

ICPE 2021

A L L A C C E S S

**Real
Evidence
for the
Real World.**

**August
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2021**

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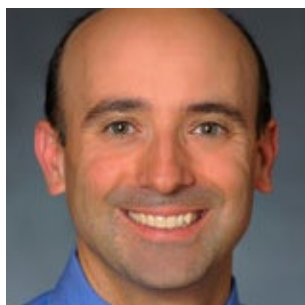
Contents

BOARD OF DIRECTORS 2020-2021	3
2021 ICPE SCIENTIFIC PROGRAM COMMITTEE	5
ISPE DEVELOPMENT COMMITTEE	5
CHAIRS & LIAISONS	6
STUDENT CHAPTERS	8
ORGANIZATIONAL & INSTITUTIONAL MEMBERS	9
ABSTRACT REVIEWERS	10
NEWCOMER TRACK REVIEWERS	11
NEW ISPE FELLOWS 2021	12
ICPE SPONSORS	13
2021 ISPE AWARDS	14
SCHEDULE AT-A-GLANCE	15
PROGRAM SCHEDULE	
MONDAY, AUGUST 23	16
TUESDAY, AUGUST 24	39
WEDNESDAY, AUGUST 25	53
SYMPOSIA / WORKSHOPS	76
ORAL SESSIONS	81
LIGHTNING SESSIONS	107
POSTER SESSIONS	115

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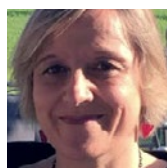
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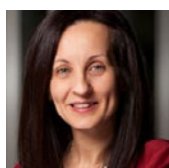
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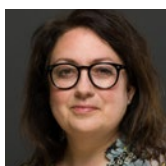
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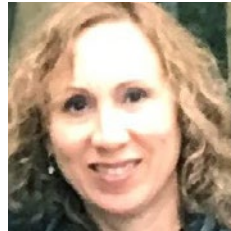
Congratulations to Our New Fellows



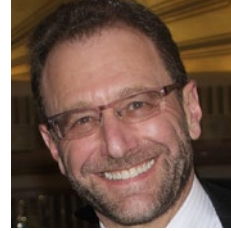
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Comparing the Risk of Venous Thromboembolism in Rheumatoid Arthritis Patients receiving Tofacitinib and TNF Inhibitors in Taiwan
Chin-Yao Shen

JOHN SNOW AWARD

Comparative Risk of Hospitalization for Heart Failure Among Patients with Xanthine Oxidase Inhibitors and Uricosuric Agents
Fang-Ju Lin

BEST METHODS ABSTRACT (STUDENT)

Characterizing Imbalance in the Tails of the Propensity Score Distribution
Bethany DiPret

BEST DRUG UTILIZATION RESEARCH ABSTRACT (STUDENT)

Prior Opioid Tolerance Among New Users of Transdermal Fentanyl in Taiwan, 2011-2018
Chih-Wan Lin

STANLEY A. EDLAVITCH AWARD (STUDENT)

Use of Low-Dose Quetiapine and the Risk of Major Adverse Cardiovascular Events
Mikkel Hoejlund

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In Utero Opioid Exposure and Risk of Infection in Childhood: A Multinational Nordic Cohort Study
Milada Mahic | Sonia Hernandez-Diaz | Millie Wood | Helle Kieler
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Bias in Case-Crossover Studies of Medications Due to Persistent Use: A Simulation Study

Katsiaryna Bykov | Shirley Wang | Jesper Hallas
Anton Pottegård | Malcom McClure | Joshua Gagne

Time-related Biases in Pharmacoepidemiology

Samy Suissa | Sophie Dell'Aniello

The Impact of Generic Aromatase Inhibitors on Initiation, Adherence and Persistence Among Women with Breast Cancer: Applying Multi-State Models to Understand the Dynamics of Adherence

Aaron Winn | Nicole Fergerstrom | Liliana Pezzin
Purushottam Lund | Joan Neuner

Outcome Misclassification: Impact, Usual Practice in Pharmacoepidemiology Database Studies and an Online Aid to Correct

Gillian Hall | Stephan Lanes | Kaatj Bollaerts
Xiaofeng Zhou | Germano Ferreira | Rosa Gini

Gastrointestinal Bleeding Risk with Rivaroxaban vs Aspirin in Atrial Fibrillation: A Multinational Study

Laura Fanning | Ian Wong | Esther Chan | Xue Li
Pajaree Mongkhon | Kenneth Man | Li Wei | Wai Leung
Peteris Darzins | Simon Bell | Jenni Ilomaki | Wallis Lau

Schedule at-a-Glance

MONDAY, AUGUST 23

8:00 - 10:00 AM
PLENARY

10:00 - 11:30 AM
**CONCURRENT
WORKSHOPS**

11:45 AM - 1:30 PM
**CONCURRENT ORAL
PRESENTATIONS**

1:45 - 3:30 PM
**CONCURRENT ORAL
PRESENTATIONS**

3:30 - 5:00 PM
**CONCURRENT
WORKSHOPS**

5:30 - 7:30 PM
**LIGHTNING
PRESENTATIONS**

8:00 - 9:30 PM
PLENARY *REPEATED*

TUESDAY, AUGUST 24

8:15 - 10:00 AM
PLENARY

10:00 - 11:30 AM
**CONCURRENT
WORKSHOPS**

11:45 AM - 1:15 PM
**CONCURRENT
WORKSHOPS**

1:45 - 3:30 PM
**CONCURRENT ORAL
PRESENTATIONS**

3:30 - 4:45 PM
**SPOTLIGHT
POSTERS**

5:15 - 6:30 PM
**SPOTLIGHT
POSTERS**

6:45 - 7:45 PM
**LIGHTNING
PRESENTATIONS**

8:00 - 9:30 PM
PLENARY *REPEATED*

WEDNESDAY, AUGUST 25

8:15 - 10:00 AM
PLENARY

10:00 - 11:30 AM
**CONCURRENT
WORKSHOPS**

11:45 AM - 1:30 PM
**CONCURRENT ORAL
PRESENTATIONS**

1:45 - 2:45 PM
**ANNUAL MEMBER
MEETING & AWARDS
CEREMONY**

3:00 - 6:00 PM
**CONCURRENT ORAL
PRESENTATIONS**

6:00 - 6:30 PM
CLOSING CEREMONY

8:00 - 9:30 PM
PLENARY *REPEATED*

Program Schedule

M O N D A Y , A U G U S T 23

All times in US Eastern

8:00 - 8:30 AM

WELCOME SESSION

Olaf Klungel – *President, International Society for Pharmacoepidemiology*

Syd Phillips – *Chair, ICPE Scientific Program Committee*

8:30 - 10:00 AM

PLENARY

Diversity, Equity, and Inclusion in Pharmacoepidemiology – The Role of Caste in Drug Utilization, Safety, and Therapeutic Risk Management

SPEAKERS

Whitney Robinson – *University of North Carolina at Chapel Hill*

Folakemi Odedina – *Mayo Clinic*

Macarius Donneyoung – *The Ohio State University*

John Jackson – *Johns Hopkins*

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

Big Data in Health and Bioethics: A Call for a Comprehensive, Multi-Disciplinary, ISPE Position

Benefit-Risk Assessment, Communication, and Evaluation (BRACE)

PRESENTERS

Edward Bortnichak – *Pharmacoepidemiology, Center for Observational and Real-World Evidence (CORE), Merck & Co., Inc.*

Solomon Iyasu – *Merck & Co. Inc.*

Patrick Ryan – *Janssen Research & Development*

Ameet Sarpatwari – *Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School*

Peter Arlett – *European Medicines Agency*

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

Outcome Measurements for External Comparator Arms: New Opportunities for Epidemiology Methods Application and Development

Methods in Pharmacoepidemiology

PRESENTERS

Joan Largent – *IQVIA*

Emily Brouwer – *Janssen*

Cynthia Gorman – *CEROb Consulting, LLC*

Christen Gray – *AstraZeneca*

Michele Jonsson Funk – *University of North Carolina at Chapel Hill*

Robert Glynn – *Harvard T. H. Chan School of Public Health*

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Kueiyu Joshua Lin – *Brigham and Women's Hospital*

Daniela Moga – *Department of Pharmacy Practice and Science, College of Pharmacy, University of Kentucky*

Sabina Nduaguba – *University of Florida*

Mary Prince Panaccio – *Research Outcomes Innovations*

Xuerong Wen – *University of Rhode Island, College of Pharmacy*

Richard Wyss – *Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA*

Hongbo Yuan – *Canadian Agency for Drugs and Technologies in Health*

Huifeng Yun – *Department of Epidemiology, University of Alabama at Birmingham*



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August 24-28, 2022
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Program Schedule

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

Polypharmacy: Problems and Solutions for Its Methodologic Challenges in Real-World Data
Methods in Pharmacoepidemiology

PRESENTERS

Amy Justice – US Department of Veterans Affairs
Christopher Rentsch – London School of Hygiene & Tropical Medicine; US Department of Veterans Affairs
Kirsha Gordon – VA CT Healthcare System
Jonathon Romero – Oak Ridge National Laboratory
Jordan Guillot – Université de Bordeaux
Vincent Lo Re – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, USA

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

Real World Data in the Era of COVID-19: The Devil in the Details. An ISPE RWE Task Force/ COVID-19 Workgroup Symposium

PRESENTERS

Montse Soriano Gabarro – Bayer AG
Dana Teltsch – Apellis
Mugdha Gokhale – Center for Observational and Real-world Evidence (CORE), Merck Research Laboratories
Paul Petraro – Head, RWE Analytic CoE, Boehringer-Ingelheim
Jeremy Rassen – Aetion, Inc.
Stephan Lanes – HealthCore Inc.
Soko Setoguchi – RWJ Medical School, Center for Pharmacoepidemiology and Treatment Science (PETS), Institute for Health, Health Care Policy and Aging Research
Daniel Prieto-Alhambra – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDORMS), University of Oxford, UK

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Confusion, Falls, and Fractures

Geriatric Pharmacoepidemiology
Risk of Falls Following the Initiation of Antihypertensives in the Elderly: A Self-Controlled Case Series in the UK

PRESENTING AUTHOR

Annika Jödicke – Pharmaco- and Device Epidemiology, Centre for Statistics in Medicine, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, UK

CO-AUTHORS

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Daniel Prieto-Alhambra – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDORMS), University of Oxford, UK

Geriatric Pharmacoepidemiology
Uncontrolled Pain and Risk for Depression and Behavioral Symptoms in Patients with Dementia

PRESENTING AUTHOR

Yu-Jung Wei – University of Florida College of Pharmacy

CO-AUTHOR

Almut Winterstein – Department of Pharmaceutical Outcomes and Policy and Center for Drug Evaluation and Safety, College of Pharmacy, University of Florida

Program Schedule

Geriatric Pharmacoepidemiology Use of Medications with Anticholinergic and Sedative Properties and Fall-Related Fractures Among Older Adults

PRESENTING AUTHOR

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Marc Pepin – Durham VA Geriatric Research Education and Clinical Center (GRECC), Durham, NC, USA

Janine Bailey – Durham VA Geriatric Research Education and Clinical Center (GRECC), Durham, NC, USA

Yvonne Golightly – Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Laura Hanson – Sheps Center for Health Services Research, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Til Stürmer – Department of Epidemiology, University of North Carolina at Chapel Hill, NC, USA

Rebecca Naumann – Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Danijela Gnjidic – Sydney Pharmacy School, Faculty of Medicine and Health, The University of Sydney, Australia

Jennifer Lund – Department of Epidemiology, University of North Carolina at Chapel Hill, NC, USA

Geriatric Pharmacoepidemiology Bisphosphonate Use and Risk of Severe Acute Kidney Injury: A Self-Controlled Case Series in Frail Elderly Patients in the UK

PRESENTING AUTHOR

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Geriatric Pharmacoepidemiology Risk of Delirium Associated with Antimuscarinics in Older Adults: A Case-Time-Control Study

PRESENTING AUTHOR

Prasad Nishtala – University of Bath

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

COVID-19 Epidemiology: Risk Factors, Drug Exposures, and Outcomes

Disease Epidemiology/Clinical Course
Severe Obesity is a Risk Factor for Mortality in Patients with COVID-19

PRESENTING AUTHOR

Aisling Caffrey – Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, USA

CO-AUTHORS

Jennifer Liao – Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, USA

Vrshali Lopes – Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, USA

Kerry LaPlante – Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, USA

Program Schedule

Disease Epidemiology/Clinical Course **Predictors of Critical Care, Mechanical Ventilation, and Mortality Among Hospitalized Patients with COVID-19 in an Electronic Health Record Database**

PRESENTING AUTHOR

Andrea Chomistek – Optum

CO-AUTHORS

Caihua Liang – Optum

Michael Doherty – Optum

Robin Clifford – Optum

Rachel Ogilvie – Optum

Robert Gately – Optum

Jennifer Song – Optum

Cheryl Enger – Optum, Boston, MA, USA

Nancy Lin – Health Catalyst

Florence Wang – Optum

John Seeger – Epidemiology, Optum, Boston, MA, USA

Disease Epidemiology/Clinical Course **Utilizing the National COVID Cohort Collaborative (N3C) to Evaluate Risk of Serious Outcomes with COVID-19 Among Chronically Immunosuppressed Persons**

PRESENTING AUTHOR

Kathleen Andersen – Johns Hopkins Bloomberg School of
Public Health

CO-AUTHORS

Emaan Rashidi – Johns Hopkins Bloomberg School of
Public Health

Huijun An – Johns Hopkins University

Hemalkumar Mehta – Johns Hopkins University

Derek Ng – Johns Hopkins Bloomberg School of Public Health

Brian Garibaldi – Johns Hopkins Medicine

Jodi Segal – Johns Hopkins University

G. Caleb Alexander – Johns Hopkins Center for Drug Safety and
Effectiveness

Disease Epidemiology/Clinical Course **Incidence and Risk Factors for COVID-Related Urgent Medical Visits Among US Patients Diagnosed With COVID-19 in the Outpatient Setting**

CO-AUTHORS

Wenhui Wei – Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA

Scott Mellis – Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA

Gregory Geba – Regeneron Pharmaceuticals, Inc.,
Tarrytown, NY, USA

Sumathi Sivapalasingam – Regeneron Pharmaceuticals, Inc.,
Tarrytown, NY, USA

PRESENTING AUTHOR

Jessica Jalbert – Regeneron Pharmaceuticals, Inc.,
Tarrytown, NY, USA

Disease Epidemiology/Clinical Course **Chronic Diseases, Health Conditions and Risk of COVID-19-Related Hospitalization and in-Hospital Mortality During the First Wave of the Epidemic in France: A Cohort Study of 66 Million People**

PRESENTING AUTHOR

Laura Semenzato – EPI-PHARE Scientific Interest Group in
Epidemiology of Health Products from the French National Agency
for the Safety of Medicines and Health Products and the French
National Health Insurance

CO-AUTHORS

Jérémy Botton – EPI-PHARE Scientific Interest Group in
Epidemiology of Health Products from the French National Agency
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National Health Insurance

Jérôme Drouin – EPI-PHARE Scientific Interest Group in
Epidemiology of Health Products from the French National Agency
for the Safety of Medicines and Health Products and the French
National Health Insurance

François Cuenot – EPI-PHARE Scientific Interest Group in
Epidemiology of Health Products from the French National Agency
for the Safety of Medicines and Health Products and the French
National Health Insurance

Rosemary Dray-Spira – EPI-PHARE, Epidemiology of Health
Products (French National Agency for the Safety of Medicines and
Health Products [ANSM], and French National Health Insurance
[CNAM]), Saint-Denis, France

Alain Weill – French National Health Insurance Fund
(Assurance Maladie)

Mahmoud Zureik – EPI-PHARE, Epidemiology of Health Products
(French National Agency for the Safety of Medicines and Health
Products, and French National Health Insurance)

Program Schedule

Drug Effectiveness

Convalescent Plasma Therapy and Mortality Among US Veterans Hospitalized with Non-Severe COVID-19: An Observational Analysis Emulating a Target Trial

PRESENTING AUTHOR

Katherine Kurgansky – MAVERIC, VA Boston Healthcare System

CO-AUTHORS

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Sarah Keithly – Seattle Epidemiologic Research and Information Center; VA Healthcare System

Arin Madenci – Harvard T.H. Chan School of Public Health

Hanna Gerlovin – MAVERIC; VA Boston Healthcare System

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Eva Thomas – Seattle Epidemiologic Research and Information Center; VA Healthcare System

Yojin Park – MAVERIC; VA Boston Healthcare system

Yuk-Lam Ho – VA Boston Healthcare System

Jonathan Sugimoto – Seattle Epidemiologic Research and Information Center; VA Healthcare System

Kathryn Moore – Seattle Epidemiologic Research and Information Center; VA Healthcare System

Alexander Peterson – Seattle Epidemiologic Research and Information Center; VA Healthcare System

Constance Hoag – MAVERIC; VA Boston Healthcare System

Kalpna Gupta – Veterans Administration Boston Healthcare System

Karen Jeans – Department of Veterans Affairs Office of Research and Development

Molly Klote – Department of Veterans Affairs Office of Research and Development

Rachel Ramoni – Department of Veterans Affairs Office of Research and Development

Grant Huang – Department of Veterans Affairs Office of Research and Development

Juan Casas – MAVERIC; VA Boston Healthcare System

David Gagnon – MAVERIC; VA Boston Healthcare System

Miguel Hernán – Departments of Epidemiology and Biostatistics, Harvard T.H. Chan School of Public Health

Nicholas Smith – Seattle Epidemiologic Research and Information Center; Department of Veterans Affairs

J. Michael Gaziano – MAVERIC; VA Boston Healthcare System

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Drug Utilization in Pain and Musculoskeletal Conditions

Drug Utilization Research

Utilization of Non-Pharmacologic Pain Therapies Among Primary Care Physicians in the United States: A Cross-Sectional Survey

PRESENTING AUTHOR

James Heyward – Johns Hopkins Center for Drug Safety and Effectiveness

CO-AUTHORS

Kathryn Foti – Johns Hopkins Center for Drug Safety and Effectiveness

Matthew Tajanlangit – Johns Hopkins Center for Drug Safety and Effectiveness

Kristin Meek – Johns Hopkins Center for Drug Safety and Effectiveness

Christopher Jones – Centers for Disease Control and Prevention

Andrew Kolodny – Brandeis University

G. Caleb Alexander – Johns Hopkins Center for Drug Safety and Effectiveness

Drug Utilization Research

Prevalence of Osteoporosis and Its Treatment Among Women ≥50 in NHANES: 1999-2018

PRESENTING AUTHOR

Sophie Mayer – Department of Epidemiology, University of North Carolina at Chapel Hill

CO-AUTHORS

Leah McGrath – Novartis, Inc.

Min Kim – Center for Observational Research, Amgen

Michele McDermott – Center for Observational Research, Amgen

M. Alan Brookhart – Novartis, Inc.

Program Schedule

Drug Utilization Research Serum Vitamin D Levels and Incident Prescription Opioid Use Among Opioid-Naïve Patients

PRESENTING AUTHOR

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CO-AUTHORS

Zuoyi Zhang – Indiana University School of Medicine, Indianapolis, IN

Yiqing Song – Department of Epidemiology, Richard M. Fairbanks School of Public Health, Indiana University, Indianapolis, IN

Brian Dixon – Department of Epidemiology, IU Fairbanks School of Public Health

Jiali Han – Department of Epidemiology, Richard M. Fairbanks School of Public Health, Indiana University, Indianapolis, IN

Xin Li – Department of Epidemiology, Richard M. Fairbanks School of Public Health, Indiana University, Indianapolis, IN

Biologics/Biosimilars

Discontinuation Rate of Tofacitinib is Similar When Compared to TNF Inhibitors in Rheumatoid Arthritis Patients: Data from A Rheumatoid Arthritis Cohort

PRESENTING AUTHOR

Mohammad Movahedi – Toronto General Hospital Research Institute, University Health Network, Toronto, ON

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Program Schedule

Drug Utilization Research
Primary Care Physicians' Preparedness to Treat Opioid Use Disorder in the United States: A Cross-Sectional Survey

PRESENTING AUTHOR

Kathryn Foti – Johns Hopkins Center for Drug Safety and Effectiveness

CO-AUTHOR

James Heyward – Johns Hopkins Center for Drug Safety and Effectiveness

Matthew Tajanlangit – Johns Hopkins Center for Drug Safety and Effectiveness

Kristin Meek – Johns Hopkins Center for Drug Safety and Effectiveness

Christopher Jones – Centers for Disease Control and Prevention

Andrew Kolodny – Brandeis University

G. Caleb Alexander – Johns Hopkins Center for Drug Safety and Effectiveness

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Heterogeneity in Methods

Methods in Pharmacoepidemiology
A New Method to Estimate the Total Cohort Size for Patient Recruitment in Self-Controlled Case Series Study

PRESENTING AUTHOR

Ling Li – Pfizer, Inc.

