

# Houston Medication Safety Symposium

*High Risk Medications and  
Prescription Abuse*



**FRIDAY, APRIL 28, 2017**

**The Denton A. Cooley, MD &  
Ralph C. Cooley, DDS University Life Center  
Houston, TX**

# WELCOME

## *Welcome to the Houston Medication Safety Symposium!*

We are excited to launch an annual symposium to highlight current challenges in providing safe and effective medication therapy. The Houston Medication Safety Symposium will be the first of many to highlight challenges encountered in optimizing medication use, challenges that continue to increase as the population ages and are exposed to polypharmacy, and as we develop a fuller understanding of the risks and benefits of medication therapy. We have chosen to highlight two critical areas in drug therapy in this symposium: high risk medication use and the opioid epidemic.

We hope that this event will provide information on the latest research and challenges in medication therapy for older patients, with a focus on potentially inappropriate medications and medication adherence. At the same time, the opioid epidemic presents an enormous challenge to clinicians, patients, family members, policy makers, and to society at large.

Thank you for joining us. We hope that the presentations stimulate your thinking, change your clinical practice, and influence your research. We hope to generate conversations about medication safety that continue long after the symposium. We look forward to your feedback and we hope to see you again next year!

With warmest regards,



**Holly Holmes, MD, MS, AGSF**  
Associate Professor and Division Director  
Geriatric and Palliative Medicine  
UTHealth McGovern Medical School



**Rajender R. Aparasu, PhD, FAPhA**  
Professor and Chair  
Department of Pharmaceutical Health Outcomes and Policy  
University of Houston College of Pharmacy

# SCHEDULE

8:30-9:00 am	Breakfast and Registration
9:00-9:15 am	Greetings and Introductions Barbara J Stoll, MD H. Wayne Hightower Distinguished Professor & Dean McGovern Medical School at the University of Texas Health Science Center F. Lamar Pritchard, PhD, RPh Professor & Dean, University of Houston College of Pharmacy
9:15-10:45 am	Morning Plenary Session: Medication Safety in Older Adults Host: Holly Holmes, MD, MS, AGSF <i>Is this medication inappropriate for older adults? Criteria, challenges, and conundrums</i> Michael Steinman, MD, University of California-San Francisco <i>Improving Medication Adherence in Older Adults: Keep Your Eyes on the Prize</i> Zachary Marcum, PharmD, PhD, University of Washington
10:45-11:00 am	Break
11:00 am-12:00 pm	Podium Research Presentations Moderators: Michael Johnson, PhD, University of Houston College of Pharmacy Hemalkumar Mehta, PhD, University of Texas Medical Branch at Galveston
12:00-1:30 pm	Lunch, Roundtable Discussions, Poster Viewing
1:30-3:00 pm	Afternoon Plenary Session: Opioid Epidemic in the U.S. Host: Marc L. Fleming, PhD, MPH, RPh <i>The Opioid Epidemic in the United States and the CDC Response</i> Grant Baldwin, PhD, MPH, U.S. Centers for Disease Control and Prevention <i>Opioid Safety in Pain Management in the Context of the Opioid Epidemic</i> Steven Passik, PhD, Endo Pharmaceuticals
3:00-3:30 pm	Closing Remarks and Awards

# SPEAKERS



## Michael Steinman, MD

*Is this medication inappropriate for older adults?  
Criteria, challenges, and conundrums*

Dr. Steinman is a Professor of Medicine in the UCSF Division of Geriatrics and a national leader in identifying and improving the quality of medication prescribing in clinically complex older adults. He devotes most of his time to research, while also maintaining an active clinical practice in the geriatrics clinic and inpatient general medicine service at the San Francisco VA Medical Center. Dr. Steinman's research program focuses on improving how doctors prescribe medications for older adults, and is supported by grants from the National Institutes of Health and other funders. His research interests also include pharmaceutical industry marketing and the impacts of marketing on physicians and trainees. Dr. Steinman is Co-Director for Research, Director of Research Training, and T32 research fellowship director for the UCSF Division of Geriatrics, and is leader of the Data, Measures, and Accrual Core for the UCSF Pepper Center for Aging Research. He also has leadership roles with several national organizations, including service as co-chair of the American Geriatrics Society Beers Criteria guideline panel.



