly Scolaro, Douglas Morgan
- 2-128 Recombinant factor VIIa utilization in anticoagulated patients with intracranial hemorrhage**, Stacy L Elder, John Valgus, Jill Bates, Larry Buie, Emily Durr
- 2-129 Requirements of pharmacy residency teaching certificate programs**, Kristopher C. Rusinko, Jennifer Stegall-Zanation, Stephen Eckel
- 2-130 Retrospective study examining the association between intramuscular aripiprazole and QT interval prolongation in agitated hospitalized patients**, Caitlin M Hughes, Andrew Muzyk, Wei Jiang, Jane Gagliardi, Sarah Rivelli
- 2-131 Role of calcium administration in combination with non-dihydropyridine calcium channel blockers in patients with supraventricular arrhythmias**, Carla Gwyn Martin Jardin, Kristen Campbell, Jennifer Mando-Vandrick
- 2-132 Study to determine the optimal time to make successful first time follow follow-up calls to patients enrolled in the Study of Myocardial Perfusion and Coronary Anatomy Imaging Roles in CAD (SPARC)**, Dana R. Fasanella, James R. Johnson
- 2-133 Vancomycin toxicity in obese patients**, Whitney N Chaney, Jeff Gross
- 2-134 Analysis of adult populations' immunization status**, Anne Westerman, Sarah Marting
- 2-135 Assessment of quality of care indicators after implementation of HIT at a rural critical access hospital**, Rachel M Rohrs, Tyler Watkins, Donald G. Klepser, Gary Cochran
- 2-136 Evaluation of treatment practices and outcomes for dyslipidemia at a student run clinic for the underserved**, Elizabeth E. Eickman, Donald G. Klepser, Kristen M. Cook
- 2-137 Medication management of diabetes at a student-run, safety-net clinic: can a student-run clinic follow a modified consensus algorithm for diabetes care?**, Megan R. Nelson, Donald G. Klepser, Kristen M. Cook
- 2-138 Retrospective analysis of dexmedetomidine usage in the intensive care unit of an academic hospital**, Colleen Czerniak, Emilie Goldsberry, Tammy Burns, PharmD, Lee Morrow, MD, Mark Malesker
- 2-139 Cost-effectiveness and budget impact of Canakinumab in patients with Cryopyrin associated periodic syndromes**, Neetu Agashivala, Wing Chan, Dong Suh
- 2-140 Healthcare Professionals United**, Bharath Ravichandran, Bharath Ravichandran, Sandra Moorhouse
- 2-141 Battling Pandemic Flu: Pharmacy on the Front Line**, Janet Kook, Christina Madison
- 2-142 Patient reported herbal and dietary supplement use and physician documentation-measuring the communication gap in warfarin-treated patients**, Kim A Manubay, Jennifer Strohecker, Krystal Moorman
- 2-143 Student pharmacists role in a newly expanded anticoagulation service**, Tyson B. Bigelow, Casey Hansen, April Harris, Jennifer Strohecker, Stephanie Barton
- 2-144 Acute interstitial nephritis associated with piperacillin-tazobactam therapy**, Oren Kim, Xiyi Zhang, Olga Hilas
- 2-145 Case for Life Long Dual Antiplatelet Therapy Beyond Current Guidelines in Patients Receiving Drug Eluting Stents**, Brian Jeffrey Wetzel, Nick B Norgard