CO-AUTHORS

Stephen E. Schachterle – Pfizer, Inc.

Charles Wentworth – Pfizer, Inc.

Heather Rubino – Pfizer, Inc.

Ann Madsen – Pfizer, Inc.

Xiaofeng Zhou – Pfizer, Inc.

Methods in Pharmacoepidemiology
Sessa Empirical Estimator (SEE): A Data-Driven Method for Predicting the Duration of Pharmacological Prescriptions in Secondary Data Sources.

PRESENTING AUTHOR

Maurizio Sessa – Pharmacovigilance Research Center, Department of Drug Design and Pharmacology, University of Copenhagen

Methods in Pharmacoepidemiology
Graphical Representation of an Array of Quantitative Bias Analysis Scenarios for Differential Outcome Misclassification

PRESENTING AUTHOR

J. Bradley Layton – RTI Health Solutions

CO-AUTHORS

Ryan Ziemiecki – RTI Health Solutions

Heather E. Danysh – RTI Health Solutions

Charles Gaber – University of North Carolina at Chapel Hill

Alicia Gilseman – RTI Health Solutions

Catherine Johannes – RTI Health Solutions

Methods in Pharmacoepidemiology
The Performance of Different Strategies to Manage Confounding in Cardinality Matching for Medical Device Epidemiology: A Simulation Study

PRESENTING AUTHOR

Mike Du – University of Oxford

CO-AUTHORS

Sara Khalid – University of Oxford

Daniel Prieto-Alhambra – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDROMS), University of Oxford, Oxford, UK

Victoria Strauss – University of Oxford

Methods in Pharmacoepidemiology
Use of Linked Databases for Improved Confounding Control: Considerations for Potential Selection Bias

PRESENTING AUTHOR

Jenny Sun – Harvard Medical School and Harvard Pilgrim Health Care Institute

CO-AUTHOR

Sengwee Toh – Harvard Medical School and Harvard Pilgrim Health Care Institute

Methods in Pharmacoepidemiology
A Systematic Approach Towards Missing Lab Data in Electronic Health Records: A Case Study in Non-Small Cell Lung Cancer and Multiple Myeloma

CO-AUTHORS

Janick Weberpals – Real World Data Collaborations, Personalized Healthcare Data Science, F. Hoffmann-La Roche, Basel, Switzerland

Arjun Sondhi – Flatiron Health, Inc., New York City, NY, USA

Chengsheng Jiang – Flatiron Health, Inc., New York City, NY, USA

Prakirithi Yerram – Flatiron Health, Inc., New York City, NY, USA

Program Schedule

Michael Taylor – Real World Data Collaborations, Personalized Healthcare Data Science, Genentech Inc., South San Francisco, CA, USA

Meghna Samant – Flatiron Health, Inc., New York City, NY, USA
PRESENTING AUTHOR

Sarah Cherng – Flatiron Health, Inc., New York City, NY, USA

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Pregnancy: Wood for the trees

Pregnancy and Lactation

Implication of Maternal Continuous Enrollment on Stillbirth Gestational Age Distributions and Maternal Characteristics in Medicaid Enrollees

PRESENTING AUTHOR

Thuy Thai – Department of Pharmaceutical Outcomes and Policy and Center for Drug Evaluation and Safety, College of Pharmacy, University of Florida

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Sabina Nduaguba – University of Florida

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Krista Huybrechts – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Sonia Hernandez-Diaz – Harvard T.H. Chan School of Public Health

Almut Winterstein – Department of Pharmaceutical Outcomes and Policy and Center for Drug Evaluation and Safety, College of Pharmacy, University of Florida

Pregnancy and Lactation

Feasibility of Using Healthcare Utilization Data to Identify Neurodevelopmental Disorders for Transgenerational Pharmacoepidemiology

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Helen Mogun – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Krista Huybrechts – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Pregnancy and Lactation

Validating an Optimized Live Birth Gestational Age Algorithm in a Nationwide Medicaid Sample and Quantifying the Misclassification of Exposure due to Estimated Gestational Age

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Yandong Qiang – Center for Drug Evaluation and Research, United States Food and Drug Administration

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Program Schedule

Pregnancy and Lactation

Statistical Power for Use of Tree-Based Scan Statistics for Surveillance of Infant Outcomes Following Maternal Perinatal Medication Use

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Talia Menzin - Department of Population Medicine, Harvard Pilgrim Health Care Institute and Harvard Medical School, Boston, MA, USA

Jennifer Noble - Department of Population Medicine, Harvard Pilgrim Health Care Institute and Harvard Medical School, Boston, MA, USA

Judith Maro - Department of Population Medicine, Harvard Pilgrim Health Care Institute and Harvard Medical School, Boston, MA, USA

Pregnancy and Lactation

Use of Tree-Based Scan Statistics for Surveillance of Infant Outcomes Following Maternal Perinatal Medication Use: A Propensity Score Matched Case Study

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Judith Maro - Department of Population Medicine, Harvard Pilgrim Health Care Institute and Harvard Medical School, Boston, MA, USA

Program Schedule

Pregnancy and Lactation

Fertility Rates in Women with Psoriasis and Psoriatic Arthritis: A Population-Based Cohort Study

PRESENTING AUTHOR

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Christopher Griffiths – Dermatology Centre, Salford Royal NHS Foundation Trust, Manchester Academic Health Science Centre, University of Manchester, UK

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Pediatric Pharmacoepidemiology

Filled Prescriptions for Opioids Among Children and Adolescents – A Nationwide Study from 2010 to 2018

PRESENTING AUTHOR

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Olav Fredheim – Norwegian University of Science and Technology

Thomas Clausen – University of Oslo

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Svetlana Skurtveit – Department of Mental Disorders, Norwegian Institute of Public Health, Oslo, Norway

Drug Utilization Research

Trends and Outcomes of Serious Complications Associated with Non-Fatal Opioid Overdoses in Ontario, Canada

PRESENTING AUTHOR

Sophie Kitchen – Unity Health Toronto

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Daniel McCormack – ICES

Daniel Werb – Unity Health Toronto

Alexander Caudarella – Unity Health Toronto

Diana Martins – Unity Health Toronto

Flora Matheson – Unity Health Toronto

Tara Gomes – Unity Health Toronto

1:45 – 3:30 PM

ORAL SESSIONS / CONCURRENT

Opioids:

A Globally Trending Topic

Drug Utilization Research

Trends in Long-Term Use of Prescribed Opioids in Norway 2010-2019

PRESENTING AUTHOR

Ingvild Odsbu – Department of Mental Disorders, Norwegian Institute of Public Health, Oslo, Norway

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Svetlana Skurtveit – Department of Mental Disorders, Norwegian Institute of Public Health, Oslo, Norway



Program Schedule

Drug Utilization Research

Geographic Variation in the Use of Gabapentinoids and Opioids for Pain in a Commercially Insured Population in the United States

PRESENTING AUTHOR

Danni Zhao – Division of Epidemiology, Department of Population and Quantitative Health Sciences, University of Massachusetts Medical School

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Anne Hume – University of Rhode Island

Anthony Nunes – Division of Epidemiology, Department of Population and Quantitative Health Services, University of Massachusetts Medical School

Matthew Alcusky – Division of Epidemiology, Department of Population and Quantitative Health Services, University of Massachusetts Medical School

Kate Lapane – Division of Epidemiology, Department of Population and Quantitative Health Services, University of Massachusetts Medical School

Drug Utilization Research

Trajectories of Pregabalin Use and Their Association with Longitudinal Changes in Opioid and Benzodiazepine Daily Dose

PRESENTING AUTHOR

Andrea Schaffer – Centre for Big Data Research in Health, UNSW Sydney

CO-AUTHORS

Jonathan Brett – Centre for Big Data Research in Health, University of New South Wales

Nicholas Buckley – Biomedical Informatics and Digital Health, University of Sydney

Sallie-Anne Pearson – Centre for Big Data Research in Health, University of New South Wales

Drug Utilization Research

Prior Opioid Tolerance Among New Users of Transdermal Fentanyl in Taiwan, 2011-2018

PRESENTING AUTHOR

Chih-Wan Lin

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Wei-I Huang – Taiwan Drug Relief Foundation, Taipei, Taiwan

Pi-Hui Chao – Taiwan Drug Relief Foundation, Taipei, Taiwan

Wen-Wen Chen – Taiwan Drug Relief Foundation, Taipei, Taiwan

Fei-Yuan Hsiao – Graduate Institute of Clinical Pharmacy, National Taiwan University, Taipei, Taiwan

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

Pregnancy: Pick-n-mix

Pregnancy and Lactation

Prescription Medication Use and Baseline Health Status of Women with Live Birth Deliveries in a National Data Network: The Sentinel Distributed Database Mother-Infant Linkage Table

PRESENTING AUTHOR

Elizabeth Suarez – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

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Aaron Hansbury – Department of Population Medicine, Harvard Pilgrim Health Care Institute and Harvard Medical School, Boston, MA, USA

Danijela Stojanovic – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration, Silver Spring, MD, USA

Catherine Corey – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Silver Spring, MD, USA

Pregnancy and Lactation

Increasing Prescriptions of Misoprostol Dispensed Before Delivery in Belgium (2003-2017): Evidence from Healthcare Administrative Database

PRESENTING AUTHOR

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Güngör Karakaya – Agence Intermutualiste (IMA), Bruxelles, Belgium

Christine Damase-Michel – Université de Toulouse, UPS, CHU Toulouse, INSERM, CERPOP: SPHERE, CIC 1436, Toulouse

Fati Kirakoya-Samadoulougou – Centre de Recherche Epidémiologie, Biostatistiques, Recherche Clinique, School of Public Health, Université Libre de Bruxelles (U.L.B.), Bruxelles, Belgium

Program Schedule

Pregnancy and Lactation Effects of Gadolinium-Enhanced MRI Exposure During Pregnancy on Neonatal Intensive Care Unit Admission

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Steven Bird – Division of Epidemiology, Office of Pharmacovigilance and Epidemiology, Food and Drug Administration

Ira Krefting – Division of Imaging and Radiation Medicine, Office of New Drugs, Food and Drug Administration

Sonja Rasmussen – College of Medicine, University of Florida

Almut Winterstein – Department of Pharmaceutical Outcomes and Policy and Center for Drug Evaluation and Safety, College of Pharmacy, University of Florida

Pregnancy and Lactation Proton Pump Inhibitors in Pregnancy and Risk of Preeclampsia: A Nationwide Cohort Study of 1.9 Million Pregnancies

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So-Hee Park – School of Pharmacy, Sungkyunkwan University

Seung-Ah Choe – Department of Preventive Medicine, Korea University College of Medicine

Ju-Young Shin – School of Pharmacy, Sungkyunkwan University (SKKU)

Pregnancy and Lactation Validity of ICD-10 Z3A Codes for Estimating Date of Last Menstrual Period

PRESENTING AUTHOR

Andrea Chomistek – Optum

CO-AUTHORS

Kelesitse Phiri – GlaxoSmithKline

Jenna Calderbank – Optum

Michael Doherty – Optum

Stephanie Chiuve – AbbVie

Brenda Hinman-McIlroy – AbbVie

Michael Snabes – AbbVie, Inc.

John Seeger – Epidemiology, Optum, Boston, MA, USA

Pregnancy and Lactation COVID-19 Pharmacotherapy During Pregnancy: International Registry of Coronavirus Exposure in Pregnancy (IRCEP)

PRESENTING AUTHOR

Sonia Hernandez-Diaz – Harvard T.H. Chan School of Public Health

CO-AUTHORS

Louisa Smith – Harvard TH Chan School of Public Health

Diego Wyszynski – Registry

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

The Aging Heart

Benefit-Risk Assessment, Communication, and Evaluation (BRACE)

Risk of Myocardial Infarction, Stroke or Death in New Users of Intravitreal Aflibercept vs New Users of Intravitreal Ranibizumab: A Nationwide Cohort Study

PRESENTING AUTHOR

Sophie Billioti de Gage – EPI-PHARE, Epidemiology of Health Products (French National Agency for the Safety of Medicines and Health Products, and French National Health Insurance)

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Mahmoud Zureik – EPI-PHARE, Epidemiology of Health Products (French National Agency for the Safety of Medicines and Health Products, and French National Health Insurance)

Program Schedule

Geriatric Pharmacoepidemiology
Statin Discontinuation and Risk of Cardiovascular Events in Older People: A Population-Based Cohort Study in Denmark

PRESENTING AUTHOR

Wade Thompson – University of Southern Denmark

CO-AUTHORS

Lucas Morin – Inserm CIC 1431, Clinical Investigation Unit, University Hospital of Besançon

Dorte Ejg Jarbøl – University of Southern Denmark

Jacob Andersen – University of Southern Denmark

Martin Ernst – University of Southern Denmark

Jesper Nielsen – University of Southern Denmark

Peter Haastrup – University of Southern Denmark

Morten Schmidt – Aarhus University Hospital

Anton Pottegård – University of Southern Denmark

Geriatric Pharmacoepidemiology
Assessment of Co-Medication Quality in Older Colorectal Cancer Patients at Hospital Discharge After Tumor Surgery and Its Associations with Chemotherapy-Related Adverse Drug Reactions and 5-Year Survival

PRESENTING AUTHOR

Li-Ju Chen – Division of Clinical Epidemiology and Aging Research, German Cancer Research Center (DKFZ)

CO-AUTHOR

Ben Schöttker – Division of Clinical Epidemiology and Aging Research, German Cancer Research Center (DKFZ)

Geriatric Pharmacoepidemiology
Comparative Risk of Cardiac Arrhythmias Associated with Acetylcholinesterase Inhibitor Use

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David Juurlink – Department of Medicine, University of Toronto

Mhd. Wasem Alsabbagh – School of Pharmacy, University of Waterloo

Geriatric Pharmacoepidemiology
Risk of Cardiotoxicity Associated with Fluoropyrimidine-Based Chemotherapy Among Older Colorectal Cancer Patients: A New User Cohort Study

PRESENTING AUTHOR

Chao Li – Auburn University

CO-AUTHORS

Chiahung Chou – Auburn University

Surachat Ngorsuraches – Auburn University

Li Chen – Indiana University

Jingjing Qian – Auburn University

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

Trials and Errors

Methods in Pharmacoepidemiology
Using Randomized Trial Data to Estimate Effects of Complex Treatment Regimens in Real-World Patients

PRESENTING AUTHOR

Michael Webster-Clark – University of North Carolina at Chapel Hill

CO-AUTHORS

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Hanna Sanoff – University of North Carolina at Chapel Hill
 Department of Medicine

Til Stürmer – Department of Epidemiology, University of North Carolina at Chapel Hill

Daniel Westreich – University of North Carolina at Chapel Hill

Alexander Keil – University of North Carolina at Chapel Hill

Methods in Pharmacoepidemiology
A Plasmode Simulation of Covariate Misclassification and Transportability

PRESENTING AUTHOR

Michael Webster-Clark – University of North Carolina at Chapel Hill

CO-AUTHOR

Jessie Edwards – Department of Epidemiology, University of North Carolina at Chapel Hill

Program Schedule

Methods in Pharmacoepidemiology
The Effect of the Anticholinergic Properties of Antidepressants on the Incidence of Dementia: A Target Trial Emulation

PRESENTING AUTHOR

Joan Forns – RTI Health Solutions

CO-AUTHORS

Jaume Aguado – RTI Health Solutions

Elena Rivero-Ferrer – RTI Health Solutions

Estel Plana – RTI Health Solutions

Barbra Dickerman – Harvard T.H. Chan School of Public Health

Xabier Garcia de Albeniz – RTI Health Solutions

Methods in Pharmacoepidemiology
Stable Balancing Weights for Unanchored Matching-Adjusted Indirect Comparisons and Targeting External Control Arm Estimands

PRESENTING AUTHOR

Stephen Johnston – Johnson & Johnson

CO-AUTHORS

Harikumar Dwarakanathan – Mu Sigma

Jason Waggoner – Johnson & Johnson

Michael Schwieters – Johnson & Johnson

Sanjoy Roy – Johnson & Johnson

Paul Coplan – Johnson & Johnson

Methods in Pharmacoepidemiology
Linear Mixed Model and Multistate Markov Model to Compare Changes in Clinical Measurements Over Time. A Blood Pressure Example.

