Department of Pharmaceutical Health Outcomes and Policy

College of Pharmacy

Student & Faculty Presentations at ISPOR 2023
May 7-10, 2023 • Boston, MA

Monday, May 8

Podium Session: 154 Machine Learning in Outcomes Research

Interpretable Machine Learning Prediction of Treatment Switching Among Patients with Multiple Sclerosis: An Electronic Medical Records Analysis
Li J[1], Lin Y[2], Huang Y[1], **Aparasu RR[1]**
[1]University of Houston, College of Pharmacy, Houston, TX, USA, [2]University of Houston, Cullen College of Engineering, Houston, TX, USA

Session I Posters

Group-Based Trajectory Modeling to Evaluate Adherence Patterns for Direct Oral Anticoagulant Among Patients with Atrial Fibrillation
Fatima B[1], Mohan A[1], **Chen H[1]**, Deshmukh AA[2], Wanat MA[3], **Essien EJ[1]**, Paranjpe R[1], **Abughosh SM[1]**
[1]University of Houston, College of Pharmacy, Texas, USA, [2]Department of Public Health Sciences, Medical University of South Carolina, South Carolina, USA, [3]Department of Pharmacy Practice and Translational Research, University of Houston, Texas, USA

Why the Increase? Drilling Down on Increases in Prescribed Medication Expenditures in the United States between 2011 and 2020: Findings from the Medical Expenditures Panel Survey
Chi W[1], Song J[2], **Yazdanfard S[1]**, **Daggolu J[1]**, **Varisco T[1]**
[1]University of Houston, College of Pharmacy, Houston, TX, USA, [2]University of Houston, Hobby School of Public Affairs, Houston, TX, USA

Hepatitis B Immunization Rate from 2013 to 2020 among High-Risk U.S Adults
Khalid J[1], Huang Y[2], **Aparasu RR[1]**
[1]University of Houston, College of Pharmacy, Houston, TX, USA, [2]Pharmacy Administration, College of Pharmacy, University of Mississippi, Oxford, MS, USA

Session II Posters

Application of Self-Protective Behaviors in Balancing Objective and Subjective COVID-19 Risk Assessments Among Residents in an Urban Setting
Mgbere O[1], Iloanusi S[1], Yunusa I[2], Iloanusi N[3], **Gohil S[1]**, **Essien EJ[1]**
University of Houston, College of Pharmacy, Houston, TX, USA, [2]University of South Carolina, Columbia, South Carolina, USA, [3]General Hospital, Onitsha, Anambra State, Nigeria

Marginal Healthcare Expenditure Burden Among U.S. Civilian Noninstitutionalized Individuals with Chronic Kidney Disease: 2011-2020
Bhatt P[1,2], **Thornton JD[1,2]**
[1]Prescription Drug Misuse Education and Research Center, College of Pharmacy, University of Houston, Houston, Texas, USA, [2]Department of Pharmaceutical Health Outcomes and Policy, College of Pharmacy, University of Houston, Houston, Texas, USA

Marginal Health Care Expenditure of Patients with Viral Hepatitis in U.S: Analysis of Medical Expenditure Panel Survey (2011-2020)
Khalid J[1], Huang Y[2], **Aparasu RR[1]**
[1]University of Houston, College of Pharmacy, Houston, TX, USA, [2]Pharmacy Administration, College of Pharmacy, University of Mississippi, Oxford, MS, USA

Tuesday, May 9

Session III Posters

Racial Disparity in Total Annual Healthcare Expenditure for Cervical Cancer Patients: A 6 years (2014-2019) US National Study
Daggolu J, **Zakeri M**, **Sansgiry SS**
University of Houston, College of Pharmacy, Houston, TX, USA