## Zachary Marcum, PharmD, PhD

*Improving Medication Adherence in Older  
Adults: Keep Your Eyes on the Prize*

Dr. Marcum is an Assistant Professor at the University of Washington, School of Pharmacy and serves as Assistant Director for Research at the Plein Center for Geriatric Pharmacy Research, Education, and Outreach. In his research, he uses geriatric pharmacoepidemiology and health services research methods, with the overall goal of improving the safe use of medications in older adults in order to improve health outcomes. He is a clinical investigator on federally funded research grants, including an AHRQ Patient-Centered Outcomes Research K12 program. Previously, he completed a two-year fellowship in geriatric pharmacotherapy research at the University of Pittsburgh and a PGY1 pharmacy practice residency at the Indianapolis VA Medical Center, and he received his PhD in Clinical & Translational Science from the University of Pittsburgh, School of Medicine.



## Grant Baldwin, PhD, MPH

*The Opioid Epidemic in the United States and the CDC Response*

Dr. Grant Baldwin is the Director of the Division of Unintentional Injury Prevention at the National Center for Injury Prevention and Control in the Centers for Disease Control and Prevention. He has served in this capacity since 2008. Dr. Baldwin has helped raise the profile of motor vehicle injury prevention and scaled up CDC's response to the prescription drug overdose epidemic.

He has also advanced the work in older adult fall prevention and CDC's efforts traumatic brain injury prevention. He has been at CDC for over 20 years. Dr. Baldwin received his PhD in Health Behavior and Health Education at the University of Michigan. He received a MPH in Behavioral Sciences and Health Education from Emory University, and is currently an affiliated professor at Emory University. Dr. Baldwin has given keynote addresses or provided remarks at over 60 state, national and international conferences and meetings, has authored or coauthored more than 40 peer-reviewed publications, and has received awards of excellence for his leadership and teaching.



## Steven D. Passik, PhD

*Opioid Safety in Pain Management in the Context of the Opioid Epidemic*

After a 25 year academic and clinical career at Memorial Sloan Kettering Cancer Center, University of Kentucky and Vanderbilt University, Dr. Passik spent the past 4 years in the toxicology and most recently the pharmaceutical industry. His research has focused on psychiatric aspects of cancer and non-cancer pain and symptom

management and the interface of pain management and addiction. He has served as editor and reviewer for multiple journals in pain and psycho-oncology. He has authored over 200 scholarly publications.

## ***Podium Presentations***

### ***1. Fentanyl Related Mortalities, Houston, 2004-2015***

Eunice R Santos, MPH<sup>1</sup>, Jeffrey Meyer, MD, MPH<sup>1</sup>, Biru Yang, PhD, MPH<sup>1</sup>, Wesly McNeely, MPH, Osaro Mgbere, PhD<sup>1</sup>

<sup>1</sup>Houston Health Department, Houston, TX

### ***2. Predictors of Long Term Opioid Use following Lumbar Fusion Surgery***

Zulqarnain Javed, MBBS, MPH<sup>1</sup>, Joseph Connolly III, DO, MPH<sup>1,2</sup>, Jacques Baillargeon, PhD<sup>1</sup>, Winston Chan, MPH<sup>1</sup>, Mukaila A Raji, MD, MS<sup>1</sup>, Yong-Fang Kuo, PhD<sup>1</sup>

<sup>1</sup>The University of Texas Medical Branch, Galveston, TX, 29th Aeromedical Squadron, Beale AFB, CA (Connolly), U.S. Air Force School of Aerospace Medicine, Wright-Patterson AFB, OH

### ***3. The Association between Payments Made by the Pharmaceutical Industry and Prescriptions for Drugs of Uncertain Medical Benefits to Medicare Part D Beneficiaries***

Manvi Sharma, MS<sup>1</sup>, Aisha Vadhariya, BSPHarm<sup>1</sup>, Michael L Johnson, PhD<sup>1</sup>, Zachary A Marcum, PharmD, PhD<sup>2</sup>, Holly M Holmes, MD, MS<sup>3</sup>

<sup>1</sup>University of Houston, Houston, TX, <sup>2</sup>University of Washington, Seattle, WA, <sup>3</sup>The University of Texas Health Science Center at Houston, Houston, TX

### ***4. Anti-Dementia and Anti-Hyperlipidemic Medication Use at End of Life in Elderly Lung Cancer Patients***

Min Ji Kim, MD<sup>1</sup>, Zhigang Duan, MD, MS<sup>1</sup>, Hui Zhao, PhD, MD<sup>1</sup>, Holly Michelle Holmes, MD, MS<sup>2</sup>, Joanna-Grace Mayo Manzano, MD<sup>1</sup>, Sharon Hermes Giordano, MD, MPH<sup>1</sup>, Maria E. Suarez-Almazor, MD, PhD<sup>1</sup>