CO-AUTHORS

Arthur Allignol – Merck KGaA, Darmstadt, Germany

Emmanuelle Boutmy – Merck KGaA Darmstadt, Germany

Thilo hohenberger – Merck KGaA, Darmstadt, Germany

Ulrike Hostalek – Merck KGaA, Darmstadt, Germany

PRESENTING AUTHOR

Caroline Foch – Merck KGaA Darmstadt, Germany

Methods in Pharmacoepidemiology
Rank-Based Weighting for Balancing on Median Baseline Characteristics in Matching Adjusted Indirect Comparisons (MAIC)

PRESENTING AUTHOR

Shirley Liao – Biogen

CO-AUTHORS

Carl de Moor – Biogen

Angela D Paradis – Biogen

Justin Bohn – Biogen

Changyu Shen – Biogen

Gabrielle Simoneau – Biogen

Fabio Pellegrini – Biogen

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

Vaccines

Vaccines

Evaluation of the Potential Confounding Effect of Shingles on the Risk of Guillain-Barré Syndrome After Vaccination with the Recombinant Zoster Vaccine

PRESENTING AUTHOR

Francois Haguinet – GSK

CO-AUTHORS

Paola Pirrotta – GSK

Vincent Bauchau – GSK

Program Schedule

Vaccines

Sensitivity Analysis of Design Choices for Estimating Incidence Rates of Adverse Events of Special Interest in Vaccine Safety

PRESENTING AUTHOR

Anna Ostropelets – Department of Biomedical Informatics, Columbia University Irving Medical Center

CO-AUTHORS

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Gowtham Rao – Janssen Research and Development

Martijn Schuemie – Janssen Research and Development

Anthony Sena – Janssen Research and Development

Azza Shoaibi – Janssen Research and Development

Talita Duarte-Salles – Fundació Institut Universitari per a la recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol)

Patrick Ryan – Janssen Research & Development

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George Hripcsak – Department of Biomedical Informatics, Columbia University Irving Medical Center

Vaccines

Effectiveness of Influenza Vaccination in Healthy Children: A Population-Based Investigation

PRESENTING AUTHOR

Anna Cantarutti – Unit of Biostatistics, Epidemiology and Public Health, Department of Statistics and Quantitative Methods, University of Milano-Bicocca, Milan, Italy

CO-AUTHORS

Elisa Barbieri – Division of Paediatric Infectious Diseases - Department for Woman and Child's Health – University of Padua

Fabio Didone – Department of Statistics and Quantitative Methods, Division of Biostatistics, Epidemiology and Public Health, University of Milano-Bicocca, Milan, Italy

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- Survey Research
- External Control Arms for Clinical Trials

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Program Schedule

Giovanni Corrao – Unit of Biostatistics, Epidemiology and Public Health, Department of Statistics and Quantitative Methods, University of Milano-Bicocca, Milan, Italy

Carlo Giaquinto – Division of Pediatric Infectious Diseases, Department for Woman and Child Health, University of Padua, Padua, Italy

Vaccines

Background Incidence Rates of Adverse Events of Special Interest for COVID-19 Vaccine Monitoring

PRESENTING AUTHOR

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CO-AUTHORS

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Ainara Mira-Iglesias – Fisabio

Tania Schink – Leibniz Institute for Prevention Research and Epidemiology – BIPS GmbH

Patrick Souverein – Division of Pharmacoepidemiology and Clinical Pharmacology, Utrecht Institute for Pharmaceutical Sciences, Utrecht University

Lei Wang – Aarhus

Elisa Barbieri – Division of Paediatric Infectious Diseases - Department for Woman and Child's Health - University of Padua

Claudia Bartolini – Agenzia Regionale di Sanità della Toscana

Olga Paoletti – Agenzia Regionale di Sanità della Toscana

Nicolas Thurin – Univ. Bordeaux, INSERM CIC-P 1401, Bordeaux PharmacoEpi, Bordeaux

Luca Stona – Penta Foundation

Carlos Vergara-Hernández – Fisabio

Vera Ehrenstein – Department Of Clinical Epidemiology, Aarhus University, Aarhus, Denmark

Mar Martin – aemps

Airam de Burgos – aemps

Reimar Thomsen – Department of Clinical Epidemiology, Aarhus University, Aarhus, Denmark

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Felipe Villalobos – Fundació Institut Universitari per a la recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol), Barcelona, Spain

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Bonaventura Bolibar – Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol), Barcelona, Spain

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Daniel Weibel – Department Datascience & Biostatistics, University Medical Center Utrecht

Miriam Sturkenboom – Department Datascience & Biostatistics, University Medical Center Utrecht

Vaccines

Vaccination and Acute Flares in Multiple Sclerosis: A Nationwide Case-Crossover Study Using the French SNDS Health Care Databases

PRESENTING AUTHOR

Lamiae Grimaldi-Bensouda – APHP Paris-Saclay University

CO-AUTHORS

Yann Hamon – Re-Meds France

Philippe Attias – Re-Meds France

Tom Duchemin – Re-Meds France

Lucien Abenham – London School of Hygiene & Tropical Medicine

Yola Moride – Faculty of Pharmacy, Université de Montréal, Montreal, QC, Canada

3:30 - 5:00 PM

WORKSHOP / CONCURRENT

COVID-19 Confidential: Enabling Trust In COVID-19 Research with Fit for Purpose Real-World Data

Methods in Pharmacoepidemiology

PRESENTERS

Nicolle Gatto – Aetion, Inc.

Jessica Franklin – Optum

Elizabeth Garry – Aetion, Inc.

David Martin – Moderna

Aloka Chakravarty – Food and Drug Administration

Jeremy Rassen – Aetion, Inc.

Program Schedule

3:30 - 5:00 PM

WORKSHOP / CONCURRENT

Drug Utilization Research in Africa: Challenges and Potential Solutions

Drug Utilization Research

PRESENTERS

Maribel Salas – Clinical Safety and Pharmacovigilance, Daiichi Sankyo Inc Basking Ridge, NJ and CCEB/CPeRT, University of Pennsylvania Perelman School of Medicine

Johanita Burger – Medicine Usage in South Africa (MUSA), North-West University

Laura Horne – Clinical Safety and Pharmacovigilance, Daiichi Sankyo Inc Basking Ridge

Johanna Meyer – Division of Public Health Pharmacy and Management, School of Pharmacy, Sefako Makgatho Health Sciences University

Ilse Truter – Nelson Mandela University

Disease Epidemiology/Clinical Course

Comparing Outcomes in Trial-Eligible vs Real-World COVID-19 Patients: The Case of Invasive Mechanical Ventilation

PRESENTING AUTHOR

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CO-AUTHORS

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Maria Kempner – Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute

Joy Kolonoski – Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute

Sarah Dutcher – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration

Brian Kit – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration

3:30 - 5:00 PM

WORKSHOP / CONCURRENT

Triangulating the Truth: State-of-the-Art Sensitivity Analyses for Observational Research

Methods in Pharmacoepidemiology

PRESENTERS

Marianne Cunningham – Glaxosmithkline

Ian Douglas – London School of Hygiene & Tropical Medicine

Jeremy Brown – London School of Hygiene and Tropical Medicine

Sonia Hernandez-Diaz – Harvard T.H. Chan School of Public Health

Daina Esposito – Boston University School of Public Health

Wilhelmine Meerhaus – Glaxosmithkline

Disease Epidemiology/Clinical Course

Outpatient-Identified COVID-19 and Subsequent Hospitalized Thrombotic Events

PRESENTING AUTHOR

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CO-AUTHORS

Ashley Martinez – Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute

Mayura Shinde – Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute

Maria Kempner – Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute

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Sarah Dutcher – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration

Brian Kit – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration

5:30 - 6:30 PM

LIGHTNING SESSION 1

Disease Epidemiology/Clinical Course

Use of Remdesivir for COVID-19 in the Real World: An Analysis of US Electronic Medical Records

PRESENTING AUTHOR

Julius Asubonteng – Gilead Science, Inc.

CO-AUTHORS

Sara Haredasht – Gilead Science, Inc.

Seth Kuranz – Trinetx, Inc.

Anand Chokkalingam – Gilead Science, Inc.

Program Schedule

Disease Epidemiology/Clinical Course **Patients Tell All: Using a Direct-to-Patient Community Registry to Understand Patient Burden of COVID-19**

PRESENTING AUTHOR

Emma Brinkley – IQVIA

CO-AUTHORS

Christina Mack – IQVIA

Natalia Petruski-Ivleva – IQVIA

Matthew Reynolds – IQVIA

Alison Bourke – IQVIA

Kalyani Hawaldar – IQVIA

Nancy Dreyer – IQVIA

Methods in Pharmacoepidemiology **Marginal Structural Models with Latent Class Growth Modeling of Time-varying Treatment**

CO-AUTHORS

Awa Diop – Department of Social and Preventive Medicine, Laval University

Denis Talbot – Department of Social and Preventive Medicine, Laval University

PRESENTING AUTHOR

Caroline Sirois – Faculty of pharmacy, Laval University

Methods in Pharmacoepidemiology **Residual Bias and Indirect Covariate Balance in an Applied Comparison of Large-Scale Propensity Score and Cardinality Matching**

PRESENTING AUTHOR

Stephen Fortin – Janssen, Research and Development

CO-AUTHORS

Stephen Johnston – Johnson & Johnson

Martijn Schuemie – Janssen Research and Development

Methods in Pharmacoepidemiology **Characterizing Imbalance in the Tails of the Propensity Score Distribution**

PRESENTING AUTHOR

Bethany DiPrete – Injury Prevention Research Center, University of North Carolina at Chapel Hill

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Cynthia Girman – CERobs Consulting, LLC

Panagiotis Mavros – Janssen Pharmaceutical Companies of J&J

Alexander Breskin – Novartis Inc.

M. Alan Brookhart – Novartis Inc.

Methods in Pharmacoepidemiology **High-Dimensional Propensity Score Approaches in Stata Using the Hdps Suite of Commands**

PRESENTING AUTHOR

John Tazare – London School of Hygiene & Tropical Medicine

CO-AUTHORS

Liam Smeeth – London School of Hygiene & Tropical Medicine

Stephen Evans – London School of Hygiene & Tropical Medicine

Ian Douglas – London School of Hygiene & Tropical Medicine

Elizabeth Williamson – London School of Hygiene & Tropical Medicine

Drug Utilization Research **Patterns of Antibiotic Prescription Among Adult Outpatients in Italy**

PRESENTING AUTHOR

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Program Schedule

Drug Utilization Research
**Determinants of Antimalarial Prescription Patterns
 Among Health Care Providers in Public Health
 Facilities in Uasin Gishu County, Kenya**

PRESENTING AUTHOR

Henry Amdany – Moi university

CO-AUTHORS

Wendy O'Meara – Moi university

Gabriel kigen – Moi university

Drug Utilization Research
**Co-Utilization of Opioids and Non-Benzodiazepine
 Sedative Hypnotics in U.S. Ambulatory Care Visits,
 2006-2016**

PRESENTING AUTHOR

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Scott Vouri – Department of Pharmaceutical Outcomes and Policy,
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Drug Utilization Research
**Early Uptake of New Molecular Entities Approved
 in 2017 in a Multisite National US Healthcare
 Data Network**

PRESENTING AUTHOR

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 Harvard Medical School and Harvard Pilgrim Health Care Institute

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 for Drug Evaluation and Research, U.S. Food and Drug Administration

Michael Nguyen – Office of Surveillance and Epidemiology, Center
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 Silver Spring, MD

Drug Effectiveness
**Comparative Effectiveness of Bevacizumab
 vs Cetuximab in Patients with Metastatic
 Colorectal Cancer**

PRESENTING AUTHOR

Yi-Chia Su – Department of Pharmacy, Kaohsiung Veterans
 General Hospital

CO-AUTHORS

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Chih-Chien Wu – Division of Colorectal Surgery, Department of
 Surgery, Kaohsiung Veterans General Hospital

Chien-Chou Su – Institute of Clinical Pharmacy and
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 Kung University

Drug Effectiveness
**Efficacy-Effectiveness Gap for Standard First-Line
 Treatment of Metastatic Non-Small Cell Lung Cancer
 Among Patients with Barriers to Care**

PRESENTING AUTHOR

Rohit Ojha – JPS Center for Outcomes Research

CO-AUTHORS

Yan Lu – JPS Center for Outcomes Research

Kalyani Narra – JPS Oncology & Infusion Center

Rachel Meadows – JPS Center for Outcomes Research

Aaron Gehr – JPS Center for Outcomes Research

Bassam Ghabach – JPS Oncology & Infusion Center

Drug Effectiveness
**Acute Kidney Injury in Patients with Atrial
 Fibrillation Treated with Rivaroxaban or Warfarin:
 A Population-Based Study in the United Kingdom**

PRESENTING AUTHOR

Antonio González Pérez – Spanish Centre for
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CO-AUTHORS

Yanina Balabanova – Bayer AG

María Saez – Spanish Centre for Pharmacoepidemiologic Research

Gunnar Brobert – Bayer AB

Luis Alberto García Rodríguez – CEIFE (Centro Español de
 Investigación Farmacoepidemiológica)

Program Schedule

Drug Effectiveness

Long-Acting Insulin Analogs Versus Intermediate-Acting Insulin and the Risk of Major Adverse Cardiovascular Events Among Patients with Type 2 Diabetes in the United Kingdom

PRESENTING AUTHOR

Vanessa Brunetti – Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montreal, Quebec, CA

CO-AUTHORS

Oriana Yu – Department of Endocrinology, Jewish General Hospital, Montreal, Quebec, CA

Robert Platt – Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montreal, Quebec, CA

Kristian Fillion – Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montreal, Quebec, CA

6:30 - 7:30 PM

LIGHTNING SESSION 2

Drug Utilization Research

Changes in Purchases of Intensive Care Medicines During COVID-19 in Developed vs Developing Countries

PRESENTING AUTHOR

Katherine Callaway – University of Pittsburgh School of Medicine

CO-AUTHORS

Mina Tadrous – Women's College Research Institute, Women's College Hospital

Sandra Kane-Gill – University of Pittsburgh School of Pharmacy

Ian Barbash – University of Pittsburgh School of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine

Katie Suda – University of Pittsburgh School of Medicine

Methods in Pharmacoepidemiology

Collider Bias in COVID-19 Studies: Explaining the Smoking Paradox

PRESENTING AUTHOR

Natalia Petruski-Ivleva – IQVIA

CO-AUTHORS

Alice Joules – IQVIA

Michael Warner – IQVIA

Patrick Long – IQVIA

Aidan Cooper – IQVIA

Nancy Dreyer – IQVIA

Health Economics/Outcomes Research

The Prevalence of Hyperkalemia and Associated Clinical Characteristics and Outcomes Among Hospitalized COVID-19 Patients

PRESENTING AUTHOR

Rena Moon – Premier Applied Sciences, Premier, Inc.

CO-AUTHORS

Abiy Agiro – AstraZeneca Payer Evidence

Ning Rosenthal – Premier Applied Sciences, Premier, Inc.

Harold Brown – Premier Applied Sciences, Premier, Inc.

Randall Legg – AstraZeneca Payer Medical

Alpesh Amin – University of California, Irvine

Pharmacovigilance

Off-Label Use of Potential Pharmacological Treatment for COVID-19: An Intensive Pharmacovigilance in Peru

PRESENTING AUTHOR

L. Yesenia Rodriguez – ESSALUD

CO-AUTHORS

Héctor Garavito – ESSALUD

Enrique Cachay – ESSALUD

Gisela Alva – ESSALUD

Paola Fernández – ESSALUD

Tania Solis – ESSALUD

Liz Veramendi – ESSALUD

Juan Aldave – ESSALUD

Violeta Saromo – ESSALUD

Methods in Pharmacoepidemiology

Identification and Characterization of Fistulizing Crohn's Disease in EHR Using Structured and Unstructured Data

PRESENTING AUTHOR

Carrie Huisinigh – AbbVie

CO-AUTHORS

Yizhou Ye – AbbVie

Lani Wegrzyn – AbbVie

Program Schedule

Methods in Pharmacoepidemiology
Validation of Diagnosis Algorithms for Melanoma and Nonmelanoma Skin Cancer Among Patients with Parkinson's Disease in the United States Medicare Database

PRESENTING AUTHOR

Catherine Saltus – RTI Health Solutions

CO-AUTHORS

Sigal Kaplan – Teva Pharmaceuticals Ltd

Mark Gordon – Teva Branded Pharmaceutical Products R&D, Inc.

Brian Calingaert – RTI Health Solutions

Elizabeth Andrews – RTI Health Solutions

James Kaye – RTI Health Solutions

Catherine Johannes – RTI Health Solutions

Methods in Pharmacoepidemiology
An Algorithm to Derive Response and Progression Status Based on International Myeloma Working Group Response Criteria for Patients with Multiple Myeloma in a Real-World Database

PRESENTING AUTHOR

Tao Xu – F. Hoffmann-La Roche

CO-AUTHORS

Stefka Tyanova – F. Hoffmann-La Roche

Tarec Christoffer El-Galaly – F. Hoffmann-La Roche

Khaled Sarsour – Global Head Data Science, Genentech, Inc.

Wan-Jen Hong – Genentech, Inc.

Melissa Williamson – Genentech

Disease Epidemiology/Clinical Course
Identification of Serostatus in Rheumatoid Arthritis Using ICD-10 Diagnosis Codes

PRESENTING AUTHOR

Hemin Lee – Brigham and Women's Hospital

CO-AUTHORS

Jeffrey Sparks – Brigham and Women's Hospital

Kazuki Yoshida – Brigham and Women's Hospital

Rishi Desai – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA

Joan Landon – Brigham and Women's Hospital

Seoyoung Kim – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA

Health Economics/Outcomes Research
Cost-Utility of Nivolumab for Treatment of Head and Neck Cancer from a Brazilian Public Health System Perspective

PRESENTING AUTHOR

Gustavo Andreoli – Ministry of Health, Brazil

CO-AUTHORS

Daniel Curado – Ministry of Health of Brazil

Rosângela Gomes – Ministry of Health of Brazil

Dalila Gomes – Ministry of Health of Brazil

Joslaine de Nunes – Ministério da Saúde

Ricardo Fernandes – National Institute of Cancer, INCA, Brazil

Ivan Zimmermann – University of Brasília, UnB

Health Economics/Outcomes Research
SGLT2 inhibitors vs GLP-1 agonists: Comparative Progression of Renal Disease

PRESENTING AUTHOR

Lauren Stevens – Humana Healthcare Research

CO-AUTHORS

Andy Bowe – Humana Healthcare Research

Phil Schwab – Humana Healthcare Research

Michael Tindal – Humana Pharmacy Solutions

Andrea Bloomfield – Humana Pharmacy Solutions

Health Economics/Outcomes Research
Comparison of Medication Adherence Between Initiators of a Multi-Drug Dispensing System and Users of Retail Pharmacy

PRESENTING AUTHOR

Lauren Stevens – Humana Healthcare Research

CO-AUTHORS

Jeffrey Ellis – Humana Healthcare Research

Anita Desai-Naik – Humana Pharmacy Solutions

Lilian Ndehi – Humana Inc.

Andy Bowe – Humana Healthcare Research

Program Schedule

Health Economics/Outcomes Research Effects of Initiating a Multi-dose Drug Dispensing System on Medication Adherence

PRESENTING AUTHOR

Lauren Stevens – Humana Healthcare Research

CO-AUTHORS

Jeffrey Ellis – Humana Healthcare Research

Anita Desai-Naik – Humana Pharmacy Solutions

Lilian Ndehi – Humana Inc.

