

Houston Medication Safety Symposium 2018



A New Look at Reducing
Prescription Burden & Misuse

Friday, April 13

Denton A. Cooley, MD & Ralph C. Cooley, DDS University Life Center
Houston, Texas

Welcome to the 2018 Houston Medication Safety Symposium

Last year, we launched the Houston Medication Safety Symposium to provide a multidisciplinary platform to share best practices for ensuring safe, effective and equitable use of medication for patient-centered care. The inaugural symposium was a success with over 130 participants from 15 healthcare institutions in the Texas Medical Center and beyond. The four nationally known speakers discussed important issues like high-risk medications in older patients and the opioid abuse epidemic. The event also provided an opportunity for four podium and 26 poster presenters to disseminate and discuss their research covering various aspects of medication use.

This year, we are excited to invite you all to this multidisciplinary symposium to highlight the challenges of medication-related problems in older adults and chronic pain management with opioids. We have chosen to highlight these two critical areas in drug therapy due to the increase in polypharmacy in the aging population and enormous challenges in pain management in the context of the opioid epidemic. We hope this discussion by nationally recognized speakers will help in optimizing medication use and in improving the quality of pharmaceutical care as we continue to balance the risks and benefits of medication therapy.

Thanks to the efforts of the planning committee for the past several months, we are able to provide continuing education credits in medicine, nursing, pharmacy and dentistry for this symposium. We also want to thank the Phyllis Gough Huffington Endowed Lecture Series, the UTHealth Consortium on Aging, and our respective institutions for supporting this symposium to benefit clinicians, researchers, students and fellows.

We are looking forward to your support and feedback as we continue to strengthen this symposium to disseminate evidence-based approaches for medication safety in patient care and research to improve the quality of pharmaceutical care.

Again, thank you for your participation!



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

8:15-9:00 am	Breakfast and Registration
9:00-9:15 am	Greetings and Introductions Holly Holmes, MD, MS, AGSF Rajender Aparasu, PhD, FAPhA Houston Medication Safety Symposium Chairs Carmel Dyer, MD, AGSF, FACP Executive Director of the UTHealth Consortium on Aging, Roy M. and Phyllis Gough Huffington Chair in Gerontology and Nancy P. & Vincent F. Guinee, M.D. Distinguished Chair, UTHealth McGovern Medical School F. Lamar Pritchard, PhD, RPh Professor & Dean, University of Houston, College of Pharmacy
9:15 am	Morning Plenary Session: Opioid Safety and Chronic Pain Moderator: Marc L. Fleming, PhD, MPH, RPh
9:15-10:15 am	<i>Opioids and Chronic Pain: Where is the Balance?</i> Mellar Davis, MD, FCCP, FAAHPM Geisinger Medical Center System
10:15-11:15 am	<i>Supporting, Empowering and Training Informal Caregivers in Pain Medication Management</i> Mary Lynn McPherson, PharmD, MA, MDE, BCPS, CPE University of Maryland, School of Pharmacy
11:15-11:30 am	Break
11:30-12:30 pm	Podium Research Presentations Moderators: Michael L. Johnson, PhD University of Houston, College of Pharmacy Hemalkumar Mehta, PhD University of Texas Medical Branch at Galveston
12:30-1:30 pm	Lunch & Poster Viewing
1:30 pm	Afternoon Plenary Session: Medication Safety in Older Adults Moderator: Holly Holmes, MD, MS, AGSF
1:30-2:30 pm	<i>Drug Therapy in Older Persons: Beliefs, Myths, and Challenges</i> Jerry Gurwitz, MD University of Massachusetts Medical School
2:30-3:30 pm	<i>Prescribing Cascades: Opportunities to Improve Medication Safety</i> Paula Rochon, MD, MPH, FRPC University of Toronto
3:30-3:45 pm	Closing Remarks and Awards

SPEAKERS



Mellar Davis, MD, FCCP, FAAHPM

*Palliative Care Department and Section Head,
Geisinger Medical Center System*

Dr. Mellar P. Davis is a member of the Palliative Care Department, and Section Head, Geisinger Medical System Danville, PA. He has been a member of the Geisinger Medical Staff since August 2016.

