

## Scientific Poster Presentations, V

### Wednesday, October 21

Golden Gates 2-8

7:30 a.m.–9:30 a.m.

### ENCORE PRESENTATIONS

Abstracts marked with an “E” are Encore Presentations. Encore Presentations undergo the same peer-review process as all other presentations, but they may have been presented elsewhere or published in abstract form before the 2015 Global Conference.

### AWARDS COMPETITION

Finalists for the Best Student Poster, Best Resident and Fellow Poster, and Best Paper awards will be designated by a ribbon pinned to select posters. The awards for the Best Student Poster, Best Resident and Fellow Poster, and Best Paper will be presented during the Closing Ceremony and International Awards Presentations beginning at 11:30 a.m. on Wednesday, October 21, in Continental Ballroom 5.

### ORIGINAL RESEARCH

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

#### Adult Medicine

4. Comparative analysis of melatonin and zolpidem safety and efficacy in an adult inpatient population.  
*Dr. Lindsay Saum, PharmD, BCPS, CGP<sup>1</sup>*, Nicholas Bowles, PharmD Candidate<sup>2</sup>; (1)Department of Pharmacy Practice, Butler University, Indianapolis, IN; (2)St. Vincent Hospital, Indianapolis, IN

#### Ambulatory Care

7. LDL Reductions Observed With Rosuvastatin in a Real-World Multiracial Population.  
*Dr. Andrew Bzowoycky, PharmD, BCPS, CDE<sup>1</sup>*, Ms. Lara Kerwin, PharmD Candidate 2015<sup>2</sup>, Mrs. Meryl Lanning, PharmD Candidate 2015<sup>2</sup>; (1)Division of Pharmacy Practice and Administration, University of Missouri - Kansas City School of Pharmacy, Kansas City, MO; (2)University of Missouri - Kansas City School of Pharmacy

#### Cardiovascular

18. Effects of carvedilol in patients after cocaine-induced chest pain.  
*Shannon W. Finks, Pharm.D.<sup>1</sup>*, Michael Brenner, Pharm.D., BCPS- AQ Cardiology<sup>2</sup>, Debra W. Kemp, PharmD, BCPS, BCACP<sup>3</sup>, Lauren Odum, PharmD, BCPS<sup>4</sup>, Mary H. Parker, PharmD, BCPS, (AQ Cardiology)<sup>5</sup>, Robert B. Parker, Pharm.D.<sup>6</sup>, Kelly C. Rogers, Pharm.D.<sup>1</sup>; (1)Department of Clinical Pharmacy, University of Tennessee College of Pharmacy, Memphis, TN; (2)VA Ann Arbor Healthcare System, Ann Arbor, MI; (3)Department of Pharmacy, Durham VA Medical Center, Durham, NC; (4)University of Missouri - Kansas City School of Pharmacy and Harry S. Truman VA, Columbia, MO; (5)Durham VA Medical Center, Durham, NC; (6)University of Tennessee Dept of Pharmacy, Memphis, TN

20E. Comparison of Amiodarone Monitoring Compliance: Usual Care, Electronic Template Prescribing, and Pharmacist-Managed Clinic.

*Michael Brenner, Pharm.D., BCPS- AQ Cardiology<sup>1</sup>*, Jeannie Poon, Pharm.D.<sup>2</sup>, Allison Brenner, Pharm.D.<sup>1</sup>; (1)VA Ann Arbor Healthcare System, Ann Arbor, MI; (2)Novant Health Presbyterian Medical Center, Charlotte, NC

#### Drug Information

30. Comparison of the time interval between entry in PubMed and indexing with Medical Subject Headings between biomedical journals.

*Adriane Irwin, MS, PharmD<sup>1</sup>*, Daniel Rackham, PharmD<sup>2</sup>; (1)College of Pharmacy, Oregon State University, Corvallis, OR; (2)Lebanon Community Hospital, Lebanon, OR

#### Education/Training

34. Impact of physicians education on prescribing errors within an inpatient setting.  
*Mr. Hassan Mitwally, BScPharm, BCPS<sup>1</sup>, Mr. Tarek Ibrahim, BPharm, MClinPharm<sup>1</sup>, Mrs. Asmaa Fayez, BScPharm<sup>2</sup>; (1)Clinical Pharmacy, Al-Wakra Hospital: Hamad Medical Corporation, Al-Wakra, Qatar; (2)Inpatient Pharmacy, Al-Wakra Hospital: Hamad Medical Corporation, Al-Wakra, Qatar*
38. Documentation of clinical interventions during APPEs by students who accept residencies after graduation.  
*Miranda R. Andrus, Pharm.D., BCPS, FCCP, Lea Eiland, Pharm.D., BCPS, FASHP, T. Lynn Stevenson, Pharm.D., BCPS; Department of Pharmacy Practice, Auburn University Harrison School of Pharmacy, Auburn, AL*
39. Combination of a flipped classroom and a virtual patient case to enhance active learning in the classroom.  
*Alicia Lichvar, PharmD<sup>1</sup>, Ashley Hedges, PharmD<sup>2</sup>, Neal Benedict, PharmD<sup>3</sup>, Amy C. Donihi, PharmD<sup>3</sup>; (1)Department of Pharmacy and Therapeutics, University of Pittsburgh Medical Center, Pittsburgh, PA; (2)VA Pittsburgh Healthcare System, US Department of Veterans Affairs, Pittsburgh, PA; (3)Department of Pharmacy and Therapeutics, University of Pittsburgh School of Pharmacy, Pittsburgh, PA*
46. Provider Perceptions Regarding the Impact of Hypoglycemia on Insulin Therapy: A Field Medical Team Based Survey.  
*Mrs. Diana Noller, RN, CDE, Dr. Bethany Fedutes Henderson, Pharm D, Dr. Rita Lakamp, Pharm D, BCPS, Dr. Knikki Pendleton, Pharm D, Dr. Henry Anhalt, DO, Dr. Mahmood Kazemi, MD, Mrs. Sharon Levesque, MBA; US Medical Affairs, Sanofi US, Bridgewater, NJ*
47. The perceived importance of clinical research skills: A needs assessment to inform the development of a clinical research methods elective for PharmD students.  
*Dr. Heather Anderson, PhD<sup>1</sup>, Joseph Saseen, Pharm.D.<sup>2</sup>; (1)Department of Clinical Pharmacy, University of Colorado Denver Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, CO; (2)Department of Clinical Pharmacy, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, CO*

### **Family Medicine**

54. Scholarly contributions of pharmacist educators in family medicine in North America: A five-year review.  
*Jennie Jarrett, PharmD, BCPS<sup>1</sup>, Sarah Rindfuss, PharmD, BCPS<sup>2</sup>, Jody Lounsbery, Pharm.D.<sup>3</sup>; (1)UPMC St. Margaret Family Medicine Residency Program, UPMC St. Margaret, Pittsburgh, PA; (2)Department of Medical Education, UPMC St. Margaret Family Medicine Residency Program, Pittsburgh, PA; (3)Department of Pharmaceutical Care and Health Systems, University of Minnesota College of Pharmacy, Minneapolis, MN*

### **Geriatrics**

58. Limitations to Antimuscarinic Use in Nursing Home Residents with Overactive Bladder and/or Urinary Incontinence.  
*Barbara Zarowitz, Pharm.D.<sup>1</sup>, Carrie Allen, Pharm.D.<sup>2</sup>, Terrence O'Shea, Pharm.D.<sup>3</sup>, Todd Berner, M.D.<sup>4</sup>, Eric Tangalos, M.D.<sup>5</sup>, Dr. Joseph Ouslander, MD<sup>6</sup>; (1)Omnicare, Inc., Livonia, MI; (2)West Division, Omnicare, Inc., San Antonio, TX; (3)Division of Clinical Services, Omnicare, Inc., Englewood, OH; (4)Astellas Scientific and Medical Affairs, Northbrook, IL; (5)Mayo Clinic, Rochester, MN; (6)Florida Atlantic University*

### **Health Services Research**

59. Association between Discharge Pharmacist Counseling Techniques and Hospital Readmission Rate.  
*Dr. Rayf Abulezz IV, B.S, Pharm.D, BCPS<sup>1</sup>, Dr. Thamer Alaifan III, MBBS<sup>2</sup>, Dr. Aeshah Al-Azmi III, BS, Pharm.D<sup>3</sup>, Dr. Ahmed Attar IV, MBBS, FRCPC, ABPN, FAN<sup>4</sup>; (1)Pharmacy Department, Prince Mohamed bin Abdulaziz Hospital-NGHA, Madinah, Saudi Arabia; (2)Internal Medicine, Schulich School of Medicine & Dentistry Western University, London, ON, Canada; (3)Pharmaceutical care, King Abdulaziz Medical City-Jeddah-NGHA, Jeddah, Saudi Arabia; (4)School of Medicine, McMaster University, Hamilton, ON, Canada*
- 61E. Barriers to sustainable medication supply chain in a public hospital in Roatan, Honduras.  
*Dr. Navaneeth Narayanan, PharmD<sup>1</sup>, Dr. Sylvia Stoffella, PharmD<sup>2</sup>, Dr. Tina Brock, BSPHarm, EdD<sup>3</sup>; (1)Department of Pharmacy Practice and Administration, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ; (2)UCSF Medical Center; (3)Department of Clinical Pharmacy, UCSF School of Pharmacy*

### **Infectious Diseases**

77. Relationship of sulfamethoxazole therapeutic drug monitoring to clinical efficacy and toxicity: a retrospective cohort study.