Andy Bowe – Humana Healthcare Research

Disease Epidemiology/Clinical Course Prevalence of Myxoid /Round Cell Liposarcoma (MRCLS) Among Children and Adults in the United States

PRESENTING AUTHOR

Huifen Wang – GlaxoSmithKline

CO-AUTHORS

Lindsey Powers Happ – GlaxoSmithKline

Samantha St. Laurent – GlaxoSmithKline

Charlotte Carroll – GlaxoSmithKline

Disease Epidemiology/Clinical Course Atopic Eczema Associated Fracture Risk and Oral Corticosteroids: A Population-Based Cohort Study

PRESENTING AUTHOR

Julian Matthewman – London School of Hygiene & Tropical Medicine

CO-AUTHORS

Kathryn Mansfield – London School of Hygiene & Tropical Medicine

Richard Silverwood – Centre for Longitudinal Studies, University College London

Amy Mulick – London School of Hygiene & Tropical Medicine

Daniel Prieto-Alhambra – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDRMS), University of Oxford, UK

Katherine Lowe – London School of Hygiene & Tropical Medicine

Liam Smeeth – London School of Hygiene & Tropical Medicine

Sinéad Langan – London School of Hygiene & Tropical Medicine

Disease Epidemiology/Clinical Course Trends in Sexually Transmitted Infections in the United States Ambulatory Care Clinics from 2005 to 2016

PRESENTING AUTHOR

Ikenna Unigwe – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida, Gainesville, FL, USA

CO-AUTHORS

Seonkyeong Yang – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida

Hyun Jin Song – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida

Wei-Hsuan Lo-Ciganic – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida, Gainesville, Florida, USA

Robert Cook – College of Public Health and Health Professions, University of Florida, Gainesville, FL, USA

Haesuk Park – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida, Gainesville, FL, USA

Disease Epidemiology/Clinical Course Chemotherapy Relative Dose Intensity, Overall Survival, and Hematologic Toxicity in Solid-Tumor Cancer Patients: A Literature Review and Meta-Analysis

PRESENTING AUTHOR

Lauren Bylsma – EpidStrategies, A Division of ToxStrategies

CO-AUTHORS

Carrie Nielson – Amgen

Jon Fryzek – EpidStrategies, Rockville, MD, USA

Hossam Saad – Amgen

Jeffrey Crawford – Duke Cancer Institute

8:00 - 9:30 PM

PLENARY

Diversity, Equity, and Inclusion in Pharmacoepidemiology – The Role of Caste in Drug Utilization, Safety, and Therapeutic Risk Management

SPEAKERS

Whitney Robinson – University of North Carolina at Chapel Hill

Folakemi Odedina – Mayo Clinic

Macarius Donneyoung – The Ohio State University

John Jackson – Johns Hopkins

Real-World Data for Chronic Diseases

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Program Schedule

TUE

T U E S D A Y , A U G U S T 24

8:15 - 8:30 AM

WELCOME RECEPTION

Syd Phillips

Chair, ICPE Scientific Program Committee

8:30 - 10:00 AM

PLENARY

**Communicating COVID-19
Pharmacoepidemiological Research to Patients:
Why is it Important? How Can We Do It?
What are the Implications Now and for the Future?**

PRESENTING AUTHOR

Meredith Smith – *Alexion*

CO-AUTHORS

Priya Bahri – *European Medicines Agency*

Vincent Lo Re – *Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA*

Francois Houyez – *EURORDIS*

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

**From the Individual Through the Health System
and Back: The Interdisciplinary Promise and
Challenges of Digital Epidemiology for Improved
Outcomes (An ISPE Digital Epidemiology SIG
Endorsed Symposium)**

Informatics

PRESENTERS

Lisa Weiss – *Health Information Technology Lab*

Heidi Dohse – *Tour de Heart*

Dana Teltsch – *Apellis*

Nancy Dreyer – *IQVIA*

John Cai – *Merck*

Helga Gardarsdottir – *Division of Pharmacoepidemiology and Clinical Pharmacology, Utrecht Institute for Pharmaceutical Sciences, Utrecht University*

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

**How to Emulate a Target Trial to Study the Effects
of Treatments for and During Pregnancy**
Pregnancy and Lactation

PRESENTERS

Sonia Hernandez-Diaz – *Harvard T.H. Chan School of Public Health*

Sonja Swanson – *Department of Epidemiology, Erasmus MC*

Jennifer Yland – *Department of Epidemiology, Boston University School of Public Health*

Kristin Palmsten – *HealthPartners Institute*

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

**Lessons for Regulatory Decision-Making from
Real-World Data Trial Emulation Results**
Drug Effectiveness

PRESENTERS

Shirley Wang – *Brigham and Women's Hospital, Harvard Medical School*

Sebastian Schneeweiss – *Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA*

William Crown – *Brandeis University*

Joseph Ross – *Yale University*

Peter Arlett – *European Medicines Agency*

Kenneth Quinto – *US Food and Drug Administration*

Yoshiaki Uyama – *Pharmaceutical Devices and Medicines Agency*

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

**Methodological Approaches to Evaluating
the Safety and Effectiveness of Multi-Dose
Coronavirus Disease 2019 (COVID-19)
Vaccines Series**
Vaccines

PRESENTERS

Hui-Lee Wong – *CBER, Center for Biologics Evaluation and Research, U.S. Food and Drug Administration*

Xabier Garcia de Albeniz – *RTI Health Solutions*

Anne Mobley Butler – *Washington University in St. Louis*

Heather Whitaker – *Public Health England*

Marc Suchard – *University of California, Los Angeles*

Program Schedule

11:45 AM - 1:15 PM

WORKSHOP / CONCURRENT

A Call for 'Environmental Pharmacoepidemiology': Medications, Global and Local Environments, and Health Outcomes

Methods in Pharmacoepidemiology

PRESENTERS

Benjamin Bates – Center for Pharmacoepidemiology and Treatment Science, Rutgers University, New Brunswick, NJ, US

Sean Hennessy – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, PA, US

Michelle Bell – School of the Environment, Yale University, New Haven, CT, US

Paul Coplan – Johnson & Johnson

Rachel Nethery – Department of Biostatistics, Harvard T.H. Chan School of Public Health

Soko Setoguchi – RWJ Medical School, Center for Pharmacoepidemiology and Treatment Science (PETS), Institute for Health, Health Care Policy and Aging Research

11:45 AM - 1:15 PM

WORKSHOP / CONCURRENT

Believability of Real-World Evidence (RWE) for Informed Regulatory Decisions

Methods in Pharmacoepidemiology

PRESENTERS

Jacinthe Leclerc – Université du Québec à Trois-Rivières

Kimberly Brodovicz – Boehringer Ingelheim

Stephen Chang – FDA

Magdalene Assimon – University of North Carolina School of Medicine

Hisashi Urushihara – Keio University

Cynthia Girman – CERobs Consulting, LLC

11:45 AM - 1:15 PM

WORKSHOP / CONCURRENT

New Frontiers in Computable Phenotyping for Medical Product Safety Evaluation

Methods in Pharmacoepidemiology

PRESENTERS

Rishi Desai – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA

David Carrell – Kaiser Permanente Washington Health Research Institute

Robert Ball – FDA

Katherine Liao – Brigham and Women's Hospital

Lindsay Collin – Huntsman Cancer Institute, University of Utah, Salt Lake City, UT, USA

Sebastian Schneeweiss – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA

11:45 AM - 1:15 PM

WORKSHOP / CONCURRENT

Using Real-World External Controls to Support Drug Approval: An Interactive Framework Using Oncology Trial and Real-World Data

Methods in Pharmacoepidemiology

PRESENTERS

Laura Hester – Janssen R&D, LLC

Donna Rivera – US Food and Drug Administration

Jennifer Lund – Department of Epidemiology, University of North Carolina at Chapel Hill

Asieh Golozar – Regeneron Pharmaceuticals

Kourtney Davis – Janssen R&D, LLC

John Seeger – Epidemiology, Optum, Boston, MA, USA

Leah Sansbury – GlaxoSmithKline

Program Schedule

TUE

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

Pharmacovigilance, Safety End Points, and Potpourri

Rare Disease

The Association Between Bariatric Surgery and Dupuytren Disease: A Cohort Study from Swedish Nationwide Healthcare Registries

PRESENTING AUTHOR

Theresa Burkard – Department of Chemistry and Applied Biosciences, Institute of Pharmaceutical Sciences, ETH Zurich, Zurich, Switzerland

CO-AUTHORS

Jennifer Lane – Centre for Statistics in Medicine, Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, University of Oxford, Oxford, UK

Dag Holmberg – Upper Gastrointestinal Surgery, Department of Molecular medicine and Surgery, Karolinska Institute, Karolinska University Hospital, Stockholm, Sweden

Andrea Burden – Institute of Pharmaceutical Sciences, Department of Chemistry and Applied Biosciences, ETH Zurich, Zurich, Switzerland

Dominic Furniss – Centre for Statistics in Medicine, Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, University of Oxford, Oxford, UK

Pediatric Pharmacoepidemiology

Selective Serotonin Reuptake Inhibitors and the Risk of Type 2 Diabetes Mellitus in Youths

PRESENTING AUTHOR

Thi Xuan Dai Cao – Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, Québec, CA

CO-AUTHORS

Christopher Filliter – Centre for Clinical Epidemiology, Lady Davis Institute, Jewish General Hospital, Montreal, Québec, CA

François Montastruc – Department of Clinical and Medical Pharmacology and Regional Pharmacovigilance Centre, Faculty of Medicine and Toulouse University Hospital, Toulouse, France

Oriana Hoi Yun Yu – Centre for Clinical Epidemiology, Lady Davis Institute, Jewish General Hospital, Montreal, Québec, CA

Emma Fergusson – Oxford Health NHS Trust, Department of Psychiatry, Oxford University, Oxford, UK

Soham Rej – Department of Psychiatry, McGill University, Montreal, Québec, CA

Laurent Azoulay – Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, Québec, CA

Christel Renoux – Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, Québec, CA

Pharmacovigilance

Comparing the Risk of Venous Thromboembolism in Rheumatoid Arthritis Patients Receiving Tofacitinib and TNF Inhibitors in Taiwan

PRESENTING AUTHOR

Chin-Yao Shen – School of Pharmacy, Institute of Clinical Pharmacy and Pharmaceutical Sciences, College of Medicine, National Cheng Kung University, Tainan 701, Taiwan

CO-AUTHORS

Tzu-Chi Liao – School of Pharmacy, Institute of Clinical Pharmacy and Pharmaceutical Sciences, College of Medicine, National Cheng Kung University, Tainan 701, Taiwan

Edward Chia-Cheng Lai – School of Pharmacy, Institute of Clinical Pharmacy and Pharmaceutical Sciences, College of Medicine, National Cheng Kung University, Tainan 701, Taiwan

Pediatric Pharmacoepidemiology

Risk of Type 2 Diabetes Among Children Initiating Anticonvulsant Mood Stabilizers: Application of a Target Trial Approach

PRESENTING AUTHOR

Jenny Sun – Harvard Medical School and Harvard Pilgrim Health Care Institute

CO-AUTHORS

Jessica Young – University of North Carolina

Aaron Sarvet – Harvard Medical School and Harvard Pilgrim Health Care Institute

Pi-i Debby Lin – Harvard Medical School and Harvard Pilgrim Health Care Institute

Sengwee Toh – Harvard Medical School and Harvard Pilgrim Health Care Institute

Jason Block – Harvard Medical School and Harvard Pilgrim Health Care Institute

Safety End Points

Risk of Diabetic Ketoacidosis with Sodium-Glucose Transporter-2 Inhibitors Compared to Dipeptidyl Peptidase-4 (DPP4) Inhibitors and Sulfonylureas in Patients with Type 2 Diabetes

PRESENTING AUTHOR

Dawwas Dawwas – University of Pennsylvania

CO-AUTHOR

Charles Leonard – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, PA, US

James Lewis – University of Pennsylvania

Program Schedule

Disease Epidemiology/Clinical Course
Comparable COVID-19 Outcomes with Current Use of GLP-1 Receptor Agonists, DPP-4 Inhibitors or SGLT-2 Inhibitors Among Patients with Diabetes Who Tested Positive for SARS-Cov-2

PRESENTING AUTHOR

Simone Bastrup Israelsen – Center of Research and Disruption of Infectious Diseases, Department of Infectious Diseases, Copenhagen University Hospital, Amager and Hvidovre, Hvidovre, Denmark

CO-AUTHOR

Anton Pottegård – University of Southern Denmark

Håkon Sandholdt – Center of Research and Disruption of Infectious Diseases, Department of Infectious Diseases, Copenhagen University Hospital, Amager and Hvidovre, Hvidovre, Denmark

Sten Madsbad – Department of Endocrinology, Copenhagen University Hospital, Amager and Hvidovre, Hvidovre, Denmark

Reimar Thomsen – Department of Clinical Epidemiology, Aarhus University, Aarhus, Denmark

Thomas Benfield – Center of Research and Disruption of Infectious Diseases, Department of Infectious Diseases, Copenhagen University Hospital, Amager and Hvidovre, Hvidovre, Denmark

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

Thinning the Blood: The Role of Anticoagulation and COVID-19

Drug Utilization Research

Heterogeneity and Temporal Variation in the Management of COVID-19: A Multinational Drug Utilisation Study Including 274,719 Hospitalised Patients from The United States of America, China, Spain, and South Korea

PRESENTING AUTHORS

Albert Prats-Urbe – Pharmaco- and Device Epidemiology, Centre for Statistics in Medicine - Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, University of Oxford, UK

Li Liu – Nanfang Hospital, Southern Medical University, Guangzhou, China

CO-AUTHORS

Anthony Sena – Janssen Research and Development

Lana Yin Hui Lai – Division of Cancer Sciences, School of Medical Sciences, University of Manchester

Waheed-Ul-Rahman Ahmed – Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, University of Oxford, Botnar Research Centre, Windmill Road, Oxford, OX3 7LD, UK

Heba Alghoul – Faculty of Medicine, Islamic University of Gaza, Palestine

Osaid Alser – Massachusetts General Hospital, Harvard Medical School, Boston, 02114, MA, USA

Thamir Alshammari – College of Pharmacy, Riyadh Elm University

Carlos Areia – Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford, UK

William Carter – Data Science to Patient Value Program, University of Colorado Anschutz Medical Campus, Aurora, CO, USA

Paula Casajust – Real-World Evidence, Trial Form Support, Barcelona, Spain

Dalia Dawoud – National Institute for Health and Care Excellence (NICE), London, UK

Asieh Golozar – Regeneron Pharmaceuticals

Jitendra Jonnagaddala – School of Public Health and Community Medicine, UNSW Sydney

Paras Mehta – College of Medicine, The University of Arizona, Tucson, AZ, USA

Gong Mengchun – DHC Technologies Co. Ltd, Beijing, China

Daniel Morales – Division of Population Health and Genomics, University of Dundee, UK

Fredrik Nyberg – School of Public Health and Community Medicine, Institute of Medicine, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden

Jose Posada – Stanford University School of Medicine, Stanford, California, USA

Martina Recalde – Fundació Institut Universitari per a la recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol), Barcelona, Spain

Elena Roel – Fundació Institut Universitari per a la recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol), Barcelona, Spain

Karishma Shah – Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, University of Oxford, Botnar Research Centre, Windmill Road, Oxford, OX3 7LD, UK

Nigam Shah – Stanford University School of Medicine, Stanford, California, USA

Lisa Schilling – Data Science to Patient Value Program, University of Colorado Anschutz Medical Campus, Aurora, CO, USA

Vignesh Subbian – College of Engineering, The University of Arizona, Tucson, AZ, USA

David Vizcaya – Bayer Pharmaceuticals, Sant Joan Despí, Spain

Lin Zhang – School of Population Medicine and Public Health, Chinese Academy of Medical Sciences and Peking Union Medical College

Ying Zhang – DHC Technologies Co. Ltd, Beijing, China

Hong Zhu – Nanfang Hospital, Southern Medical University, Guangzhou, China

Seng Chan You – Department of Preventive Medicine and Public Health, Yonsei University College of Medicine, Seoul, Korea

Peter Rijnbeek – Department of Medical Informatics, Erasmus University Medical Center, Rotterdam, The Netherlands

Program Schedule

TUE

George Hripcsak – Department of Biomedical Informatics, Columbia University Irving Medical Center

Jennifer Lane – Centre for Statistics in Medicine, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, Oxford, UK

Edward Burn – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDROMS), University of Oxford, Oxford, UK

Christian Reich – IQVIA - Real World Solutions

Marc Suchard – University of California, Los Angeles, CA, USA

Talita Duarte-Salles – Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol)

Kristin Kostka – Real World Solutions, IQVIA, 201 Broadway # 5, Cambridge, MA 02139 USA

Patrick Ryan – Janssen Research & Development

Daniel Prieto-Alhambra – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDROMS), University of Oxford, Oxford, UK

Drug Utilization Research

Real World Use of Anticoagulation Among Hospitalized Patients With COVID-19 in the United States

PRESENTING AUTHOR

Benjamin Bates – Center for Pharmacoepidemiology and Treatment Science, Rutgers University, New Brunswick, NJ, USA

CO-AUTHORS

Eileen Lee – Rutgers

Nathaniel Kuhrt – Rutgers, New Jersey Medical School

Chang Xu – Rutgers University, School of Public Health, Department of Biostatistics and Epidemiology

Soko Setoguchi – RWJ Medical School, Center for Pharmacoepidemiology and Treatment Science (PETS), Institute for Health, Health Care Policy and Aging Research

Drug Effectiveness

Safety and Effectiveness of Prophylactic Anticoagulation for Prevention of COVID-19 Mortality: A Nationwide Cohort Study of Hospitalised Patients in the US

PRESENTING AUTHOR

Christopher Rentsch – London School of Hygiene & Tropical Medicine; US Department of Veterans Affairs

CO-AUTHORS

Joshua Beckman – Vanderbilt University Medical Center and Vanderbilt Translational and Clinical Cardiovascular Research Center

Laurie Tomlinson – London School of Hygiene & Tropical Medicine

Walid Gellad – Division of General Internal Medicine, Department of Medicine, University of Pittsburgh

Charles Alcorn – University of Pittsburgh

Farah Kidwai-Khan – US Department of Veterans Affairs

Melissa Skanderson – US Department of Veterans Affairs

Evan Brittain – Vanderbilt University Medical Center and Vanderbilt Translational and Clinical Cardiovascular Research Center

Joseph King, Jr. – Yale School of Medicine

Yuk-Lam Ho – VA Boston Healthcare System

Svetlana Eden – Vanderbilt University School of Medicine

Suman Kundu – Vanderbilt University Medical Center

Michael Lann – University of Pittsburgh

Robert Greevy, Jr. – Vanderbilt University Medical Center

P. Michael Ho – US Department of Veterans Affairs

Paul Heidenreich – Stanford University School of Medicine

Daniel Jacobson – Oak Ridge National Laboratory

Ian Douglas – London School of Hygiene & Tropical Medicine

Janet Tate – US Department of Veterans Affairs

Stephen JW Evans – London School of Hygiene & Tropical Medicine

David Atkins – US Department of Veterans Affairs

Amy Justice – US Department of Veterans Affairs

Matthew Freiberg – Vanderbilt University Medical Center; US Department of Veterans Affairs

Drug Effectiveness

Anticoagulants and All-Cause Mortality Among Hospitalized COVID-19 Patients

PRESENTING AUTHOR

Caihua Liang – Optum

CO-AUTHORS

Li Zhou – Optum

Michael Doherty – Optum

Robert Gately – Optum

Rachel Ogilvie – Optum

Andrea Chomistek – Optum

Florence Wang – Optum

John Seeger – Epidemiology, Optum, Boston, MA, USA

Jessica Franklin – Optum

Program Schedule

Drug Utilization Research Use of Cardiovascular and Antidiabetic Drugs During COVID19 Epidemic in France

PRESENTING AUTHOR

Julien Bezin – University of Bordeaux, France

CO-AUTHORS

Clément Mathieu – University of Bordeaux, France

Elodie Pambrun – University of Bordeaux, France

Anne Benard-Laribiere – University of Bordeaux, France

Pernelle Noize – University of Bordeaux, France

Marie Tournier – University of Bordeaux, France

Jean-Luc Faillie – University of Montpellier, France

Antoine Pariente – University of Bordeaux, France

Drug Utilization Research Substantial Heterogeneity in the Management of Hospitalized Patient with COVID-19

PRESENTING AUTHOR

Aisling Caffrey – Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, USA

CO-AUTHORS

Jennifer Liao – Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, USA

Vrshali Lopes – Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, USA

Kerry LaPlante – Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, USA

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

Two Hearts Beat as One: Evidence for Cardiovascular Safety From Real World Data and Clinical Trials

Health Economics/Outcomes Research

Comparative Risk of Hospitalization for Heart Failure Among Patients with Xanthine Oxidase Inhibitors and Uricosuric Agents

PRESENTING AUTHOR

Fang-Ju Lin – National Taiwan University

CO-AUTHORS

Yu-Hsin Wang – Graduate Institute of Clinical Pharmacy, College of Medicine, National Taiwan University, Taipei, Taiwan

Chien-Ning Hsu – Department of Pharmacy, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan

Safety End Points

Cardiovascular Risk in Users of Mirabegron Relative to Users of Antimuscarinic Treatments for Overactive Bladder: Findings from a Non-interventional, Real-World Data Safety Study

CO-AUTHORS

Veena Hoffman – Optum, Boston, MA, USA

Jesper Hallas – University of Southern Denmark, Odense, Denmark

Marie Linder – Centre for Pharmacoepidemiology, Karolinska Institutet, Stockholm, Sweden

Andrea Margulis – RTI Health Solutions, Barcelona, Spain

Brandon Suehs – Humana Healthcare Research, Louisville, KY, USA

Alejandro Arana – RTI Health Solutions, Barcelona, Spain

Cheryl Enger – Optum, Boston, MA, USA

Libby Horter – Humana Healthcare Research, Louisville, KY, USA

Ingvild Odsbu – Department of Mental Disorders, Norwegian Institute of Public Health, Oslo, Norway

Morten Olesen – University of Southern Denmark, Odense, Denmark

Susana Perez-Gutthann – RTI Health Solutions, Barcelona, Spain

Yihua Xu – Humana Healthcare Research, Louisville, KY, USA

Nina Kristiansen – University of Southern Denmark, Odense, Denmark

Kwame Appenteng – Astellas Pharma US, Chicago, IL, USA

Stefan de Vogel – Astellas Pharma Europe B.V., Leiden, Netherlands

PRESENTING AUTHOR

John Seeger – Epidemiology, Optum, Boston, MA, USA

Safety End Points

Use of Low-dose Quetiapine and the Risk of Major Adverse Cardiovascular Events

PRESENTING AUTHOR

Mikkel Højlund – Clinical Pharmacology, Pharmacy, and Environmental Medicine, Department of Public Health, University of Southern Denmark

