

UNC @ ICPE

The Pharmacoepidemiology Program, UNC Gillings School of Global Public Health
Presentations at the 38th International Conference on Pharmacoepidemiology &
Therapeutic Risk Management, *ICPE Copenhagen, Denmark–August 24-28, 2022.*



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

SKILLS COURSES

Date & Time	Session Type	Session
Aug 24 (8:30AM-12:30PM)	Wednesday Morning Skills Courses	Pharmacoepidemiologist's Toolbox for Professional Empowerment <i>Caitlin Knox, Juan Hincapie-Castillo, Mary Beth Ritchey, Christopher Rentsch, Yola Moride</i>
Aug 25 (8:30AM-12:30PM)	Thursday Morning Skills Courses	Intermediate Pharmacoepidemiology: Approaches to Unmeasured Confounders <i>Michele Jonsson Funk, Sudha Raman, Jennifer L. Lund, Mugdha Gokhale, Jessica Young, Til Stürmer</i>
Aug 25 (8:30AM-12:30PM)	Thursday Morning Skills Courses	New frontiers for Pharmacoepidemiology: Using New and Mixed Methods for Data Collection <i>Nancy Dreyer, Christina Mack, William Dixon, Nabarun Dasgupta, Rachel Williams</i>

SYMPOSIA/WORKSHOPS

Date & Time	Session
Aug 26 (10:30AM-12:00PM)	Using Real-World Data and Pharmacoepidemiologic Methods to Advance the Science of Deprescribing Research <i>Shahar Shmuel, Daniela Moga, Joshua Niznik, Julie Lauffenburger, Lucas Morin, Danijela Gnjidic, Xiaojuan Li, Kaley Hayes</i>
Aug 26 (3:30PM – 5:00PM)	Considerations of Misclassification and Confounding on COVID-19 Vaccines Effectiveness Studies – A Vaccine SIG Endorsed Symposium <i>John Seeger, Michele Jonsson Funk, J Bradley Layton, Tainya Clarke</i>
Aug 27 (4:15PM-5:45PM)	Cloning, Censoring, and Weighting – Oh My! Applications of Target Trial Emulation for Evaluating Cancer Interventions When Study Eligibility, Intervention Initiation, and Start of Follow-up Are Not Aligned <i>Jennifer Lund, Xabier Garcia de Albeniz, Camille Maringe, Charles Gaber, Richard Wyss, Maribel Salas, Armen Ghazarian</i>
Aug 28 (10:30AM-12:00PM)	Updating the Public on COVID-19 Vaccine Safety – Considerations for Pharmacoepidemiologists <i>Mathias Møllebæk, Priya Bahri, Nabarun Dasgupta, Barbara Mintzes, Anton Pottgard, Peter Mol</i>
Aug 28 (3:15PM-4:45PM)	KEYNOTE Session: How Can We Mitigate Publication of Poorly Conducted RWE Studies? <i>Almut Winterstein, Vera Ehrenstein, Jeffrey Brown, Til Stürmer, Meredith Smith</i>

ORAL PRESENTATIONS

#	Presentation
Drug Effectiveness	
Aug 26 (2:00PM-2:15PM)	Heterogeneous Treatment Effect of Glucagon-like Peptide 1 Receptor Agonists on Asthma/COPD exacerbation: Machine-learning Analysis of Two Nationwide Cohorts <i>Tiansheng Wang, John Buse, Corinne Keet, Alexander Keil, Richard Wyss, Virginia Pate, Michele Jonsson Funk, Michael Kosorok, Til Stürmer</i>
Aug 27 (9:45AM-10:00AM)	Using Iterative Causal Forest to Identify Heterogeneous Treatment Effects: Sodium-glucose Cotransporter-2 inhibitors versus Glucagon-like Peptide-1 Receptor Agonists on Hospitalization for Heart Failure <i>Tiansheng Wang, Alexander Keil, Siyeon Kim, Richard Wyss, Phyoo Htoo, Michele Jonsson Funk, John Buse, Michael Kosorok, Til Stürmer</i>
Drug Utilization Research	
Aug 27 (8:15AM-8:30AM)	Patterns of Buprenorphine Initiation Treatment for Opioid Use Disorder and Association with Opioid-related Overdose Deaths <i>Svetla Slavova, Feitong Lei, Daniela Moga, Emily Slade, Lindsey Hammerslag, Nabarun Dasgupta, Michelle Lofwall, Patricia Freeman, Bethany DiPrete</i>
Aug 27 (8:45AM-9:00AM)	Prescription Patterns in Patients with Incident Trigeminal Neuralgia <i>Pilar Hernandez-Con, Haesuk Park, Michael Maguire, Shailina Keshwani, Juan M. Hincapie-Castillo</i>