In his role as Section Head, Dr. Davis is responsible for developing palliative care services throughout the Geisinger Medical System including outpatient and inpatient services. In addition, Dr. Davis works with the Geisinger Hospice Services to develop and coordinate care within the central region.

Dr. Davis was a member of the Cleveland Clinic Palliative Care section, Taussig Cancer Institute and fellowship director until joining the Geisinger Medical System. He was the co-chair of the Palliative Care Study Group of the Multinational Association of Supportive Care (MASCC) and a past board member since 2010. He has been a Professor of Medicine in The Cleveland Clinic Lerner College of Medicine, Case Western Reserve University since 2009 and was elected as a Fellow to the American Academy of Hospice and Palliative Medicine in 2010. He is Editor in Chief of Progress on Palliative Care. His present duties within the Associate Editor in Chief of PC FACS (Fast Article Critical Summary for Clinicians in Palliative Care).



Mary Lynn McPherson, PharmD, MA, MDE, BCPS, CPE

*Professor & Executive Director, Advanced Post-Graduate Education in
Palliative Care, University of Maryland, School of Pharmacy*

Dr. Mary Lynn McPherson is Professor and Executive Director, Advanced Post-Graduate Education in Palliative Care in the Department of Pharmacy Practice and Science at the University of Maryland School of Pharmacy in Baltimore.

Dr. McPherson has a Master's degree in Instructional Systems Development, and a Master's degree in Distance Education and e-Learning. Dr. McPherson has maintained a practice in both hospice (local and national) and ambulatory care her entire career.

Dr. McPherson teaches extensively in the Doctor of Pharmacy curriculum on pain management and end-of-life care, including didactic and experiential content. She is the Program Director of the Online Master of Science and Graduate Certificates in Palliative Care at the University of Maryland, Baltimore. She also developed one of the first and few palliative care pharmacy residencies in the U.S.

Dr. McPherson has won numerous awards for teaching, and her innovative practice in end of life care. She has published numerous articles and chapters, as well as four books, including the best-selling "Demystifying Opioid Conversion Calculations: A Guide for Effective Dosing."



Jerry Gurwitz, MD

*Chief of Geriatric Medicine, Department of Medicine,
University of Massachusetts Medical School*

Dr. Jerry Gurwitz is the founding Executive Director of the Meyers Primary Care Institute, a joint initiative of University of Massachusetts Medical School, Fallon Health and Reliant Medical Group, where he also serves as a primary care physician. He holds the Dr. John Meyers Professorship in Primary Care Medicine at University of Massachusetts Medical School. In 2003, Dr. Gurwitz was appointed as Chief of the Division of Geriatric Medicine at the UMass Medical School and UMassMemorial Medical Center.

Dr. Gurwitz's research efforts fall at the intersection of geriatric medicine, patient safety, and healthcare delivery science. His career has covered a spectrum from aging pharmacology to medication effectiveness and safety, to testing of innovative health information technology-based interventions to improve the quality and safety of health care during transitions in care across clinical settings. Dr. Gurwitz has been the recipient of numerous awards and honors, including the John M. Eisenberg Patient Safety and Quality Award for Research from the National Safety Foundation and the Joint Commission; the Leon I. Goldberg Young Investigator Award from the American Society of Clinical Pharmacology and Therapeutics (ASCPT); the William B. Abrams Award in Geriatric Clinical Pharmacology from ASCPT; and the George F. Archambault Award from the American Society of Consultant Pharmacists.