CO-AUTHOR

Lars Christian Lund – Clinical Pharmacology, Pharmacy, and Environmental Medicine, Department of Public Health, University of Southern Denmark

Kjeld Andersen – Department of Psychiatry Odense, Mental Health Services Region of Southern Denmark

Christoph Correll – Department of Psychiatry, The Zucker Hillside Hospital

Jesper Hallas – University of Southern Denmark, Odense, Denmark

Program Schedule

TUE

Benefit-Risk Assessment, Communication, and Evaluation (BRACE)

Jak Inhibitors and the Risk of Cardiovascular and Venous Thromboembolism Events Among Patients with Rheumatoid Arthritis: A Network Meta-Analysis of Clinical Trials

PRESENTING AUTHOR

Carlos Alves – University of Coimbra, School of Pharmacy

CO-AUTHORS

Ana Penedones – UFC, Coimbra Regional Pharmacovigilance Unit, CHAD – Centre for Health Technology Assessment and Drug Research, AIBILI

Diogo Mendes – UFC, Coimbra Regional Pharmacovigilance Unit, CHAD – Centre for Health Technology Assessment and Drug Research, AIBILI

Francisco Batel Marques – Faculty of Pharmacy, University of Coimbra

Drug Utilization Research

Non-Adherence and Non-Persistence with Direct Oral Anticoagulants Increases the Risk of Stroke: Assessment in Three European Databases

PRESENTING AUTHOR

Elisabeth Smits – PHARMO Institute for Drug Outcomes Research, Utrecht, Netherlands

CO-AUTHORS

Emily holthuis – PHARMO Institute for Drug Outcomes Research, Utrecht, Netherlands

Dominik Beier – InGef - Institut für Angewandte Gesundheitsforschung Berlin GmbH, Berlin, Germany

Dirk Enders – InGef - Institut für angewandte Gesundheitsforschung Berlin GmbH, Berlin, Germany

Rosa Gini – Agenzia regionale di sanità della Toscana, Osservatorio di epidemiologia, Florence, Italy

Claudia Bartolini – Agenzia Regionale di Sanità della Toscana

Giampiero Mazzaglia – Center for Public Health Research (CESP), University of Milan, Bicocca, Milan, Italy

Fernie Penning- van Beest – PHARMO Institute for Drug Outcomes Research, Utrecht, Netherlands

Georgios Spentzouris – Daiichi-Sankyo Europe GmbH, Munich, Germany

Ron Herings – PHARMO Institute for Drug Outcomes Research, Utrecht, Netherlands

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

Validation and Algorithms: Getting the Present and Future Right

Methods in Pharmacoepidemiology

Validity of Electronic Health Records-Based Measures for COVID-19 Hospitalization and Severe Outcomes

CO-AUTHORS

Sharon Fuller – Kaiser Permanente Washington Health Research Institute

Kathy Gleason – Kaiser Permanente Colorado, Institute for Health Research

Rod Walker – Kaiser Permanente Washington Health Research Institute

Stephen Fortmann – Kaiser Permanente Northwest, Center for Health Research

Ladia Albertson-Junkans – Kaiser Permanente Washington Health Research Institute

J. David Powers – Kaiser Permanente Colorado, Institute for Health Research

Mi Lee – Kaiser Permanente Northwest, Center for Health Research

James Floyd – University of Washington Department of Epidemiology, Seattle, WA

Lisa Temposky – Kaiser Permanente Washington Health Research Institute

Susan Shortreed – Kaiser Permanente Washington Health Research Institute

Elizabeth Bayliss – Kaiser Permanente Colorado, Institute for Health Research

Laura Harrington – Kaiser Permanente Washington Health Research Institute

Jennifer Kuntz – Kaiser Permanente Northwest, Center for Health Research

Lisa Pieper – Kaiser Permanente Colorado, Institute for Health Research

Jan Van Marter – Kaiser Permanente Northwest, Center for Health Research

PRESENTING AUTHOR

Sascha Dublin – Kaiser Permanente Washington Health Research Institute

Program Schedule

Methods in Pharmacoepidemiology Death Documentation Lag in COVID-19 Electronic Health Record (EHR) Suggests Caution in Near-Real-Time Analysis

PRESENTING AUTHOR

Corinne Brooks – Center for Observational Research, Amgen, Inc.

CO-AUTHORS

Carolyn Brown – Center for Observational Research, Amgen, Inc.

Alvan Cheng – Center for Observational Research, Amgen, Inc.

Kimberly Roehl – Center for Observational Research, Amgen, Inc.

Fang He – Center for Observational Research, Amgen, Inc.

Ajit Londhe – Center for Observational Research, Amgen, Inc.

Junjie Ma – Center for Observational Research, Amgen, Inc.

John Page – Center for Observational Research, Amgen, Inc.

J. Michael Sprafka – Center for Observational Research, Amgen, Inc.

Jie Zhang – Center for Observational Research, Amgen, Inc.

Informatics

Shifting the Traditional Model of Analysing Downloaded Electronic Health Records to the Novel Open-Source Analytics Opensafely Platform

PRESENTING AUTHOR

Angel Wong – London School of Hygiene and Tropical Medicine

CO-AUTHORS

Brian MacKenna – University of Oxford

Caroline Morton – University of Oxford

Anna Schultze – London School of Hygiene and Tropical Medicine

Alex Walker – University of Oxford

Krishnan Bhaskaran – London School of Hygiene and Tropical Medicine

Christopher Rentsch – London School of Hygiene and Tropical Medicine; US Department of Veterans Affairs

Elizabeth Williamson – London School of Hygiene and Tropical Medicine

Richard Croker – University of Oxford

Seb Bacon – University of Oxford

William Hulme – University of Oxford

Chris Bates – The Phoenix Partnership

Helen Curtis – University of Oxford

Amir Mehrkar – University of Oxford

David Evans – University of Oxford

Peter Inglesby – University of Oxford

Jonathan Cockburn – The Phoenix Partnership

Helen McDonald – London School of Hygiene and Tropical Medicine

Laurie Tomlinson – London School of Hygiene and Tropical Medicine

Rohini Mathur – London School of Hygiene and Tropical Medicine

Kevin Wing – London School of Hygiene and Tropical Medicine

Harriet Forbes – London School of Hygiene and Tropical Medicine

Rosalind Eggo – London School of Hygiene and Tropical Medicine

Ian Douglas – London School of Hygiene and Tropical Medicine

Stephen Evans – London School of Hygiene and Tropical Medicine

Liam Smeeth – London School of Hygiene and Tropical Medicine

Ben Goldacre – University of Oxford

Methods in Pharmacoepidemiology

Use of an EHR to Inform a Claims-Based Algorithm to Categorize Inpatient COVID-19 Severity

PRESENTING AUTHOR

Elizabeth Garry – Aetion, Inc

CO-AUTHORS

Andrew Weckstein – Aetion, Inc

Kenneth Quinto – US Food and Drug Administration

Tamar Lasky – US Food and Drug Administration

Aloka Chakravarty – Food and Drug Administration

Sandy Leonard – HealthVerity

Sarah Vititoe – Aetion, Inc

Jeremy Rassen – Aetion, Inc.

Nicolle Gatto – Aetion, Inc

Methods in Pharmacoepidemiology

Categorization of COVID-19 Severity to Determine Mortality Risk

PRESENTING AUTHOR

Elizabeth MGarry – Aetion, Inc.

CO-AUTHORS

Andrew Weckstein – Aetion, Inc.

Kenneth Quinto – US Food and Drug Administration

Marie Bradley – Division of Epidemiology, Office of Surveillance and epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration

Tamar Lasky – US Food and Drug Administration

Sandy Leonard – HealthVerity

Sarah Vititoe – Aetion, Inc.

Nicolle Gatto – Aetion, Inc.

Program Schedule

TUE

Disease Epidemiology/Clinical Course Development and Validation of an Algorithm to Estimate the Risk of Severe Complications of COVID-19 to Prioritise Vaccination

PRESENTING AUTHOR

Ron Herings – PHARMO Institute for Drug Outcomes Research, Utrecht, Netherlands

CO-AUTHORS

Karin Swart-Polinder – PHARMO Institute for Drug Outcomes Research, Utrecht, Netherlands

Bernard van der Zeijst – Department of Medical Microbiology, Leiden University Medical Center, Leiden, Netherlands

Amber van der Heijden – Department of General Practice, Amsterdam UMC – Vrije Universiteit, Amsterdam Public Health, Amsterdam, Netherlands

Koos van der Velden – Department of Primary and Community Care, Academic Collaborative Center AMPHI, Integrated Health Policy, Radboud University Medical Center, Nijmegen, Netherlands

Eric Hiddink – Stichting Health Base, Houten, the Netherlands

Martijn Heymans – Department of Epidemiology & Data Science, Amsterdam UMC – Vrije Universiteit, Amsterdam Public Health, Amsterdam Cardiovascular Sciences, Amsterdam, Netherlands

Reinier Herings – Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht, Netherlands

Hein van Hout – Department of General Practice, Amsterdam UMC – Vrije Universiteit, Amsterdam Public Health, Amsterdam, Netherlands

Joline Beulens – Department of Epidemiology & Data Science, Amsterdam UMC – Vrije Universiteit, Amsterdam Public Health, Amsterdam Cardiovascular Sciences, Amsterdam, Netherlands

Giel Nijpels – Department of General Practice, Amsterdam UMC – Vrije Universiteit, Amsterdam Public Health, Amsterdam, Netherlands

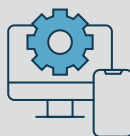
Petra Elders – Department of General Practice, Amsterdam UMC – Vrije Universiteit, Amsterdam Public Health, Amsterdam, Netherlands

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Program Schedule

1:45 - 3:30 PM

ORAL SESSIONS / CONCURRENT

You Gave the Kids What? International Use, Policies, and Outcomes in Pediatric Pharmacoepidemiology

Pediatric Pharmacoepidemiology
**Early Life Antibiotic Exposure and Incident Chronic
Diseases in Childhood**

PRESENTING AUTHOR

Matthew Beier – Rutgers, Robert Wood Johnson
Medical School

CO-AUTHORS

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Pharmacoepidemiology and Treatment Science (PETS), Institute for
Health, Health Care Policy and Aging Research

Tobias Gerhard – Rutgers University, PETS, Institute for Health,
Health Care Policy and Aging Research, Ernest Mario School of
Pharmacy

Jason Roy – Rutgers University, Department of Biostatistics and
Epidemiology

Avinash Gabbeta – St. Christopher's Hospital for Children

Brian Strom – Rutgers Biomedical And Health Sciences, Rutgers
University

Martin Blaser – Center for Advanced Biotechnology and Medicine,
Rutgers University

Daniel Horton – Rutgers University

Pediatric Pharmacoepidemiology **Antibiotic Prescribing in Children Aged 0–6 Years in Germany: Assessing Regional Variations and Potential Explanations Based on Claims Data**

PRESENTING AUTHOR

Oliver Scholle – Leibniz Institute for Prevention Research and
Epidemiology - BIPS

CO-AUTHORS

Marieke Asendorf – Leibniz Institute for Prevention Research and
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Christoph Buck – Leibniz Institute for Prevention Research and
Epidemiology - BIPS

Susann Grill – Leibniz Institute for Prevention Research and
Epidemiology - BIPS

Oliver Riedel – Leibniz Institute for Prevention Research and
Epidemiology - BIPS

Ulrike Haug – Leibniz-Institut für Präventionsforschung und
Epidemiologie, Bremen, Germany

Pediatric Pharmacoepidemiology **Prescribed Medicine Use in a Nationwide Sample of Australian Children: Extent of Off-Label Use**

PRESENTING AUTHOR

Andrea Schaffer – Centre for Big Data Research in Health,
UNSW Sydney

CO-AUTHORS

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Claudia Bruno – Centre for Big Data Research in Health, University
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Nicholas Buckley – Biomedical Informatics and Digital Health,
University of Sydney

Rose Cairns – University of Sydney

Melisa Litchfield – Centre for Big Data Research in Health,
University of New South Wales

Simon Paget – University of Sydney

Helga Zoega – Centre for Big Data Research in Health,
UNSW Sydney

Sallie-Anne Pearson – Centre for Big Data Research in Health,
University of New South Wales

Pediatric Pharmacoepidemiology **General Practitioner Prescribing Trends Among Pediatric Patients in the United Kingdom: 1998-2018**

PRESENTING AUTHOR

Reem Masarwa – McGill University

CO-AUTHORS

Claire Lefebvre – Department of Pediatrics, Centre Hospitalier
Universitaire Ste-Justine, University of Montreal, Montreal,
Quebec, CA

Robert Platt – Department of Epidemiology, Biostatistics and
Occupational Health, McGill University, Montreal, Quebec, CA

Kristian Filion – Department of Epidemiology, Biostatistics and
Occupational Health, McGill University, Montreal, Quebec, CA

Program Schedule

TUE

Drug Utilization Research **Visualizing Inappropriate Antibiotic Use Following Otitis Media in Children in the United States**

PRESENTING AUTHOR

Leah McGrath – *NoviSci, Inc.*

CO-AUTHORS

Jason Newland – *Washington University in St. Louis*

John Sahrmann – *Washington University in St. Louis*

YinJiao Ma – *Washington University in St. Louis*

Anne Mobley Butler – *Washington University in St. Louis*

Pediatric Pharmacoepidemiology **Impact of Drug-Related Regulations on Codeine Use Among Children in Taiwan: A Nationwide Interrupted Time Series Analysis from 2005 to 2018**

PRESENTING AUTHOR

Chih-Wan Lin

CO-AUTHORS

Yu-Jie Huang – *Taiwan Drug Relief Foundation, Taipei, Taiwan*

Wei-I Huang – *Taiwan Drug Relief Foundation, Taipei, Taiwan*

Pi-Hui Chao – *Taiwan Drug Relief Foundation, Taipei, Taiwan*

Wen-Wen Chen – *Taiwan Drug Relief Foundation, Taipei, Taiwan*

Fei-Yuan Hsiao – *Graduate Institute of Clinical Pharmacy, National Taiwan University, Taipei, Taiwan*

6:45 - 7:45 PM

LIGHTNING SESSION 3

Benefit-Risk Assessment, Communication, and Evaluation (BRACE) **Gender Differences in Valproic Acid Use for Approved Indications in the United States (2017-2018) – An Opportunity for Risk Mitigation?**

PRESENTING AUTHOR

Nicole Smolinski – *Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida*

CO-AUTHORS

Amir Sarayani – *Department of Pharmaceutical Outcomes and Policy, University of Florida*

Almut Winterstein – *Department of Pharmaceutical Outcomes and Policy and Center for Drug Evaluation and Safety, College of Pharmacy, University of Florida*

Benefit-Risk Assessment, Communication, and Evaluation (BRACE) **Missingness in Real World Data Submitted for Regulatory Decision-Making: Eastern Cooperative Oncology Group Performance Status Case Study**

CO-AUTHORS

Cherise Wong – *Regeneron Pharmaceuticals*

Caitlin Knox – *Regeneron Pharmaceuticals*

Wenzhen Ge – *Regeneron Pharmaceuticals*

Ning Wu – *Regeneron Pharmaceuticals*

Andrea Marcus – *Regeneron Pharmaceuticals*

Jessica Jalbert – *Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA*

PRESENTING AUTHOR

Asieh Golozar – *Regeneron Pharmaceuticals*

Benefit-Risk Assessment, Communication, and Evaluation (BRACE) **Association of Statin Use with Dry Eye Disease**

PRESENTING AUTHOR

Yinxi Yu – *Department of Ophthalmology, Scheie Eye Institute, University of Pennsylvania Perelman School of Medicine*

CO-AUTHORS

Vatinee Bunya – *Department of Ophthalmology, Scheie Eye Institute, University of Pennsylvania Perelman School of Medicine*

Brian VanderBeek – *Department of Ophthalmology, Scheie Eye Institute, University of Pennsylvania Perelman School of Medicine*

Disease Epidemiology/Clinical Course **Birth Prevalence of Phenylalanine Hydroxylase Deficiency: A Systematic Literature Review and Meta-analysis**

PRESENTING AUTHOR

Andrea Margulis – *RTI Health Solutions, Barcelona, Spain*

CO-AUTHORS

Kimberly Alexander – *BioMarin Pharmaceutical Inc.*

Pamela Foreman – *BioMarin Pharmaceutical Inc.*

Renee Shediak – *BioMarin Pharmaceutical Inc.*

Brian Calingaert – *RTI Health Solutions*

Abenah Harding – *RTI Health Solutions*

Manel Pladevall-Vila – *RTI Health Solutions*

Sarah Landis – *BioMarin (UK) Limited*

Program Schedule

Methods in Pharmacoepidemiology
A New Analytic Tool for Interrupted Times Series Analysis to Assess the impact of FDA Regulatory Actions

PRESENTING AUTHOR

Christine Lu – Department of Population Medicine at Harvard Medical School

CO-AUTHORS

Laura Hou – Department of Population Medicine at Harvard Medical School

Joy Kolonoski – Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute

Andrew Petrone – Department of Population Medicine at Harvard Medical School

Fang Zhang – Department of Population Medicine at Harvard Medical School

Catherine Corey – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, U.S. Food and Drug Administration

Ting Ying Huang – Department of Population Medicine at Harvard Medical School

Marie Bradley – Division of Epidemiology, Office of Surveillance and epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration

Methods in Pharmacoepidemiology
Use of Last Clinical Activity Date in Overall Survival Analysis with Real World Data

PRESENTING AUTHOR

Lu Chen – Genentech, Inc.

CO-AUTHORS

Otto Fajardo – F. Hoffmann-La Roche Ltd.

Melanie Huntley – Genentech, Inc.

Anne-Marie Meyer – F. Hoffmann-La Roche Ltd.