<sup>1</sup>MD Anderson Cancer Center, Houston, TX <sup>2</sup>The University of Texas Health Science Center at Houston, Houston, TX

## ***Poster Presentations***

### ***1. Examining the Attitudes towards the Consumption of Marijuana for Medicinal and Recreational Purpose***

Precious A. Anyanwu, PharmD<sup>1</sup>, Rutugandha P. Paranjpe, MS<sup>1</sup>, Sujit S. Sangiry, MS, PhD<sup>1</sup>

<sup>1</sup>University of Houston, Houston, TX

### ***2. Atypical Antipsychotic Use In Elderly Patients With Depression***

Sanika A Rege, MS<sup>1</sup>, Sneha D Sura, MS<sup>1</sup>, Rajender R Aparasu, PhD, FAPhA<sup>1</sup>

<sup>1</sup>University of Houston, Houston, TX

3. *Antimuscarinic Medication Utilization among Older Dementia Patients*  
 Nandita Kachru, BPharm, MS<sup>1</sup>, Rajender R Aparasu, PhD, FAPhA<sup>1</sup>  
<sup>1</sup>University of Houston, Houston, TX
4. *Incidence and Predictors of Antipsychotics Use among Patients with Parkinson's Disease*  
 Farid Chekani, MS<sup>1</sup>, Rajender R. Aparasu, PhD, FAPhA<sup>1</sup>  
<sup>1</sup>University of Houston, Houston, TX
5. *Cost-Related Medication Nonadherence among Adolescents and Young Adult Cancer Survivors*  
 Sapna Kaul, PhD<sup>1</sup>, Jaqueline C. Avila, BS<sup>1</sup>, Hemalkumar B. Mehta, PhD<sup>1</sup>, Ana M. Rodriguez, MD, MPH<sup>1</sup>, Yong-Fang Kuo, PhD<sup>1</sup>  
<sup>1</sup>The University of Texas Medical Branch, Galveston, TX
6. *Improving Safety of Opioid Prescription in UTMB Geriatric Population*  
 Jose A Mendoza, MD<sup>1</sup>, Erin Hommel, MD<sup>1</sup>, Amandeep Kaur, MD<sup>1</sup>, Joyce Alasse, MD<sup>1</sup>  
<sup>1</sup>The University of Texas Medical Branch, Galveston, TX
7. *Use of STOPP Criteria Medications in Older Breast and Colorectal Cancer Patients*  
 Meghan S. Karuturi, MD<sup>1</sup>, Sharon S. Giordano, MD, MPH<sup>1</sup>, Holly M. Holmes, MD, MSc<sup>2</sup>, Michael L. Johnson, PhD<sup>3</sup>, Xiudong Lee, MSc<sup>1</sup>  
<sup>1</sup>MD Anderson Cancer Center, Houston, TX <sup>2</sup>University of Texas Health Science Center, Houston, TX <sup>3</sup>University of Houston, Houston, TX
8. *Characteristics of Psychotropic Polypharmacy in the Management of Pediatric Mental Disorders*  
 Rohan Medhekar, PhD<sup>1</sup>, Hua Chen, MD, PHD<sup>1</sup>, Joy P Alonzo, M. Engineering, PharmD<sup>1</sup>  
<sup>1</sup>University of Houston, Houston, TX
9. *Predictors of Antipsychotic Initiation among Short-Stay Nursing Home Dementia Patients*  
 Sneha D. Sura, MS<sup>1</sup>, Holly M. Holmes, MD, MS<sup>2</sup>, Michael L. Johnson, PhD<sup>1</sup>, Hua Chen, MD, PhD<sup>1</sup>, Rajender R. Aparasu, PhD, FAPhA<sup>1</sup>  
<sup>1</sup>University of Houston, Houston, TX <sup>2</sup>McGovern Medical School at UTHealth, Houston, TX
10. *Overuse of Oral Corticosteroids for Children with Asthma in a Large Medicaid Managed Care Program*  
 Harold J Farber, MD, MSPH<sup>1</sup>  
<sup>1</sup>Baylor College of Medicine, Houston, TX
11. *Interventions to Improve Adherence to Endocrine Therapy in Breast Cancer Survivors*  
 Aisha H Vadhariya, BS<sup>1</sup>, Salima M Nathoo<sup>1</sup>, Thushara Korattiyil<sup>1</sup>, Meghana Trivedi, PharmD, PhD<sup>1</sup>, Susan M Abughosh, PhD<sup>1</sup>  
<sup>1</sup>University of Houston, Houston, TX

