

Scientific Poster Presentations, I

Sunday, October 23

Grand Ballroom East

1:00 p.m. – 2:30 p.m.

ENCORE PRESENTATIONS

Abstracts marked with an "E" are Encore Presentations. Encore Presentations have been presented elsewhere or published in abstract form before the 2016 ACCP Annual Meeting.

AWARDS COMPETITION

Finalists for the Best Student Poster, Best Resident and Fellow Poster, and Best Poster awards will be designated by a ribbon pinned to select posters. The winning Best Student Poster and Best Resident and Fellow Poster and the winning and first runner-up Best Poster authors will present their research during the Best Posters Platform Session from 3:45 p.m. to 5:00 p.m., on Tuesday, October 25, in Regency Ballroom 3.

ORIGINAL RESEARCH

These papers describe quantitative or qualitative findings in basic, clinical, translational, dissemination/implementation, or educational research.

ORIGINAL RESEARCH

Ambulatory Care

17. Role of clinical pharmacy service in optimizing patient care in a sickle cell outpatient center. *Jin Han, Pharm.D., Ph.D.*¹ Shubha Bhat, Pharm.D.,¹ Michel Gowhari, DO,² Santosh Saraf, M.D.²; (1) Department of Pharmacy Practice, College of Pharmacy, University of Illinois at Chicago, Chicago, IL; (2)Section of Hematology/Oncology, Department of Medicine, University of Illinois at Chicago, Chicago, IL

19. Closing communication gap about medication utilization: evaluation of patient-specific behaviors for not Bringing medication Bottles to Clinic (BBC). *Sweta Patel, Pharm.D.*, BCPS, Gina J. Ryan, Pharm.D., CDE; Department of Pharmacy Practice, Mercer University College of Pharmacy, Atlanta, GA

26. Assessing the impact on medication choice and drug cost savings from addition of a clinical pharmacist in a rural Illinois outpatient setting. *Bryan Zobeck, Pharm.D.*,¹ Martin MacDowell, DrPH,² Allison Schriever, Pharm.D.,¹ Heidi Olson, Pharm.D.¹; (1)Pharmacy Practice, University of Illinois College of Pharmacy at Rockford, Rockford, IL; (2)National Center for Rural Health Professions, University of Illinois College of Pharmacy at Rockford, Rockford, IL

29. Sustained virologic response with peginterferon plus ribavirin in the Illinois prison population infected with hepatitis C virus through telemedicine: a retrospective chart review. *Lillian Bellfi, Pharm.D. Candidate*,¹ Jeremy Young, M.D., MPH,² Leo Pratt, Pharm.D. Candidate,¹ Alisha Patel, Pharm.D. Candidate,³ Diana Mei, Pharm.D. Candidate,¹ Juliana Chan, Pharm.D., FCCP, BCACP¹; (1)College of Pharmacy, University of Illinois at Chicago, Chicago, IL; (2)University of Illinois at Chicago, College of Medicine; (3)College of Pharmacy, University of Illinois at Chicago, Chicago, IL

Cardiovascular

33. Platelet reactivity with clopidogrel versus prasugrel in patients with systolic heart failure.
Paul Dobesh, Pharm.D., FCCP, BCPS,¹ Deepak Thomas, M.D.,² Abigail Schweitzer, Pharm.D.,¹ Timothy Louie, Pharm.D.,¹ Brain Lowes, M.D., Ph.D.,³ Craig Reha, Pharm.D.,⁴ Julie Oestreich, Pharm.D., Ph.D.⁵; (1) University of Nebraska Medical Center, Omaha, NE; (2)University of Arkansas for Medical Sciences, Jonesboro, AR; (3)Department of Cardiology, University of Nebraska Medical Center, Omaha, NE; (4) Nebraska Medicine, Omaha, NE; (5)University of Kentucky College of Pharmacy, Lexington, KY

Critical Care

59. A retrospective study of early versus delayed initiation of home dose basal insulin in the acute management of diabetic ketoacidosis.
Stephen Rappaport, Pharm.D.,¹ Jeffrey Endicott, Pharm.D.,¹ Matthew Gilbert, DO,² Joshua Farkas, M.D.,³ Ryan Clouser, DO,³ Wesley McMillian, Pharm.D.¹; (1)Department of Pharmacy, University of Vermont Medical Center, Burlington, VT; (2)Department of Medicine, Division of Endocrinology, Diabetes and Metabolism, University of Vermont Medical Center, Burlington, VT; (3)Department of Medicine, Division of Pulmonary Disease and Critical Care Medicine, University of Vermont Medical Center, Burlington, VT

62. Comparison of the incidence of pneumonia in patients with multi-trauma and TBI versus those without TBI.
Ashley Turk, Bachelor of Biomedical Science, Pharm.D. Candidate 2018,¹ Kaitlin McGinn, Pharm.D.,¹ Noelle Davis, CRNP,² Sidney Brevard, M.D.,² Jon Simmons, M.D.; (1)Auburn University Harrison School of Pharmacy, Mobile, AL; (2)Department of Surgery, University of South Alabama Medical Center, Mobile, AL

Education/Training

85. The importance of grit in pharmacy residents: residency program directors' perceptions of residents who matched compared to residents who scrambled.
Blake Holland, M.S., Sean Smithgall, Pharm.D., Katelyn Alexander, Pharm.D., Jessica Burchette, Pharm.D., BCPS, David Cluck, Pharm.D., BCPS, AAHIVP, Rajkumar Sevak, Ph.D., RPh; Department of Pharmacy Practice, Bill Gatton College of Pharmacy, East Tennessee State University, Johnson City, TN

Emergency Medicine

106. Evaluation of fixed-dose 4-factor prothrombin complex concentrate administration for urgent warfarin reversal in patients with intracranial hemorrhage.
Rachael Scott, B.Sc., Megan Nadler, Pharm.D., BCPS, Brian Kersten, Pharm.D., BCPS, BCCCP; Department of Pharmacy, Buffalo General Medical Center, Buffalo, NY

HIV/AIDS

150. Use of dolutegravir in patients with the human immunodeficiency virus receiving chemotherapy.
DaleMarie Vaughan, Pharm.D., Patricia Fulco, Pharm.D., Patricia Corrigan, Pharm.D.; Department of Pharmacy Services, Virginia Commonwealth University, Richmond, VA

151. Improving medication adherence by communicating objective adherence data to prescribers.
Neha Pandit, Pharm.D., AAHIVP, BCPS, Hyunuk Seung, M.S.; Department of Pharmacy Practice and Science, University of Maryland School of Pharmacy, Baltimore, MD

152. Factors associated with antiretroviral errors in HIV-infected patients in the intensive care unit.

Shelby Merchant, Pharm.D. Candidate 2017,¹ Taylor Foore, Pharm.D. Candidate 2017,¹ Tanvi Mehta, Student,² Emily Moose, Pharm.D. Candidate 2017,¹ Celeste Caulder, Pharm.D.,³ Melanie McDonald, Pharm.D.,⁴ P. Brandon Bookstaver, Pharm.D., FCCP, BCPS, AAHIVP⁵; (1)South Carolina College of Pharmacy-USC; (2)Palmetto Health Richland; (3)South Carolina College of Pharmacy, University of South Carolina, Columbia, SC; (4)South Carolina College of Pharmacy, Columbia, SC; (5)Department of Clinical Pharmacy & Outcomes Sciences, University of South Carolina College of Pharmacy, Columbia, SC

Infectious Diseases

154. DNA sequence variation in *Staphylococcus aureus* contributes to decreased effectiveness of daptomycin therapy.

Hannah Turner, Pharmacy Student, Andrew Berti, Pharm.D., Ph.D., Sue McCrone, Research Specialist, B.S. - Microbiology, Warren Rose, Pharm.D.; School of Pharmacy/Rose Lab, University of Wisconsin - Madison, Madison, WI

157. Evaluation of sustained virologic response rates after hepatitis C virus treatment among a diverse patient population at an urban academic medical center.