Michael Taylor – Real World Data Collaborations, Personalized Healthcare Data Science, Genentech Inc., South San Francisco, CA, USA

Methods in Pharmacoepidemiology
Distinguishing Death from Disenrollment in Claims Data Using a Readily Implemented Machine Learning Algorithm

PRESENTING AUTHOR

Jessica Young – University of North Carolina

CO-AUTHORS

Frank Yoon – IBM Watson Health

Nabarun Dasgupta – Injury Prevention Research Center, University of North Carolina at Chapel Hill

Debra Irwin – IBM Watson Health

Kenneth Pack – IBM Watson Health

Toska Cooper – University of North Carolina at Chapel Hill

Shalu Shiv – IBM Watson Health

Sarah Bloemers – IBM Watson Health

Teresa Gibson – IBM Watson Health

Methods in Pharmacoepidemiology
Development and Validation of Case-Finding Algorithms to Identify Prosthetic Joint Infections After Total Knee Arthroplasty

PRESENTING AUTHOR

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Charles Nelson – Department of Orthopaedic Surgery, Perelman School of Medicine, the University of Pennsylvania, Philadelphia, PA, USA

Judith O'Donnell – Division of Infectious Diseases, Department of Medicine, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

Evelyn Hsieh – VA Connecticut Health System, West Haven, CT, USA

Jennifer Hanberg – VA Connecticut Health System, West Haven, CT, USA

Kathleen Akgun – VA Connecticut Health System, West Haven, CT, USA

Janet Tate – US Department of Veterans Affairs

Vincent Lo Re – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

Program Schedule

TUE

Drug Utilization Research
Analytical Enhancements in Kentucky's Drug Overdose Mortality Surveillance: Rapid Monitoring of Trends and Decedents' Recent Controlled Substance Prescription History

PRESENTING AUTHOR

G'yeon Oh – Department of Pharmacy Practice and Science, College of Pharmacy, University of Kentucky

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Candace Brancato – Department of Biostatistics, College of Public Health, University of Kentucky

Jana McAninch – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, U.S. Food and Drug Administration

Alex Secora – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, U.S. Food and Drug Administration

Candice Collins – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, U.S. Food and Drug Administration

Nabarun Dasgupta – Injury Prevention Research Center, University of North Carolina at Chapel Hill

Svetla Slavova – Department of Biostatistics, College of Public Health, University of Kentucky

Drug Utilization Research
Measuring Mental Health Prescribing Safety Indicators in UK Primary Care

PRESENTING AUTHOR

Wael Khawagi – Taif University

CO-AUTHORS

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Alison Wright – Centre for Pharmacoepidemiology and Drug Safety, Division of Pharmacy and Optometry, School of Health Sciences, University of Manchester, Manchester, UK

Darren Ashcroft – Centre for Pharmacoepidemiology and Drug Safety, Division of Pharmacy and Optometry, School of Health Sciences, University of Manchester, Manchester, UK

Anthony Avery – Division of Primary Care, School of Medicine, University of Nottingham, Nottingham, UK

Richard Keers – Centre for Pharmacoepidemiology and Drug Safety, Division of Pharmacy and Optometry, School of Health Sciences, University of Manchester, Manchester, UK

Pediatric Pharmacoepidemiology
Pediatric Off-Label Antipsychotic Use for Attention-Deficit/Hyperactivity Disorder: A Time-to-Event Analysis

PRESENTING AUTHOR

Haeyoung Lee – University of Maryland Baltimore, School of Pharmacy

CO-AUTHORS

Susan dosReis – University of Maryland Baltimore, School of Pharmacy

Chengchen Zhang – University of Maryland Baltimore, School of Pharmacy

Roderick Rose – University of Maryland Baltimore, School of Social Work

Pediatric Pharmacoepidemiology
Antibiotics Overprescribing Patterns in Pediatric Primary Care in Italy: Findings from 2012-2018

PRESENTING AUTHOR

Elisa Barbieri – Division of Paediatric Infectious Diseases, Department for Woman and Child's Health - University of Padua

CO-AUTHORS

Costanza Di Chiara – Division of Paediatric Infectious Diseases, Department for Woman and Child's Health - University of Padua

Paola Costenaro – Division of Paediatric Infectious Diseases, Department for Woman and Child's Health - University of Padua

Anna Cantarutti – Unit of Biostatistics, Epidemiology and Public Health, Department of Statistics and Quantitative Methods, University of Milano-Bicocca, Milan, Italy

Carlo Giaquinto – Division of Pediatric Infectious Diseases, Department for Woman and Child Health, University of Padua, Padua, Italy

Daniele Dona' – Division of Pediatric Infectious Diseases, Department for Woman and Child Health, University of Padua, Padua, Italy

Program Schedule

Informatics

Temporal Effect in Real-World-Evidence for Randomized-Clinical-Trials

PRESENTING AUTHOR

Jue Hou – Harvard T.H. Chan School of Public Health

CO-AUTHOR

Rachel Zhao – University of British Columbia

Tianrun Cai – Brigham and Women's Hospital

Katherine Liao – Brigham and Women's Hospital

Thany Seyok – Brigham and Women's Hospital

Kumar Dahal – Brigham and Women's Hospital

Qianyu Yuan – Harvard T.H. Chan School of Public Health

Kai-Li Liaw – Pharmacoepidemiology, Center for Observational and Real-World Evidence (CORE), Merck & Co., Inc.

Claire Fox – Merck & Co., Inc.

Thomas Jemielita – Merck & Co., Inc.

Tianxi Cai – Harvard T.H. Chan School of Public Health

Safety End Points

The Risk of Melanoma with Rasagiline Compared with Other Antiparkinsonian Medications: A Retrospective Cohort Study in the United States Medicare Database

PRESENTING AUTHOR

Catherine Johannes – RTI Health Solutions

CO-AUTHORS

Catherine Saltus – RTI Health Solutions

James Kaye – RTI Health Solutions

Brian Calingaert – RTI Health Solutions

Sigal Kaplan – Teva Pharmaceuticals Ltd

Mark Gordon – Teva Branded Pharmaceutical Products R&D, Inc.

Elizabeth Andrews – RTI Health Solutions

Biologics/Biosimilars

Risk of Major Cardiovascular Event in Jak Inhibitor Treated Patients: Analysis of a National Claim Database

CO-AUTHORS

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Jérôme Avouac – Université de Paris, Service de Rhumatologie, Hôpital Cochin, AP-HP/CUP, Paris

Clément Prati – University Hospital - CHU Minjoz, Rheumatology Unit, Besancon

Jean-Luc Cracowski – Université Grenoble Alpes, INSERM, HP2, Grenoble

Thierry Schaefferbeke – Department of Rheumatology, National Reference Center for Systemic Autoimmune Rare Diseases, Hôpital Pellegrin, Bordeaux

Marie-Elise Truchetet - Department of Rheumatology, National Reference Center for Systemic Autoimmune Rare Diseases, Hôpital Pellegrin, Bordeaux

PRESENTING AUTHOR

Antoine Pariente - Univ. Bordeaux, Inserm, Bordeaux Population Health Research Center, team PHARMACOEPIDEMIOLOGY, UMR 1219, F-33000 Bordeaux, France. University Hospital of Bordeaux, Clinical Pharmacology, F-33000 Bordeaux, France

8:00 - 9:30 PM

PLENARY

Communicating COVID-19

Pharmacoepidemiological Research to Patients:

Why is it Important? How Can We Do It?

What are the Implications Now and for the Future?

Benefit-Risk Assessment, Communication, and Evaluation (BRACE)

PRESENTING AUTHOR

Meredith Smith – Alexion

CO-AUTHORS

Priya Bahri – European Medicines Agency

Vincent Lo Re – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA

Francois Houyez – EURORDIS

Program Schedule

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W E D N E S D A Y , A U G U S T 2 5

8:15 - 8:30 AM

WELCOME RECEPTION

Syd Phillips

Chair, ICPE Scientific Program Committee

8:30 - 10:00 AM

PLENARY

COVID-19 Vaccines: Timely Global Real-World Evidence Vaccines

MODERATOR

J. Bradley Layton – RTI Health Solutions

SPEAKERS

Miriam Sturkenboom – Department Datascience & Biostatistics,
University Medical Center Utrecht

Steven Anderson – FDA/CBER

Carla Talarico

Robert Chen – Brighton Collaboration

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

Pediatric Infection with Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-COV 2) and Potential Health Consequences (Submitted on Behalf of the ISPE RWE COVID-19 Workgroup) Disease Epidemiology/Clinical Course

PRESENTER

Ann McMahon – Office of Pediatric Therapeutics, Food and Drug
Administration

PRESENTERS

Susan Coffin – Children's Hospital of Philadelphia

David Kimberlin – University of Alabama at Birmingham

Montse Soriano Gabarro – Bayer AG

Jonathan Davis – Tufts University Children's Hospital

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

Product Surveillance and Signal Management: Now is the Time for Methodologist Engagement! Medical Devices

PRESENTERS

Mary Beth Ritchey – Med Tech Epi

Danica Marinac-Dabic – FDA/CDRH

Theodore Lystig – Medtronic

Paul Coplan – Johnson & Johnson

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

RWE Blueprints: Decoding SPACE, SPIFD, Start- RWE, and Other Tools Promoting Principled Pharmacoepidemiology Methods in Pharmacoepidemiology

PRESENTERS

Elizabeth Garry – Aetion, Inc

Nicolle Gatto – Aetion, Inc

Shirley Wang – Brigham and Women's Hospital,
Harvard Medical School

Ulka Campbell – Pfizer

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

Selection Matters: Addressing Biases in Linked Clinico-Genomic Data Sets Methods in Pharmacoepidemiology

PRESENTERS

Katherine Panageas – Memorial Sloan Kettering
Cancer Center

Kenneth Kehl – Dana-Farber Cancer Institute,
Harvard Medical Center

Devin Incerti – Genentech

Til Stürmer – Department of Epidemiology, University of North
Carolina at Chapel Hill

Program Schedule

10:00 - 11:30 AM

WORKSHOP / CONCURRENT

Strategies for the Use of Real-World Data to Conduct COVID-19-Related Pharmacoepidemiology

Methods in Pharmacoepidemiology

PRESENTERS

Vincent Lo Re – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

Noelle Cocoros – Harvard Pilgrim Health Care Institute

Candace Fuller – Harvard Pilgrim Health Care Institute

Wei Hua – Center for Drug Evaluation and Research, United States Food and Drug Administration

Silvia Perez-Vilar – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Brains or Bytes? In Search of Patterns

Medical Devices

Leveraging Artificial Intelligence (AI) Technologies for Automated Identification of Total Knee Arthroplasty (TKA) Devices in Electronic Health Records

CO-AUTHORS

Elham Sagheb – Mayo Clinic

Shi Yan – Mayo Clinic

Taghi Ramazanian – Mayo Clinic

Sunyang Fu – Mayo Clinic

Ahmad Tafti – University of Southern Maine

Sunghwan Sohn – Mayo Clinic

PRESENTING AUTHOR

Hilal Maradit Kremers – Mayo Clinic

Rare Disease

Prediction Algorithm for Identifying Patients with Fabry or Pompe Disease in Electronic Health Records

PRESENTING AUTHOR

Ella Jansen – PHARMO Institute for Drug Outcomes Research, Utrecht, Netherlands

CO-AUTHORS

Lars Verkleij – INSZO Instituut voor Zorgoptimalisatie

Rich Colbaugh – Volv Global SA

Kristin Glass – Volv Global SA

Christopher Rudolf – Volv Global SA

Ron Herings – PHARMO Institute for Drug Outcomes Research, Utrecht, Netherlands

Methods in Pharmacoepidemiology

The Impact of Longitudinal Data-Completeness of Electronic Health Record (EHR) Data on Prognostic Risk Score Misclassification

PRESENTING AUTHOR

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Sebastian Schneeweiss – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA

Dave Merola – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School

Kueiyu Joshua Lin – Brigham and Women's Hospital

Methods in Pharmacoepidemiology

Identifying Active Pregnancies Using ICD-10 Z3A Codes vs Completed Pregnancies Using Outcomes

PRESENTING AUTHOR

Monica Bertoia – Optum

CO-AUTHORS

Li Zhou – Optum

Michael Doherty – Optum

Florence Wang – Optum

John Seeger – Epidemiology, Optum, Boston, MA, USA

Methods in Pharmacoepidemiology

Improving Methods of Identifying Anaphylaxis for Medical Product Safety Surveillance Using Natural Language Processing and Machine Learning

PRESENTING AUTHOR

David Carrell – Kaiser Permanente Washington Health Research Institute

CO-AUTHORS

Susan Gruber – Putnam Data Sciences

James Floyd – University of Washington Department of Epidemiology, Seattle, WA, USA

Maralyssa Bann – University of Washington

Kara Cushing-Haugen – Kaiser Permanente Washington Health Research Institute

Ron Johnson – Kaiser Permanente Washington Health Research Institute

Program Schedule

W E D

Vina Graham – Kaiser Permanente Washington Health Research Institute

David Cronkite – Kaiser Permanente Washington Health Research Institute

Brian Hazlehurst – Kaiser Permanente Northwest

Andrew Felcher – Kaiser Permanente Northwest

Cosmin Bejan – Vanderbilt University Medical Center

Adee Kennedy – Harvard Pilgrim Health Care Institute

Mayura Shinde – Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute

Sara Karami – US Food and Drug Administration

Yong Ma – Center for Drug Evaluation and Research, United States Food and Drug Administration

Danijela Stojanovic – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration, Silver Spring, MD, USA

Yueqin Zhao – Office of Biostatistics, Center for Drug Evaluation and Research, FDA, Silver Spring, MD, USA

Robert Ball – FDA

Jennifer Nelson – Kaiser Permanente Washington Health Research Institute

Methods in Pharmacoepidemiology

Validation of an Algorithm to Identify Hormonal Contraceptive Exposure in a Large Integrated Health Care Delivery System Database

PRESENTING AUTHOR

Mary Anne Armstrong – Division of Research, Kaiser Permanente

CO-AUTHORS

Malini Chandra – Division of Research, Kaiser Permanente

Darios Getahun – Research and Evaluation, Kaiser Permanente Southern California

Michael Fassett – Kaiser Permanente Southern California

Jiaxiao Shi – Research and Evaluation, Kaiser Permanente Southern California

Amy Alabaster – Division of Research, Kaiser Permanente

Fagen Xie – Research and Evaluation, Kaiser Permanente Southern California

Vicki Chiu – Research and Evaluation, Kaiser Permanente Southern California

Theresa Im – Research and Evaluation, Kaiser Permanente Southern California

Federica Pisa – Medical Affairs & Pharmacovigilance, Bayer AG

Tina Raine-Bennett – Division of Research, Kaiser Permanente

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

COVID-19 Potpourri: Vaccines, Long Haulers, and the NFL

Vaccines

Descriptive Epidemiology of Adverse Events of Special Interest for COVID-19 Vaccines Across 7 Countries and 4 Continents: A Multinational Network Cohort Study

PRESENTING AUTHOR

Xintong Li – Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, University of Oxford, Oxford, UK

CO-AUTHORS

Anna Ostropolets – Department of Biomedical Informatics, Columbia University Irving Medical Center

Rupa Makadia – Janssen Research and Development

Azza Shoaibi – Janssen Research and Development

Gowtham Rao – Janssen Research and Development

Anthony Sena – Janssen Research and Development

Martijn Schuemie – Janssen Research and Development

Eugenia Martinez-Hernandez – Neuroimmunology Unit, Neurology Department, Hospital Clínic of Barcelona

Sergio Fernández-Bertolín – Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol)

Talita Duarte-Salles – Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol)

Patrick Ryan – Janssen Research & Development

George Hripcsak – Department of Biomedical Informatics, Columbia University Irving Medical Center

Daniel Prieto-Alhambra – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDROMS), University of Oxford, Oxford, UK



Program Schedule

Medical Devices

Population Testing for COVID-19: Can a Rapid Antigen Test Rule Out Infection?

PRESENTING AUTHOR

Christina Mack – IQVIA

CO-AUTHORS

Michael Osterholm – Center for Infectious Disease Research and Policy, University of Minnesota, Minneapolis, Minnesota, USA

Erin Wasserman – IQVIA

Natalia Petruski-Ivleva – IQVIA

Deverick Anderson – Duke Center for Antimicrobial Stewardship and Infection Prevention, Duke University School of Medicine, Durham, NC, USA

Emily Myers – National Football League, New York City, NY, USA

Navdeep Singh – Eden Medical Center, Castro Valley, CA, USA

Patti Walton – Williamson Medical Center, Franklin, TN, USA

Gary Solomon – National Football League, New York, NY, USA

Christopher Hostler – Duke Center for Antimicrobial Stewardship and Infection Prevention, Duke University School of Medicine, Durham, NC, USA

Jimmie Mancell – Department of Medicine, University of Tennessee Health Science Center, Memphis, TN, USA

Allen Sills – National Football League, New York, NY, USA

Pharmacovigilance

Impact of COVID-19 Social Distance Restrictions on Hospital Encounters Due to Injury by Poisoning or Toxicity of Medications or Non-Medicinal Substances

PRESENTING AUTHOR

Qoua Her – Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

CO-AUTHORS

Jessica Young – University of North Carolina

Til Stürmer – Department of Epidemiology, University of North Carolina at Chapel Hill, NC, USA

Michele Jonsson Funk – University of North Carolina at Chapel Hill, NC, USA

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Program Schedule

Disease Epidemiology/Clinical Course Persistence of COVID-19 Symptoms 90 Days Post-Acute Infection: Insights from a Community- Based Registry

PRESENTING AUTHOR

Matthew Reynolds – IQVIA

CO-AUTHORS

Nancy Dreyer – IQVIA

Lisa Albert – IQVIA

Emma Brinkley – IQVIA

Damir Mohamed – IQVIA

Christina Mack – IQVIA

Drug Utilization Research Use of Hydroxychloroquine, Remdesivir, and Dexamethasone Among Adults Hospitalized with COVID-19 in the United States: Results from the National COVID Cohort Collaborative (N3C)

PRESENTING AUTHOR

Hemalkumar Mehta – Johns Hopkins University

CO-AUTHORS

Huijun An – Johns Hopkins University

Kathleen Andersen – Johns Hopkins Bloomberg School of
Public Health

Omar Mansour – Monumental Analytics, Baltimore, MD, USA

Vithal Madhira – Palila Software, Reno, NV, USA

Emaan Rashidi – Johns Hopkins Bloomberg School of
Public Health

Benjamin Bates – Center for Pharmacoepidemiology and
Treatment Science, Rutgers University, New Brunswick, NJ, USA

Soko Setoguchi – RWJ Medical School, Center for
Pharmacoepidemiology and Treatment Science (PETS), Institute for
Health, Health Care Policy and Aging Research

Corey Joseph – Johns Hopkins Bloomberg School of Public

Paul Kocis – Penn State Health, Milton S. Hershey Medical Center,
Hershey, PA, USA

Richard Moffitt – Stony Brook University, Stony Brook, NY, USA

Tellen Bennett – University of Colorado School of Medicine,
University of Colorado, Aurora, CO, USA

Christopher Chute – Johns Hopkins University

Brian Garibaldi – Johns Hopkins Medicine

G. Caleb Alexander – Johns Hopkins Center for Drug Safety and
Effectiveness

Drug Utilization Research COVID-19 in Children: Treatment Patterns in the Real- World Hospital Setting

PRESENTING AUTHOR

Lawrence Rasouliyan – OMNY Health

CO-AUTHORS

Vikas Kumar – OMNY Health

Stacey Long – OMNY Health

Mitesh Rao – OMNY Health

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Fast and Furious: Driving Down the Clinical Course of Disease Epidemiology

Disease Epidemiology/Clinical Course Impact of Non-Alcoholic Steatohepatitis (NASH) Case Definition on Population Characteristics Identified in a US Claims Database

PRESENTING AUTHOR

Kerrin Gallagher – HealthCore

CO-AUTHORS

Daina Esposito – Boston University School of Public Health

Aziza A. Jamal-Allial – HealthCore, Inc.

Simo Du – HealthCore, Inc.

Yuval Patel – Duke University

Mindie Nguyen – Stanford University

Erik Ness – Intercept Pharmaceuticals

Thomas Capozza – Intercept Pharmaceuticals, Inc.