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 2-146** **Clinical Characteristics and Outcomes of Patients with Carbapenem-Resistant Enterobacteriaceae (CRE)**, Mallory M Fiorenza, Nimish Patel, Amanda Dihmess, Pearl Martis, Thomas Lodise
- 2-147** **Descriptive analysis of regional disparities among pharmacy residency programs in the United States.**, Kerri Z Kaplan, Bupendra Shah, Suzanna Gim, William Vincent III
- 2-148** **Determining the Pharmacy Technician certification standards within hospitals in New York City**, Ephigene Banzuelo, Jonathan Horvath, Andrew Lam, Bupendra Shah
- 2-149** **Economic Burden of Lung cancer and survival analysis in lung cancer patients:Literature Review**, Nishita V Joshi
- 2-150** **Economic burden of missing doses in an institutional pharmacy**, Jennifer M. D'Addario
- 2-151** **Evaluating the protocol adherence and the ability to achieve target hemoglobin levels in hemodialysis patients at a community-teaching hospital**, Vimitha Mathai, Alla Kotlyanskaya, Natalie Tong
- 2-152** **Evaluation of patient understanding of medications on an international medical mission trip**, Alexander John DeLucenay, Elysa Lampell, Denise Torcello, Amanda Gueli, Christine Birnie
- 2-153** **Evaluation of the Incidence and Severity of Hematologic Toxicities of Topotecan in Patients with Recurrent Ovarian Cancer**, Melissa C. Mackey, Grazyna Riebandt, Joshua Kesterson, Kunle Odunsi, Shashikant Lele
- 2-154** **Evaluation of the relative incidence of clozapine-related adverse events via analysis of FDA MedWatch reports**, Nicholas Falco, Terrance Bellnier, Lauren McCarthy
- 2-155** **Evaluation of the use of dexmedetomidine in neurology intensive care unit and medical intensive care units at a community teaching hospital**, Namit Patel, Yee Won Low, Mini Varghese, Rachna Kapoor, William F. Rickley
- 2-156** **Febuxostat-induced theophylline toxicity: a case report**, Tram Dao, Sally Arif
- 2-157** **Incidence and characterization of thrombocytopenia in patients treated with eptifibatide**, Jill Jessmer, Kimberly Zammit
- 2-158** **Incidence rates of adverse events linked to second generation antipsychotics as reported to the FDA through the Adverse Event Reporting System (AERS)**, Miranda Minhas, Terrence Bellnier
- 2-159** **Polymyxin B use in an acute care hospital: a retrospective medication usage evaluation**, Helen Eldabie, Teena Abraham, Nasser Saad, Fabienne Vastey, Eric Balmir
- 2-160** **Prevalence of the Alzheimer's disease in nursing home patients - using National Nursing Home Survey (2004)**, Hrishikesh P Kale, Rashmi R Nair
- 2-161** **Tigecycline use in an acute care hospital setting: A retrospective medication usage evaluation**, Jaime Walker, Teena Abraham, Nasser Saad, Fabienne Vastey, Eric Balmir
- 2-162** **A pharmacoeconomic analysis of erythropoiesis stimulating agents and granulocyte-colony stimulating factors after renal transplant rejection**, Rachel M Kruer, Teresa Cavanaugh, Pamela Heaton, Jill Martin Boone
- 2-163** **Analysis of Pharm.D. Students' Interest Regarding Postgraduate Pharmacy Residencies**, Erin Rhodes, Kristen Finley, Kelly Shields
- 2-164** **Cardiovascular goal attainment and adherence among patients in an internal medicine clinic**, Amanda M. Etnyre, Allison Alexander, Debra L. Parker, Teresa Hoffmann, Laura L. Manzey

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 2-165** Cost-effectiveness of injectable vancomycin taken orally for the treatment of *Clostridium difficile* infection, Dawn Marie Miller
- 2-166** Developing a proactive process for ensuring safe use of U-500 insulin: a high risk medication, Tiffany R. Shin, Ellen A. Keating, Janinah S. Barreto, Amanda J. Hafford
- 2-167** Development of a patient education tool for cancer patients interested in using complementary & alternative oral therapies, Kelly Kay Hoffmann, Brooke Crawford
- 2-168** Development of a pharmacy intern experience for a medication assistance program, Michael B Smith, Niesha Griffith, Sarah Hudson-Disalle, Karen Wetz
- 2-169** Development of a USP compliance multi-media educational presentation for a nuclear pharmacy, Laura Bauman, Karen Wetz, Cowan (Sonny) Edwards, Aaron Haynam, Niesha Griffith
- 2-170** Impacting HIV patient outcomes through participation in the Patient Safety and Clinical Pharmacy Services Collaborative, Jenny M. Mason, Kristen Lamberjack, Kimberly Bates
- 2-171** Implementation of discharge education to patients and their caregivers: an effort to improve continuity of care between the inpatient and outpatient settings, Paul A. Der, Thaddeus Franz
- 2-172** Improving the process for emergency response at off-site imaging locations, Sarah Hutfilz, Niesha Griffith, Jeannie Danker
- 2-173** In-vitro model to assess for vancomycin-induced ototoxicity, Jason A. Harsanye, Richard W Dudley
- 2-174** Medication use evaluation of basal-bolus insulin protocol, Anna Capretta, Josh Cox, Anne Metzger
- 2-175** Patient weight accuracy in hospital computer systems, Paul Miller, David Aufdencamp
- 2-176** Physician attitudes of clinic-based pharmacist practice, Deron Thomas Lundy, Marialice Bennett
- 2-177** Systemic absorption of topical voriconazole in a severely injured burn patient, Stephanie L Hasty, Anthony T Gerlach, Claire Murphy
- 2-178** Tigecycline utilization for resistant infections in a community teaching hospital, Steven J Margevicius, Abbi Smith, Kim Blanco
- 2-179** Utilization of home parenteral antibiotics to treat gram positive infections, Tessa Overman, Kenneth Speidel, Sandra Earle, Brad Shinn
- 2-180** Clinical impact of the Indian Health Service Anticoagulation Training Program, Nicholas D Sparrow, Ryan Schupbach, Michael Miller, Donald L. Harrison
- 2-181** Community pharmacist behaviors regarding pediatric prescriptions, Jennifer F Velsor, Michelle E. Condren, Shane Desselle, Tao Wei
- 2-182** Electronic Cigarettes: Are They Really a Healthier Choice?, Ean Caleb Miller
- 2-183** Impact of prescription reviews on error rates in a pediatric clinic, Megan G. Andrews, Michelle E. Condren
- 2-184** Review of appropriate enoxaparin utilization and monitoring in an inpatient setting, Mark A Kostelnik, Timothy Murray, Jodi Sparkman
- 2-185** Addressing the issue of polypharmacy within the VHA North Texas healthcare system, Ranita K Patel, Dominique Williamson
- 2-186** Blogging about the "real world": student-driven reflection of advanced pharmacy practice experiences, Karyn Zyvan, Brad S. Fujisaki, Yvette Grando Holman