12. *Designing an Intervention: Recipe for Standardized Order Sets for Inpatient Pain Management*

Vidya M Salvidar, PharmD<sup>1</sup>, Ezekiel Fink, MD<sup>1</sup>, Linda H Blanton, RPh<sup>1</sup>, Shinye Karikottu, PharmD<sup>1</sup>

<sup>1</sup>Houston Methodist Hospital, Houston, TX

13. *An Algorithm to Improve Communication and Management of PRN Bowel Medications in Rehabilitation Settings*

Lisa W Thomas, DNP<sup>1</sup>, Allison P Edwards, DPH<sup>1</sup>, Arit E Nwagboso, BSN<sup>1</sup>

<sup>1</sup>UT School of Nursing, Houston, TX

14. *Testosterone Therapy and Hospitalization Rates in Men with COPD*

Jacques G. Baillargeon, PhD<sup>1</sup>

<sup>1</sup>The University of Texas Medical Branch, Galveston, TX

15. *Polypharmacy in Older Adults Visiting a Tertiary Level Hospital in Bangladesh*

Abu J Faisal, MBBS, MPH<sup>1</sup>, Marjina Khatun, MBBS<sup>2</sup>, Rafia S Rasu, PhD<sup>3</sup>, Nahid Rianon, MD, DrPH<sup>4</sup>

<sup>1</sup>EngenderHealth, NewYork, NY <sup>2</sup>Kumudini Women Medical College and Hospital, Tangail, Bangladesh <sup>3</sup>Kansas University, Lawrence, KS, <sup>4</sup>UTHealth McGovern Medical School, Houston, TX

16. *Low Femur Neck Bone Mass Density is Associated with CAD in Elderly Women not on Statins*

Simbo M Chiadika, MD, MPH<sup>1</sup>, Fisayo O Shobayo, MBBS<sup>1</sup>, Syed H Naqvi, MD, MBA<sup>1</sup>, Catherine G Ambrose, PhD<sup>1</sup>, Nahid J Rianon, MD, DrPH<sup>1</sup>

<sup>1</sup>McGovern Medical School, University of Texas Health Science Center at Houston

17. *Knowledge, Attitudes & Behavior: Zika Virus Risk and Prevention among Pregnant Women in Houston*

Abhishek A Nair, MS<sup>1</sup>, Jagadeswara Earla, PharmD<sup>1</sup>, Jennifer D Copeland, MS<sup>1</sup>, Sujit S. Sansgiry, MS, PhD<sup>1</sup>

<sup>1</sup>University of Houston, Houston, TX

18. *The Relative Risk of Achilles Tendon Injury in Patients Taking Quinolones*

Xiao Fang, MS<sup>1</sup>, Zachary Ashmore, MS<sup>1</sup>, Hemalkumar B. Mehta, PhD<sup>1</sup>, Naohiro Shibuya, DPM, MS<sup>2</sup>, Daniel C. Jupiter, PhD<sup>1</sup>

<sup>1</sup>The University of Texas Medical Branch, Galveston, TX <sup>2</sup>Texas A&M University Health Science Center, Bryan, TX

19. *Consumer Involvement and Cognitive Effort: Effect on Information Processing of Prescription Leaflets*

Shweta Shashikant Bapat, MS<sup>1</sup>, Harshali Patel, PhD<sup>1</sup>, Archita H. Bhansali, MS<sup>1</sup>, Sujit S. Sansgiry, MS, PhD<sup>1</sup>

<sup>1</sup>The University of Houston, Houston, TX



20. *Prevalence of Cognitive Impairment In Elderly Patients Within 24 Hours Of Admission Using Mini-Cog*

Nghi (Andy) Bui, PharmD<sup>1</sup>, Mobolaji Adeola, PharmD<sup>1</sup>, Rejena Azad, PharmD<sup>1</sup>, Joshua Swan, PharmD, MPH<sup>1</sup>, Kathryn Agarwal, MD<sup>1,3</sup>, Manvi Sharma, MS<sup>2</sup>, Michael Liebl, PharmD<sup>1</sup>, George Taffet, MD<sup>1,3</sup>

<sup>1</sup>Houston Methodist Hospital, Houston, TX <sup>2</sup>University of Houston, Houston, TX, <sup>3</sup>Baylor College of Medicine, Houston, TX