ORAL PRESENTATIONS	
Aug 27 (8:45AM-9:00AM)	Association of Opioid Dose Reduction with Opioid Overdose and Opioid Use Disorder Among Patients on High-dose Long-term Opioid Therapy in North Carolina Bethany DiPrete, Shabbar Ranapurwala, Courtney Maierhofer, Naoko Fulcher, Paul Chelminski, Christopher Ringwalt, Timothy Ives, Nabarun Dasgupta, Vivian Go, Brian Pence
Aug 27 (9:00AM-9:15AM)	Geographic Variation of High-risk Prescription Opioid Use Measures Among Disabled Medicare Beneficiaries, 2011-2018 Motomori O. Lewis, Lili Zhou, Walid Gellad, Juan Hincapie-Castillo, Diana Wilkie, Richard Segal, Debbie Wilson, Weihsuan Jenny Lo-Ciganic
Aug 27 (9:15AM-9:30AM)	The Association Between Trajectories of Prescription Opioid Use and Opioid Overdose Risk Among Nonmetastatic Breast Cancer Survivors Weihsuan Jenny Lo-Ciganic, Juan Hincapie-Castillo, Ching-Yuan Chang, Bobby Jones, Haesuk Park, Coy Heldermon, Vakaramoko Diaby, Debbie Wilson
Aug 28 (2:45PM-3:00PM)	The Association Between Trajectories of Adherence to Endocrine Therapy and the Risk of Breast Cancer Recurrence Among Nonmetastatic Breast Cancer Survivors Juan Hincapie-Castillo, Weihsuan Jenny Lo-Ciganic, Ching-Yuan Chang, Bobby Jones, Haesuk Park, Coy Heldermon, Vakaramoko Diaby, Debbie Wilson
Methods in Pharmacoepidemiology	
Aug 26 (1:30PM-1:45PM)	Inverse Probability Weighting or Multiple Imputation for Nonmonotone Missing Data? Rachael Ross, Stephen Cole, Daniel Westreich, Julie Daniels, Jeffrey Stringer, Jessie Edwards
Aug 26 (1:45PM-2:00PM)	Better Analysis of RCTs Tim Feeney, Stephen Cole
Aug 26 (2:00PM-2:15PM)	Risk Ratios versus Hazard Ratios in Comparative Effectiveness Research: An Illustration Using Clinical Trial Data Chase Latour, I-Hsuan Su, Megan Delgado, Virginia Pate, Charles Poole, Jessie Edwards, Til Stürmer, Jennifer Lund, Michele Jonsson Funk
Aug 26 (2:15PM-2:30PM)	Successful Implementation of Inverse-probability-of-screening Weights to Address Differential Outcome Screening: Effects of Statin Persistence on Breast Cancer Risk in Denmark Sophie Mayer, Jesper Hallas, Jessie Edwards, Louise Henderson, Til Stürmer
Aug 26 (2:15PM-2:30PM)	Differential Misclassification of Overdose Safety of in a Prominent Comparative Effectiveness RCT Comparing Buprenorphine and Naltrexone for Opioid Dependence Nabarun Dasgupta, Elizabeth Ajazi, Todd Schwartz, Stephen Marshall
Aug 26 (5:30PM-5:45PM)	Negative Control Outcomes to Assess the Comparability of Biologics versus Small-molecule Therapeutics for Osteoporosis: Considerations for Differential Non-adherence Lydia Feinstein, Alexander Breskin, Peter S. Samai, M. Alan Brookhart
Aug 26 (6:00PM-6:15PM)	Alternative Analytic and Matching Approaches for the Prevalent New-user Design: A Simulation Study Michael Webster-Clark, Panagiotis Mavros, Elizabeth M. Garry, Til Stürmer, Shahar Shmuel, Jessica Young, Cynthia Girman
Aug 26 (6:30PM-6:45PM)	Advantages of Splitting Switchers and New Users in the Prevalent New User Design Jessica Young, Panagiotis Mavros, Til Stürmer, Elizabeth M. Garry, Shahar Shmuel, Cynthia Girman
Aug 27 (9:00AM-9:15AM)	Comparing the Effects of Neoadjuvant versus Adjuvant Chemotherapy in Stage II-III, Triple-negative Breast Cancer: Illustration of Trial Emulation Using the Clone-Censor-Weight Method I-Hsuan Su, Charles Gaber, Stephanie Downs-Canner, Emilie Duchesneau, Jennifer Lund
Geriatric Pharmacoepidemiology	
Aug 26 (2PM-2:15PM)	Translation of a Medicare Claims-based Frailty Index from International Classification of Diseases 9 th Revision to 10 th Revision Emilie Duchesneau, Shahar Shmuel, Keturah Faurot, Jihye Park, Allison Musty, Virginia Pate, Alan Kinlaw, Til Stürmer, Michele Jonsson Funk, Jennifer Lund
Aug 27 (8:30AM-8:45AM)	Dosing Profiles of Opioid and Benzodiazepine Use Associated with Risk of Injurious Falls Among US Medicare Beneficiaries: Group-based Multi-trajectory Models Juan Hincapie-Castillo, Walid Gellad, Bobby Jones, Jeannie Lee, James Huang, Ching-Yuan Chang, Debbie Wilson, Gary Reisfield, Chian Kwok, Khoa Nguyen, Chris Delcher, Christopher Harle, Yong Ge, Ronald Shorr, Zachary Marcum, Seonkyeong Yang, Pei-Lin Huange, Lauren Adkins, Weihsuan Jenny Lo-Ciganic
Safety End Points	
Aug 28 (8:30AM-8:45AM)	Validation of an International Classification of Disease (ICD) 10 Algorithm for Hypoglycemia in Administrative Claims Data Qoua Her, Sara Dejene, Jea Young Min, Virginia Pate, Michele Jonsson Funk, James Flory

ORAL PRESENTATIONS

Disease Epidemiology

Aug 28 (2:15PM-2:20PM) Individualized Treatment Rule Identification in Heart Failure Patients Using Precision-medicine Methods
Arti Virkud, Jessie Edwards, Michele Jonsson Funk, Emily Gower, Michael Kosorok, Patricia Chang, Abhi Kshirsagar

POSTERS PRESENTATIONS

Poster Session A – August 26, 2022

A Review of Algorithms Used to Identify People Who Use Nonmedical or Psychotropic Drugs in Claims and Electronic Healthcare Record (EHR) Data

Mary C. Figgatt, Asher J. Schranz, Juan Hincapie-Castillo, Yvonne M. Golightly, Stephen Marshall, Nabarun Dasgupta

Antibiotic use for diarrheal illness in patients with a positive molecular gastrointestinal pathogen panel result

Samantha Eiffert, Emily Ciccone, Natalie Mackow, Banks Kookan, Melissa B. Miller, Alan Kinlaw

Characteristics and Trends in Cough Medication Use Among Patients with Chronic Cough in Florida: 2013-2019 (27)

Weihsuan Jenny Lo-Ciganic, Seonkyeong Yang, Shu Huang, Juan Hincapie-Castillo, Xuehua Ke, Jonathan Schelfhout, Helen Ding, Mandel Sher, Debbie Wilson

The Burden of Sudden Cardiac Death Among Older Adults Diagnosed with Cancer (24)

Jennifer Lund, Courtney Schlusser, Sharon Peacock Hinton, Emilie Duchesneau, Disha Subramaniam, Magdalene M. Assimon

Identifying Hospitalizations in Patients with Medicare Supplemental Insurance (154)

Virginia Pate, Jessica Young, Jennifer Lund, Til Stürmer, Michele Jonsson Funk

Discharged where? The importance of understanding discharge dispositions when estimating in-hospital mortality

Catherine Wiener, Alexander Breskin, M. Alan Brookhart

Poster Session B – August 27, 2022

Spotlight Poster: Drug Utilization Research

Intended and Unintended Consequences: Changes in Opioid Prescribing Practices Following Two Policies in North Carolina, 2012–2018 – A Controlled Interrupted Time Series Analysis [644]

Courtney Maierhofer, Shabbar Ranapurwala, Bethany Diprete, Naoko Fulcher, Christopher Ringwalt, Paul Chelminski, Timothy Ives, Nabarun Dasgupta, Vivian Go, Brian Pence

Spotlight Poster: Drug Utilization Research - 1st Place Award

In-Hospital Treatment Patterns Among Patients Hospitalized with COVID-19 in the United States (P, 640)

Nuvan Rathnayaka, Catherine Wiener, Alexander Breskin, Angela Cook, M. Alan Brookhart

Methodologic Considerations for Emulating Target Trial for Discontinuation of Antidepressant Treatment in Pregnancy

Mollie Wood, Hedvig Nordeng, Eivind Ystrom

Prevalence of osteoporosis, fractures, and preventive therapy among patients with moderate to severe chronic kidney disease patients using National Health and Examination survey (NHANES)

Sherin Ismail Atta, Michele Jonsson Funk

Trends and Characteristics Associated with Nonadherence to Antidepressants Among Breast Cancer Survivors with Depression (122)

Weihsuan Jenny Lo-Ciganic, Ching-Yuan Chang, Juan Hincapie-Castillo, Haesuk Park, Coy Heldermon, Vakaramoko Diaby, Seonkyeong Yang, Debbie Wilson

Buprenorphine Utilization Trends Resulting from Multiple State Insurance Reimbursement Policy Changes: An Exploratory Joinpoint Analysis (130)

Amie Goodin, Michael Maguire, Juan Hincapie-Castillo

Trajectories of Concurrent Opioid and Benzodiazepine Use and Associated Opioid Overdose Risk Among Arizona Medicaid Beneficiaries (85)

Weihsuan Jenny Lo-Ciganic, Seonkyeong Yang, Ching-Yuan Chang, Juan Hincapie-Castillo, Walid Gellad, Bobby Jones, Jeannie Lee, James Huang, Debbie Wilson, Gary Reisfield, Chian Kwok, Khoa Nguyen, Chris Delcher, Christopher Harle, Yong Ge, Ronald Shorr, Pei-Lin Huang, Lauren Adkins

Comparison of Approaches to Handle Missing Data for Estimating Longitudinal Patterns of Anticholinergic and Sedative Drug Load Among Older Adults (154)

Shahar Shmuel, Virginia Pate, Emilie Duchesneau, Jessie Edwards, Alan Kinlaw, Jennifer Lund

Adjuvant Radiation Therapy and Mortality in Older Women with Early-Stage Endometrial Cancer: An Analysis Using The SEER-Medicare Linkage (221)