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

2-187 **Calcium salts in neonatal total parenteral nutrition (TPN): a comparison study,**
Sundari Poegoeh, Amy McCarthy, David Rochon

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

[Monday, 10:30 p.m. – 12:00 p.m.](#)

[Monday, 12:30 a.m. – 2:00 p.m.](#)

Tuesday, 11:30 a.m. – 1:00 p.m.

- 5-001 **Design and implementation of strategies to benchmark and reduce ADEs in a new community hospital**, Joy P. Alonzo
- 5-002 **A case report of vancomycin-intermediate Staphylococcus aureus (VISA): a review of risk factors and considerations**, Louise-Marie Gillis, Safia Kuriakose, Ryan Shields, Brian Potoski
- 5-003 **A retrospective medication use evaluation of rituximab in patients with Non-Hodgkins Lymphoma at a community teaching hospital**, Christina Marie Balmert, Lindsey R. Kelley
- 5-004 **Acetaminophen toxicity guidelines obtained from poison control centers: an in depth review of current recommendations and toxicity management**, Olga Kurdelchuk, Maria Chinikailo, Rodney Turner, Sachin S. Devi
- 5-005 **Acute Beta-Blocker Toxicity: A Case Report**, Felicia Falvo, Amanda Kratz, Nicole Perkowski, Patrick J. McDonnell
- 5-006 **An analysis of the transition to electronic documentation of home medication reconciliation in the emergency department**, Ann Vilella, Jordan Posey, Jillian Szczesiul, Abby Kahaleh
- 5-007 **Aspergillosis in a patient with chronic obstructive pulmonary disease (COPD) on fluticasone: a case report**, Safia Kuriakose, Louise-Marie Gillis, Ryan K Shields, Brian A Potoski
- 5-008 **Assessment of Medication Reconciliation at a Community Teaching Hospital**, Kristina Kipp, Philip Maher, Ngoc Tran, Nicki Patel, Jean Scholtz
- 5-009 **Association between proton pump inhibitor therapy for stress ulcer prophylaxis and Clostridium difficile associated disease in critically ill patients**, Joshua Guinter, Scott Bolesta
- 5-010 **Bendamustine-induced pancytopenia: a case report**, Katsiaryna Bykov, Timmi E. Rathappillil, Patrick J. McDonnell
- 5-011 **Bleomycin-Induced Pulmonary Toxicity: A Case Report**, Behnam Shavalian, George Ayoub, Wayne Leung, Patrick J. McDonnell
- 5-012 **Bridging inpatient to outpatient: sending patients home with medications and examining re-hospitalization rates (BIO-SPHERE): a concept map**, Matthew J Felbinger, Julie Lauffenburger, Jamie Montgomery, Kristen Sakely, Tanya Fabian
- 5-013 **Creation and implementation of over-the-counter (OTC) medication use guidelines for university-based athletic trainers**, Jeremy S Stultz, Dennis Swanson, Brooke Lowry, Melissa Somma McGivney
- 5-014 **Drug utilization evaluation of epoetin alfa for the treatment of anemia in chronic kidney disease (CKD) patients at a tertiary hospital**, Cheryl Chen, Rowell Medina
- 5-015 **Effect of proton pump inhibitors (PPIs) on the antiplatelet efficacy of clopidogrel and prasugrel: a review of published and unpublished literature**, Nathan J Dahl, Elizabeth Reist, Erin Stack
- 5-016 **Evaluation of a computerized warning system's impact on rate and documentation of venous thromboembolism (VTE) prophylaxis**, Abby Martin, Jordan Posey, Colleen Hall, Rachelle Whiteside, Rob Simpson