*Lauren Ice, Pharm.D.<sup>1</sup>, Jason Barreto, Pharm.D.<sup>1</sup>, Bao Dao, Pharm.D., MBA<sup>2</sup>, Robert Wolf, Pharm.D.<sup>1</sup>, Ross Dierkhising, MS<sup>3</sup>, Paul Jannetto, Ph.D.<sup>4</sup>, Loralie Langman, Ph.D.<sup>4</sup>, Pritish Tosh, M.D.<sup>5</sup>*; (1)Department of Pharmacy, Mayo Clinic, Rochester, MN; (2)Department of Clinical Pharmacy, University of California San Francisco Medical Center, San Francisco, CA; (3)Division of Biomedical Statistics and Informatics, Mayo Clinic, Rochester, MN; (4)Division of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN; (5)Division of Infectious Diseases, Mayo Clinic, Rochester, MN

80. Risk of relapse of urinary tract infections due to extended-spectrum beta-lactamase producing organisms.

*Adriane Irwin, MS, PharmD<sup>1</sup>, Sumit Patel, PharmD<sup>2</sup>, Jessina C. McGregor, Ph.D.<sup>3</sup>, David T. Bearden, PharmD<sup>4</sup>, Thomas Delate, PhD<sup>5</sup>*; (1)College of Pharmacy, Oregon State University/Oregon Health Science University, Corvallis, OR; (2)Pharmacy Department, Indiana University Health; (3)Oregon State University/Oregon Health & Science University College of Pharmacy, Portland, OR; (4)College of Pharmacy, Oregon State University/Oregon Health Science University, Portland, OR; (5)Pharmacy Department, Kaiser Permanente Colorado, Aurora, CO

## Medication Safety

84. Institution, EHR vendor, and drug database provider collaboration combats sources of alert fatigue.

*Ms. Jennifer Gatsos-Walter, PharmD<sup>1</sup>, Ms. Kayann Burke, PharmD<sup>1</sup>, Mr. Howard Venable, RPh, MBA<sup>2</sup>, Mr. Jeff Thompson, RPh<sup>3</sup>, Mr. Chris Hansen, #<sup>4</sup>*; (1)Wolters Kluwer Clinical Drug Information (WKCDI), Indianapolis, IN; (2)Loyola University Health System, Maywood, IL; (3)Stormont- Vail HealthCare, Topeka, KS; (4)Epic, Verona, WI

85. Reduce Medication Errors by Doing Early Medication Reconciliation in the Emergency Department.

*Dr. Josephine Quach, PharmD, Dr. San Hua, PharmD, Dr. Brittany Traylor, PharmD, Dr. Julianna Burton, Pharm.D.*; Pharmacy, University of California Davis Medical Center, Sacramento, CA

86. Improving Medication Reconciliation for Patients across Care Transitions.

*Dr. Lindsay Saum, PharmD, BCPS, CGP<sup>1</sup>, Cindy Selzer, PharmD, BCPS<sup>2</sup>, Suellyn Sorensen, PharmD, BCPS<sup>2</sup>, Anthony Antonopoulos, RPh, MBA<sup>2</sup>, Gintas Kuseliauskas, PharmD Candidate<sup>3</sup>*; (1)Department of Pharmacy Practice, Butler University, Indianapolis, IN; (2)Department of Pharmacy, St. Vincent Health, Indianapolis, IN; (3)Butler University

## Nutrition

101. Stakeholders views on why child obesity is rising in Lagos, Nigeria.

*Ms. Adeteju Adedini, Bachelor of Pharmacy, MSc, Clinical Pharmacy, CLINICAL PHARMACY AND BIOPHARMACY, UNIVERSITY OF LAGOS, NIGERIA, OGUN, Nigeria*

## Oncology

103. Are community pharmacists in Japan equipped to ensure the safe use of oral anticancer agents?

*Shinya Suzuki, M.S.<sup>1</sup>, Gary Yee, PharmD, FCCP, BCOP<sup>2</sup>, Hiroomi Sakurai, M.S.<sup>3</sup>, Kenji Kawasumi, M.S.<sup>4</sup>, Makoto Tahara, M.D., Ph.D.<sup>5</sup>, Shinichiro Saito, B.S.<sup>1</sup>, Philip Johnson, M.S.<sup>6</sup>, Rick Abbott, BSc.Pharm<sup>7</sup>, Prof. Kazushi Endo, BSc.Pharm<sup>8</sup>*; (1)Department of Pharmacy, National Cancer Center Hospital East, Kashiwa, Japan; (2)University of Nebraska Medical Center, Omaha, NE; (3)Department of Pharmacy, Keio University Hospital, Tokyo, Japan; (4)Department of Pharmacy, National Cancer Center Hospital East, Japan; (5)Division of Head and Neck Medical Oncology, National Cancer Center Hospital East, Kashiwa, Japan; (6)Premier, Tampa, FL; (7)Dr. H. Bliss Murphy Cancer Center, St. John's, NF, Canada; (8)The Japanese Society of Hospital Pharmacists, Tokyo, Japan

105. Influence of Different Cisplatin Doses on Toxicities and Treatment Response in Head and Neck Cancer Patients.

*Ms. Marília B. Visacri, M.Sc, Ms. Leisa Lopes-Aguiar, M.Sc, Ms. Ericka F. D. Costa, M.Sc, Mr. Guilherme A. S. Nogueira, M.Sc, Ms. Tathiane R. P. Lima, M.Sc, Ms. Grazielle B. Ferrari, Undergraduate, Ms. Anna P. L. Costa, Undergraduate, Mr. Eder C. Pincinato, M.Sc, Ms. Júlia C. F. Quintanilha, Bachelor, Prof. Priscila G. Mazzola, Ph.D, Ms. Luciane Calonga, Bachelor, Dr. Carlos T. Chone, Ph.D, M.D, Dr. João M. C. Altemani, Ph.D, M.D, Prof. Carmen S. P. Lima, Ph.D, M.D, Prof. Patricia Moriel, Ph.D; University of Campinas, Campinas, Brazil*

106E. Thromboembolic Events and Thromboprophylaxis in Thalidomide-Treated Multiple Myeloma Patients in Hong Kong - a Retrospective Study.

*Dr. Keary Zhou, Pharm.D.*<sup>1</sup>, Ms. Ting Ting Ng, Bachelor of Pharmacy<sup>2</sup>, Ms. Tsz Wai Lin, Bachelor of Pharmacy<sup>2</sup>; (1)School of Pharmacy, The Chinese University of Hong Kong, Shatin, Hong Kong; (2)School of Pharmacy, The Chinese University of Hong Kong

### Other

108. 10-Year Risk Estimation for Type 2 Diabetes and Coronary Heart Disease in Kuwait: A Cross-sectional Population-Based Study.

*Dr. Abdelmoneim Awad, PhD*, Dr. Fatemah Alsaleh, PhD; Pharmacy Practice, Faculty of Pharmacy - Kuwait University

### Pediatrics

118. Cisatracurium infusion rates in infants and children receiving extracorporeal membrane oxygenation (ECMO).

*Marcia L. Buck, PharmD*<sup>1</sup>, Samuel Addison, RRT<sup>1</sup>, Gary Fang, MD<sup>2</sup>; (1)University of Virginia Children's Hospital, Charlottesville, VA; (2)Department of Pediatrics, School of Medicine, University of Virginia, Charlottesville, VA

### Pharmacoeconomics/Outcomes

125. Cost-Effectiveness of Myeloid Growth Factor Prophylaxis Strategies for Febrile Neutropenia among Non-Hodgkin's Lymphoma Patients receiving Curative-Intent R-CHOP Chemotherapy.

*Mr. Xiao Jun WANG, BSc*<sup>1</sup>, Dr. Tiffany Tang, MD<sup>2</sup>, Dr. Mohd Farid, MD<sup>2</sup>, Dr. Richard Quek, MD<sup>2</sup>, Dr. Miriam TAO, MD<sup>2</sup>, Dr. Soon Thye LIM, MD<sup>2</sup>, Dr. Hwee Lin Wee, PhD, BSc(Pharm)(Hons)<sup>1</sup>, Prof. Alexandre Chan, Pharm.D., MPH, FCCP, BCPS, BCOP<sup>1</sup>; (1)Department of Pharmacy, National University of Singapore, Singapore, Singapore; (2)Department of Medical Oncology, National Cancer Centre Singapore, Singapore, Singapore

126. Cost-effectiveness of pharmacist-managed anticoagulation service compared with usual care in older Singaporean adults with atrial fibrillation.

*Mr. Wen Bing Brandon Chua, B.Sc (Pharm)(Hons)*<sup>1</sup>, *Mr. Hua Heng McVin Cheen, B.Sc (Pharm)(Hons)*<sup>2</sup>, Mr. Ming Chai Kong, M.Sc (Pharm), B.Sc (Pharm)<sup>2</sup>, Ms. Li Li Chen, MPharm (Clinical), BPharm<sup>2</sup>, Dr. Hwee Lin Wee, PhD, BSc(Pharm)(Hons)<sup>1</sup>; (1)Department of Pharmacy, National University of Singapore, Singapore, Singapore; (2)Department of Pharmacy, Singapore General Hospital, Singapore, Singapore

### Psychiatry

145E. Aripiprazole once-monthly dual chamber syringe.

*Dr. Timothy Peters-Strickland, MD*<sup>1</sup>, *Ross A Baker, PhD, MBA*<sup>1</sup>, Anna Eramo, MD<sup>2</sup>, Dr. David Unger, PhD<sup>1</sup>; (1)Otsuka Pharmaceutical Development & Commercialization, Inc., Princeton, NJ; (2)Lundbeck LLC, Deerfield, IL

146E. Primary non-adherence to antidepressants: Differences by class.

*Dr. Heather Anderson, PhD*<sup>1</sup>, Dr. Gerald Pulver, PhD<sup>2</sup>, Dr. Sam Ellis, PharmD<sup>3</sup>, Mykel Walsh, BS<sup>3</sup>, John Lynch, MPH<sup>4</sup>, Dr. Robert Valuck, PhD<sup>3</sup>; (1)Department of Clinical Pharmacy, University of Colorado Denver Skaggs School of Pharmacy and Pharmaceutical Sciences, Aurora, CO; (2)School of Medicine, University of Colorado Denver; (3)University of Colorado Denver Skaggs School of Pharmacy and Pharmaceutical Sciences; (4)Connecticut Center for Primary Care, Inc.

### Substance Abuse/Toxicology

148. Program evaluation by telephone questionnaire for an intranasal naloxone rescue kit prescribing program.

*Dr. Kevin Kaucher, PharmD*<sup>1</sup>, Eric Gilliam, PharmD<sup>2</sup>; (1)Department of Pharmacy and Emergency Medicine, Denver Health Medical Center, Denver, CO; (2)Skaggs School of Pharmacy and Pharmaceutical C238, University of Colorado, Aurora, CO

## CLINICAL PHARMACY FORUM

### ADR/Drug Interactions

153. A multi-faceted approach to improving adverse drug reaction capture across a diverse group of hospitals.

*Dr. Steven Johnson, Pharm.D., Dr. Gretchen Lindsey, Pharm.D., Dr. Joseph Dula, Pharm.D., BCPS, Dr. Katherine Marchionda, Pharm.D.; Pharmacy Systems, Inc., Dublin, OH*

### **Ambulatory Care**

163. Impact of pharmacist-initiated home blood pressure monitoring and telephonic interventions.  
*Josephine Aranda, PharmD, Krista Mecadon, BS, Bhakti Patel, BS, Debra Reid, PharmD; School of Pharmacy, Northeastern University, Boston, MA*

### **Cardiovascular**

167. Development and validation of a risk score to identify hospitalized patients at risk for torsade de pointes and sudden cardiac death.  
*Dr. Jason Haney, Pharm.D.; Department of Clinical Pharmacy & Outcome Sciences, South Carolina College of Pharmacy, Charleston, SC*

### **Clinical Administration**

169. Checking the clinical pathway prescription to promote rational drug use.  
*Mrs. Wei Lina, MD; Pharmacy Department, The Affiliated Hospital of Qingdao University, Qing dao, China*

### **Family Medicine**

181. The Pharmacist's Role in Readmission Rates in Transitional Care Management in a Family Medicine Clinic.  
*Ann M. Philbrick, Pharm.D.<sup>1</sup>, Ila M. Harris, Pharm.D.<sup>2</sup>; (1)Department of Pharmaceutical Care and Health Systems, University of Minnesota College of Pharmacy, Minneapolis, MN; (2)Department of Family Medicine and Community Health, University of Minnesota Medical School, Minneapolis, MN*

### **Gastroenterology**

182. Role of the clinical pharmacist in the changing landscape of hepatitis C treatment.  
*Dr. Jennifer Stark, Pharm.D., BCPS; Veterans Healthcare System of the Ozarks, Fayetteville, AR*

### **Infectious Diseases**

186. A Pharmacist Lead Latent Tuberculosis Infection Clinic in a County Health Department.  
*Christina M. Madison, Pharm.D., BCACP, AAHIVP; Roseman University of Health Sciences College of Pharmacy, Henderson, NV*

### **Medication Safety**

187. AIM Model a novel and effective pharmaceutical care tool to optimise drug use process among patients as per their individual needs and demands.  
*Mr. Mir Javid Iqbal, M. Pharm.<sup>1</sup>, Dr. Mohmmad Ishaq Geer, M Pharm, Ph.D<sup>2</sup>; (1)Pharmaceutical Sciences, University of Kashmir, Srinagar, India; (2)pharmaceutical Sciences, University of Kashmir, srinagar, India*

### **Oncology**

194E. Developing a New MODEL of TEAM-Based, Patient-Centric Care for Ambulatory Cancer Patients.  
*Dr. Vivianne Shih, Pharm.D., Mr. Wei Chang Ang, BSc (Molecular Biology & Biotechnology), Ms. Lita Chew, MMedSci(Clinical Oncology), Dr. Kaung Yuan Lew, Pharm.D., Ms. Afidah Bte Manaf, BSc (Pharm), Ms. Su Wen Lim, MSc (Clin Pharm), Ms. Joen Chiang, BSc (Pharm) Hons, Mr. Seng Kok Ang, BSc (Pharm); Department of Pharmacy, National Cancer Centre Singapore, Singapore, Singapore*

195. Adherence to Oral Endocrine Therapy in Asian Women with Breast Cancer.  
*Ms. Lita Chew, MMedSci(Clinical Oncology)<sup>1</sup>, Dr. Jo Lene Leow, PhD<sup>2</sup>, Ms. Ka Lok Cheung, BSc (Pharm)<sup>3</sup>, Mr. Chee Ping Lee, BScPharm(Hon)<sup>4</sup>; (1)Department of Pharmacy, National University of Singapore, Singapore, Singapore; (2)Pharmacy, National Cancer Centre Singapore, Singapore, Singapore; (3)Pharmacy, National University of Singapore, Singapore, Singapore; (4)Department of Pharmacy, National Cancer Centre Singapore*

## Other

196. Obtaining sexual health information from diabetes patients in the Middle East.

*Dr. Kerry Wilbur, BScPharm, PharmD, MScPH, FCSHP*; QU College of Pharmacy, Qatar University College of Pharmacy, Doha, Qatar