<i>Jihye Park, Jennifer Lund, Erin E Kent, Chelsea Anderson Wendy Brewster, Andrew F. Olshan, Hazel B. Nichols</i>
Distinguishing Death from Disenrollment: Applying a Predictive Algorithm to Reduce Bias in Estimating the Risk of Rehospitalization (287) <i>Jessica Young, Nabarun Dasgupta, Kenneth Pack, Sarah Bloemers, Toska Cooper, Bethany Diprete, Til Stürmer, Virginia Pate, Jennifer Lund, Debra E. Irwin, Teresa B. Gibson, Michele Jonsson Funk</i>
Patterns of Care Among Older Adults Diagnosed with Locally Advanced Esophageal Cancer Eligible for Trimodal Therapy (158) <i>Charles Gaber, Nicholas J. Shaheen, Robert Sandler, Jessie Edwards, Hazel B. Nichols, Hanna K. Sanoff, Jennifer Lund</i>
Poster Session C – August 28, 2022
Spotlight Poster: Medical Devices Evaluating implementation of HPV self-collection for cervical cancer screening among low-income, underscreened women in the US <i>Elyse M. Miller, Wang Y, Doughty S, Des Marais AC, Smith JS</i>
Spotlight Poster: Rare Diseases - 1st Place Award An Innovative Way to Generate Blinded Data in Single Arm Clinical Trials (AK) <i>Cynthia Girman, Katherine Brind'amour, Susan Hartmaier, Xinruo Zhang, Emma Rosen, David A. Weinstein</i>
Selective Sampling: A Novel Approach to Simulating Biased Samples for Methods Research <i>Megan Delgado, Chase D. Latour, I-Hsuan Su, Virginia Pate, Charles Poole, Jessie K. Edwards, Til Stürmer, Jennifer L. Lund, John Concato, Jie Li, Kenneth Quinto, Nahleen Lopez, Michele Jonsson Funk</i>
Persistent opioid use in lymphoma survivors following treatment <i>Katherine Stafford, Anita J. Kumar, Virginia Pate, Alison Loren, Alan Kinlaw</i>
Susceptibility Reporting and Antibiotic Prescribing for UTIs in the Inpatient Setting: A Nudge toward Improved Stewardship <i>Madison G Ponder, Kevin Alby, Lindsay M Daniels, Ashlyn M Norris, Alan C Kinlaw</i>
Racial and Ethnic Categories in Propensity Score Analyses: An Application in US Medicare Beneficiaries Initiating DPP4 Inhibitors vs Sulfonyleureas <i>Alan Kinlaw, Alan R. Ellis, Chantel Martin, Michael A. Webster-Clark, Michele Jonsson Funk, Charles Poole, Virginia Pate, Qoua Her, Madison G. Ponder, Jennifer L. Lund, Til Sturmer</i>
Long-Term Health Events and Healthcare Utilization After COVID-19 Hospitalization Among Children and Adults Insured by Medicaid, North Carolina, United States, 2020-2021 <i>Rachel Sendor, Sharon Peacock Hinton, Til Stürmer, Michele Jonsson Funk</i>
EHR Continuity in a Multicenter EHR Data Repository: Potential Implications for Studies Evaluating COVID-19 Therapy <i>Hythem Sidky, Jessica Young, Andrew Girvin, Eileen Lee, Kenneth Wilkins, Soko Setoguchi, Yu Shao, Michele Jonsson Funk</i>
Antihyperglycemic Use in Hemodialysis-Dependent Kidney Failure (86) <i>Til Stürmer, Klara Klein, Virginia Pate, Magdalene M. Assimon, John Buse, Jenny Flythe</i>
External Validation of a Machine Learning Algorithm to Distinguish Death from Disenrollment in Claims Data (148) <i>Bethany Diprete, Jessica Young, Nabarun Dasgupta, Kenneth Pack, Toska Cooper, Sarah Bloemers, Brian Pence, Debra E. Irwin, Teresa B. Gibson</i>
The Challenges with Identifying Pediatric Recurrent Wheezing in Real World Data <i>Jacob C Kahrs, Rennie Joshi, Nicole Cossrow, Georges Nahhas, Patricia Saddier</i>

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