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 5-017** Evaluation of appropriate utilization and dosing of meropenem at a tertiary medical center, Kimberly Toussaint, Devon Lee, Jennifer Caggiano, Krista Baron, Jason Gallagher, Anna Wodlinger
- 5-018** Evaluation of bivalirudin use for carotid stenting at a large academic, tertiary care center, Daniel Totleben, Nancy Kablack, Ann Villella, Chris Stefura, James Coons
- 5-019** Evaluation of indication, dose and frequency of levalbuterol use at a tertiary hospital, Elizabeth Jackson, Timmi E. Rathappillil, Saniya Aggarwal, Courtney D Vincent, Anna Wodlinger
- 5-020** Evaluation of nursing compliance with Alaris smart intravenous (IV) infusion pump Guardrail software technology, Alicia Kejia Zhu
- 5-021** Evaluation of the Karam Rybak nomogram as a replacement for individualized vancomycin dosing in a community hospital, Kristen A. Phillips, Krista Baron, Bruce H. Ackerman, Stephanie Uses
- 5-022** Fibromyalgia Syndrome: Assessment and Management of Outcomes Survey (FMS-AMOS), Kaitlin E. Oglie, Christie Urbanski, Nicole Ansani-Jankowski, Kevin Lynch
- 5-023** Fomepizole for the treatment of ethylene glycol ingestion, Akta Patel, Darlene Chaykosky, Carrie McClintic
- 5-024** Has the "tiger" been released from the cage? a year in review of tigecycline prescribing trends, Megan Geier, Leah Silvonek, Noreen H. Chan-Tompkins
- 5-025** Lipid profile changes associated with changing available formulary statins: a long-term follow-up, Courtney L. Eleazer, Daniel Longyhore, Casey McNulty Stockton
- 5-026** Medication therapy management in ambulatory settings: an opportunity for pharmacy students, Rodney Brigg Turner, Elizabeth Reist, Amanda Carine, Joseph Spencer, Abby Kahaleh
- 5-027** Pediatric Discharge Counseling, Emily Joy Lancaster, Jennifer Tuttle
- 5-028** Probability of adverse events following administration of prothrombin complex concentrate for warfarin reversal, Kristin M Garnett, Megan Geier, Leah Silvonek, Michael Korczynski
- 5-029** Relating high international normalized ratio (INR) on emergency department admission to hospital course: a retrospective data analysis, Prachi D Bhatt, Michael J Cawley, PharmD., BS., RRT, CPFT, Richard Pacitti, PharmD, MBA
- 5-030** Smokeless tobacco cessation: evidence-based recommendations, Amanda Carine, Elizabeth Reist, Rodney Brigg Turner, Joseph Spencer, Abby Kahaleh
- 5-031** Stress ulcer prophylaxis in a mixed medical and trauma critical care unit, Jillian A Felicetti, Anthony E Angelucci, Michael J Cawley, PharmD., BS., RRT, CPFT, Lucinda L Scheuren, PharmD
- 5-032** Successful clozapine treatment in a patient with a history of neutropenia associated with prior antipsychotic therapy: a case report, Rebecca L. Graham, Krina H. Patel
- 5-033** Therapeutic drug monitoring with posaconazole therapy in a patient with invasive mucormycosis: a patient case report, Rachana Patel, Diana Mercado, William Pace, Brandon Palermo, Radhika Polisetty
- 5-034** Treatment of hypoglycemia in non-critically ill patients at Temple University Hospital, Kristin L Reigle, Kerry Stormes, Xiaoyun Connie Yang, Mirza E. Perez
- 5-035** Trimethoprim-sulfamethoxazole and the development of hyperkalemia in an adult rehabilitation hospital population, Marybeth Stahr, Oanh Nguyen, Dominick Trombetta, Diane Moolick

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 5-036 Utilization of a pharmacy student to develop a pharmacist-managed hypertension clinic within a primary care practice**, Melanie R. Woytowish, Deanne Hall, Gary Fischer, John Donehoo
- 5-037 Development of a high performance liquid chromatography ultraviolet (HPLC-UV) assay for determination of urinary 6 beta hydroxycortisol to cortisol ratio, a noninvasive marker for CYP3A activity**, Karen Elizabeth Thudium, Fatemeh Akhlaghi
- 5-038 Implementation of offsite learning provides students with new insight to caring for older adults.**, Amanda L. Dugal, Caitlin G. Lucy, Erica L. Estus
- 5-039 Off-label prescribing for older adults in a family medicine residency program**, Christine Eisenhower, Anne Hume, Arnold Goldberg, Alicia Curtin
- 5-040 Pharmacist led interventions to increase influenza vaccination rates among hospitalized patients**, Maria Kluzek, Nicole Nazy, Mark Curtis, James Mefli, Jeffrey Bratberg
- 5-041 Assessing patient adherence and adverse events with oral chemotherapeutic agents.**, Laura A. Broome, LeAnn Best Norris
- 5-042 Dose capping of obese patients undergoing chemotherapy: is there a difference?**, Sara Utley, LeAnn B. Norris
- 5-043 Effect of ACE inhibitors on renal function in a surgical critical care population**, Katie E Barber, April D. Miller, Brandon Bookstaver
- 5-044 Effect of delayed pharmacologic prophylaxis on venous thromboembolism (VTE) rates**, Elisa C Morgan, Chad Morris, April Miller, Robert Moran
- 5-045 Evaluating the effect of population based volume of distribution and estimated glomerular filtration rate models on elimination rate constant (Ke) in predicting serum vancomycin concentrations**, William M. Parker, S. Scott Sutton
- 5-046 Evaluation of body mass index on glycemic control in hospitalized medicine patients with type II diabetes mellitus**, Andrea Adkins, P. Brandon Bookstaver, April D. Miller, Joshua M. Tebbs, Scott Sutton
- 5-047 Evaluation of pharmacy residents confidence, attitudes, and ability to interpret medical literature**, Danielle L. Tice, Brandon Bookstaver, April Miller, LeAnn B. Norris
- 5-048 Exploring Generational Differences Within a College of Pharmacy**, Catherine Elizabeth McAbee, Catherine Elizabeth McAbee, Celeste Rudisill, LeAnn B. Norris, Richard Schulz
- 5-049 Fluoroquinolone utilization patterns before and after a formulary change**, Melissa L. Thompson, Patrick D. Mauldin, John A. Bosso
- 5-050 Impact of a medication safety management elective in college of pharmacy curriculum**, Christine Konstant, Lindsay Landgrave, LeAnn B. Norris, P. Brandon Bookstaver, Natasha Nicol
- 5-051 Level of student engagement in an interactive distance education elective course in a doctor of pharmacy curriculum**, Cory Jenks, Leslie Martin, Patricia Powell
- 5-052 Nonsteroidal anti-inflammatory drugs and their effects on renal function in hypertensive patients**, Julie H. Cash, S. Scott Sutton, Julie M. Sease
- 5-053 Pharmacy students establishing and facilitating a diabetes self-management education class at a student-run free clinic for the uninsured**, Elizabeth deRoulhac Weed, Annlizbeth B. Orara, Katherine J. Kavanagh, Amy N. Thompson, Sarah Shrader
- 5-054 Practicing in an integrated health-care environment**, Angela L. Bingham, Mary M. Hess