21. *Prevalence and Predictors of Potentially Inappropriate Medications in Dementia Patients*

Hemalkumar B Mehta, PhD<sup>1</sup>, Sneha D Sura, MS<sup>2</sup>, Mukaila Raji, MD<sup>1</sup>, Holly H Holmes, MD<sup>3</sup>, Yong-Fang Kuo, PhD<sup>1</sup>, Rajender R. Aparasu, PhD, FAPhA<sup>2</sup>, James S. Goodwin, MD<sup>1</sup>

<sup>1</sup>The University of Texas Medical Branch, Galveston, TX, <sup>2</sup>University of Houston, Houston, TX <sup>3</sup>The University of Texas Health Science Center at Houston, Houston, TX

22. *Examining the Behavioral Intentions of Community Pharmacists towards High Prescription Drug Prices*

Soumya G. Chikermane, MS<sup>1</sup>, John E. McCarthy, BS<sup>1</sup>, Sujit S. Sansgiry, MS, PhD<sup>1</sup>

<sup>1</sup>University of Houston, Houston, TX

23. *An Approach to Minimizing Delirium in Elderly Patients with Lorazepam Dose Reductions*

B. Tate Cutshall, PharmD<sup>1</sup>, Rejena Azad, PharmD<sup>2</sup>, Mobolaji Adeola, PharmD<sup>1</sup>, Kathryn S. Agarwal, MD<sup>2</sup>

<sup>1</sup>Houston Methodist Hospital, Houston, TX, <sup>2</sup>Baylor College of Medicine, Houston, TX

24. *Post-Hospital Discharge Automated Calling Program to Identify and Resolve Medication-Related Issues*

Rafael R. Felippi, PharmD, BCPS<sup>1</sup>, Theresa T. Pinn, RN<sup>1</sup>, Vidya M. Saldivar, PharmD<sup>1</sup>, Janice P. Finder, RN, MSN<sup>1</sup>

<sup>1</sup>Houston Methodist Hospital, Houston, TX

25. *Antidepressant Medication Use Among Elderly Patients with Depression*

Qingqing Xu, MS<sup>1</sup>, Sanika Rege, MS<sup>1</sup>, Rajender R. Aparasu, PhD, FAPhA<sup>1</sup>

<sup>1</sup>University of Houston, Houston, TX

26. *Altered Irinotecan Pharmacokinetics during Inflammation in Mice*

Pavan Kumar Chityala<sup>1</sup>, Ming Hu<sup>1</sup>, Song Gao<sup>1</sup>, Romi Ghose<sup>1</sup>

<sup>1</sup>University of Houston College of Pharmacy

## *Sponsors:*

*Phyllis Gough Huffington Endowed Lectureship*



## *Hosts:*



UNIVERSITY of **HOUSTON**  
COLLEGE OF PHARMACY

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#### **Program Chairs**

Rajender R. Aparasu, Ph.D., FAPhA, Professor and Chair, Department of Pharmaceutical Health Outcomes and Policy, University of Houston

Holly M. Holmes, M.D., M.S., AGSF, Associate Professor and Director, Division of Geriatric and Palliative Medicine, UTHealth McGovern Medical School

#### **Planning Committee**

Marc Fleming, PhD, MPH, RPh, University of Houston College of Pharmacy

John Halphen, MD, JD, UTHealth McGovern Medical School

Michael L. Johnson, PhD, University of Houston College of Pharmacy

Hemalkumar Mehta, PhD, University of Texas Medical Branch at Galveston

**Continuing Medical Education (CME):** This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of The University of Texas Medical Branch at Galveston and The University of Texas Health Science Center at Houston. The University of Texas Medical Branch at Galveston is accredited by the ACCME to provide continuing medical education for physicians.

The University of Texas Medical Branch at Galveston designates this live activity for a maximum of 3.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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**Risk Management Education (RME):** 3.0 Risk Management Education Credits

**Dental Continuing Education (DCE):** This continuing education activity has been planned and implemented in accordance with the standards of the ADA Continuing Recognition Program (ADA CERP) through joint efforts between The University of Texas School of Dentistry at Houston PACE Center—Continuing Dental Education, UTHealth McGovern Medical School Division of Geriatric & Palliative Medicine, and the University of Houston College of Pharmacy Department of Pharmaceutical Health Outcomes & Policy.

Attendance at session earn a maximum of 3 credit hours in Special Patient Care and Pharmacotherapeutics (AGD Code: 750 and 016)

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