*Michelle Martin, Pharm.D., BCPS, BCACP*¹ Darby Rosenfeld, Pharm.D. Candidate,² Lauren Vitrano, Pharm.D. Candidate,² Grace Go, Pharm.D. Candidate² Victoria Ramos, Pharm.D. Candidate,² Myrna Rivas, Pharm.D. Candidate,² Todd Lee, Pharm.D., Ph.D.²; (1)Department of Pharmacy Practice, University of Illinois Hospital and Health Sciences System/University of Illinois at Chicago College of Pharmacy, Chicago, IL; (2)University of Illinois at Chicago College of Pharmacy, Chicago, IL

159. Impact of a PCR-based rapid influenza diagnostic test on concomitant antibiotic utilization in patients with suspected influenza.

Dustin Linn, Pharm.D., Trent Towne, Pharm.D., Molly Grasberger, Pharm.D.; Manchester University College of Pharmacy, Natural & Health Sciences, Fort Wayne, IN

163. Effectiveness of fixed-dose combination compared to separate tablets for treating pulmonary tuberculosis in diabetic patients.

*Mohammad Al-Shaer, Pharm.D., BCPS*¹ Fatima Iqbal, Pharm.D.²; (1)Clinical Pharmacy, Al-Wakra Hospital: Hamad Medical Corporation, Qatar; (2)Department of pharmacy, Rumailah Hospital: Hamad Medical Corporation, Qatar

166. Predictors of ceftriaxone-nonsusceptible urinary tract infections.

April Pottebaum, Pharm.D., Eli Deal, Pharm.D., FCCP, BCPS; Department of Pharmacy, Barnes-Jewish Hospital

168. Outcomes of bacteremia caused by inducible AmpC beta-lactamase producing organisms treated with third-generation cephalosporins vs AmpC stable antibiotics.

Hana Rac, Pharm.D.,¹ Kristen O'Brien, Pharm.D.,² Jan Pack, Pharm.D.,¹ Colleen Kraft, M.D.,³ Christopher Paciullo, Pharm.D., BCCCP, FCCM⁴; (1)Emory University Hospital, Atlanta, GA; (2)Mercer University College of Pharmacy, Atlanta, GA; (3)Emory University School of Medicine, Atlanta, GA; (4) Department of Pharmaceutical Services, Emory University Hospital, Atlanta, GA

171. An outcome evaluation of computer-prescribing order entry standardized protocol for treatment of *Clostridium difficile* colitis in a teaching tertiary care facility.

Linda Nwachukwu, MPH, Pharm.D., BCPS,¹ Courtney Armstrong, Pharm.D.,² Zachary Mulkey, M.D.,³ Charles F. Seifert, Pharm.D., FCCP, BCPS¹; (1)School of Pharmacy, Texas Tech University Health Sciences Center, Lubbock, TX; (2)Pharmacy Department, UMC Health System, Lubbock, TX; (3) Department of Internal Medicine, School of Medicine, Texas Tech University Health Sciences Center, Lubbock, TX

175. Treatment of *Staphylococcus aureus* bacteremia pre- and post-implementation of rapid diagnostic testing.

Mary Naeger, Pharm.D.,¹ Emily Welch, Pharm.D., BCPS;² Anna Schmidt, Pharm.D., BCPS;¹ Robin Chamberland, Ph.D., D(ABMM)³; (1)Department of Pharmacy Services, SSM Health Saint Louis University Hospital, St. Louis, MO; (2)Department of Pharmacy Services, SSM Health Saint Louis University Hospital, St. Louis, MO; (3)Department of Pathology, Saint Louis University School of Medicine, St. Louis, MO

176. Host factors associated with elevated minimum inhibitory concentrations to fosfomycin and doxycycline among vancomycin-resistant enterococcal urine isolates at a tertiary care medical center.

Jillian Hayes, Pharm.D. Candidate,¹ Brian O'Quinn, Pharm.D. Candidate,¹ Kevin Lu, Ph.D.,² Celeste Caulder, Pharm.D.,² P. Brandon Bookstaver, Pharm.D., FCCP, BCPS, AAHIVP³; (1)South Carolina College of Pharmacy, University of South Carolina, Columbia, SC; (2)Department of Clinical Pharmacy & Outcomes Sciences, South Carolina College of Pharmacy, University of South Carolina, Columbia, SC; (3)Department of Clinical Pharmacy & Outcomes Sciences, University of South Carolina College of Pharmacy, SC

179. The utility of procalcitonin to support clinical decision making in critically ill pediatric patients.

Maya Holsen, Pharm.D. Candidate,¹ Shirley Chen, Pharm.D. Candidate,¹ Nicholas Fusco, Pharm.D.,¹ Amanda Hassinger, M.D.,² David Jacobs, Pharm.D.1; (1)University at Buffalo School of Pharmacy and Pharmaceutical Sciences, Buffalo, NY; (2)University at Buffalo Jacobs School of Medicine and Biomedical Sciences, Buffalo, NY

189. Revealing novel mechanisms of triazole-resistance in clinical *Aspergillus fumigatus* isolates through next-generation sequencing.

Jeffrey Rybak, Pharm.D.,¹ Michael Dickens, Ph.D.,² Nathan Wiederhold, Pharm.D.,³ Jarrod Fortwendel, Ph.D.,⁴ P. David Rogers, Pharm.D., Ph.D.1; (1)University of Tennessee College of Pharmacy, Memphis, TN; (2)High Performance Research Computing, Texas A&M University, College Station, TX; (3)Fungus Testing Laboratory, UT Health Science Center at San Antonio, San Antonio, TX; (4)Department of Microbiology and Immunology, University of South Alabama College of Medicine

194. Risk factors for *Pseudomonas aeruginosa* in diabetic foot infections.

Nada Farhat, Pharm.D., Christopher Le, Pharm.D. Candidate, Daniel McClung, M.D., Jerod Nagel, Pharm.D., BCPS-AQ ID; Department of Pharmacy Services, University of Michigan Health System, Ann Arbor, MI

Nephrology

207. Telavancin pharmacokinetics in patients with chronic kidney disease receiving hemodialysis.

Katherine N. Gharibian, Pharm.D.,¹ Susan J. Lewis, Pharm.D.,² Michael Heung, M.D.,³ Jonathan H. Segal, M.D.,³ Noha N. Salama, Ph.D.,⁴ Bruce A. Mueller, Pharm.D.5; (1)School of Pharmacy, Medical College of Wisconsin, Milwaukee, WI; (2)College of Pharmacy, University of Findlay, Findlay, OH; (3)Medical School, University of Michigan, Ann Arbor, MI; (4)Department of Pharmaceutical and Administrative Sciences, St. Louis College of Pharmacy, St. Louis, MO; (5)College of Pharmacy, University of Michigan, Ann Arbor, MI

208. Influence of hemodialyzer permeability and flow rate on the dialytic clearance of regadenoson in an in vitro hemodialysis model.