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 5-055** Retrospective analysis to identify patients with concurrent clopidogrel and proton pump inhibitor (PPI) use in a DOD facility, Karin N. Schmugge, Conny H. Shoultz, Sherri G. Henrikson, David B. Lawrence, Karyn E. Wallace
- 5-056** Successful treatment of vancomycin-resistant *Enterococcus faecium* meningitis using high-dose daptomycin, Mohamed G. Hashem, Peter Brandon Bookstaver, Celeste Rudisill, Phillip Yeon
- 5-057** Survey of Employer and Employee Perspectives of Incentive Use in Health Awareness Initiatives, Kendra R Manigault
- 5-059** Acute respiratory distress syndrome improvement with omega-3 fatty acid-enriched enteral nutrition, J. Andy Johnston, Rex O. Brown, Roland Dickerson, Joseph Swanson
- 5-060** Characterization and evaluation of empiric prescribing trends in the emergency department (ED) for the treatment of skin and soft tissue infections (SSTI), Mendie E Brasseale, Heather D Eppert, Crystal L King, Stephanie Surber Grimes
- 5-061** Effects of antipsychotic dosing and frequency of changes on length of stay: a case-control study in an acute psychiatric facility., Kara R Lawson, Cheryl Gray
- 5-062** Factors contributing to healthcare resource utilization in fibromyalgia syndrome, Dustin R. Thomas, Daniel R Marsh, Michelle Zingone, Alexander B Guirguis, Robert E Heidel
- 5-063** Implementing clinical pharmacy services in the emergency department, Alexander R. Quesenberry, Javier Vazquez, Carmen Inquilla, Mary E.D. Yates
- 5-064** Multistep pharmacist-driven intervention to ensure appropriate monitoring of anticoagulant therapy in a community hospital: pre- and post-guideline implementation, Kara B Goddard, Jeanne Ezell, Heather D Eppert
- 5-065** Safety concerns and labeling changes for epoetin alfa: impact on one hospital's utilization, Elisa Greene, Elizabeth Underwood, Joyce Broyles
- 5-066** Statin discontinuation in primary care, Stephanie Surber Grimes, Stephanie Yokley, Anita Airee, Andrea Franks, Michelle Zingone
- 5-067** Analysis of the management of patients with suspected heparin-induced thrombocytopenia through utilization of a 4Ts assessment point system., Sebastian E Perez, Joseph Rinka, Hui Yun, Rodolfo Rangel, David Le
- 5-068** Clinical outcomes of basal insulin infusion versus conventional and intensive insulin therapies in the critically ill, Angelica A Klinski, Geethanjali Pandey, Sujit S Sansgiry, S. Rob Todd, Stephanie Mallow-corbett
- 5-069** Contribution of pharmacy students to pain management pharmacy services in a state psychiatric facility, Ericka S. Columbus, Sania Sultan, Anh Nguyen, Keumboh Tangu, Vivian Abobo
- 5-070** Cost-minimization analysis among digoxin, diltiazem, and metoprolol for the treatment of atrial fibrillation, Theresa Doan, Sandipan Bhattacharjee, Sujit S. Sansgiry, PhD
- 5-071** Current practice assessment of osteoporosis management in a community owned health system, Rakiya Wada, Oluremi Eyikogbe, Monica Robinson Green
- 5-072** Do pharmacists perceive prescription drug reimbursement rate and processing time to be different among Medicare part-D, Medicaid and commercial managed care plans?, Jeetvan G. Patel, Ravi K Goyal, Sujit S. Sansgiry