Lina Titievsky – Intercept Pharmaceuticals

Disease Epidemiology/Clinical Course The Effect of Epidural Steroid Injections on Fracture Risk Among Medicare Patients

PRESENTING AUTHOR

Huifeng Yun – Department of Epidemiology, University of Alabama
at Birmingham

CO-AUTHORS

Ye Liu – University of Alabama at Birmingham

Jeffrey Curtis – University of Alabama at Birmingham

Kenneth Saag – Division of Clinical Immunology and Rheumatology

Katherine Haseltine – HSS hospital

Emily Stein – HSS hospital

Program Schedule

Medical Devices

Persistence of Anticoagulation After Receiving Transcatheter Left Atrial Appendage Occlusion vs Oral Anticoagulants for Stroke Prevention in Atrial Fibrillation

PRESENTING AUTHOR

Kueiyu Joshua Lin – Brigham and Women's Hospital

CO-AUTHORS

Daniel Singer – Department of Medicine, Massachusetts General Hospital, Harvard Medical School

Sushama Kattinakere Sreedhara – Division of Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School

Krista Huybrechts – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Sebastian Schneeweiss – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA

Methods in Pharmacoepidemiology

Longitudinal Adherence Trajectories to Biologic Disease Modifying Anti-Rheumatic Drugs in Tuscany, Italy

PRESENTING AUTHOR

Sabrina Giometto – Unit of Medical Statistics, Department of Clinical and Experimental Medicine, University of Pisa

CO-AUTHORS

Irma Convertino – Unit of Pharmacology and Pharmacovigilance, Department of Clinical and Experimental Medicine, University of Pisa

Marco Tuccori – Unit of Pharmacology and Pharmacovigilance, Department of Clinical and Experimental Medicine, University of Pisa; Unit of Adverse Drug Reactions Monitoring, University Hospital of Pisa, Pisa, Italy

Rosa Gini – Agenzia regionale di sanità della Toscana, Osservatorio di epidemiologia, Florence, Italy

Massimiliano Cazzato – Unit of Rheumatology, University Hospital of Pisa, Pisa, Italy

Giulia Valdiserra – Unit of Pharmacology and Pharmacovigilance, Department of Clinical and Experimental Medicine, University of Pisa

Emiliano Cappello – Unit of Pharmacology and Pharmacovigilance, Department of Clinical and Experimental Medicine, University of Pisa

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Marco Fornili – Unit of Medical Statistics, Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy

Claudia Bartolini – Agenzia regionale di sanità della Toscana

Olga Paoletti – Agenzia regionale di sanità della Toscana

Giuseppe Turchetti – Institute of Management, Scuola Superiore Sant'Anna, Pisa, Italy

Leopoldo Trieste – Institute of Management, Scuola Superiore Sant'Anna, Pisa, Italy

Valentina Lorenzoni – Institute of Management, Scuola Superiore Sant'Anna, Pisa, Italy

Corrado Blandizzi – Unit of Pharmacology and Pharmacovigilance, Department of Clinical and Experimental Medicine, University of Pisa; Unit of Adverse Drug Reactions Monitoring, University Hospital of Pisa, Pisa, Italy

Marta Mosca – Unit of Rheumatology, University Hospital of Pisa, Pisa, Italy

Ersilia Lucenteforte – Unit of Medical Statistics, Department of Clinical and Experimental Medicine, University of Pisa

Disease Epidemiology/Clinical Course

Incidence Rates of Select Outcomes Among Patients With Non-Alcoholic Steatohepatitis (NASH) and Evidence of Fibrosis and Cirrhosis

PRESENTING AUTHOR

Monica Bertoia – Optum

CO-AUTHORS

Erik Ness – Intercept Pharmaceuticals

Thomas Capozza – Intercept Pharmaceuticals, Inc.

Lina Titievsky – Intercept Pharmaceuticals

John Seeger – Epidemiology, Optum, Boston, MA, USA

Disease Epidemiology/Clinical Course

Hyperthyroidism and Breast Cancer Recurrence and Mortality: A Danish Population-based Cohort Study

PRESENTING AUTHOR

Rikke Noergaard Pedersen – Department of Clinical Epidemiology, Aarhus University

CO-AUTHORS

Line Libergreen – Department of Clinical Epidemiology, Aarhus University

Anders Kjærsgaard – Department of Clinical Epidemiology, Aarhus University Hospital

Deirdre Cronin-Fenton – Department of Clinical Epidemiology, Aarhus University Hospital, Aarhus, Denmark

Program Schedule

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11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Impact of Disparities and Stigma on Drug Access and Utilization

Drug Utilization Research

Disparities in Hepatitis C Treatment in the Era of Direct-Acting Antivirals Among Arizona Medicaid Beneficiaries

PRESENTING AUTHOR

Hyun Jin Song – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida

CO-AUTHORS

Ching-Yuan Chang – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida

Xinyi Jiang – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida

Debbie Wilson – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida

Wei-Hsuan Lo-Ciganic – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida, Gainesville, FL, USA

Haesuk Park – Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida, Gainesville, FL, USA

Drug Utilization Research

Sources of Racial/Ethnic Disparities in Antidepressant Treatment: Analysis of the Medical Expenditure Panel Survey Data

PRESENTING AUTHOR

Macarius Donneyong – The Ohio State University

CO-AUTHOR

Teng-Jen Chang – The Ohio State University

Drug Utilization Research

Do Medicare Part D Low-Income Subsidies Narrow Disparities in Orally-Administered Antimyeloma Therapy Initiation?

PRESENTING AUTHOR

Shelley Jazowski – University of North Carolina at Chapel Hill

CO-AUTHORS

Cleo Samuel-Ryals – University of North Carolina at Chapel Hill

William Wood – University of North Carolina at Chapel Hill

Leah Zullig – Duke University School of Medicine

Justin Trogdon – University of North Carolina at Chapel Hill

Stacie Dusetzina – Vanderbilt University School of Medicine

Health Economics/Outcomes Research

Impact of Race, Ethnicity, and Sex on Treatment of Non-Valvular Atrial Fibrillation

CO-AUTHORS

Larry Jackson, II – Duke University Medical Center

Diane Francis – Johnson & Johnson Medical Devices, Health Economics and Market Access

Sonia Maccioni – Johnson & Johnson Medical Devices, Health Economics and Market Access

Vincent Thomas – Biosense Webster

Jennifer Wood – Johnson & Johnson, Medical Device Epidemiology and Real-World Data Sciences

Guy Cafri – Johnson & Johnson, Medical Device Epidemiology and Real-World Data Sciences

Rahul Khanna – Johnson & Johnson, Medical Device Epidemiology and Real-World Data Sciences

Charlene Wong – Johnson & Johnson, Medical Device Epidemiology and Real-World Data Sciences

Jonathan Piccini – Duke University Medical Center

Daniel Friedman – Yale School of Medicine

PRESENTING AUTHOR

Neloufar Rahai – Johnson & Johnson, Medical Device Epidemiology and Real-World Data Sciences

Drug Utilization Research

The Impact of Sex on The Quality of Medication Treatment in Patients with Type 2 Diabetes

PRESENTING AUTHOR

Martina Ambroz – Department of Clinical Pharmacy and Pharmacology, University of Groningen, University Medical Center Groningen, Groningen, Netherlands

CO-AUTHOR

Marit Geelink – Department of Clinical Pharmacy and Pharmacology, University of Groningen, University Medical Center Groningen, Groningen, Netherlands

Kirsten Smits – Department of Dentistry - Quality and Safety of Oral Healthcare, Radboud University Medical Center, Radboud Institute for Health Sciences, Nijmegen, Netherlands

Sieta de Vries – University of Groningen, University Medical Center Groningen, Department of Clinical Pharmacy and Pharmacology, Netherlands

Petra Denig – University Medical Center Groningen

Program Schedule

Drug Utilization Research Changes in Buprenorphine Utilization During the COVID-19 Pandemic in the US

PRESENTING AUTHOR

Lindsey Hammerslag – Institute for Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Kentucky

CO-AUTHORS

Svetla Slavova – Department of Biostatistics, College of Public Health, University of Kentucky

Jeffery Talbert – Institute for Biomedical Informatics, College of Medicine, University of Kentucky

Sharon Walsh – College of Medicine, University of Kentucky

Michelle Lofwall – College of Medicine, University of Kentucky

Patricia Freeman – Department of Pharmacy Practice and Science, College of Pharmacy, University of Kentucky

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Look Who's Talking Now: Capturing Patient and Provider Perspectives in Health Data

Health Economics/Outcomes Research

Participant Engagement and Adherence in an Arthritis Power Real-World Study to Capture Smartwatch and Patient-Reported Outcome Data Among Rheumatoid Arthritis Patients

PRESENTING AUTHOR

Jeffrey Curtis – University of Alabama at Birmingham

CO-AUTHORS

Benjamin Nowell – Global Healthy Living Foundation

Cassie Clinton – Division of Clinical Immunology and Rheumatology, University of Alabama at Birmingham

Fenglong Xie – University of Alabama at Birmingham

Jessica Boles – Global Healthy Living Foundation

Laura Stradford – Global Healthy Living Foundation

Shilpa Venkatachalam – Global Healthy Living Foundation

Justin Owensby – University of Alabama at Birmingham

D. Curtis – Global Healthy Foundation

K. Gavigan – Global Healthy Foundation

I. Lipkovich – Eli Lilly and Company Indianapolis, IN

S.K. Nolot – Eli Lilly and Company Indianapolis, IN

V.S. Haynes – Eli Lilly and Company Indianapolis, IN

Drug Utilization Research Ranitidine and Other Histamine2-Receptor Antagonists – A Rapid Response Drug Utilisation Study Using Electronic Health Care Data from Six European Countries

PRESENTING AUTHOR

Katia Verhamme – Department of Medical Informatics, Erasmus University Medical Center, Rotterdam, Netherlands

CO-AUTHORS

Maria de Ridder – Department of Medical Informatics, Erasmus University Medical Center, Rotterdam

Christian Reich – IQVIA, Real World Solutions

Talita Duarte-Salles – Fundació Institut Universitari per a la Recerca a l'Atenció Primària de Salut Jordi Gol i Gurina (IDIAPJGol)

Tom Seinen – Department of Medical Informatics, Erasmus University Medical Center, Rotterdam

Peter Rijnbeek – Department of Medical Informatics, Erasmus University Medical Center, Rotterdam, Netherlands

Health Economics/Outcomes Research

The Friends of Cancer Research Real World Data (RWD) Pilot 2.0 Collaboration: Implementation of Standardized Methodological Approaches for Evaluation of Oncology RWD

PRESENTING AUTHOR

Donna Rivera – US Food and Drug Administration

CO-AUTHORS

Henry Henk – Optum Labs

Elizabeth Garrett-Mayer – ASCO

Mark Walker – ConcertAI

Joseph Wagner – IQVIA

Emily Valice – Kaiser Permanente

Connor Sweetnam – Syapse

Elad Sharon – National Cancer Institute

Lori Sakoda – Kaiser Permanente

Nicholas Robert – Ontada

Ruth Pe Benito – Tempus

Yanina Natanzon – ConcertAI

Larry Kushi – Kaiser Permanente

Monika Izano – Syapse

Rebecca Honnold – Tempus

Eric Hansen – COTA

Janet Espirito – Ontada

Lindsey Enewold – National Cancer Institute

Jennifer Christian – IQVIA

Suanna Bruinooge – American Society of Clinical Oncology

Marley Boyd – Ontada

Program Schedule

W
E
D

Andrew Belli – COTA

Laura Lasiter – Friends of Cancer Research

Jeff Allen – Friends of Cancer Research

Health Economics/Outcomes Research

Cost-Effectiveness of Systematic Treatments for Metastatic Castration-Sensitive Prostate Cancer: An Economic Evaluation Based on Network Meta-Analysis

PRESENTING AUTHOR

Lin Wang – Department of Epidemiology, Johns Hopkins University Bloomberg School of Public Health

CO-AUTHORS

Jeromie Ballreich – Department of Health Policy and Management, Johns Hopkins University Bloomberg School of Public Health

Hwanhee Hong – Duke Clinical Research Institute, Duke University

G. Caleb Alexander – Johns Hopkins Center for Drug Safety and Effectiveness

Channing Paller – The Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University School of Medicine

Health Economics/Outcomes Research

Telemedicine Use Among U.S. Patients with Cancer During the COVID-19 Pandemic

PRESENTING AUTHOR

Lu Chen – Genentech, Inc.

CO-AUTHORS

Carlos Flores Avile – Genesis Research

Palak Kundu – Genentech, Inc.

Aaron Cohen – Flatiron Health

Amy Webster – Flatiron Health

Rebecca Rohrer – Flatiron Health

Michael Taylor – Real World Data Collaborations, Personalized Healthcare Data Science, Genentech Inc., South San Francisco, CA, USA

Drug Effectiveness

Physician and Patient Reported Effectiveness Outcomes are similar in Tofacitinib and TNF Inhibitors in Rheumatoid Arthritis Patients: Data from a Rheumatoid Arthritis Registry in Canada

PRESENTING AUTHOR

Mohammad Movahedi – Toronto General Hospital Research Institute, University Health Network, Toronto, ON

CO-AUTHORS

Angela Cesta – Toronto General Hospital Research Institute, University Health Network, Toronto, ON

Xiuying Li – Toronto General Hospital Research Institute, University Health Network, Toronto, ON

Edward Keystone – Department of Medicine, University of Toronto, Toronto, ON

Claire Bombardier – Toronto General Hospital Research Institute, University Health Network, Toronto, ON

OBRI Investigators – Toronto General Hospital Research Institute, University Health Network, Toronto, ON

11:45 AM - 1:30 PM

ORAL SESSIONS / CONCURRENT

Pregnancy: Beyond Opioids

Pregnancy and Lactation

First Trimester Exposure to Buprenorphine Compared to Methadone for Treatment of Opioid Use Disorders and the Risk of Congenital Malformations

PRESENTING AUTHOR

Elizabeth Suarez – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

CO-AUTHORS

Krista Huybrechts – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Sonia Hernandez-Diaz – Harvard T.H. Chan School of Public Health

Loreen Straub – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Yanmin Zhu – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Helen Mogun – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Brian Bateman – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Program Schedule

Pregnancy and Lactation Characteristics of Initial Postpartum Opioid Prescribing and Risks of Serious Opioid-Related Events After Cesarean Delivery

PRESENTING AUTHOR

Andrew Wiese – Vanderbilt University Medical Center

CO-AUTHORS

Sarah Osmundson – Vanderbilt University Medical Center

Edward Mitchel, Jr. – Vanderbilt University Medical Center

Margaret Adgent – Vanderbilt University Medical Center

Sharon Phillips – Vanderbilt University Medical Center

Stephen Patrick – Vanderbilt University School of Medicine

Andrew Spieker – Vanderbilt University Medical Center

Carlos Grijalva – Vanderbilt University Medical Center

Pregnancy and Lactation Prescription Opioid Type and the Risk of Neonatal Opioid Withdrawal Syndrome

PRESENTING AUTHOR

Daina Esposito – Boston University School of Public Health

CO-AUTHORS

Brian Bateman – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Martha Werler – Boston University School of Public Health

Loreen Straub – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Helen Mogun – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Sonia Hernandez-Diaz – Harvard T.H. Chan School of Public Health

Samantha Parker – Boston University School of Public Health

Krista Huybrechts – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Pregnancy and Lactation Benzodiazepine Use in the First Trimester and Risk of Congenital Malformations: A Nationwide Cohort Study in South Korea

PRESENTING AUTHOR

Yunha Noh – School of Pharmacy, Sungkyunkwan University

CO-AUTHORS

Hyesung Lee – School of Pharmacy, Sungkyunkwan University

Ahhyung Choi – School of Pharmacy, Sungkyunkwan University

Dong-Sook Kim – Department of Research, Health Insurance Review & Assessment Service

Ju-Young Shin – School of Pharmacy, Sungkyunkwan University

Pregnancy and Lactation Comparative Safety of In-Utero Exposure to Buprenorphine Combined with Naloxone vs Buprenorphine Monoprodukt with Respect to Congenital Malformations

PRESENTING AUTHOR

Loreen Straub – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

CO-AUTHORS

Krista Huybrechts – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Sonia Hernandez-Diaz – Harvard T.H. Chan School of Public Health

Elizabeth Suarez – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Yanmin Zhu – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Helen Mogun – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Brian Bateman – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Pregnancy and Lactation Prenatal Analgesic Opioid Exposure and Risk of ADHD in Childhood

PRESENTING AUTHOR

Johanne Naper Trønnes – Department of Pharmacy, Faculty of Mathematics and Natural Sciences, University of Oslo, Oslo, Norway

CO-AUTHORS

Angela Lupattelli – Department of Pharmacy, Faculty of Mathematics and Natural Sciences, University of Oslo, Oslo, Norway

Marte Handal – Department of Mental Disorders, Norwegian Institute of Public Health, Oslo, Norway

Svetlana Skurtveit – Department of Mental Disorders, Norwegian Institute of Public Health, Oslo, Norway

Eivind Ystrom – Department of Mental Disorders, Norwegian Institute of Public Health, Oslo, Norway

Hedvig Nordeng – PharmacoEpidemiology and Drug Safety Research Group, Department of Pharmacy, and PharmaTox Strategic Initiative, Faculty of Mathematics and Natural Sciences, University of Oslo

Program Schedule

W E D

1:45 - 2:45 PM

ANNUAL MEETING OF ISPE MEMBERS & 2021 AWARDS CEREMONY

- Call to Order; President's Report | Olaf Klungel, FISPE – *President*
- Financial Report | Wei Zhou, FISPE – *Vice-President/Finance*
- Strategic Plan 2020-2024 update | Vincent Lo Re, FISPE – *Chair, Strategic Planning Committee*
- New Business
- Awards Ceremony
- ISPE Board Transition

RETIRING OFFICERS & DIRECTORS

Almut Winterstein, FISPE – *Immediate Past President*
Pia Caduff – *Director*
Vera Ehrenstein – *Director*
Chieko Ishiguro – *Director*
Malcolm Maclure – *Director*
Darren Toh, FISPE – *Director*

INSTALLATION OF NEW DIRECTORS

Jennifer Lund, FISPE – *Academic (Americas)*
Daniel Prieto-Alhambra, FISPE – *Academic (Europe/Africa)*
Hongbo Yuan – *Government/Regulator (Americas)*
Yoshiaki Uyama – *Government/Regulator (Asia/Pacific)*
Stine Hasling Mogensen – *Government/Regulator (Europe/Africa)*

INSTALLATION OF 2021-2022 OFFICERS

Vincent Lo Re, FISPE – *President*
Tobias Gerhard, FISPE – *President-elect*
Olaf Klungel, FISPE – *Immediate Past President*
Wei Zhou, FISPE – *Vice-President/Finance*
Caitlin Knox – *Vice President/Finance-elect*

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- | Simulation for residual confounding in cohort study - *Lancet* 2021, with global media coverage |

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Program Schedule

3:00 - 4:30 PM

ORAL SESSIONS / CONCURRENT

From Patient to Policy Impact: Benefit-Risk Assessment, Communication, and Evaluation (BRACE) SIG

Benefit-Risk Assessment, Communication, and
Evaluation (BRACE)

Impact of FDA's Regulatory Actions on the Quality of REMS Survey Methodology Protocols (2007-2020)

PRESENTING AUTHOR

Samuel Ewusie – *ORISE Fellow, Division of Risk Management, FDA*

CO-AUTHORS

Janifer Quick – *Division of Risk Management, FDA*

Elaine Morrato – *Parkinson School of Public Health, Loyola University Chicago*

Gita Toyserkani – *Division of Risk Management, FDA*

Drug Utilization Research

Influence of Drug Safety Advisories on Drug Utilization: An International Interrupted Time Series and Meta-Analysis Study

PRESENTING AUTHOR

Richard Morrow – *Department of Anesthesiology, Pharmacology & Therapeutics, University of British Columbia*

CO-AUTHORS

Barbara Mintzes – *School of Pharmacy, Faculty of Medicine and Health and Charles Perkins Centre, University of Sydney*

Patrick Souverein – *Division of Pharmacoepidemiology and Clinical Pharmacology, Utrecht Institute for Pharmaceutical Sciences, Utrecht University*

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Sallie-Anne Pearson – *Centre for Big Data Research in Health, University of New South Wales*

Ruth Lopert – *Department of Health Policy and Management, George Washington University*

Lisa Bero – *School of Medicine and Colorado School of Public Health, University of Colorado Anschutz Medical Campus*

Richard Ofori-Asenso – *Copenhagen Centre for Regulatory Science, Department of Pharmacy, Faculty of Health and Medical Sciences, University of Copenhagen*

Danijela Grnjidic – *Sydney Pharmacy School, Faculty of Medicine and Health, The University of Sydney, Sydney, AU*

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Colin Dormuth – *Department of Anesthesiology, Pharmacology & Therapeutics, University of British Columbia*

Benefit-Risk Assessment, Communication, and
Evaluation (BRACE)

Preferences Concerning Drug Safety Communication of Hospital-Based Specialist in the Netherlands

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Petra Denig – *University Medical Center Groningen*

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Benefit-Risk Assessment, Communication, and
Evaluation (BRACE)

Regulatory Approval of Phentermine/Topiramate for Obesity Management and Off-Label Use of Topiramate: A Fairytale for Drug Repurposing and a Maze for Risk Mitigation

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Christian Hampf – *US Food and Drug Administration*