Paula Rochon, MD, MPH, FRCPC

*Vice President, Research, Women's College Hospital, and Professor
& RTO/ERO Chair in Geriatric Medicine, University of Toronto*

Dr. Paula Rochon is a geriatrician and the vice-president of research at Women's College Hospital, which is fully affiliated with the University of Toronto. She is a senior scientist at Women's College Research Institute; a professor in the Department of Medicine and Institute of Health Policy, Management and Evaluation at the University of Toronto; and a senior scientist at the Institute for Clinical Evaluative Sciences. In 2015, she was appointed as the inaugural Retired Teachers of Ontario Chair in Geriatric Medicine at the University of Toronto.

Dr. Rochon received her medical degree from McMaster University and subsequently completed a fellowship in geriatric medicine at the University of Toronto. Her research training included the completion of a fellowship in Geriatric Medicine at St. George's Hospital Medical School, U.K., and a Master in Public Health degree from the Harvard School of Public Health, followed by a research fellowship in gerontology. Dr. Rochon's research career focuses on understanding the unique needs of older adults, particularly women. In particular, her research explores how to promote health and wellness in older adults by optimizing their drug prescribing. Dr. Rochon has a strong record of funding from federal funding agencies, and has published more than 250 papers in peer-reviewed journals. In 2013, she was elected to the Canadian Academy of Health Sciences (CAHS).

Podium Presentations

1. Concomitant Use of Tyrosine Kinase Inhibitors & Proton Pump Inhibitors in Older Adults with Cancer

Sharma M¹, Holmes HM¹, Mehta HB², Chen H³, Aparasu RR³, Giordano SH⁴, Shih YT⁴, Johnson ML³

¹Division of Geriatric and Palliative Medicine, McGovern Medical School, The University of Texas Health Science Center, Houston, TX ²Department of Surgery, The University of Texas Medical Branch, Galveston, TX

³Department of Pharmaceutical Health Outcomes and Policy, University of Houston, Houston, TX ⁴Department of Health Services Research, The University of Texas MD Anderson Cancer Center, Houston, TX

2. Impact of Anticonvulsant Use on Fall Incidence in Older Patients with Diabetic Peripheral Neuropathy

Randolph AC, Lin Y, Volpi E, Kuo Y

University of Texas Medical Branch, Galveston, TX

3. Adverse Outcomes Of Antimuscarinics in Elderly Dementia

Kachru N¹, Chen H², Holmes H³, Johnson M², Aparasu RR²

¹Gilead Sciences Inc., Foster City, CA ²Pharmaceutical Health Outcomes and Policy, College of Pharmacy, University of Houston, TX ³UTHealth McGovern Medical School, Houston, TX

4. Change in Opioid Prescribing Patterns Among Disabled Adults Following Hydrocodone Rescheduling

Liaw V¹, Raji MA², Baillargeon J², Kuo YF²

¹University of Texas at Austin, Austin, Texas, ²University of Texas Medical Branch, Galveston, Texas

Poster Presentations

1. Implementing Pharmacogenetic Testing as a Tool to Reduce Polypharmacy in the Long-term Care Setting

Tombrella JT, Baker NR

University of Alabama at Birmingham, Birmingham, AL

2. The Effects of Missed Doses of Antibiotics on Hospitalized Patient Outcomes

Chandni N. Patel¹, Michael D. Swartz¹, Jeffrey S. Tomasek², Laura E. Vincent¹, Wallace E. Hallum^{1,3}, John B. Holcomb, MD¹

¹Center for Translational Injury Research, Division of Acute Care Surgery, Department of Surgery, McGovern Medical School, University of Texas Health Science Center at Houston, Houston, TX ²Department of Biostatistics, School of Public Health, University of Texas Health Science Center at Houston, Houston, TX ³Memorial Hermann Hospital, Texas Medical Center, Houston, TX

3. Patient-Reported Outcomes in Light of Supportive Medications in Treatment-Naïve Lung Cancer Patients

Johnny Hoang¹, Navneet Upadhyay¹, Dozie N. Dike¹, Jaekyu Lee¹, Charlie Cleeland², Hua Chen¹, Tito Mendoza², Meghana V. Trivedi¹