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 5-073 **Effects of l-cysteine, a precursor of hydrogen sulfide, on cerebral microcirculation,** Angela Renee Hamilton, Richland Mosley, Adebayo Oyekan, Momoh Yakubu
- 5-074 **Establishing a medication bar coding quality control process as a means to ensure patient safety,** Michelle Jane LoTurco
- 5-075 **Evaluating misleading medications claims by pharmaceutical manufacturers- a content analysis of warning letters issued from 2003 to 2008 by the FDA,** Harshali K. Patel, Satabdi Chatterjee, Sujit S. Sansgiry
- 5-076 **Evaluating the rationale for adding aripiprazole to the formulary in a state psychiatric teaching hospital,** Oladipo O. Adebisi, Regina Chi, Vivian Abobo, Bo Sijuwade, Robert Mun
- 5-077 **Evaluation of changes in bone mineral density scores in patients referred to an osteoporosis care clinic service,** Nanita Garg, Natasha Jackson, Kim Birtcher, Jeffrey Sherer, Cathryn Salinas
- 5-078 **Evaluation of diabetes knowledge and management skills in participants enrolled in a promotora led education course in a federally qualified community health center located along the U.S./Mexico border,** Ivan Reveles, Margie Padilla, Melissa Aguirre
- 5-079 **Evaluation of outpatients' recall after receiving warfarin education during hospitalization at ben taub general hospital,** Gift Nweke, Natasha Boutte-Newell, Ogechi O Eshleman, Flora Estes
- 5-080 **Impact of demographics, education and income on blood pressure self monitoring in the community,** Jimmy Manguba, Ivy Poon, Lincy S Lal
- 5-081 **Impact of i-STAT Point-of-Care (POC) system implementation in a pharmacist run anticoagulation clinic, a retrospective analysis,** Tuong-Giao T. Nguyen, Aimee Villalon, Laura Moretti
- 5-082 **Infliximab: a retrospective evaluation of drug utilization within a county hospital,** Inez Sanderson, Jacqueline Milton-Brown, Uche Ndefo, Portia N. Davis
- 5-083 **Oral anticoagulation safety program in an integrated healthcare system,** Rodney Cox, Perry Flowers, Patti Peymann
- 5-084 **Outcomes of diabetic patients who receive clinical pharmacy services,** Misbah A. Moten, Jamie Barner, Jason Jokerst
- 5-085 **Overcoming Challenges in Bar-coding Medication Administration Implementation,** Te Jung Lin
- 5-086 **Phosphatidylserine externalization during apoptosis: Mechanistic studies using an erythrocyte model,** Regina Chi, Alan Schroit, Krishnakumar Balasubramanian
- 5-087 **Predictors of Intranasal Steroid Prescription in the National Ambulatory Population with Allergic Rhinitis,** Ravi K Goyal, Darshan Sangani, Harshali K. Patel, Susan Abughosh
- 5-088 **Prescribing patterns in treating acute otitis media: is the observation option observed?,** Cody Meuth, Angelica Klinski, Rajender Aparasu, Anthony Luparello
- 5-089 **Public sector employee smoking prevalence, nicotine dependence & readiness to quit,** Jacob B Daggett, Hayley Burnside, Steven Dzierba
- 5-090 **Quantification of nursing activities related to medication administration in an intensive care unit: the effect of bedside barcode intervention,** NILANJANA DWIBEDI, Sujit S Sansgiry, Craig P Frost, Anandaroop Dasgupta, Sheeba M Jacob
- 5-091 **Report on coronary heart disease, hypertension, diabetes and obesity in a public sector employee population,** Amberly C Hix, Hayley Burnside, Steven Dzierba