Katherine N. Gharibian, Pharm.D.,¹ Bruce A. Mueller, Pharm.D.2; (1)School of Pharmacy, Medical College of Wisconsin, Milwaukee, WI; (2)College of Pharmacy, University of Michigan, Ann Arbor, MI

209. Evaluation of heart failure therapy in patients with end-stage renal disease.

Tate Cutshall, Pharm.D.,¹ Benjamin T. Duhart Jr, M.S., Pharm.D.,² Jagannath Saikumar, M.D.,³ Michael Samarin, Pharm.D., BCPS, BCCCP,⁴ Lydia Hutchison, Pharm.D., BCPS, CGP,¹ Joanna Hudson, Pharm.D., BCPS, FASN, FCCP, FNKF²; (1)Methodist University Hospital, Memphis, TN; (2)Department of Clinical Pharmacy, University of Tennessee College of Pharmacy, Memphis, TN; (3)Department of Medicine (Nephrology), University of Tennessee, Memphis, TN; (4)Department of Pharmacy, Methodist Le Bonheur Healthcare - University Hospital, Memphis, TN

210. Impact of clinical pharmacists' interventions on the management of anemia in chronic hemodialysis patients.

Mohammad Zaitoun, BScPharm, Pharm.D., BCCP;¹ Sara Hazem, BSc(Pharm), Dip(ClinPharm), BCPS,¹ Khalid Al-Alsheikh, M.D.,² Adel Abou Ali, Pharm.D., ScD, M.S.;³ (1)Pharmacy Department, Armed Forces Hospitals Southern Region, Khamis Mushait, Saudi Arabia; (2)Nephrology Department, Armed Forces Hospitals Southern Region, Khamis Mushait, Saudi Arabia; (3)Clinical Pharmacy Department, Faculty of Pharmacy, King Khalid University, Abha, Saudi Arabia

211. Are statins associated with muscular complaints in dialysis patients? Results from a double-blind cross-sectional study.

Sarah Hassinger, Pharm.D. Candidate, Letitia Warunek, Pharm.D. Candidate, *Edward Foote, Pharm.D.*; Nesbitt School of Pharmacy, Wilkes University, Wilkes-Barre, PA

Other

216. Lifitegrast 5.0% versus placebo for dry eye disease: pooled analysis of symptom outcomes from the OPUS-2 and OPUS-3 phase 3 studies.

Monica Roy, OD, MPH, FAAO,¹ *Paul Karpecki, OD, FAAO*,² Cynthia Matossian, M.D., FACS,³ Kenneth Sall, M.D.,⁴ Aparna Raychaudhuri, Ph.D.,¹ Amir Shojaei, Pharm.D., Ph.D.¹; (1)Shire, Lexington, MA; (2) Kentucky Eye Institute, Lexington, KY; (3)Matossian Eye Associates, Doylestown, PA; (4)Sall Research Medical Center, Artesia, CA

217. Exploring employer job requirements: a multi-state analysis of pharmacist job advertisements.

Nancy Borja-Hart, Pharm.D.,¹ James Wheeler, Pharm.D.,¹ Tien Ngo, Pharm.D. Candidate,² Jasmine Cecil, Pharm.D. Candidate²; (1)College of Pharmacy; Department of Clinical Pharmacy, University of Tennessee Health Science Center, Nashville, TN; (2)College of Pharmacy, University of Tennessee Health Science Center, Nashville, TN

Pediatrics

229. Methadone-induced QTc prolongation in hospitalized pediatric patients.

Amy Schwinghammer, Pharm.D.,¹ Brent Hall, Pharm.D., BCPPS,¹ Machel Wilson, Ph.D.²; (1) Department of Pharmacy, University of California Davis Children's Hospital, CA; (2)Department of Public Health Sciences, Clinical and Translational Science Center, UC Davis, CA

Pharmacogenomics/Pharmacogenetics

250. Implications of polymorphisms in BCKDK and GATA-4 genetic regions on stable warfarin dose in African Americans.

Salma Bargal, BScPharm, Jennifer Kight, Pharm.D. Candidate, Felipe de Oliveira, M.S., Mohamed Shahin, Ph.D., Taimour Langae, Ph.D., Yan Gong, Ph.D., Issam Hamadeh, Pharm.D., Rhonda Cooper-DeHoff, Pharm.D., M.S., Larisa Cavallari, Pharm.D.; Department of Pharmacotherapy and Translational Research and Center for Pharmacogenomics, College of Pharmacy, University of Florida, Gainesville, FL

Transplant/Immunology

274E. Qualitative assessment of patient-perceived treatment burden following cardiac transplantation.

Kimberly Deininger, MPH,¹ Jennifer Reich, Ph.D.,² Jan Hirsch, BSPHarm, Ph.D.,³ Sarah Graveline, B.S.,³ Ashley Feist, Pharm.D.,³ Joanne LaFleur, Pharm.D., MSPH,⁴ Steven Smith, Pharm.D., MPH,⁵ Amrut Ambardekar, M.D.,¹ JoAnn Lindenfeld, M.D.,⁶ *Christina Aquilante, Pharm.D.*¹; (1)University of Colorado, Aurora, CO; (2)University of Colorado; (3)University of California San Diego; (4)University of Utah; (5) University of Florida; (6)Vanderbilt University, Nashville, TN

275E. Pharmacist impact on medication errors in a chronic kidney transplant clinic.

Kelly Covert, Pharm.D.,¹ Caitlin Mardis, Pharm.D.,¹ James Fleming, Pharm.D.,² Nicole Pilch, Pharm.D.,¹ Holly Meadows, Pharm.D.,¹ Andrew Mardis, Pharm.D.,¹ Prince Mohan, M.D.,¹ Maria Posadas-Salas, M.D.,² Titte Srinivas, M.D.,¹ David Taber, Pharm.D.¹; (1)Medical University of South Carolina; (2)Medical University of South Carolina, Charleston, SC

276E. Development of a predictive model for medication errors in kidney transplant recipients.

Kelly Covert, Pharm.D.,¹ Caitlin Mardis, Pharm.D.,¹ James Fleming, Pharm.D.,² Nicole Pilch, Pharm.D.,¹ Holly Meadows, Pharm.D.,¹ Andrew Mardis, Pharm.D.,¹ Prince Mohan, M.D.,¹ Maria Posadas-Salas, M.D.,² Titte Srinivas, M.D.,¹ David Taber, Pharm.D.¹; (1)Medical University of South Carolina; (2) Medical University of South Carolina, Charleston, SC

281E. Safety, efficacy, and cost saving potential of various weight-based dosing for thymoglobulin induction therapy in kidney transplant recipients.

Ryan Miller, Pharm.D., Holly Meadows, Pharm.D., Sara Strout, Pharm.D., Tara Veasey, Pharm.D., Caitlin Mardis, Pharm.D., Andrew Mardis, Pharm.D., Dave Taber, Pharm.D., M.S., Nicole Pilch, Pharm.D., M.S., K.D. Chavin, M.D., Ph.D., James Fleming, Pharm.D.; Medical University of South Carolina, Charleston, SC

282E. Do morbidly obese patients have an increased risk of infection post-kidney transplant?