¹University of Houston College of Pharmacy, Houston, TX ²The University of Texas MD Anderson Cancer Center, Houston, TX

4. Identifying Rheumatic Adverse Events Associated With Immune Checkpoint Inhibitors Using FAERS Data

Pundole XN¹, Sarangdhar M², Suarez-Almazor ME¹

¹Department of General Internal Medicine, Section of Rheumatology and Clinical Immunology, The University of Texas MD Anderson Cancer Center, Houston, TX ²Division of Biomedical Informatics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

5. Testosterone Replacement Therapy and Hospitalization Rates in Men with COPD

Jacques Baillargeon^{1,3}, Randall J. Urban², Wei Zhang², Mohammed F. Zaiden², Zulqarnain Javed¹, Melinda Sheffield-Moore^{2,3}, Yong-Fang Kuo^{1,3}, Gulshan Sharma^{2,3}

¹Department of Preventive Medicine and Community Health, ²Department of Internal Medicine, ³Sealy Center on Aging University of Texas Medical Branch, Galveston, TX 77550

6. Asthma medication use and parents' perception of children's health related quality of life (HRQOL)

Qingqing Xu¹, Yasser Almogbel², Sujit S. Sansgiry¹

¹University of Houston, Houston TX, USA ²Qassim University, Buraydah, Qassim, Saudi Arabia

7. Geographic Accessibility and Behavioral Disorder Screening Across Races in Pediatric Population

Upadhyay N¹, Aparasu RR¹, Rowan PJ², Fleming ML¹, Balkrishnan R³, Chen H¹

¹Department of Pharmaceutical Health Outcomes and Policy, University of Houston College of Pharmacy, Houston, TX ²Division of Management, Policy, and Community Health, University of Texas School of Public Health, Houston, TX ³University of Virginia School of Medicine, Charlottesville, VA

8. Mid-level Practitioner's Intention to Prescribe Acetaminophen with Codeine

Bapat SS, Anyanwu P, Varisco T, Fleming ML

College of Pharmacy, Pharmaceutical Health Outcomes and Policy, University of Houston, Houston, TX

9. *Patient-reported Barriers to and Strategies for Improving Patient Adherence*

Vadhariya A, Paranjpe R, Fleming ML, Essien EJ, Johnson ML, Abughosh SM
University of Houston, Houston, TX

10. *Implementation of a Proton Pump Inhibitor Step-down Program within a Community-owned Health System*

Pham D, Wong J
Harris Health System

11. *Antipsychotic Discontinuation among Short-stay Nursing Home Residents with Dementia*

Sura SD¹, Holmes H², Johnson ML¹, Chen H¹, Chan W³, Aparasu RR¹
¹University of Houston, Houston, TX ²UTHealth McGovern Medical School, Houston, TX ³School of Public Health, University of Texas, Houston, TX

12. *Assessing for Urine Drug Testing in Non-cancer Patients on Chronic Opioid Therapy*

Gabisi Jr AM¹, Bergeron EJ¹, Milton-Brown JY¹, Henry A¹, Pradia-Williams C²
¹Harris Health System, Houston, TX ²Texas Southern University, Houston, TX

13. *Clinical and Medication Use Characteristics of National Cohort of Elderly Dementia Patients*

Rege S, Aparasu RR
University of Houston, Houston, TX

14. *Impact of a Pharmacy-led Medication History Program in the Emergency Center of an Academic Hospital*

Adibe CC¹, Varghese S¹, Patel K¹, Erowele G¹, Birtcher KK², Fernandez J²
¹Harris Health System, Houston, TX ²University of Houston College of Pharmacy, Houston, TX

15. *Health Care Resource Utilization and Economic Burden in Multiple Sclerosis Patients*

Earla JR, Aparasu RR
University of Houston, Houston, TX

16. *Increasing Medication Adherence in Older Adults who Self-Neglect: A Safety Protocol*