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 5-092** Retrospective evaluation of the effect of protease inhibitors on dyslipidemia in HIV-infected adults, Badal Patel, Rustin Crutchley
- 5-093** Seasonal variation in the incidence of community-associated MRSA (CA-MRSA) skin infections among pediatric patients admitted to United States hospitals, Kelly R. Daniels, Brittany Makos, Christine Oramasionwu, Christopher Frei
- 5-094** Switching patients from clozapine orally disintegrating tablet to generic oral clozapine: clinical case series, Edward Champion Cooper, Stephen R. Saklad
- 5-095** The Impact of Race/ Ethnicity on Medication Utilization and Adherence in Demented Veterans, Ashley Randall Scott, Ivy Poon, Lincy Lal, Marvella Ford, Ursula Braun
- 5-096** Treatment of lead poisoning in a dialysis patient: a case report, Leanna L. Shi, Tony Dasher
- 5-097** Vitamin D deficiency and its association with heart failure, Minhtri Nguyen
- 5-098** Can education improve near miss prescription errors?, Michael Brown, Matt Pepper
- 5-099** A retrospective evaluation of the HIV clinical pharmacy consultant monitoring program within the Federal Bureau of Prisons, Derrick L Botkins, Michael Dupree, Ty Bingham, Kathryn Hodges, Nyedra Booker
- 5-100** Assessing pharmacists' compliance to state mandated counseling on all new prescriptions, Danielle N. Bouldin, Marvin Graves, Amber Joseph, Nathalie Owens, Essence Watson
- 5-101** Development of a renal dosing clinical decision support tool, Wilma Espiritu Tagliente, Perry Taylor
- 5-102** Documentation of the expanded roles of decentralized and rounding pharmacists in a community teaching hospital, Shruti J Brahmhatt, Celeste Vinluan, Jason Hoffman
- 5-103** Establishing an Outcomes Research Elective in an Ambulatory Care Setting for Pharmacy Students, Allison M. Lynch, Evan M. Sisson, Daniel Cole Kildow
- 5-104** Evaluation of diabetes performance measures in an interdisciplinary internal medicine clinic, Teresa Nguyen, Brigitte Sicat, Linda N Onunka
- 5-105** Evaluation of pharmacist intervention in type 1 and type 2 diabetes mellitus patients, Catherine Lee
- 5-106** Incidence of bleeding events in new onset atrial fibrillation patients being initiated on antithrombotic therapy, Nicole Graham
- 5-107** Metabolic acidosis occurring in preterm neonates subsequent to total parental nutrition administration, Brittney D. Wilkerson, Lisa L. Johnson, Eboni Y. Hurst, Nicole J. Pryor, Deidre R. Payne
- 5-108** Patients' perceptions of pharmacists, Anthony A A Morha, Anthony A A Morha, Lakisha Anderson, Arnaldo J Figueroa, Denisha Jenkins, Alan Sullins
- 5-109** Relative importance of obesity, insulin resistance and metabolic syndrome in the elderly: risk of cardiovascular disease, Julie Villanueva, Hala Zreikat, Kai Cheang
- 5-110** Retrospective examination of the effect of N-acetylcysteine on postoperative blood loss parameters in the coronary artery bypass graft (CABG) patient, Amber Wesner, Marcia Brackbill, Christine Sytsma
- 5-111** Successful tobacco cessation: Understanding the needs of patients and providers, Cindy R Quejada, Erin Adams, Carl Tullio, Shannon Goldwater

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 5-112 **Assessing broad spectrum antimicrobial usage in a community hospital: initial steps towards antimicrobial stewardship program implementation**, Brittany Marshall, Lindsay Usinger, Chris Cook, Trisha Tom
- 5-113 **Effects of plasmapheresis on mycophenolic acid levels: designing a protocol**, Stacy A. Crow
- 5-114 **Evaluation of pharmacy online training module for Joint Commission survey preparation**, Dalari Fales, Michelle Sodorff, Carol Vanevenhoven, Megan Willson
- 5-115 **Improvement and standardization of warfarin patient education through design and implementation of a warfarin video**, Leanna Davis, Kayla Klein
- 5-116 **Initial antibiotic prescribing for community-acquired pneumonia in the emergency department: comparison of compliance to current guidelines pre- and post-implementation of a physician order set**, Rebecca M. Kingsley, Cathie Jamieson
- 5-117 **Patient education around high-risk medications in a rural community hospital**, Ehren Wainwright, Margaret Hummel-Mitchell, Kimberly Fischer, Cheryl Horne
- 5-118 **Reducing errors in anti-emetic therapy for chemotherapy regimens by the utilization of standardized chemotherapy order forms: the initial phase of progression towards computerized physician order entry.**, Diana Borrego, Sandy Kinsman
- 5-119 **Substituting small volume nebulizers (SVNs) for metered dose inhalers (MDIs): an inpatient pilot study evaluating patient safety and medication cost**, Sean Dyce Thurston, Lance Muncey
- 5-120 **Comparison of student and faculty perception of various teaching techniques.**, Lindsay Zatezalo, Jenna Merandi
- 5-121 **Effectiveness of hospital order sets in changing outcomes for patients with pneumonia**, Jessica B. Winter, Heather Leezer Stocking, Brian M. Hodges
- 5-122 **Effectiveness of pediatric antibiotic discharge orders in the emergency department**, Julie S. Hull, Renee Robinson, Judy Rose
- 5-123 **Effects of lycopene and docetaxel treatment on the LNCaP prostate cancer cell line**, Breanne W. Donohue, Michelle L Herdman
- 5-124 **Health literacy and over-the-counter medication therapy**, Daphne V. O'Hara, Julie C. Gegg, Diana Vinh
- 5-125 **MacGyver method: Utilization of an innovative medication administration method to avoid hypersensitivity reactions in the caregiver.**, Jessica E. Kreger, Judy Rose, Renee Robinson
- 5-126 **Pilot analysis of patient-related barriers to cancer pain management in a rural Appalachian cancer center**, Erin B. Bailey, Michael Newton
- 5-127 **Potential warfarin malabsorption in a patient with significant removal of the small bowel**, Eric Beeson, Jonathan M Kline, David Baltierra
- 5-128 **Stability of famotidine injection in polypropylene syringes at three different temperatures**, Million Y. Woldemariam, Terrence S. Prettyman, Brian E. Sayre, Gagan Kaushal
- 5-129 **Stability Testing and Formulation Development of Cardioplegic Solution**, Kwame Brempong, Gagan Kaushal
- 5-130 **Evaluating Provider Prescribing Practices and Satisfaction with Utilization of a Formulary Availability and Price Comparison Chart**, Kristine E. Pippitt, Jaime Hornecker