Group-Based Trajectory Modeling to Identify Patterns of Antipsychotic-Induced Weight Gain Among Children and Adolescents
Lyu N[1], **Abughosh SM[1]**, **Varisco TJ[1]**, Lin Y[2], Rowan PJ[3], **Chen H[1]**
[1]University of Houston, College of Pharmacy, Houston, TX, USA, [2]University of Houston, Cullen College of Engineering, Houston, TX, USA, [3]The University of Texas at Houston, School of Public Health, Houston, TX, USA

Risk of Dementia Associated with Hormone Modulating Breast Cancer Therapies Use in Older Women: A Nested Case-Control Study
Li J, Chikermane SG, **Johnson ML**, **Aparasu RR**
University of Houston, College of Pharmacy, Houston, TX, USA

Session IV Posters

Adherence to Direct Oral Anticoagulants and Incidence of Stroke/Acute Coronary Syndrome/Systemic Embolism Among Patients with Atrial Fibrillation Using a Marginal Structural Model
Mohan A[1], **Chen H[1]**, Wanat M[1], Deshmukh AA[2], **Essien EJ[1]**, Paranjpe R[1], **Majd Z[1]**, **Abughosh SM[1]**
[1]College of Pharmacy, University of Houston, Houston, TX, USA, [2]Medical University of South Carolina, Charleston, SC, USA

Longitudinal Patterns of Adherence for Oral Endocrine Therapy Among US Women with Breast Cancer: A Group-Based Trajectory Modeling Study
Majd Z, Patel Y, Alsaedi H, Altaie I, Rahimi S, Trivedi M, **Abughosh SM**
College of Pharmacy, University of Houston, Houston, TX, USA

Use and prescribing patterns of disease modifying agents in patients with multiple sclerosis based on payer type and prescribers' specialty
Okeke C, **Cheruvu SS**, **Sansgiry SS**
University of Houston, College of Pharmacy, Houston, TX, USA

Marginal Health Care Expenditures Burden for Breast Cancer Patients: A Medical Expenditure Panel Survey Study
Fatima B, **Huang Y**, **Li J**, **Abughosh SM**, **Aparasu RR**
University of Houston, College of Pharmacy, Houston, TX, USA

Healthcare Expenditure Burden of Melanoma in the Era of Immune Checkpoint Inhibitors
Olateju OA[1, 2], **Li J[1]**, **Thornton JD[1, 2]**, **Aparasu RR[1]**
[1]Department of Pharmaceutical Health Outcomes and Policy, University of Houston, College of Pharmacy, Houston, TX, USA, [2]The Prescription Drug Misuse Education and Research (PREMIER) Center, University of Houston, College of Pharmacy, Houston, TX, USA

Impact of Cancer Diagnosis on Non-Cancer Chronic Disease Medication Adherence – A Systematic Literature Review
Gohil S[1], **Johnson ML[1]**, Goyal R[2]
[1]University of Houston, College of Pharmacy, Houston, TX, USA, [2]RTI Health Solutions, Research Triangle Park, NC, USA

Assessment of Burden of COVID-19 Infection and the Dynamics in African Union Member States
Mgbere O[1,2], Nwabuko OC[3], **Olateju OA[1]**, Adepoju O[1], Liaw W[1], Darkoh C[4], **Essien EJ[1]**
[1]University of Houston, Houston, Texas, USA, [2]Houston Health Department, Houston, Texas, USA, [3]University of Calabar, Calabar, Nigeria, [4]University of Texas Health Science Center, Houston, Texas, USA

Wednesday, May 10

Session V Posters

Health Care Expenditures for Substance Use Disorders: A Comparative National Study
Zeng Z, **Talwar A**, **Aparasu RR**
University of Houston, College of Pharmacy, Houston, TX, USA

Cumulative Anticholinergic Burden and Its Predictors Among Older Adults with Alzheimer's Disease Initiating Cholinesterase Inhibitors
Talwar A[1], Sherer J[1], **Abughosh SM[1]**, **Johnson ML[1]**, Chatterjee S[2], **Aparasu RR[1]**
[1]University of Houston, College of Pharmacy, Houston, TX, USA, [2]Boehringer Ingelheim, CT, USA

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