Burnett, J^{1,2}, Clark LE^{1,2}, Flores RJ^{1,2}
¹UTHealth, Houston, McGovern Medical School, Houston, Texas Division of Geriatric and Palliative Medicine, ²The Texas Elder Abuse and Mistreatment Institute (TEAM), Houston, Texas

17. *Evaluation of a Pharmacy-led Bedside Medication Delivery Service at a Comprehensive Cancer Center*

Stokes LB¹, Bertrand L³, Colavecchia AC^{2,4}, Roux RK³, Wanat M², Aparasu RR²

¹Texas Children's Hospital Pavilion for Women, Houston, TX ²University of Houston, Houston, TX ³University of Texas MD Anderson Cancer Center, Houston, Texas ⁴Houston Methodist Hospital, Houston, Texas

18. *Identifying Adherence Barriers to Oral Endocrine Therapy (OET) Among Breast Cancer Patients*

Paranjpe R¹, Trivedi M^{2,3}, Abughosh S¹

¹Departments of Pharmaceutical Health Outcomes and Policy, ²Pharmacy Practice and Translational Research, ³Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston, TX, USA

19. *Medication Adherence and Personal Determinants of Health Among Self-Neglecting Older Adults*

MA Cheng¹, HM Holmes¹, LE Clark^{1,2}, JL Burnett^{1,2}

¹UTHealth McGovern Medical School, Houston, TX ²Texas Elder Abuse and Mistreatment Institute, Houston, TX

20. *Medication Safety Roles Of Pharmacist and Pharmacy Staff at Retail Pharmacies in the Houston Area*

Masurkar P, Gopinathan S, Yande S, Sansgiry S
University of Houston, Houston, TX

21. *Polysubstance Abuse: The Overlooked Factor of Benzodiazepines in Opioid Overdose in Harris County*

Lacey RC¹, Dean E², Onyeigo S³, Sims G⁴, Shah U⁵,

¹Touro University California, Vallejo, CA ²Harris County Public Health, Houston, TX, ³Harris County Public Health, Houston, TX ⁴Harris County Public Health, Houston, TX, ⁵Harris County Public Health, Houston, TX

22. *Antiretroviral Therapy and Virologic Response among HIV-Infected Persons: Role of 100% ART Adherence, Depression, Side Effects, and Drug Resistance*

Osaro Mgbere^{1,2}, Nadia Barahmani¹, Jason Wang¹, Salma Khuwaja¹, Ekere J. Essien²

¹Houston Health Department, Houston, Texas, ²Department of Pharmaceutical Health Outcomes and Policy, University of Houston College of Pharmacy, Houston, Texas

All accepted abstracts to be published in a future issue of **Research in Social & Administrative Pharmacy** (Elsevier), www.rsap.org.

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Continuing Pharmacy Education (CPE): Houston Methodist Hospital is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. Participants documenting completion of the activity by attending the lecture, participating in the learning assessment, and completing an evaluation form within 30 days will receive up to 3 contact hours (0.3 CEUs) of continuing pharmacy education credit as a knowledge-based activity for pharmacists. UAN# 0478-9999-18-009-L05-P, 0478-9999-18-010-L01-P, 0478-9999-18-011-L05-P



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.

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Attendees can earn a maximum of 5.75 CDE lecture hours; in AGD Code: 340 Anesthesia, Pain Mgmt., Sedation, Pharmacology. The formal continuing education programs of this sponsor are accepted by AGD for Fellowship/Mastership credit. The current term of acceptance extends from 11/01/2015 to 12/31/2019. The University of Texas School of Dentistry at Houston is a member of the Association for Continuing Dental Education. This course satisfies the Texas State Board of Dental Examiners RULE §111.1 Standards for Prescribing Controlled Substances and Dangerous Drugs. This course satisfies the Texas State Board of Dental Examiners RULE §111.1 Standards for Prescribing Controlled Substances and Dangerous Drugs.



*Inaugural Houston
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