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Almut Winterstein – *Department of Pharmaceutical Outcomes and Policy and Center for Drug Evaluation and Safety, College of Pharmacy, University of Florida*

Program Schedule

W
E
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Benefit-Risk Assessment, Communication, and Evaluation (BRACE)

What Matters to Patients When Considering Treatments for Prevention of Rheumatoid Arthritis: A Preference Study in the United Kingdom, Germany, and Romania

PRESENTING AUTHOR

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Medical Devices

The Association Between Bariatric Surgery and Carpal Tunnel Syndrome: A Cohort Study from Swedish Nationwide Healthcare Registries

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3:00 - 4:30 PM

ORAL SESSIONS / CONCURRENT

MedTech Globetrotting – Assisting Medical Devices Effects in the Real World

Medical Devices

Real-World Epidemiologic and Genetic Evidence Synthesis Reveals the Sex-Dependent Role of GNAS SNPs in Hip Arthroplasty Related Periprosthetic Osteolysis

CO-AUTHORS

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Elaine Thompson – US Food and Drug Administration

Hussein Ezzeldin – US Food and Drug Administration

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Richard Forshee – FDA/CBER

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Yelizaveta Torosyan – US Food and Drug Administration

Medical Devices

Comparison of 10- and 15-Year Outcomes of Bioprosthetic and Mechanical Aortic Valve Replacement in Patients Aged Under 65 Years: Australian Study Using Linked Data for 4,704 Patients

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Program Schedule

Medical Devices

Sex-Differences in Risk of Early Revision After Primary Total Knee Arthroplasty

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Medical Devices

The Association Between Bariatric Surgery and Cataract: A Cohort Study from Swedish Nationwide Healthcare Registries

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Medical Devices

Comparative Patient Characteristics of Transcatheter Left Atrial Appendage Occlusion vs Oral Anticoagulants for Stroke Prevention in Atrial Fibrillation

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3:00 - 4:30 PM

ORAL SESSIONS / CONCURRENT

Psychotropics:

Bitter Pills to Swallow in Pregnancy

Pregnancy and Lactation

Prenatal Antiseizure Medication Exposure and Risk of Autism and Intellectual Disability. SCAN-AED: A Nordic Cohort Study

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Silje Alvestad – National Center for Epilepsy, Oslo University Hospital

Jakob Christensen – National Centre for Register-Based Research, Department of Economics and Business Economics, Aarhus BSS, Aarhus University

Program Schedule

Pregnancy and Lactation

The Comparative Safety of Antiseizure Medication Polytherapy vs Valproate in Pregnancy and Risk of Major Congenital Malformations

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Kari Furu – Norwegian Institute of Public Health

Pregnancy and Lactation

Antidepressant Use During Pregnancy and the Risk of Neurodevelopmental Disorders in Children

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Krista Huybrechts – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

Pregnancy and Lactation

The Impact of In-Utero Antipsychotic Drug Exposure on Congenital Malformations: An International Cohort Study

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Program Schedule

Pregnancy and Lactation

The Impact of In-Utero Antipsychotic Exposure on Neurodevelopmental Disorders in Children

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Krista Huybrechts – Brigham and Women's Hospital, Division of Pharmacoepidemiology and Pharmacoeconomics

3:00 - 4:30 PM

Presentation Time: 4:30 PM - 6:00 PM

ORAL SESSIONS / CONCURRENT

Application of Pharmacoepidemiologic Study Designs for Research Across the Cancer Continuum

Safety End Points

Proton Pump Inhibitors and Risk of Gastric Cancer: A Population-based Cohort Study

PRESENTING AUTHOR

Devin Abrahami – McGill University

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Alan Barkun – McGill University Health Centre

Samy Suissa – Departments of Epidemiology and Biostatistics, Faculty of Medicine, McGill University, Montreal, CA

Laurent Azoulay – Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, Québec, CA

Drug Effectiveness

Efficacy and Safety of Treatments for Nonmetastatic Castration-Resistant Prostate Cancer: A Matching-Adjusted Indirect Comparison and Network Meta-Analysis

PRESENTING AUTHOR

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Hwanhee Hong – Duke Clinical Research Institute, Duke University

Otis Brawley – The Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University School of Medicine

G. Caleb Alexander – Johns Hopkins Center for Drug Safety and Effectiveness

Safety End Points

Comparative Safety of Conjugated Estrogens/Bazedoxifene (CE/BZA) vs Estrogen/Progestin Combination Hormone Therapy (EP): A Multi-Database Cohort Study

PRESENTING AUTHOR

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Kimberly Daniels – Safety & Epidemiology, HealthCore, Inc.

Ryan Seals – Optum

Najat JZiyadeh – Optum

Florence Wang – Optum

Dingwei Dai – CVS Health Clinical Trial Services (fka Healthagen)

Cheryl McMahon-Walraven – CVS Health Clinical Trial Services (formerly known as Healthagen), an affiliate of Aetna

Patty Shuminski – CVS Health Clinical Trial Services (fka Healthagen)

Vera Frajzyngier – Boehringer Ingelheim

Xiaofeng Zhou – Pfizer, Inc.

Rongjun Shen – Pfizer, Inc.

Nicole Fournakis – Research Operations, HealthCore, Inc.

Daniel Beachler – Safety & Epidemiology, HealthCore, Inc.

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Program Schedule

Methods in Pharmacoepidemiology

Risk of Malignancies in Newly Treated Patients with Disease-Modifying Drugs for Multiple Sclerosis: Assessment According to Cohort and Nested-Case Control Approaches

PRESENTING AUTHOR

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Meritxell Sabidó – Global Epidemiology, Merck KGaA Darmstadt, Germany

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Clémentine Lacueille – Bordeaux PharmacoEpi, INSERM CIC1401, Université de BORDEAUX

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Caroline Foch – Merck KGaA Darmstadt, Germany

Cécile Droz-Perroteau – Univ. Bordeaux, INSERM CIC-P 1401, Bordeaux PharmacoEpi, 33000 Bordeaux, France

Safety End Points

Vitamin K Antagonists and Risk of Myelodysplastic Syndrome: A Nationwide Cohort Study in Atrial Fibrillation Patients

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Mahmoud Zureik – EPI-PHARE, Epidemiology of Health Products (French National Agency for the Safety of Medicines and Health Products, and French National Health Insurance)

Safety End Points

Use of Proton Pump Inhibitors and Risk of Pancreatic Adenocarcinoma: A Case-Control Study Based on the French National Health Data System (SNDS)

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Julien Kirchesner – Sorbonne Université, INSERM, Institut Pierre Louis d'Epidémiologie et de Santé Publique, Paris, France

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Rosemary Dray-Spira – EPI-PHARE, Epidemiology of Health Products (French National Agency for the Safety of Medicines and Health Products [ANSM], and French National Health Insurance [CNAM]), Saint-Denis, France

4:30 - 6:00 PM

ORAL SESSIONS / CONCURRENT

Just How Well Does it Work in Real Life?

Drug Effectiveness

Calibrating Real-World Evidence Studies Against Randomized Trials: Treatment Effectiveness of Infliximab in Inflammatory Bowel Disease

PRESENTING AUTHOR

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Program Schedule

Drug Effectiveness

Shorter Drug Holiday After 3 or More Years of Risedronate vs Alendronate is Important to Maintain Osteoporotic Fracture Protection

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Drug Effectiveness

Cardiovascular Effectiveness of SGLT-2 Inhibitors vs Metformin as First-Line Treatment for Type 2 Diabetes

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Drug Effectiveness

Effect of SGLT-2 Inhibitors on eGFR in Type 2 Diabetes with Different Baseline Renal Functions: A Multi-Center Study

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Drug Effectiveness

Comparative Effectiveness of Empagliflozin in Reducing Total Cardiovascular Events in the Empagliflozin Comparative Effectiveness and Safety (EMPRISE) Study

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Drug Effectiveness

Initiation of Sodium-Glucose Co-Transporter 2 Inhibitors and Progression of Renal Disease Among Patients with Type-2 Diabetes: A Population-Based Cohort Study

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Mhd. Wasem Alsabbagh – School of Pharmacy, University of Waterloo

John-Michael Gamble – School of Pharmacy, University of Waterloo

Program Schedule

4:30 - 6:00 PM

ORAL SESSIONS / CONCURRENT

Pregnancy: Diabetes and a Surprise

Pregnancy and Lactation

Characteristics and Outcomes of Pregnancies in Women with Heart Failure: A Retrospective Cohort Study in the Sentinel System

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Pregnancy and Lactation

Metformin and Risk of Adverse Pregnancy Outcomes Among Pregnant Women with Gestation Diabetes in the United Kingdom: A Population-Based Cohort Study

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Pregnancy and Lactation

The Role of Propensity Score Matching in Claims-Based Studies for Achieving Comparability in HbA1c Levels Between Treatments in Pregnant Women with Type 2 Diabetes

PRESENTING AUTHOR

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Pregnancy and Lactation

Balance of Unmeasured Covariates After Propensity Score Matching Based on Measurable Covariates in Perinatal Pharmacoepidemiologic Studies

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Program Schedule

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Pregnancy and Lactation Development and Validation of ICD-10 Claims-Based Algorithms for Pregnancy and Infant Outcomes

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Michael Snabes – AbbVie, Inc

John Seeger – Epidemiology, Optum, Boston, MA, USA

Pregnancy and Lactation Metformin vs Insulin in Early Pregnancy and Risk of Congenital Malformations

PRESENTING AUTHOR

Lars Kjerpeseth – Norwegian Institute of Public Health

CO-AUTHORS

Carolyn Cesta – Karolinska Institutet

Anders Engeland – University of Bergen

Kari Furu – Norwegian Institute of Public Health

Mika Gissler – Finnish Institute for Health and Welfare

Hanne Gulseth – Norwegian Institute of Public Health

Øystein Karlstad – Norwegian Institute of Public Health

Helle Kieler – Centre for Pharmacoepidemiology, Karolinska Institutet

Maarit Leinonen – Finnish Institute for Health and Welfare

Mette Nørgaard – Department of Clinical Epidemiology, University of Aarhus

Laura Pazzagli – Centre for Pharmacoepidemiology, Karolinska Institutet, Stockholm, Sweden

Randi Selmer – Norwegian Institute of Public Health, Oslo, Norway

Helga Zoega – Centre for Big Data Research in Health, UNSW Sydney

Jacqueline Cohen – Norwegian Institute of Public Health

4:30 - 6:00 PM

ORAL SESSIONS / CONCURRENT

PS I love you, XXII

Methods in Pharmacoepidemiology

Evaluating When Effect Estimates Change After Propensity Score Trimming Because of Differing Effect Measure Modifier Distributions

PRESENTING AUTHOR

Michael Webster-Clark – University of North Carolina at Chapel Hill

CO-AUTHORS

Michele Jonsson Funk – University of North Carolina at Chapel Hill

Jennifer Lund – Department of Epidemiology, University of North Carolina at Chapel Hill

Robert Glynn – Harvard T. H. Chan School of Public Health

Til Stürmer – Department of Epidemiology, University of North Carolina at Chapel Hill

Alan Kinlaw – UNC Eshelman School of Pharmacy

Methods in Pharmacoepidemiology

Optimization-Based Stable Balancing Weights vs Generalized Boosted Modeling for Propensity Score Weighting

PRESENTING AUTHOR

Stephen Johnston – Johnson & Johnson

CO-AUTHORS

Luo Li – Johnson & Johnson

Harikumar Dwarakanathan – Mu Sigma

David Wei – Johnson & Johnson

Pragya Rai – Johnson & Johnson

Paul Coplan – Johnson & Johnson

Methods in Pharmacoepidemiology

Controlling for Differential Regression to the Mean Using Summary Measures of Pre-Treatment Laboratory Values in Propensity Scores

PRESENTING AUTHOR

Chase Latour – University of North Carolina at Chapel Hill

CO-AUTHORS

Leah McGrath – Novartis, Inc.

Alexander Breskin – Novartis, Inc.

Ying Yu – Novartis, Inc.

M. Alan Brookhart – Novartis, Inc.

Program Schedule

Medical Devices

An Evaluation of Direct and Propensity Score Matching vs Propensity Score Stratification for Confounding Adjustment in Primary Total Hip Arthroplasty

PRESENTING AUTHOR

Abhishek Chitnis – Johnson & Johnson

CO-AUTHORS

Jack Mantel – DePuy Synthes

Juan Daccach – Johnson & Johnson

Prerna Kothari – Mu-Sigma

Jill Ruppenkamp – Johnson & Johnson

Paul Coplan – Johnson & Johnson

Chantal Holy – Johnson & Johnson

Methods in Pharmacoepidemiology

Disease Risk Score as Alternative to Propensity Score Under Multiple Confounders and High Prevalence of Outcome: A Simulation Study Motivated by the Emergence of Multiple Repurposed Medicines During the COVID-19 Pandemic

PRESENTING AUTHOR

Yuchen Guo – University of Oxford

CO-AUTHORS

Sara Khalid – University of Oxford

Victoria Strauss – University of Oxford

M Sanni Ali – London School of Hygiene & Tropical Medicine

Daniel Prieto-Alhambra – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDROMS), University of Oxford, Oxford, UK

Methods in Pharmacoepidemiology

Cardinality Matching vs Propensity Score Matching in Multiple Sclerosis

PRESENTING AUTHOR

Nicholas Belviso – Biogen

CO-AUTHORS

Gabrielle Simoneau – Biogen

Bora Youn – Biogen

Fabio Pellegrini – Biogen

Changyu Shen – Biogen

Carl de Moor – Biogen

6:00 - 6:30 PM

CLOSING CEREMONY

SPEAKERS

Syd Phillips – Chair, ICPE Scientific Program Committee

Anton Pottegård – University of Southern Denmark

Jesper Hallas – University of Southern Denmark

8:00 - 9:30 PM

PLENARY

COVID-19 Vaccines: Timely Global Real-World Evidence Vaccines

MODERATOR

J. Bradley Layton – RTI Health Solutions

SPEAKERS

Miriam Sturkenboom – Department DataScience & Biostatistics, University Medical Center Utrecht

Steven Anderson – FDA/CBER

Carla Talarico – Moderna

Robert Chen – Brighton Collaboration

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Symposia/Workshops

WORKSHOP

Benefit-Risk Assessment, Communication, and Evaluation (BRACE)

Big Data in Health and Bioethics: A Call for a Comprehensive, Multi-Disciplinary, ISPE Position

PRESENTERS

Xavier Kurz – European Medicines Agency

Edward Bortnichak – Merck & Co., Inc.

Solomon Iyasu – Merck & Co. Inc.

Patrick Ryan – Janssen Research & Development

Ameet Sarpatwari – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School

AUTHOR

Peter Arlett – European Medicines Agency

Methods in Pharmacoepidemiology

Outcome Measurements for External Comparator Arms: New Opportunities for Epidemiology Methods Application and Development

PRESENTERS

Joan Largent – IQVIA

Emily Brouwer – Janssen

Cynthia Girman – CERObS Consulting, LLC

Christen Gray – AstraZeneca

Michele Jonsson Funk – University of North Carolina at Chapel Hill

Robert Glynn – Harvard T. H. Chan School of Public Health

CO-AUTHORS

Dimitri Bennett – Takeda

Kueiyu Joshua Lin – Brigham and Women's Hospital

Daniela Moga – Department of Pharmacy Practice and Science, College of Pharmacy, University of Kentucky

Sabina Nduaguba – University of Florida

Mary Prince Panaccio – Research Outcomes Innovations

Xuerong Wen – University of Rhode Island, College of Pharmacy

Richard Wyss – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA

Hongbo Yuan – Canadian Agency for Drugs and Technologies in Health

Huifeng Yun – Department of Epidemiology, University of Alabama at Birmingham

Methods in Pharmacoepidemiology

Polypharmacy: Problems and Solutions for its Methodologic Challenges in Real-World Data

PRESENTERS

Amy Justice – US Department of Veterans Affairs

Christopher Rentsch – London School of Hygiene & Tropical Medicine; US Department of Veterans Affairs

Kirsha Gordon – VA CT Healthcare System

Jonathon Romero – Oak Ridge National Laboratory

Jordan Guillot – Université de Bordeaux

Vincent Lo Re – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

Disease Epidemiology/Clinical Course

Real World Data in the Era of COVID-19: The Devil in the Details. An ISPE RWE Task Force/ COVID-19 Workgroup Symposium

PRESENTERS

Montse Soriano Gabarro – Bayer AG

Dana Teltsch – Apellis

Mugdha Gokhale – Center for Observational and Real-world Evidence (CORE), Merck Research Laboratories

Paul Petraro – Head, RWE Analytic CoE, Boehringer-Ingelheim

Jeremy Rassen – Aetion, Inc.

Stephan Lanes – HealthCore Inc

Soko Setoguchi – RWJ Medical School, Center for Pharmacoepidemiology and Treatment Science (PETS), Institute for Health, Health Care Policy and Aging Research

Daniel Prieto-Alhambra – Centre for Statistics in Medicine (CSM), Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences (NDRMS), University of Oxford, Oxford, UK

Symposia/Workshops



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WORKSHOP

Methods in Pharmacoepidemiology

COVID-19 Confidential: Enabling Trust in COVID-19 Research with Fit for Purpose Real-World Data

PRESENTERS

Niccole Gatto – Aetion, Inc.

Jessica Franklin – Optum

Elizabeth Garry – Aetion, Inc.

David Martin – Moderna

Aloka Chakravarty – Food and Drug Administration

Jeremy Rassen – Aetion, Inc.

Drug Utilization Research

**Drug Utilization Research in Africa:
Challenges and Potential Solutions**

PRESENTERS

Maribel Salas – Clinical Safety and Pharmacovigilance, Daiichi Sankyo Inc Basking Ridge, NJ and CCEB/CPeRT, University of Pennsylvania Perelman School of Medicine

Johanita Burger – Medicine Usage in South Africa (MUSA), North-West University

Laura Horne – Clinical Safety and Pharmacovigilance, Daiichi Sankyo Inc Basking Ridge

Johanna Meyer – Division of Public Health Pharmacy and Management, School of Pharmacy, Sefako Makgatho Health Sciences University

Ilse Truter – Nelson Mandela University

Methods in Pharmacoepidemiology

**Triangulating the Truth: State-of-the-Art Sensitivity
Analyses for Observational Research**

PRESENTERS

Marianne Cunningham – Glaxosmithkline

Ian Douglas – London School of Hygiene & Tropical Medicine

Jeremy Brown – London School of Hygiene and Tropical Medicine

Sonia Hernandez-Diaz – Harvard T.H. Chan School of Public Health

Daina Esposito – Boston University School of Public Health

Wilhelmine Meerhaus – Glaxosmithkline

Symposia/Workshops

WORKSHOP

Informatics

From the Individual Through the Health System and Back: The Interdisciplinary Promise and Challenges of Digital Epidemiology for Improved Outcomes (An ISPE Digital Epidemiology SIG Endorsed Symposium)

PRESENTERS

Lisa Weiss – Health Information Technology Lab

Heidi Dohse – Tour de Heart

Dana Teltsch – Apellis

Nancy Dreyer – IQVIA

John Cai – Merck

Helga Gardarsdottir – Division of Pharmacoepidemiology and Clinical Pharmacology, Utrecht Institute for Pharmaceutical Sciences, Utrecht University

Pregnancy and Lactation

How to Emulate a Target Trial to Study the Effects of Treatments for and During Pregnancy

PRESENTERS

Sonia Hernandez-Diaz – Harvard T.H. Chan School of Public Health

Sonja Swanson – Department of Epidemiology, Erasmus MC

Jennifer Yland – Department of Epidemiology, Boston University School of Public Health

Kristin Palmsten – HealthPartners Institute

Drug Effectiveness

Lessons for Regulatory Decision-Making from Real-World Data Trial Emulation Results

PRESENTERS

Shirley Wang – Brigham and Women's Hospital, Harvard Medical School

Sebastian Schneeweiss – Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA

William Crown – Brandeis University

Joseph Ross – