



**UNIVERSITY of HOUSTON**  
PHARMACEUTICAL HEALTH OUTCOMES AND POLICY



Student and Faculty Presentations at ISPOR 2021  
May 17-20, 2021 • Virtual Meeting

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## **Antimuscarinic Cascade across Individual Cholinesterase Inhibitors in Older Adults with Dementia**

Masurkar P, Chatterjee S, Sherer JT, Aparasu RR  
College of Pharmacy, University of Houston, Houston, TX, USA

## **Persistence to Warfarin Among Patients with Atrial Fibrillation and Comorbid Hypertension, Diabetes and Hyperlipidemia**

Mohan A<sup>1</sup>, Majd Z<sup>1</sup>, Paranjpe R<sup>2</sup>, Vadhariya A<sup>3</sup>, Serna O<sup>4</sup>, Abughosh SM<sup>1</sup>  
<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>Boston Scientific, Boston, MA, USA,  
<sup>3</sup>Eli Lilly and Company, Pittsburg, PA, USA, <sup>4</sup>CareAllies, Houston, TX, USA

## **Association between Substance Use Disorder and Mental Health Service Utilization Among Adults with Major Depressive Disorder Using the National Survey on Drug Use and Health**

Li J, University of Houston, Houston, TX, USA

## **Using Group-Based Trajectory Modeling (GBTM) to Characterize the Association of Past ACEI/ARBS Adherence Trajectories with Subsequent Statin Adherence Trajectories Among New Statin Users**

Majd Z<sup>1</sup>, Mohan A<sup>1</sup>, Serna O<sup>2</sup>, Abughosh S<sup>1</sup>  
<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>CareAllies, Houston, TX, USA

## **Impact of PCP Screening on Early Detection of Pediatric Mental Disorder**

Lyu N, Chen H  
College of Pharmacy, University of Houston, Houston, TX, USA

## **To Evaluate the Medication Persistence of Direct Oral Anticoagulants Among Patients with Atrial Fibrillation, Hypertension, Diabetes and Hyperlipidemia**

Mohan A<sup>1</sup>, Majd Z<sup>1</sup>, Paranjpe R<sup>2</sup>, Vadhariya A<sup>3</sup>, Serna O<sup>4</sup>, Abughosh SM<sup>1</sup>  
<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>Boston Scientific, Boston, MA, USA,  
<sup>3</sup>Eli Lilly and Company, Pittsburg, PA, USA, <sup>4</sup>CareAllies, Houston, TX, USA

## **Predicting Readmissions for Elective Hip and Knee Arthroplasty in Adults using Machine Learning Algorithms**

Talwar A<sup>1</sup>, Huang Y<sup>1</sup>, Lin Y<sup>2</sup>, Masurkar P<sup>1</sup>, Aparasu RR<sup>1</sup>  
<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>Cullen College of Engineering, University of Houston, Houston, TX USA

## **Comparative Performance of Logistic Regression and Machine Learning Algorithms for Hospital Readmissions – A Systematic Review and Meta-Analysis**

Talwar A<sup>1</sup>, Huang Y<sup>1</sup>, Lopez-Olivo MA<sup>2</sup>, Aparasu RR<sup>1</sup>  
<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>University of Texas M.D. Anderson Cancer Center, Houston, TX, USA

## **Emotional Well-Being Among Pharmacy Students during the COVID Pandemic**

Zakeri M, De La Cruz A, Wallace D, Sadeghi SD, Sansgiry SS  
College of Pharmacy, University of Houston, Houston, TX, USA

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## **Dose-Dependent Relation between Metformin and the Risk of Hormone Receptor-Positive, HER2-Negative (HR+/HER2-) Breast Cancer Among Postmenopausal Women with Type-2 Diabetes**

Chikermane S<sup>1</sup>, Trivedi MV<sup>1</sup>, Sharma M<sup>2</sup>, Abughosh SM<sup>1</sup>, Aparasu RR<sup>1</sup>, Johnson ML<sup>1</sup>

<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>The University of Mississippi, University, MS, USA

## **Factors Associated with Prescribing of Disease-Modifying Agents Among Older Adults with Multiple Sclerosis – A Real-World Analysis of Electronic Medical Records**

Talwar A<sup>1</sup>, Earla J<sup>2</sup>, Hutton GJ<sup>3</sup>, Aparasu RR<sup>1</sup>

<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>Incyte Corporation, Chadds Ford, PA, USA, <sup>3</sup>Baylor College of Medicine Medical Center, McNair Campus, Houston, TX, USA

## **Antimuscarinic Prescribing Cascade with Acetylcholinesterase Inhibitor Use Among a National Cohort of Older Adults with Alzheimer's Disease**

Rege S<sup>1</sup>, Holmes HM<sup>2</sup>, Aparasu RR<sup>3</sup>

<sup>1</sup>Pharmerit International – An Open Health Company, Bethesda, MD, USA, <sup>2</sup>University of Texas Health Science Center, Houston, TX, USA, <sup>3</sup>College of Pharmacy, University of Houston, Houston, TX, USA

## **Inclusion of Background Variables of the Theory of Planned Behavior to Predict Provider Intention to Prescribe Buprenorphine**

Bapat S<sup>1</sup>, Fleming M<sup>2</sup>, Abughosh S<sup>1</sup>, Essien EJ<sup>1</sup>, Washburn M<sup>3</sup>, Thornton JD<sup>1</sup>

<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>University of North Texas Health Science Center, Fort Worth, TX, USA, <sup>3</sup>The University of Texas at Arlington School of Social Work, Arlington, TX, USA

## **Polypharmacy Among COVID-19 Patients – A Prisma-Based Systematic Review of Available Literature**

Iloanusi S, Mgbere O, Essien EJ

College of Pharmacy, University of Houston, Houston, TX, USA

## **COVID-19 Related Knowledge, Attitude and Practices in a Southeastern City in Nigeria – A Cross-Sectional Survey**

Iloanusi NJR<sup>1</sup>, Iloanusi S<sup>2</sup>, Mgbere O<sup>2</sup>, Ajayi AI<sup>3</sup>, Essien EJ<sup>2</sup>

<sup>1</sup>General Hospital, Onitsha, Anambra State, Nigeria, Onitsha, Anambra State, TX, Nigeria, <sup>2</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>3</sup>Population Dynamics and Sexual and Reproductive Health and Rights Unit, African Population and Health Research Center, APHRC Campus, Manga Close, Nairobi, Kenya

## **Machine Learning Methods to Predict 30-Day Readmission Among US Adult with Pneumonia – Analysis of the Nationwide Readmissions Database**

Huang Y<sup>1</sup>, Talwar A<sup>1</sup>, Lin Y<sup>2</sup>, Masurkar P<sup>1</sup>, Aparasu RR<sup>1</sup>

<sup>1</sup>College of Pharmacy, University of Houston, Houston, TX, USA, <sup>2</sup>Cullen College of Engineering, University of Houston, Houston, TX, USA

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## **Ph.D. in Pharmaceutical Health Outcomes and Policy**

*Real-Time Curriculum, Real-Life Experiences, Real-World Evidence*

**Rajender R. Aparasu, Ph.D., FAPhA,**  
Professor & Department Chair

**Michael L. Johnson, Ph.D.**  
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