Sara Strout, Pharm.D., Nicole Pilch, Pharm.D., M.S., Tara Veasey, Pharm.D., Ryan Miller, Pharm.D., James Fleming, Pharm.D., Holly Meadows, Pharm.D., Caitlin Mardis, Pharm.D., Andrew Mardis, Pharm.D., Prabhakar Baliga, M.D., Maria Posadas-Salas, M.D., John McGillicuddy, M.D., Dave Taber, Pharm.D., M.S.; Medical University of South Carolina, Charleston, SC

CASE REPORTS

These papers update and expand therapeutic insights and possibilities, or generate research hypotheses. Although narrative in nature, these abstracts stress the "evidence" for the authors' conclusions by describing the process followed to understand the findings and possible mechanisms involved in the patient's case, how the patient was evaluated and treated, and a specific description of the outcome.

Critical Care

469. Low-dose ketamine infusion for adjunct management during vaso-occlusive episodes in adults with sickle cell disease: a case series.

Nicole Palm, Pharm.D.,¹ Catherine Floroff, Pharm.D., BCCCP, BCPS,² Tanna Hassig, Pharm.D., BCPS3; (1)Department of Pharmacy, Cleveland Clinic Foundation, Cleveland, OH; (2)Sentara Healthcare, Norfolk, VA; (3)Medical University of South Carolina, Charleston, SC

470. Lactobacillus bacteremia from probiotic administration in a critically ill cardiac surgery patient: a case report.

Andrea S. Newsome, Pharm.D., BCPS, BCCCP;¹ Zachary Reuge, Pharm.D. Candidate²; (1)Department of Pharmacy, University of Georgia College of Pharmacy, Athens, GA; (2)University of Georgia College of Pharmacy

471E. Aluminum toxicity from combination therapy of sucralfate and citric acid in a cardiac surgery patient.

*Andrea S. Newsome, Pharm.D., BCPS, BCCCP*¹; Emily Higdon, Pharm.D.,² Dwayne Pierce, Pharm.D.,² Mohamed Gaber, M.D.,² Vikas Kumar, M.D.²; (1)Department of Pharmacy, University of Georgia College of Pharmacy, Athens, GA; (2)Augusta University

Infectious Diseases

476. A case of rapid-onset daptomycin-induced neutropenia.

Jason Lancaster, Pharm.D., Med,¹ Christine Vaudo, Pharm.D.,² Satinder Singh, M.D.³; (1)School of Pharmacy, Northeastern University, Boston, MA; (2)Department of Pharmacy, Lahey Hospital & Medical Center, Burlington, MA; (3)Department of Hospital Medicine, Lahey Hospital & Medical Center, Burlington, MA

477. Case report of a combined albendazole and praziquantel therapy in an adult female with neurocysticercosis and generalized tonic-clonic seizures.

Katerina Petrov, Pharm.D., BCPS,¹ Faith Ihongbe, Pharm.D. Candidate,¹ Sarfraz Choudhary, M.D., FACP²; (1)Bernard J. Dunn School of Pharmacy, Shenandoah University, Ashburn, VA; (2)INOVA Loudoun Hospital, Leesburg, VA

CLINICAL PHARMACY FORUM

These papers describe the development, delivery, justification, or documentation of new or innovative clinical pharmacy services; they may be descriptive and need not contain an evaluative component.

Clinical Administration

317. Development of clinical pharmacy services within a community hospital.

Kristina Bryowsky, Pharm.D., *Lauren Odum, Pharm.D.*, Emily Buchanan, Pharm.D., Chris Carter, Pharm.D., Kylie Scimio, Pharm.D., Molly Thompson, Pharm.D., Tyson Lotz, Pharm.D.; Department of Pharmacy, St. Clare Hospital, Fenton, MO

318. Transition of clinical pharmacists and clinical pharmacy specialists to mid-level provider status within the VA Central Iowa Healthcare System.

Mary Rasmussen, Pharm.D.,¹ Mary Beth Gross, BSPharm, Pharm.D.,¹ Jessica Coleman, BSW²; (1) Pharmacy Department 119, VA Central Iowa Healthcare System, Des Moines, IA; (2)Credentialing, VA Central Iowa Healthcare System, Des Moines, IA

Medication Safety

337. Evaluation of information management system intervention to prevent medication errors with retrospective data analysis.

Wang Pin HSin, B.S.,¹ Su-Han Hsu, B.S.,² Lih-Chi Chen, Doctor,³ Pei-Chun Chen, M.S.,² Chi-Ting Tseng, M.S.,² Tsai-Hsuan Lei, B.S.⁴; (1)Department of Pharmacy, Taipei City Hospital Yangming Branch, Taipei, Taiwan; (2)Department of Pharmacy, Taipei City Hospital Yangming Branch, Taipei, Taiwan, Taipei, Taiwan; (3)Department of Pharmacy, Department of Pharmacy, Taipei City Hospital, Taipei, Taiwan., Taipei, Taiwan; (4)Department of Pharmacy, Taipei City Hospital Yangming Branch, Taipei, Taiwan., Taipei, Taiwan

338. Improving patients' medication knowledge through pharmacy-based discharge counseling.

Farid Sheikh, Pharm.D., Khaja Ahmed, RPh, M.S., MBA, Staci Anderson, Pharm.D., Stephen Rettig, Pharm.D.; Department of Pharmacy, Clovis Community Medical Center, Clovis, CA

339. Making a pilot program a reality: bridging gaps in healthcare through direct pharmacist involvement in hospital admission, discharge, and patient education.

Deanna Rossi, Pharm.D., Deborah Fernandez, Pharm.D., Andria Brantley, Pharm.D.; Memorial Hospital Pembroke, Pembroke Pines, FL

STUDENT RESEARCH IN PROGRESS

These papers describe in-progress hypothesis-driven research in basic, clinical, translational, dissemination/implementation, or educational research.

ADR/Drug Interactions

401. Characterization of palliative care drug-related hospital readmissions: a retrospective analysis.

Ryann O'Neill, Pharm.D. Candidate,¹ Jillian Grapsy, Pharm.D. Candidate,¹ Jenna Borowski, Pharm.D. Candidate,¹ Jennifer Pruskowski, Pharm.D., BCPS, CGP, CPE2; (1)University of Pittsburgh School of Pharmacy, Pittsburgh, PA; (2)Palliative and Supportive Institute (PSI), University of Pittsburgh Medical Center

402. Drug-drug interactions of tricyclic antidepressants in US outpatient settings.

Masaad Almutairi, Pharm.D. Candidate,¹ Leanne Lai, Ph.D.²; (1)Pharmacy, Nova Southeastern University College of Pharmacy, Davie, FL; (2)Sociobehavioral and Administrative Pharmacy, Nova Southeastern University College of Pharmacy, Davie, FL

Adult Medicine

403. Quantitative assessment of pill burden for heart failure patients.

Christine Jiang, Pharm.D. Candidate, Jean Nappi, Pharm.D.; Medical University of South Carolina, Charleston, SC

Ambulatory Care

404. Effective communication across the transitions of care continuum for the diabetic population: a pilot study.

Felicia Bartlett, Pharm.D. Candidate,¹ Kathleen Pincus, Pharm.D., BCPS,² Jason Ramirez, M.D.³; (1) University of Maryland School of Pharmacy, Baltimore, MD; (2)Department of Pharmacy Practice and Science, University of Maryland School of Pharmacy, Baltimore, MD; (3)Department of Family and Community Medicine, University of Maryland School of Medicine, Baltimore, MD

405. Pharmacist's knowledge and awareness of the current and new consult agreement laws in the state of Ohio.

Inna Garasimchuk, anticipated Pharm.D. 2017,¹ Patrick J. Gallegos, Pharm.D., BCPS,² Mate Soric, Pharm.D., BCPS3; (1)Student College of Clinical Pharmacy, Northeast Ohio Medical University, Rootstown, OH; (2)Northeast Ohio Medical University, Rootstown, OH; (3)Department of Pharmacy Practice, Northeast Ohio Medical University and University Hospitals Geauga Medical Center, Rootstown, OH

Cardiovascular

406. Medication regimen complexity over time following left ventricular assist device implantation.

David Pastore, B.S.,¹ Kimberly Deininger, MPH,¹ Andreas Brieke, M.D.,¹ Robert Page II, Pharm.D., MSPH,¹ Anne Libby, Ph.D.,² Amrut Ambardekar, M.D.,¹ JoAnn Lindenfeld, M.D.,² Christina Aquilante, Pharm.D.²; (1)University of Colorado, Aurora, CO; (2)Vanderbilt University, Nashville, TN

407. Improving quality of life and cardiovascular health and wellness of elderly patients in South Florida.

JaneClare Miller, Pharm.D. Candidate,¹ Alejandro Nieves, M.S., Pharm.D. Candidate,¹ Genevieve Hale,

Pharm.D., BCPS,¹ Stacey Maravent, Pharm.D.,¹ Tina Joseph, Pharm.D., BCACP,² Sarah Alameddine, Pharm.D.¹; (1)College of Pharmacy, Nova Southeastern University, Palm Beach Gardens, FL; (2) Department of Pharmacy Practice, Nova Southeastern University College of Pharmacy, Fort Lauderdale, FL

Community Pharmacy Practice

408. Assessment of student pharmacist perceptions of pharmacy workload concerns in New Hampshire.

*Gabrielle Hill, Pharm.D. Candidate,*¹ Helen C. Pervanas, Pharm.D.²; (1)MCPHS University, Manchester, NH; (2)Pharmacy Practice Department, MCPHS University, Manchester, NH

Critical Care

409. Stress ulcer prophylaxis in critically ill patients.

*Sarah H. Darby, Pharm.D. Candidate,*¹ Leslie A. Hamilton, Pharm.D., BCPS, BCCCP;¹ Allan J. Hamilton, M.D.²; (1)University of Tennessee Health Science Center College of Pharmacy, Knoxville, TN; (2) Department of Anesthesiology and Pain Management, University of Texas Southwestern Medical Center

410. Assessment and comparison of two protocols for intravenous electrolyte replacement in critically ill patients.

Jacob Lines, Pharm.D. Candidate,¹ *Lauren Hord, M.A., Pharm.D. Candidate,*¹ Phillip Mohorn, Pharm.D., BCPS, BCCCP;² Farah Kablaoui, Pharm.D., BCPS,³ Jenna Foster, Pharm.D., BCPS, BCCCP⁴; (1)South Carolina College of Pharmacy, USC Campus, Columbia, SC; (2)Department of Pharmacy, Spartanburg Regional Healthcare System, Spartanburg, SC; (3)Pharmacy Services Department, Cleveland Clinic Abu Dhabi, Al Maryah Island, United Arab Emirates; (4)Department of Pharmaceutical Services and Clinical Nutrition, Palmetto Health Richland, Columbia, SC

411. Evaluation of heparin anticoagulation practices in an extracorporeal membrane oxygenation patient population.

Brendan Mangan, Pharm.D. Candidate,¹ Peter Nikolos, Pharm.D. Candidate,¹ Lauren Schmidt, Pharm.D. Candidate,¹ Christina Rose, Pharm.D., BCPS²; (1)Temple University School of Pharmacy, Philadelphia, PA; (2)Department of Pharmacy Practice, Temple University School of Pharmacy, Philadelphia, PA

412. Prophylactic anticoagulation with weight-based enoxaparin in the morbidly obese trauma patient population.

*Kristina Stemple, Pharm.D. Candidate,*¹ Maria Cumpston, Pharm.D.,¹ Karen Petros, Pharm.D.,¹ Carrie DeFazio, Pharm.D.,¹ Uzer Khan, M.D.,² Alison Wilson, M.D.²; (1)West Virginia University Medicine, Department of Pharmacy; (2)West Virginia University School of Medicine, Department of Surgery

Education/Training

413. Understanding of diabetes care among frail elders/caregivers in a PACE model.

*Victoria Hagen, Pharm.D. Candidate,*¹ Karen M. McGee, Pharm.D., CDE²; (1)South Carolina College of Pharmacy-USC; (2)South Carolina College of Pharmacy, Columbia, SC

414. Improving the standard of care: an interprofessional approach to include oral health education in doctor of pharmacy curricula.

*Siona Margaret Emerson, Pharm.D. Candidate,*¹ Sandra Wolf, DMD Candidate,² Luisa Utset-Ward, DMD²; (1)School of Pharmacy, Lake Erie College of Osteopathic Medicine, Bradenton, FL; (2)School of Dental Medicine, Lake Erie College of Osteopathic Medicine, Bradenton, FL

415. The effects of a peer mentoring program on organizational involvement.

Craig J. Furnish, Pharm.D. Candidate 2017, Rachel Ruehl, Pharm.D. Candidate 2017, Patricia Wigle, Pharm.D., BCPS, BCACP, Andrea Wall, B.S.; University of Cincinnati James L. Winkle College of Pharmacy, Cincinnati, OH

416. Knowledge of health literacy among student pharmacists.

Emily Hellmann, Pharm.D. Candidate 2017,¹ Karissa Kim, Pharm.D., CACP, BCPS,² Anne Metzger, Pharm.D., BCPS, BCACP²; (1)University of Cincinnati James L. Winkle College of Pharmacy, Cincinnati, OH; (2)Division of Pharmacy Practice and Pharmaceutical Sciences, University of Cincinnati James L. Winkle College of Pharmacy, Cincinnati, OH

417. PreDiaMe (prediabetes + me): an innovative prediabetes educational program by third year Pharm.D. students.

Chava Chaitin, Pharm.D. Candidate,¹ Jaimie Velasquez, Pharm.D. Candidate,¹ Stephanie Chassagne, Pharm.D. Candidate,¹ Rennie Perez Torres, Pharm.D. Candidate,¹ Nile Khanfar, Ph.D., MBA,¹ Genevieve Hale, Pharm.D., BCPS,¹ Martha Rodriguez, M.D., PA²; (1)College of Pharmacy, Nova Southeastern University, Palm Beach Gardens, FL; (2)MMR Healthcare/Accountable Care Options, LLC, Boynton Beach, FL

418. Pharmacy students' knowledge, attitudes, and skills in smoking cessation practice.

Desiree Haisley, Pharm.D. Candidate,¹ Karissa Kim, Pharm.D., CACP, BCPS²; (1)College of Pharmacy, University of Cincinnati, Cincinnati, OH; (2)Division of Pharmacy Practice and Pharmaceutical Sciences, University of Cincinnati James L. Winkle College of Pharmacy, Cincinnati, OH

419. Evaluation of a co-curricular lunchtime case study series.

Daniela Fernandez, Pharm.D. Candidate, Jennifer G. Steinberg, Pharm.D.; Nova Southeastern University, College of Pharmacy, Fort Lauderdale, FL

420. Increasing awareness on the use of e-cigarettes in young adolescents.

Fabiana Diou-Labault, Pharm.D. Candidate, Zuleika Alvarado, Pharm.D. Candidate, Cleon Paul-Blake, Pharm.D. Candidate, Sarah Alameddine, Pharm.D., Genevieve Hale, Pharm.D., BCPS, Nile M. Khanfar, Ph.D., MBA; College of Pharmacy, Nova Southeastern University, Palm Beach Gardens, FL

421. Evaluating international rotation participation and impact on graduate career path.

Meghan Lynch, B.S., Pharm.D. Candidate,¹ Ngoc Thanh, Pharm.D. Candidate,² Daniel Galipeau, Pharm.D. Candidate,³ Whitley Yi, B.S., Pharm.D. Candidate,¹ Kari Franson, Pharm.D., Ph.D.⁴; (1) University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, CO; (2) Skaggs School of Pharmacy and Pharmaceutical Sciences; (3)Denver Health Medical Center; (4) Department of Clinical Pharmacy, University of Colorado Skaggs School of Pharmacy, Aurora, CO

Emergency Medicine

422. Implementation of two interventions for sepsis to improve intravenous antibiotic administration time in the emergency department.

Mika Jankowski, B.S., BSHS, B.A., Pharm.D. Candidate,¹ Megan Evans, Pharm.D.²; (1)Pharmacy Department and Emergency Department, St. Joseph's Hospital, Tucson, AZ; (2)Pharmacy Department, St. Joseph's Hospital

423. Evaluation of a phenytoin dosing guideline in patients with traumatic brain injury.

Catalina Saenz, Pharm.D. Candidate,¹ Karen Petros, Pharm.D.²; (1)West Virginia University School of Pharmacy, Morgantown, WV; (2)West Virginia University Healthcare-Ruby Memorial

Endocrinology

424. Innovating diabetic healthcare and mobile monitoring.

Natalia Cadavid, Pharm.D. Candidate, Ariel Ferdock, Pharm.D. Candidate, Nicole Mahabir Herrera, Pharm.D. Candidate, Martisa Monokandilos, Pharm.D. Candidate, Melanie Schreiber, Pharm.D. Candidate, Genevieve Hale, Pharm.D., BCPS; College of Pharmacy, Nova Southeastern University, Palm Beach Gardens, FL

Health Services Research

425. Oregon Medicaid policy evaluation: safety edit for attention deficit hyperactivity disorder medications.

Amanda Jones, Pharm.D. Candidate, 2017,¹ Julie Cha, Pharm.D. Candidate, 2017,¹ Luke Middleton, B.S.,¹ Kathleen Ketchum, MPA HA,² Megan Herink, Pharm.D.;¹ (1)College of Pharmacy, Oregon State University/Oregon Health & Science University, Portland, OR; (2)College of Pharmacy, Oregon State University/Oregon Health & Science University, Corvallis, OR

Hematology/Anticoagulation

426. Evaluation of self-testing competency in anticoagulation management in a minority patient population: preliminary experience from a randomized controlled trial.

Ali Alobaidi, Pharm.D. Candidate,¹ Beenish Manzoor, MPH, Ph.D. Candidate,¹ Edith A. Nutescu, Pharm.D., M.S., FCCP²; (1)Department of Pharmacy Systems, Outcomes and Policy, University of Illinois at Chicago, College of Pharmacy, Chicago, IL; (2)Department of Pharmacy Systems, Outcomes and Policy, Center for Pharmacoepidemiology and Pharmaco-economic Research, University of Illinois at Chicago, College of Pharmacy, Chicago, IL

427. Patient-related factors determining feasibility of anticoagulation self-monitoring in a minority population: a qualitative assessment.

Annie Situ, Pharm.D. Candidate,¹ Beenish Manzoor, MPH, Ph.D. Candidate,² Edith A. Nutescu, Pharm.D., M.S., FCCP³; (1)University of Illinois at Chicago, College of Pharmacy, Chicago, IL; (2) Department of Pharmacy Systems, Outcomes and Policy, University of Illinois at Chicago, College of Pharmacy, Chicago, IL; (3)Department of Pharmacy Systems, Outcomes and Policy, Center for Pharmacoepidemiology and Pharmaco-economic Research, University of Illinois at Chicago, College of Pharmacy, Chicago, IL

Herbal/Complementary Medicine

428. Understanding public perception of dietary supplements.

Jeannette Bouchard, Student, Leticia Shea, Pharm.D., Matthew Fete, Ph.D., Erika Lourenco de Freitas, Ph.D.; School of Pharmacy, Regis University, Denver, CO

HIV/AIDS

429. Management of M184I or V mutation in human immunodeficiency virus infection.

Chloe Majkowski, Pharm.D. Candidate,¹ Melissa E. Badowski, Pharm.D.,² Sarah Perez, Pharm.D.,³ Thomas Chiampas, Pharm.D.,⁴ Mahesh Patel, M.D.,⁵ Jeremy Young, M.D., MPH⁵; (1)University of Illinois at Chicago, College of Pharmacy; (2)College of Pharmacy, University of Illinois at Chicago, Chicago, IL; (3)Tufts Medical Center; (4)Department of Pharmacy Practice, Section of Infectious Diseases, University of Illinois at Chicago College of Pharmacy, Chicago, IL; (5)University of Illinois at Chicago, College of Medicine

Infectious Diseases

430. Impact on the infectious disease pharmacist specialist on hospital value-based purchasing outcomes.

Kamarena Sankar, B.S.,¹ Sandra Benavides, Pharm.D., FCCP, FPPAG²; (1)Department of Pharmacy

Practice, Nova Southeastern University College of Pharmacy, Davie, FL; (2)Department of Clinical and Administrative Sciences, Larkin Health Sciences Institute College of Pharmacy, Miami, FL

431. IP-10 concentrations and their association with acute respiratory infections in healthy individuals.

Heather Champion, DPH-3 Student,¹ Kelsey Henriquez, B.S.,¹ Jodi Barnett, M.S., B.S.,² Bruce Barrett, M.D., Ph.D.,² Mary Hayney, Pharm.D., MPH;³ (1)School of Pharmacy, University of Wisconsin - Madison, Madison, WI; (2)Department of Family and Community Medicine, UW School of Medicine and Public Health, Madison, WI; (3)School of Pharmacy, University of Wisconsin-Madison, Madison, WI

432. Comparative-effectiveness of ceftaroline and daptomycin as first-line therapy for patients with infective endocarditis admitted to hospitals in the United States Veterans Health Care System.

Lindsey Groff, B.S., Pharm.D. Student,¹ Marilyn Mootz, B.S., Pharm.D. Student,¹ Rachel Britt, Pharm.D. Student,² Kirk Evoy, Pharm.D.,² Grace Lee, Pharm.D.,² Kelly Reveles, Pharm.D., Ph.D.,² Natalie Boyd, Pharm.D., M.S.,² Christopher Frei, Pharm.D., M.S.;² (1)University of Texas at Austin College of Pharmacy, Austin, TX; (2)University of Texas at Austin College of Pharmacy and University of Texas Health Science Center School of Medicine, San Antonio, TX

433. Prolonged exposure to B-lactam antibiotics reestablishes sensitivity of daptomycin-nonsusceptible *Staphylococcus aureus* to daptomycin.

Rachel Graves, B.S., Andrew Berti, Pharm.D., Ph.D., Warren Rose, Pharm.D.; University of Wisconsin School of Pharmacy, Madison, WI

434. In vitro activity of ceftolozane/tazobactam and ceftazidime/avibactam against multidrug-resistant gram-negative bacteria isolated in a southeastern US teaching hospital.

Omar Jamjoom, Pharm.D. Candidate,¹ Majdi Al-Hasan, M.D.,² P. Brandon Bookstaver, Pharm.D., FCCP, BCPS, AAHIVP;³ Joseph Kohn, Pharm.D., BCPS,⁴ Julie Ann Justo, Pharm.D., M.S., BCPS-AQ ID;³ (1) South Carolina College of Pharmacy, Columbia, SC; (2)Department of Medicine, Division of Infection Diseases, University of South Carolina School of Medicine, Columbia, SC; (3)Department of Clinical Pharmacy & Outcomes Sciences, University of South Carolina College of Pharmacy, Columbia, SC; (4) Department of Pharmacy, Palmetto Health Richland, Columbia, SC

435. Appropriateness of empiric antimicrobial therapy in patients discharged from the emergency department.

Alyssa Berganini, Pharm.D. Candidate 2017,¹ Elisabeth Caulder, Pharm.D. Candidate 2017,¹ Nicole Smith, Pharm.D. Candidate 2017,¹ Julie Ann Justo, Pharm.D., M.S., BCPS-AQ ID,² Celeste Caulder, Pharm.D.,³ Tina Hardison, Pharm.D., BCPS, BCCCP,⁴ Christine Alexander, Pharm.D., BCPS,⁴ Phillip Mohorn, Pharm.D., BCPS, BCCCP;⁵ (1)University of South Carolina College of Pharmacy, Columbia, SC; (2)Department of Clinical Pharmacy & Outcomes Sciences, University of South Carolina College of Pharmacy, Columbia, SC; (3)Department of Clinical Pharmacy and Outcomes Sciences, University of South Carolina College of Pharmacy, Columbia, SC; (4)Palmetto Health Richland Hospital, Columbia, SC; (5)Department of Pharmacy, Spartanburg Regional Healthcare System, Spartanburg, SC

Medication Safety

436. Safety culture among Egyptian healthcare providers at a pediatric cancer center.

Sarah El-gendi, Pharm.D. Student,¹ Amy Howard, Pharm.D. Student,¹ Sarah Mohamed, BSPHarm,² Agnes Ann Feemster, Pharm.D., BCPS3; (1)School of Pharmacy, University of Maryland, Baltimore, Baltimore, MD; (2)Pharmacy, 57375 Children's Cancer Hospital, Cairo, Egypt; (3)Department of Pharmacy Practice and Science, University of Maryland School of Pharmacy, Baltimore, MD

Nephrology

437. Comparative review of tertiary medical sources on dialysis of drugs for patients receiving intermittent hemodialysis.

Jesse Dhakrit Rungkitwattanukul, Pharm.D. Candidate 2017,¹ Thomas Dowling, Pharm.D., Ph.D., FCCP²; (1)University of Maryland School of Pharmacy, Baltimore, MD; (2)Department of Pharmacy Practice, Ferris State University College of Pharmacy, Big Rapids, MI

438. Comparison of characteristics of end-stage renal disease patients on dialysis prescribed P2Y12 inhibitors: clopidogrel, prasugrel or ticagrelor.

Rafia Rasu, Ph.D.,¹ Busuyi Olotu, Ph.D.,¹ *Margaret Hansen, Pharm.D. Candidate*,¹ Milind Phadnis, Ph.D.,² Jonathan Mahnken, Ph.D.,² Nishank Jain, M.D., MPH³; (1)School of Pharmacy, University of Kansas, Lawrence, KS; (2)Department of Biostatistics, University of Kansas School of Medicine, Kansas City, KS; (3)University of Arkansas for Medical Sciences, Little Rock, AR

Neurology

439. A multi-center, double-blind, crossover, pilot study of the efficacy, tolerability and safety of dextromethorphan/ quinidine vs. sertraline in the treatment of involuntary emotional expression disorder in subjects with a traumatic brain injury.

Katelyn Kammers, Pharm.D. Candidate,¹ Cindi Laukes, M.A., MFA,² Bill Rosen, M.D.; (1)College of Health Professions & Biomedical Sciences, Neural Injury Center - University of Montana, Missoula, MT; (2)Neural Injury Center - University of Montana

Oncology

440. Systematic review to evaluate the impact of CYP2D6 genotype-phenotype on endoxifen concentrations and breast cancer outcomes.

Grace Hwang, Pharm.D. Candidate 2018, Meghana Trivedi, Pharm.D., Ph.D., BCOP; Department of Pharmacy Practice and Translational Research, University of Houston College of Pharmacy, Houston, TX

441. Molecular modeling studies on heparan sulfate glycosaminoglycans.

Courtney Burkham, B.A., Pharm.D. Candidate,¹ *Bruno De Maria, B.S., Pharm.D. Candidate*,¹ Samantha Mansberger, B.S. Candidate,² Olgun Guvench, M.D., Ph.D.; (1)College of Pharmacy, University of New England, Portland, ME; (2)University of New England

Other

442. CombiVial: your key to adherence, safety, and confidentiality.

Barbara Parker, Pharm.D. Candidate,¹ Sarah Alameddine, Pharm.D.²; (1)School of Pharmacy: Palm Beach Campus, Nova Southeastern University, Palm Beach Gardens, FL; (2)College of Pharmacy, Nova Southeastern University, Palm Beach Gardens, FL

443. The effect of advanced pharmacy practice experience grading on residency match rates.

Ava-Dawn Hammond, Pharm.D. Candidate,¹ Kathleen Pincus, Pharm.D., BCPS,² Brent N. Reed, Pharm.D., BCPS-AQ Cardiology,² Agnes Ann Feemster, Pharm.D., BCPS²; (1)University of Maryland School of Pharmacy, Baltimore, MD; (2)Department of Pharmacy Practice and Science, University of Maryland School of Pharmacy, Baltimore, MD

444. Evaluation of student characteristics and attainment of PGY1 pharmacy residency.

Kiera Murray, B.S., Pharm.D. Candidate 2017,¹ Antonia Vilella, Pharm.D., BCCCP, BCPS,² Sarah Eudaley, Pharm.D., BCPS³; (1)Lake Erie College of Osteopathic Medicine, School of Pharmacy, Bradenton, FL; (2)Bayfront Medical Center, St. Petersburg, FL; (3)University of Tennessee College of Pharmacy, Knoxville, TN

445. Evaluating the risk of hypertension with dopaminergic agonist/antagonist use.
Vinika Amin, Pharm.D. Candidate,¹ Nrupa Gonsai, Pharm.D. Candidate,¹ Chandani Mendpar, Pharm.D. Candidate,² Robert Speth, M.A., Ph.D.,¹ Genevieve Hale, Pharm.D., BCPS²; (1)College of Pharmacy, Nova Southeastern University, Fort Lauderdale, FL; (2)College of Pharmacy, Nova Southeastern University, Palm Beach Gardens, FL

Pain Management/Analgesia

446. Prevalence of pain conditions and evaluation of pain medication management in patients admitted to a large academic hospital.
Anne Reda, Pharm.D. Candidate, Tran Tran, Pharm.D., BCPS; Chicago College of Pharmacy, Midwestern University, Downers Grove, IL

Pediatrics

447. Incidence of hypophosphatemia in very low birth weight infants receiving parenteral nutrition.
Justin Gardo, Pharm.D. Candidate,¹ Caroline Macpherson, Pharm.D. Candidate,¹ Sona Tailor, Pharm.D. Candidate,¹ Christina Cox, Pharm.D., BCPS, BCPPS²; (1)South Carolina College of Pharmacy; (2)Clinical Pharmacy and Outcomes Sciences, South Carolina College of Pharmacy, USC Campus

448. Pharmacist involvement in pediatric summer camps for patients with chronic kidney disease.
Tracy Hagemann, Pharm.D.,¹ Jordan Perrine, B.S.²; (1)University of Tennessee College of Pharmacy; (2) University of Tennessee Health Science Center College of Pharmacy (NOTE: Poster will be presented during the second session Sunday 3:30–5:00)

Pharmacogenomics/Pharmacogenetics

449. The influence of CYP2C19 genetic polymorphism on the pharmacokinetics of cilostazol and its active metabolites.
Dong-Hyun Kim, B.S., Choong-Min Lee, B.S., Young-Hoon Kim, Ph.D. Candidate, Ji-Yeong Byeon, Ph.D. Candidate; School of Pharmacy, Sungkyunkwan University, Suwon, Republic of Korea

450. No association between different CYP2D6*10 allele and pharmacokinetics of clomiphene.
Dong-Hyun Kim, B.S., Young-Hoon Kim, Ph.D. Candidate, Ji-Yeong Byeon, Ph.D. Candidate; School of Pharmacy, Sungkyunkwan University, Suwon, Republic of Korea

451. CYP2D6 genetic polymorphisms significantly affected the pharmacokinetics of risperidone and its active metabolite.
Hye-Jin Lim, B.S., Dong-Hyun Kim, B.S., Ji-Yeong Byeon, Ph.D. Candidate; School of Pharmacy, Sungkyunkwan University, Suwon, Republic of Korea

452. Pharmacokinetics of risperidone after administration of clarithromycin in relation to CYP2D6 genotype.
Hye-Jin Lim, B.S., Ji-Yeong Byeon, Ph.D. Candidate; School of Pharmacy, Sungkyunkwan University, Suwon, Republic of Korea

453. The role of CYP2D6 genetic variants in the pharmacokinetics of single-dose tolterodine.
Choong-Min Lee, B.S., Dong-Hyun Kim, B.S., Young-Hoon Kim, Ph.D. Candidate; School of Pharmacy, Sungkyunkwan University, Suwon, Republic of Korea

454. Drug-drug interaction between clarithromycin and tramadol in different CYP2D6 genotypes.
Choong-Min Lee, B.S., Young-Hoon Kim, Ph.D. Candidate; School of Pharmacy, Sungkyunkwan University, Suwon, Republic of Korea

455. Factors influencing beliefs about pharmacogenetics testing in patients with chronic pain. *Brent Lovato, Pharm.D. Candidate*,¹ Kristin Weitzel, Pharm.D., CDE, FAPhA,¹ Amanda Elsey, MHA,¹ Caitrin W. McDonough, Ph.D.,¹ Yan Gong, Ph.D.,¹ Roger B. Fillingim, Ph.D.,² Siegfried O.F. Schmidt, M.D., Ph.D.,³ Julie A. Johnson, Pharm.D.,¹ Larisa H. Cavallari, Pharm.D.¹; (1)Department of Pharmacotherapy and Translational Research and Center for Pharmacogenomics, College of Pharmacy, University of Florida, Gainesville, FL; (2)Department of Community Dentistry and Behavioral Science, College of Dentistry, University of Florida, Gainesville, FL; (3)Department of Community Health and Family Medicine, College of Medicine, University of Florida, Gainesville, FL

456. Determining the potential value of preemptive multi-variant genotyping in primary care clinics.

Cara Nys, B.S.,¹ Kristin Weitzel, Pharm.D., CDE, FAPhA,¹ Amanda Elsey, MHA,¹ Brent Lovato, Pharm.D. Candidate,¹ Siegfried O.F. Schmidt, M.D., Ph.D.,² Julie Johnson, Pharm.D.,¹ Larisa H. Cavallari, Pharm.D., BCPS, FCCP³; (1)Department of Pharmacotherapy and Translational Research and Center for Pharmacogenomics, College of Pharmacy, University of Florida, Gainesville, FL; (2)Department of Community Health and Family Medicine, College of Medicine, University of Florida, Gainesville, FL

Pharmacokinetics/Pharmacodynamics/Drug Metabolism/Drug Delivery

457. Effect of gliadin-induced enteropathy in rats on in vitro hepatic metabolism of simvastatin. *Mallory Mouradjian, Pharm.D. Candidate 2017*, Iman Zaghoul, Ph.D.; School of Pharmacy, MCPHS University, Boston, MA

458. Identification of amino acid residues necessary for modulation of CAR-mediated transcription of ADME genes by CINPA¹: a study-in-progress.

Morgan A Casal, N/A, Milu Cherian, Ph.D., Sergio Chai, Ph.D., Taosheng Chen, Ph.D.; Department of Chemical Biology & Therapeutics, St. Jude Children's Research Hospital, Memphis, TN

Rheumatology

459. Biologics and biosimilars in the treatment of rheumatoid arthritis.

Tomona Iso, B.A., Jennifer Fore, B.A., Yana Vorontsova, B.A., Hatton Rachel, B.A.; College of Pharmacy, Nova Southeastern University, Fort Lauderdale, FL

Substance Abuse/Toxicology

460. Pharmacy student knowledge and opinions of opioid use disorder and dispensing naloxone in a community pharmacy setting.

Audrey Abelleira, B.A.,¹ Helen C. Pervanas, Pharm.D.²; (1)School of Pharmacy, MCPHS University, Manchester, NH; (2)Pharmacy Practice Department, MCPHS University, Manchester, NH

Transplantation/Immunology

461. Treatment responsiveness of immunosuppressant-induced complications following lung transplantation.

Nathan Menninga, B.S., Pharm.D. Candidate, Youqi Zhang, Pharm.D. Candidate, Rachel Sands, Pharm.D. Candidate, Mary Hayney, Pharm.D., MPH, John Dopp, Pharm.D., M.S.; School of Pharmacy, University of Wisconsin-Madison, Madison, WI

Women's Health

462. Miscarriage and fluconazole: interpreting the evidence.

Kamarena Sankar, B.S.,¹ David Leon, Pharm.D. Candidate,² Sandra Benavides, Pharm.D., FCCP, FPPAG³; (1)Department of Pharmacy Practice, Nova Southeastern University College of Pharmacy, Davie, FL; (2)College of Pharmacy, Nova Southeastern University, Davie, FL; (3)Department of Clinical and Administrative Sciences, Larkin Health Sciences Institute College of Pharmacy, Miami, FL