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 5-131 **Pharmacy students as a catalyst for improving the transition of care in a family medicine residency program**, Alexis R Joy
- 5-132 **Retrospective analysis of provider-obtained medication histories versus those taken by a student pharmacist.**, Amanda S. Thompson, Jamie Hornecker, PharmD, BCPS
- 5-133 **Utilizing pharmacy services to improve prescribing efficiency of controlled substances among resident physicians.**, Kendra K Van Grinsven, Jessie Earl-Ritter, Michelle Hilaire, Tonja Woods, Kem Krueger
- 5-134 **Value of a pre-residency rotation in preparing fourth-year pharmacy students for post-graduate residency training**, Lanae Salveson
- 5-135 **Centralized automated dispensing systems in hospital pharmacy : a before and after study**, Anne Pont-Lescoat, Virginie Korb-Savoldelli, Patrice PROGNON, Brigitte Sabatier
- 5-136 **Do patients stealthily take their own medications during hospitalization?**, Aurelie AB Bernard, Anne Pont-Lescoat, Virginie Savoldelli, Patrice PROGNON, Jacques Pouchot, Brigitte Sabatier
- 5-137 **Medical Device Misuses: how to manage them?**, Anne-Sophie Lelong, Nicolas Martelli, Judith Pineau, Florence Vincent, Virginie Korb-Savodelli, Patrice Prognon
- 5-138 **Predictors of medication adherence in HIV-infected patients: Does the pharmacist play a role for informing outpatients?**, Virginie Savoldelli, Florence Gillaizeau, Ajaysingh Tauckoor, Patrice PROGNON, Pierre Durieux, Brigitte Sabatier
- 5-139 **Voriconazole overdose in preterm newborn : a clinical case**, Manon Roche, raphaelle fanciullino, veronique millet, Jean Pierre Reynier, marie clude bongrand
- 5-140 **Compatibility of inhalation solution admixtures - development of a patient information leaflet**, Anja Klemmer, Wolfgang Kamin, Christine Stanko, Irene Kraemer
- 5-141 **Evaluation of the medication adherence of liver transplant patients switched from a twice-daily to a once-daily Tacrolimus-based regimen**, Marion B. Eberlin, Irene Kraemer
- 5-142 **Cost-analysis of stroke patients with the integrated western and oriental medical treatment in South Korea**, Mi-ja Ku, Mi-ja Ku
- 5-143 **Meta-analysis of Combination therapy and Monotherapy of Methotrexate and TNF inhibitors in Rheumatoid Arthritis**, Eun-jung Kim, Sukhyang Lee, Jung-tae Kim
- 5-144 **Pharmacokinetics of astaxanthin after its oral administration to rats**, Hye Duck Choi, Min Jung Chang, Wan Gyoon Shin
- 5-145 **Protective effects of Haematococcus astaxanthin on oxidative stress in overweight and obese adults**, Chungam Choi, Hye Duck Choi, Min Jung Chang, Wan Gyoon Shin
- 5-146 **Therapeutic drug monitoring(TDM) of the antituberculosis drugs in patients with diabetes mellitus(DM)**, Min Jung Chang, Hye Duck Choi, Chungam Choi, Jaehoo Lee, Wan Gyoon Shin
- 5-147 **Evaluation of the bleeding risk indices in elderly Korean patients with warfarin**, Ju Yeun Nam, Kyung Suk Choi, Young Mi Jeong, Hyung Wook Namgung, Eunsook Lee, Byung Koo Lee
- 5-148 **Effectiveness of medication reconciliation in reducing medication errors in a hospital inpatient setting**, Wei Teng Chung, Hua Pey Gan
- 5-149 **Review of use of granulocyte colony-stimulating factor (G-CSF) at a university cancer centre**, Yin Shan Lim, Siew Woon Lim, Robert Lim

2009 MIDYEAR CLINICAL MEETING STUDENT POSTERS

- 5-150 **Pandemic influenza crisis-management plan applied in a small hospital**, Alberto Frutos Perez-Surio, Ruth Lopez-Barrachina
- 5-151 **Inefficacy of topical morphine gel in the treatment of painful leg ulcers a double blind placebo controlled clinical trial**, Salumeh Bastami, Salumeh Bastami, Thomas Frdin, Johan Ahlner, Srinivas Uppugunduri