199. A Poster Walk Rounds at the ACCP Annual Meeting: Surveying for Success.

*Christopher Paciullo, PharmD, BCPS, FCCM<sup>1</sup>*, Scott Bolesta, PharmD, BCPS, FCCM<sup>2</sup>, Dr. Pamela L. Smithburger, Pharm.D., MS, BCPS<sup>3</sup>; (1)Emory University Hospital, Atlanta, GA; (2)Department of Pharmacy Practice, Wilkes University, Wilkes-Barre, PA; (3)Pharmacy and Therapeutics, University of Pittsburgh School of Pharmacy, Pittsburgh, PA

200. Ambulatory Care PRN membership benefits survey.

*Maria M. Thurston, Pharm.D., BCPS<sup>1</sup>*, Kristen Gardner, Pharm.D.<sup>2</sup>, Elaine Nguyen, PharmD, MPH, BCPS<sup>3</sup>, Lea E. dela Pena, PharmD, BCPS<sup>4</sup>, Michael Thiman, Pharm.D., BCPS<sup>5</sup>, Dr. Andrew Smith, Pharm.D., BCPS (AQ-CV)<sup>6</sup>; (1)Pharmacy Practice, Mercer University College of Pharmacy, Atlanta, GA; (2)Center for Behavioral Medicine, Kansas City, MO; (3)Boise Veterans Affairs Medical Center; (4)Department of Pharmacy Practice, Dreyer Medical Clinic & Midwestern University Chicago College of Pharmacy, Downers Grove, IL; (5)University of Georgia College of Pharmacy; (6)UMKC School of Pharmacy, Kansas City, MO

## Pharmacokinetics/Pharmacodynamics/Drug Metabolism/Drug Delivery

209. Pharmacist Monitoring of Enoxaparin in High Risk Patients.

Suzy Emerich, PharmD<sup>1</sup>, Adele Robbins, PharmD<sup>2</sup>, Anne Winkler, MD<sup>3</sup>, Kathy Yaughn, RPh<sup>2</sup>, *Christopher Paciullo, PharmD<sup>4</sup>*; (1)Mercer University College of Pharmacy; (2)Emory University Hospital; (3)Emory University School of Medicine; (4)Department of Pharmaceutical Services, Emory University Hospital, Atlanta, GA

## INTERNATIONAL CLINICAL PHARMACY EDUCATION AND TRAINING

### Cardiovascular

214E. Dark chocolate and blood pressure: a novel study from Jordan.

*Ms. Lama Al-Rashdan, Master*, chairman of Pharmacy & Therapeutic committee, Princess Badee'a Training Hospital for Gynecology & Obstetrics, Irbid, Jordan

### Education/Training

215. Current status of pharmacy education in Syria:A roadmap to clinical reform.

*Anas Bahnassi, PhD RPh<sup>1</sup>*, Prof. Imad Abou Khamis, PhD<sup>2</sup>; (1)Clinical and Hospital Pharmacy, Al-Rasheed University, Damascus, Saudi Arabia; (2)University Administration, Al-Rasheed University, Damascus, Syria

216. Role of the American faculty preceptor during a new international advanced pharmacy practice experience.

*Dr. Jon Wietholter, PharmD, BCPS<sup>1</sup>*, Dr. Jennifer Confer, PharmD, BCPS<sup>1</sup>, Dr. Renier Coetzee, PharmD<sup>2</sup>; (1)School of Pharmacy, Department of Clinical Pharmacy, West Virginia University, Morgantown, WV; (2)University of the Western Cape, Cape Town, South Africa

217. Perceived Continuing Educational and Professional Training Needs for Pharmacists in the United Arab Emirates: Results of Two Surveys.

*Dr. Geoffrey Wall, Pharm.D.<sup>1</sup>*, Mr. Nababrata Ghosh, BPharm<sup>2</sup>, Dr. Mariam Galadari, Pharm.D.<sup>3</sup>; (1)Drake University College of Pharmacy, Des Moines, IA; (2)WebRx, India; (3)Emirates Medical Association, United Arab Emirates

218. Implementing and assessing active-learning in a remedial infectious diseases pharmacotherapy course.

*Dr. Wissam Kabbara, PharmD, BCPS<sup>1</sup>*, Dr. Elias Chahine, PharmD, BCPS (AQ-ID)<sup>2</sup>; (1)Lebanese American University, School of Pharmacy, Byblos, Lebanon; (2)Palm Beach Atlantic University, Lloyd L. Gregory School of Pharmacy, West Palm Beach, FL

219. Development of a Pharm.D. degree program at the National University of Singapore.

*Dr. Grant Sklar, PharmD*; Department of Pharmacy, National University of Singapore, Singapore, Singapore

220. Development of a PGY1 pharmacy residency program at the National University Hospital in Singapore.

*Dr. Grant Sklar, PharmD<sup>1</sup>, Siew Woon Lim, MSc (Clinical Pharmacy), BCOP<sup>2</sup>, Mr. Tuck Seng Wu, BScPharm, MHSM<sup>2</sup>, Dr. Simeon Tang, PharmD<sup>2</sup>, Dr. Patrick Wong, PharmD<sup>2</sup>; (1)Department of Pharmacy, National University of Singapore, Singapore, Singapore; (2)Department of Pharmacy, National University Hospital, Singapore, Singapore*

221. Comparative systems global pharmacy fellowship.

*Trisha Seys Ranola, PharmD<sup>1</sup>, Connie Kraus, PharmD<sup>1</sup>, Lori DiPrete Brown, MSPH, MTS<sup>2</sup>, Jeanette Roberts, PhD, MPH<sup>1</sup>; (1)School of Pharmacy, University of Wisconsin-Madison, Madison, WI; (2)Global Health Institute, University of Wisconsin-Madison, Madison, WI*

222. Expectations of Professional Students in a Dental and Pharmacy Program.

*Dr. Andrew Smith, Pharm.D., BCPS (AQ-CV)<sup>1</sup>, Dr. Becky Smith, DDS<sup>2</sup>, Betty Blackmon, JD<sup>3</sup>; (1)UMKC School of Pharmacy, Kansas City, MO; (2)UMKC School of Dentistry, Kansas City, MO; (3)UMKC School of Social Work, Kansas City, MO*

229. Cooperative Programming Leading to Enhanced Clinical Skills of Indonesian Pharmacists.

*Dr. Roger Lander, BSPHarm, PharmD, FCCP, FASHP, BCACP<sup>1</sup>, Ms. Yulia Trisna, M.Pharm<sup>2</sup>, Dr. Robert Henderson, BSPHarm, PharmD, FCCP, FASHP, BCPS<sup>1</sup>, Dr. Steve Stricker, PharmD, MS, BCOP<sup>3</sup>, Dr. Paula Thompson, PharmD, MS, BCPS<sup>1</sup>, Ms. Endang Budiarti, M.Pharm<sup>4</sup>; (1)Pharmacy Practice Department, McWhorter School of Pharmacy, Samford University, Birmingham, AL; (2)Department of Pharmacy, Cipto Mangunkusumo Hospital, Jakarta, Indonesia; (3)US Medical Affairs Oncology, Takeda Oncology, Cambridge, MA; (4)Department of Pharmacy, Bethesda Hospital Yogyakarta, Yogyakarta, Indonesia*

233. Clinical pharmacy education in Japan; The education for developing communication skill and problem solving ability learning by lab preliminary education and pharmacy experience training.

*Dr. Rie Kubota, Pharm.D., Dr. Kiyoshi Shibuya, Ph.D., Dr. Manahito Aoki, Ph.D., Dr. Yoichi Tanaka, Ph.D., Mrs. Megumi Shiomi, M.S., Mr. Wataru Ando, M.S., Prof. Takako Komiyama, Pharm.D.; School of Pharmacy, Center for Clinical Pharmacy and Sciences, Department of Clinical Pharmacy, Kitasato University, Tokyo, Japan*

236. Development of Elective Interprofessional Pharmacy Practice Experiences in Ndejje Uganda.

*Dr. Kevin Rynn, BS, PharmD<sup>1</sup>, Dr. Moses Arinaitwe, MBChB-MUK, MSc(Public Health)-UMU<sup>2</sup>, Dr. Bradley Cannon, PharmD<sup>1</sup>, Dr. Lisa Michener, PharmD, MS<sup>1</sup>, Redi Dema, AA, PharmD Candidate<sup>1</sup>, Helen Ubabuike, PharmD Candidate<sup>1</sup>, Haley Spaulding, BS, PharmD Candidate<sup>1</sup>, Carrie Spindler, BS, PharmD Candidate<sup>1</sup>, Alyssa Wenzel, PharmD<sup>1</sup>, Freddy Kitutu, MSC, MPS<sup>3</sup>, Jacqueline Namatovu, BS<sup>2</sup>, Dr. Inis Bardella, MD<sup>1</sup>; (1)Rosalind Franklin University of Medicine and Science, North Chicago, IL; (2)Ndejje HealthCentre IV, Ndejje, Uganda; (3)Makerere University College of Health Sciences, Kampala, Uganda*

237. Cross cultural teaching of patient care and clinical reasoning in Asia.

*Dr. Robert Henderson, BSPHarm, PharmD, FCCP, FASHP, BCPS, Dr. Roger Lander, BSPHarm, PharmD, FCCP, FASHP, BCACP, Dr. Michael Hogue, PharmD, FAPhA, FNAP, Dr. Charles Sands III, BSPHarm, PharmD; Pharmacy Practice Department, McWhorter School of Pharmacy, Samford University, Birmingham, AL*

240. Design, Development, and Early Implementation of the Professional Pharmacy Curriculum in Iraqi Kurdistan.

*Cathy Ficzer, Pharm.D., BCPS<sup>1</sup>, Dr. Andrew Webster, Ph.D.<sup>2</sup>; (1)Department of Pharmacy Practice, Belmont University College of Pharmacy, Nashville, TN; (2)Pharmaceutical, Social, and Administrative Sciences, Belmont University College of Pharmacy, Nashville, TN*

245. Provision of therapeutics case conferences through a virtual classroom to facilitate clinical pharmacy learning in Taiwan.

*Felix K. Yam, Pharm.D., M.A.S., BCPS<sup>1</sup>, Hsiang-Wen Lin, M.S., Ph.D.<sup>2</sup>, Chin-Chuan Hung, M.S., Ph.D.<sup>2</sup>, Grace M. Kuo, Pharm.D., M.P.H., Ph.D., FCCP<sup>1</sup>, Shin-Hun Juang, M.S., Ph.D.<sup>2</sup>, Ching-Yao Cheng, MS,<sup>2</sup> Fei-Ka Syu, M.S.<sup>2</sup>, Jaw-Horng Liou, M.S.<sup>2</sup>; (1)Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California, San Diego, La Jolla, CA; (2)School of Pharmacy and Graduate Institute, China Medical University, Taichung, Taiwan*

246. Development and Implementation of International Pharmacotherapy Training Workshops in Benin City, Nigeria.

*Dr. Pamela M. Moye, PharmD, BCPS, AAHIVP<sup>1</sup>, Dr. Angela O. Shogbon, PharmD, BCPS<sup>1</sup>, Dr. Uche Ndefo, PharmD, BCPS<sup>2</sup>, Dr. Michell Butler, PharmD<sup>1</sup>, Dr. Ashish Advani, PharmD<sup>1</sup>, Prof. Ehis Enato, PhD<sup>3</sup>, Teresa Pounds, PharmD, BCNSP<sup>4</sup>; (1)Mercer University College of Pharmacy, Atlanta, GA; (2)Texas Southern University, Houston, TX; (3)University of Benin; (4)Atlanta Medical Center, Atlanta, GA*

247. Development of Advanced Pharmacy Practice Experiences in Global Health.

*Lauren J. Jonkman, PharmD, MPH, BCPS*, Sharon E. Connor, PharmD; School of Pharmacy, University of Pittsburgh, Pittsburgh, PA

251. Applying the Five-step teaching method in pharmacy residency oncology courses in a Chinese hospital.

*Zhengzheng Xie, M.S*; Pharmacy Department, Beijing Shijitan Hospital Capital Medical University, Beijing, China

253. Impacts of a community practice experiences course on undergraduate pharmacy students.

*Dr. Yunn-Fang Ho, PhD<sup>1</sup>*, Yun-Wen Tang, MS<sup>2</sup>, Yu-Hsin Lo, BS<sup>1</sup>, Ling-Ling Hsieh, MS<sup>1</sup>; (1)School of Pharmacy, National Taiwan University, Taipei, Taiwan; (2)Graduate Institute of Clinical Pharmacy, National Taiwan University, Taipei, Taiwan

254. Teaching clinical pharmacy at Sefako Makgatho Health Sciences University, South Africa.

*Prof. Andries Gous, BPharm, Pharm. D*, Prof. Natalie Schellack, BPharm, PhD; Department of Pharmacy, Sefako Makgatho Health Sciences University, Ga-Rankuwa, South Africa

270. Clinical contact workshop for pharmacy students in a mexican university.

*Prof. René Francisco Bassó-Quevedo, Pharm.*, Prof. María del Carmen Medel-Bojórquez, Pharm.; Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California, Tijuana, B.C., Mexico

## **INTERNATIONAL CLINICAL PHARMACY PRACTICE**

### **Ambulatory Care**

276. A retrospective review of a pharmacist-managed smoking cessation program in a Singapore hospital.

*Ms. Phaik Yuan Poh, Master of Pharmacy (Honours)*, Ms. Celine Chang Chyi Ng, Bachelor of Science (Pharmacy) (Honours); Department of Pharmacy, Changi General Hospital, Singapore, Singapore

### **Community Pharmacy Practice**

280. Development of community pharmacy-based clinical research in Japan.

*Ms. Tomoko Miyazaki, Master of Clinical Pharmacy<sup>1</sup>*, Dr. Ryoichi Fujiwara, Ph.D.<sup>1</sup>, Dr. Jay D. Currie, Pharm.D., R.Ph.<sup>2</sup>, Dr. Bernard Sorofman, Ph.D.<sup>2</sup>, Dr. Tomoo Itoh, Ph.D.<sup>1</sup>, Dr. Yuji Yoshiyama, Ph.D.<sup>1</sup>; (1)Kitasato University School of Pharmacy, Tokyo, Japan; (2)The University of Iowa College of Pharmacy, Iowa City, IA

### **Education/Training**

282. Patient Counseling Activities of University of San Carlos Pharmacy students in preparation for clinical practice.

*Mrs. Elizabeth Tan, MS Pharmacy*, Department of Pharmacy, School of Health Care Professions, University of San Carlos, Cebu City, Philippines

287. An International Collaboration to Support Development of Clinical Pharmacy Practice in Tianjin Medical University Cancer Institute & Hospital.

*Dr. Caroline Zeind, PharmD<sup>1</sup>*, Dr. Yi Gao-Roberts, PharmD<sup>2</sup>, Ms. Chao Zhang, MS<sup>3</sup>, Ms. Zheng Chen, MS<sup>3</sup>, Ms. Chen Wang, BS<sup>4</sup>; (1)Center for International Studies, MCPHS University, Boston, MA; (2)Pharmacy Department, UMass Memorial Medical Center, Worcester, MA; (3)Pharmacy Department, Tianjin Medical University Cancer Institute & Hospital, China; (4)Pharmacy Department Director, Tianjin Medical University Cancer Institute & Hospital, China

### **Managed Care**

301. Influence of pharmacist intervention on the knowledge of anticoagulation therapy with warfarin by the patient.

*Ms. Xiang Qian, master*, Peking University First Hospital, China

### **Medication Safety**

308. Provision of Pharmacy Interventions to Promote Medication Safety in a Selected Medical Center in the Philippines – Great Catch Program.

*Ms. Hazel Faye Docuyanán, Master of Science in Hospital Pharmacy<sup>1</sup>*, Ms. Mary Jeane Robles, Bachelor of Science in Pharmacy<sup>2</sup>; (1)Philippine Society of Hospital Pharmacists (PSHP); (2)Department of Pharmacy Services, Clinical Pharmacy Section, Makati Medical Center, Makati City, Philippines



309. Impact of pediatric pharmacist interventions in general pediatric ward in Korea.

*Ms. Sook Hee An, Ph. D.*<sup>1</sup>, *Ms. Jae Youn Kim, Ph.D.*<sup>2</sup>, *Hyesun Gwak, Ph.D., Pharm.D.*<sup>3</sup>; (1)College of pharmacy, Wonkwang university, Iksan, South Korea; (2)Department of Pharmacy, Asan Medical Center, Seoul, South Korea; (3)College of Pharmacy & Division of Life and Pharmaceutical Sciences, Ewha Womans University, Seoul, South Korea

310. Evaluation of incorporation medication claims data into hospital electronic health record.

*Tzu-Hsuan Lu, MS*<sup>1</sup>, *Shih-Ya Huang, RPh*<sup>2</sup>, *You-Meei Lin, M.S.*<sup>3</sup>; (1)Department of Pharmacy, Taipei Medical University- Shuang Ho Hospital, New Taipei City, Taiwan; (2)Department of Pharmacy, Shuang Ho Hospital, Taipei Medical University, New Taipei City, Taiwan; (3)College of Pharmacy, Taipei Medical University, Taipei, Taiwan

### **Nutrition**

311. The fight against malnutrition: education for Guatemalan natives about creating a balanced diet using locally available resources.

*Robin L. Koffarnus, Pharm.D., BCACP*<sup>1</sup>, *Renee Holder, PharmD, BCPS*<sup>2</sup>; (1)Texas Tech University Health Sciences Center, School of Pharmacy, Dallas, TX; (2)Roseman University of Health Sciences College of Pharmacy, Henderson, NV

### **Other**

320. An introduction to the Global Health PRN and its members.

*Robin L. Koffarnus, Pharm.D., BCACP*<sup>1</sup>, *Dr. Kristin M. Darin, PharmD*<sup>2</sup>, *Ashley Hedges, PharmD*<sup>3</sup>, *Bernice Man, Pharm.D. Candidate 2015*<sup>4</sup>, *Cory Nelson, Pharm.D., Dr. Emily Peron, Pharm.D., MS*<sup>6</sup>, *Tran Tran, Pharm.D., Renee Holder, PharmD, BCPS*<sup>7</sup>; (1)Texas Tech University Health Sciences Center, School of Pharmacy, Dallas, TX; (2)Division of Infectious Diseases and Center for Global Health, Northwestern University Feinberg School of Medicine, Chicago, IL; (3)VA Pittsburgh Healthcare System, US Department of Veterans Affairs, Pittsburgh, PA; (4)Chicago State University College of Pharmacy, Chicago, IL; (5)School of Pharmacy, Virginia Commonwealth University, Richmond, VA; (6)Roseman University of Health Sciences College of Pharmacy, Henderson, NV

### **Pediatrics**

321. Results from the development of a Clinical Pharmacy Program in a Chilean Pediatric Hospital: a 6 year review experience.

*Mr. Felipe Silva M, Pharmacist*, *Mr. Jorge Morales V, Pharmacist*, *Ms. M<sup>a</sup> Jesús Henríquez, Pharmacist*; Department of Clinical Pharmacy, Hospital Dr. Luis Calvo Mackenna, Santiago Centro, Chile

322. Optimization of indicators of Clinical Pharmacy activities at a Chilean Pediatric Hospital.

*Mr. Felipe Silva M, Pharmacist*<sup>1</sup>, *Ms. Andrea Campos H, Pharmacy student*<sup>2</sup>, *Ms. M<sup>a</sup> Jesús Henríquez, Pharmacist*<sup>1</sup>, *Mr. Jorge Morales V, Pharmacist*<sup>1</sup>, *Prof. Betzabé Rubio L, Pharmacist*<sup>2</sup>; (1)Department of Clinical Pharmacy, Hospital Dr. Luis Calvo Mackenna, Santiago Centro, Chile; (2)Universidad de Chile, Santiago, Chile

### **Pulmonary**

323. The effect of Palivizumab in the incidence rate of hospitalisation for Respiratory Syncytial Virus infection in high-risk preterm infants in Doha, Qatar: three-year retrospective.

*Mr. Ahmed Elmasoudi, Master of clinical pharmacy*<sup>1</sup>, *Prof. Tracy Robson, PhD*<sup>2</sup>, *Mrs. Hoda Badran, Master of clinical pharmacy*<sup>1</sup>, *Mr. Ahmed Khalil, Bachelor of Pharmaceutical science*<sup>1</sup>; (1)Pharmacy Department, Hamad General Hospital, Doha, Qatar; (2)School of Pharmacy, Queen's University Belfast, Belfast, England

## **RESIDENTS AND FELLOWS RESEARCH IN PROGRESS**

### **ADR/Drug Interactions**

324. Physicians Perception of ADR Reporting at a University hospital, Saudi Arabia.

*Mohamed Alarifi, PhD*; Clinical Pharmacy, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia

### **Ambulatory Care**

337. Transitional Care Pharmacy: Providing MTM Services to High-Risk Patients at a Critical Access Hospital to Improve Patient Outcomes.  
*Elizabeth Le, PharmD<sup>1</sup>*, Lisa Sandoval, PharmD, BCPS<sup>2</sup>; (1)College of Pharmacy, Oregon State University/Oregon Health & Science University, Portland, OR; (2)Department of Pharmacy, Providence Hood River Memorial Hospital, Hood River, OR

### **Drug Information**

362. Evaluation of knowledge of Health care professionals on warfarin interactions with drug and herb medicinal in Riyadh City.  
*Mohamed Alarifi, PhD*; Clinical Pharmacy, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia

### **Education/Training**

368. Integrating rapid diagnostic testing and antimicrobial stewardship into a 24-hour pharmacy resident on-call program.  
*Sarah J Tennant, PharmD<sup>1</sup>*, Donna R Burgess, RPh<sup>1</sup>, Dr. Julie Ribes, MD, PhD<sup>2</sup>, Craig A Martin, Pharm.D., BCPS<sup>3</sup>; (1)Pharmacy Services, UK HealthCare, Lexington, KY; (2)Department of Pathology and Laboratory Medicine, UK HealthCare, Lexington, KY; (3)Department of Pharmacy Practice and Science, University of Kentucky College of Pharmacy, Lexington, KY

### **Emergency Medicine**

372. Pharmacist delivered discharge medication counseling in the emergency department and effect on 30-day emergency department and hospital reutilization rates.  
*Joleen Bierlein, Pharm.D.*, Kelly Killius, Pharm.D., BCPS; Department of Pharmacy, Boston Medical Center, Boston, MA

373. Drug-induced hypoglycemic events resulting in emergency department visits.  
*Ayesha Ather, PharmD<sup>1</sup>*, Melissa Saul, MS<sup>2</sup>, Dr. Sandra Kane-Gill, PharmD, MSc, FCCM, FCCP<sup>3</sup>; (1)University of Pittsburgh Medical Center, Pittsburgh, PA; (2)Center for Pharmacoeconomics and Outcomes Research, University of Pittsburgh School of Pharmacy, Pittsburgh, PA; (3)Department of Pharmacy and Therapeutics, University of Pittsburgh School of Pharmacy, Pittsburgh, PA

374. Prospective evaluation of clinical cure rates for uncomplicated cystitis in the emergency department using oral cephalosporin.  
*Dr. Tsz Yee Tsui, PharmD<sup>1</sup>*, Dr. Christopher Edwards, PharmD<sup>1</sup>, Dr. Colgan Sloan, PharmD<sup>1</sup>, Dr. Daniel Jarrell, PharmD<sup>1</sup>, Dr. Alice Min, MD, FACEP<sup>2</sup>, Mr. Douglas Lee-Chan, PharmD Candidate<sup>3</sup>; (1)Emergency Department, Banner University Medical Center - Tucson, Tucson, AZ; (2)Department of Emergency Medicine, University of Arizona College of Medicine, Tucson, AZ; (3)College of Pharmacy, University of Arizona, Tucson, AZ

### **Family Medicine**

376. Naloxone counseling for harm reduction and patient engagement.  
*Dr. Lucas Hill, PharmD*; College of Pharmacy, University of Texas at Austin, Austin, TX

### **Geriatrics**

378. Retrospective medication use evaluation of high-risk medications in the elderly.  
*Dr. Alexis Gaggini, Pharm.D.<sup>1</sup>*, *Amy M. Drew, PharmD, BCPS<sup>2</sup>*, Carmen B. Smith, Pharm.D., BCPS<sup>3</sup>; (1)School of Pharmacy, Pharmacy Practice, St. Louis College of Pharmacy, St. Louis, MO; (2)Mercy Hospital St. Louis; (3)St. Louis College of Pharmacy, St. Louis, MO

### **Health Services Research**

380. Project Collaborate: a student-led community outreach program.  
*Dr. Jacqueline Argamany, Pharm.D.<sup>1</sup>*, Sarah McDaniel, Pharm.D. Candidate<sup>1</sup>, Kelly Reveles, Pharm.D., Ph.D.<sup>1</sup>, Prof. Sharon Rush, B.S. in Pharmacy<sup>2</sup>, Christopher Frei, Pharm.D., M.S.<sup>1</sup>; (1)College of Pharmacy, The University of Texas at Austin, San Antonio, TX; (2)College of Pharmacy, The University of Texas at Austin, Austin, TX

## HIV/AIDS

385. Maternal and infant outcomes in HIV positive mothers treated with integrase inhibitors compared to guideline recommended protease inhibitor regimens.

*Dr. Monique Mounce, PharmD<sup>1</sup>*, Dr. Jessica Adams, PharmD<sup>1</sup>, Dr. Laura Pontiggia, Ph.D<sup>2</sup>; (1)Philadelphia College of Pharmacy, University of the Sciences, Philadelphia, PA; (2)University of the Sciences, Philadelphia, PA

386. Dietary supplement and HIV medication interactions: A systematic review.

*Mohamed Jalloh, Pharm.D.<sup>1</sup>*, Darren Hein, Pharm.D.<sup>2</sup>; (1)Center for Drug Information and Evidence Based Practice, Creighton University, Omaha, NE; (2)School of Pharmacy and Health Professions, Creighton University, Omaha, NE

387. The Impact of a Clinical Pharmacist on HIV Treatment Adherence and Outcomes in a Veterans Affairs Specialty Clinic.

*Autumn D. Bagwell, PharmD, BCPS<sup>1</sup>*, Todd Hulgán, MD, MPH<sup>2</sup>, Marguerite Callahan, NP<sup>3</sup>, Paula Newberry, PharmD, BCPS, CGP, AAHIVP<sup>3</sup>, M Shawn McFarland, PharmD, BCPS, BC-ADM<sup>1</sup>; (1)Veterans Affairs Tennessee Valley Healthcare System, Nashville, TN; (2)Department of Medicine, Division of Infectious Disease, Vanderbilt University School of Medicine, Nashville, TN; (3)Tennessee Valley Healthcare System Veterans Administration, Nashville, TN

## Infectious Diseases

388. Evaluating Use of MALDI-TOF For Blood Culture Isolate Identification In A Four Hospital System.

*Dr. Adrienne Kercsak, PharmD*, Eva Sullivan, Pharm.D., Dr. Harminder Sikand, Pharm.D.; Department of Pharmacy, Scripps Mercy Hospital, San Diego, CA

389. Implementation and Outcomes of Fecal Microbiota Transplantation in a Four Hospital System.

*Dr. Adrienne Kercsak, PharmD*, Eva Sullivan, Pharm.D., Dr. Harminder Sikand, Pharm.D.; Department of Pharmacy, Scripps Mercy Hospital, San Diego, CA

390. Topical vancomycin for prophylaxis of surgical site infections in patients undergoing multi-level spinal fusion surgery.

*Marian Gaviola, PharmD<sup>1</sup>*, Wesley McMillian, PharmD<sup>1</sup>, Jeffrey Endicott, PharmD<sup>1</sup>, Elizabeth Ames, MD<sup>2</sup>, W Kemper Alston, MD, MPH<sup>3</sup>; (1)Department of Pharmacy, UVM Medical Center, Burlington, VT; (2)Department of Orthopedics and Rehabilitation, UVM Medical Center, Burlington, VT; (3)Department of Medicine, Infections Disease Unit, UVM Medical Center, Burlington, VT

391. Development of a Combination AntibioGram for Pseudomonas aeruginosa Infections.

*Bayan Alnamnakani, Pharm.D Candidate<sup>1</sup>*, John A. Bosso, PharmD<sup>2</sup>; (1)South Carolina College of Pharmacy; (2)Clinical Pharmacy and Outcome Sciences, SCCP, Medical University of South Carolina Campus, Charleston, SC

394. Timeliness of Targeted Antifungal Therapy in Candidemia after Implementation of PNA FISH Testing.

*Dr. Keaton Smetana, Doctor of Pharmacy*; University of Kentucky HealthCare, Lexington, KY

395. Characterization of Clostridium difficile infection treatment during the use of concomitant antibiotics.

*Ryan D'Angelo, PharmD<sup>1</sup>*, Jeffrey Gonzales, PharmD, BCPS, FCCM<sup>1</sup>, Asha Tata, PharmD, BCPS<sup>2</sup>, Emily Heil, PharmD, BCPS AQ-ID AAHIVP<sup>2</sup>; (1)University of Maryland School of Pharmacy, Baltimore, MD; (2)University of Maryland Medical Center, Baltimore, MD

396. Identifying factors impacting recurrent Clostridium difficile infection and development of a risk evaluation tool.

*Dr. Bethanne Carpenter, Pharm.D.<sup>1</sup>*, Erin K. Hennessey, Pharm.D., BCPS<sup>1</sup>, Alex M. Bryant, PharmD<sup>2</sup>, Jad Khoury, M.D.<sup>2</sup>, Andrew Crannage, Pharm.D., BCPS<sup>1</sup>; (1)St. Louis College of Pharmacy, St. Louis, MO; (2)Mercy Hospital St. Louis, St. Louis, MO

397. Molecular Mechanisms of Azole Resistance (AR) in Clinical Isolates of Candida tropicalis (Ct).

*Jeffrey Rybak, Pharm.D.<sup>1</sup>*, Kayihura Manigaba, BS<sup>2</sup>, Elizabeth Berkow, MS<sup>2</sup>, Josie Parker, PhD<sup>3</sup>, Steven Kelly, DSc<sup>3</sup>, P. David Rogers, Pharm.D., Ph.D.<sup>2</sup>; (1)Department of Clinical Pharmacy, University of Tennessee, Memphis, TN; (2)University of Tennessee College of Pharmacy, Memphis, TN; (3)College Of Medicine, Swansea University, United Kingdom

399. Evaluation of real-world use of fosfomycin for urinary tract infections.

*Megan Patch, M.S., Pharm.D.*<sup>1</sup>, Sonal Patel, Pharm.D.<sup>2</sup>, Chris Bland, Pharm.D., BCPS<sup>3</sup>, Sandy Estrada, Pharm.D., BCPS, AQ-ID<sup>4</sup>; (1)Pharmacy, Lee Memorial Health System, Fort Myers, FL; (2)Pharmacy, Georgia Regents Medical Center, Augusta, GA; (3)Clinical and Administrative Pharmacy, University of Georgia College of Pharmacy, Savannah, GA; (4)Lee Memorial Health System, Fort Myers & Cape Coral, FL

### **Medication Safety**

401. Nephrotoxic medication use in the community-acquired acute kidney injury (CA-AKI), elderly population.

*Dr. Cory Weaver, Pharm.D.*<sup>1</sup>, Melissa Saul, MS<sup>2</sup>, Dr. Sandra Kane-Gill, PharmD, MSc, FCCM, FCCP<sup>3</sup>; (1)Department of Pharmacy and Therapeutics, UPMC Presbyterian Shadyside, Pittsburgh, PA; (2)Center for Pharmacoeconomics and Outcomes Research, University of Pittsburgh School of Pharmacy, Pittsburgh, PA; (3)Department of Pharmacy and Therapeutics, University of Pittsburgh School of Pharmacy, Pittsburgh, PA

### **Nephrology**

402. Evaluation of Antihypertensive Use in ESRD Patients with Intradialytic Hypotension in the Inpatient Setting.

*Andrew Nishimoto, Pharm.D.*<sup>1</sup>, Benjamin T. Duhart Jr., M.S., Pharm.D.<sup>2</sup>, David Shoop, Pharm.D.<sup>3</sup>, Robert Canada, M.D.<sup>4</sup>, Joanna Q. Hudson, Pharm.D., BCPS, FASN, FCCP, FNKF<sup>2</sup>; (1)Pharmacy Department, University of Tennessee Health Science Center / Methodist University Hospital, Memphis, TN; (2)Department of Clinical Pharmacy, The University of Tennessee College of Pharmacy, Memphis, TN; (3)Pharmacy Department, University of Tennessee / Methodist Le Bonheur Germantown Hospital, Germantown, TN; (4)College of Medicine, University of Tennessee, Memphis, TN

403. Mortality in patients with chronic kidney disease using sevelamer or calcium-containing phosphate binders: a systematic review and meta-analysis.

Marisa Schauerhamer, PharmD<sup>1</sup>, Rishi Deka, M.S.<sup>1</sup>, Lara Senekjian, MD<sup>2</sup>, Austin Reese, PharmD Candidate<sup>1</sup>, *Jordan King, PharmD*<sup>1</sup>; (1)Department of Pharmacotherapy, University of Utah, Salt Lake City, UT; (2)School of Medicine, University of Utah, Salt Lake City, UT

### **Oncology**

406. Iron deficiency anemia evaluation in a hematology-oncology population at a large academic medical center.

*Ms. Tracy Harlan, PharmD*, Mrs. Jill Stein, PharmD, BCOP, Mrs. Susan Fajardo, PharmD, Mrs. Deanna McDanel, PharmD, BCPS, BCACP, Mrs. Susan Sorenson, RPh, BCOP; Department of Pharmaceutical Care, University of Iowa Hospitals and Clinics, Iowa City, IA

### **Other**

407. Implementation of a computerized prescriber order entry system in a community hospital from a pharmacy perspective.

*Dr. Anand Patel, Pharm.D.*<sup>1</sup>, Dr. Navin Philips, Pharm.D., BS<sup>2</sup>, Dr. Ashmi Philips, Pharm.D., AAHIVP<sup>3</sup>, Dr. Mini Varghese, Pharm.D., BCPS<sup>1</sup>; (1)Department of Pharmaceutical Services, Hunterdon Medical Center, Flemington, NJ; (2)Hunterdon Medical Center, Flemington, NJ; (3)Department of Pharmacy Practice and Administration, Rutgers, The State University of New Jersey, Piscataway, NJ

408. Towards a Philosophy of Risk.

*Maresca Attard Pizzuto, B.Pharm (Hons), M.Sc (Clinical Pharmacy)*<sup>1</sup>, Prof. Claude Mangion, B.A (Hons), M.A (Sussex), Ph.D<sup>2</sup>, Prof. Anthony Serracino-Inglott, BPharm, PharmD (Cinc.), MACCP, MRPharmS<sup>1</sup>, Prof. Lilian M. Azzopardi, B.Pharm (Hons), MPhil, Ph.D, MRPharmS<sup>1</sup>; (1)Department of Pharmacy, Faculty of Medicine and Surgery, University of Malta, Msida, Malta; (2)Department of Philosophy, Faculty of Arts, University of Malta, Msida, Malta

### **Pediatrics**

413. Efficacy and Safety of Antiretroviral Therapies in Children with Perinatally Transmitted HIV.

*Dr. Titilola Afolabi, PharmD, BCPS*<sup>1</sup>, Dr. Katalin Koranyi, MD<sup>2</sup>, Dr. Milap C. Nahata, MS, PharmD, FCCP<sup>1</sup>; (1)Ohio State University College of Pharmacy, Columbus, OH; (2)Nationwide Children's Hospital, Columbus, OH

414. Efficacy and Safety of Antiretroviral Therapies in Adolescents and Young Adults Infected with HIV.  
*Dr. Titilola Afolabi, PharmD, BCPS<sup>1</sup>, Dr. Katalin Koranyi, MD<sup>2</sup>, Dr. Milap C. Nahata, MS, PharmD, FCCP<sup>1</sup>; (1)Ohio State University College of Pharmacy, Columbus, OH; (2)Nationwide Children's Hospital, Columbus, OH*

415. Effects of N-Acetylcysteine on Cysteine Protein Binding in Boys with Cerebral Adrenoleukodystrophy.  
*Ms. Mary Walters, Bachelor of Arts: Chemistry, PharmD Candidate<sup>1</sup>, Lisa Coles, Ph.D<sup>2</sup>, Usha Mishra, M.S.<sup>2</sup>, Paul Orchard, M.D.<sup>3</sup>, James Cloyd, Pharm.D.<sup>4</sup>; (1)College of Pharmacy, Department of Experimental and Clinical Pharmacology, University of Minnesota, Minneapolis, MN; (2)Center for Orphan Drug Research, Department of Experimental and Clinical Pharmacology, University of Minnesota College of Pharmacy, Minneapolis, MN; (3)Division of Pediatric Hematology-Oncology, Blood and Bone Marrow Transplant, Department of Pediatrics, University of Minnesota, Minneapolis, MN; (4)Center for Orphan Drug Research, Department of Experimental and Clinical Pharmacology, University of Minnesota College of Pharmacy, Minneapolis, NE*

### **Pharmacoeconomics/Outcomes**

416. Health economic outcomes evaluation of liposomal bupivacaine use for orthopedic procedures.  
*Dr. Yin Wong, PharmD, Dr. Heather Weese, PharmD, BCPS, Dr. Trent Beach, PharmD, MBA, MHA, BCPS, FASHP, FACHE, Beverly Bowman, RN, MNSc, Kimberly Wellborn, PT, MBA, Dr. Robert Fink, PharmD, MBA, FACHE, FASHP, BCNSP, BCPS; Department of Clinical Services, Community Health Systems, Franklin, TN*

### **Pharmacogenomics/Pharmacogenetics**

418. Comparison between a point-of-care and a laboratory-based CYP2C19 genotyping assay for pharmacist-led personalisation of antiplatelet therapy.

*Ms. Francesca Wirth, BPharm (Hons.), MPhil<sup>1</sup>, Dr. Graziella Zahra, DMedSc<sup>2</sup>, Dr. Robert G. Xuereb, MD, FRCP, FASA, FESC, FACC<sup>3</sup>, Dr. Christopher Barbara, MD, MSc (Lond), DLSHTM<sup>2</sup>, Prof. Albert Fenech, MD, MD (Aberd.), FRCP (Glas.), FRCP (Lond.)<sup>3</sup>, Prof. Lilian M. Azzopardi, B.Pharm (Hons), MPhil, Ph.D, MRPharmS<sup>1</sup>; (1)Department of Pharmacy, Faculty of Medicine and Surgery, University of Malta, Msida, Malta; (2)Molecular Diagnostics Unit, Department of Pathology, Mater Dei Hospital, Msida, Malta; (3)Cardiac Catheterisation Suite, Department of Cardiology, Mater Dei Hospital, Msida, Malta*

### **Pharmacokinetics/Pharmacodynamics/Drug Metabolism/Drug Delivery**

420. Physiologically Based Pharmacokinetic Modeling Approach to Estimate Changes in Renal Organic Anion Transporters based Secretion in Transplanted Kidneys.

*Dr. Hari Varun Kalluri, PharmD, Dr. Raman Venkataramanan, PhD; Department of Pharmaceutical Sciences, School of Pharmacy, University of Pittsburgh, Pittsburgh, PA*

### **Psychiatry**

421. Pharmacist intervention in patient monitoring in a psychiatric setting.

*Ms. Maria Mamo, B.Pharm(hons.), M.Pharm, M.Sc. Student<sup>1</sup>, Prof. Lilian M. Azzopardi, B.Pharm (Hons), MPhil, Ph.D, MRPharmS<sup>2</sup>, Prof. Anthony Serracino-Inglott, BPharm, PharmD (Cinc.), MACCP, MRPharmS<sup>2</sup>; (1)Department of Pharmacy, University of Malta, Msida, Malta; (2)Department of Pharmacy, Faculty of Medicine and Surgery, University of Malta, Msida, Malta*

### **Substance Abuse/Toxicology**

425. Fixed-schedule versus symptom-triggered benzodiazepine administration in alcohol withdrawal syndrome using CIWA.

*Dr. Audrey Littlefield, PharmD, Dr. Kenneth Lupi Jr., PharmD, Dr. Mojdeh Heavner, PharmD, Dr. Martha Stutsky, PharmD; Department of Pharmacy Services, Yale-New Haven Hospital, New Haven, CT*

### **Transplant/Immunology**

426. Safety and Efficacy of Direct Oral Anticoagulation Agents in Heart and Lung Transplant Recipients.

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427. A clinically significant drug interaction between clotrimazole and tacrolimus in pancreas transplant recipients and its associated risk of allograft rejection.

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428. A cross-sectional study of measles, mumps, and rubella antibody concentrations post-vaccination among lung transplant patients compared to healthy individuals.

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429. Association of Fc gamma receptor genetic polymorphisms with donor specific antibodies in kidney allograft recipients.

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430. Incidence of BK viremia in sequential transplant recipients.

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431. Association of macrophage migration inhibitory factor genetic polymorphisms with donor specific antibodies in kidney allograft recipients.

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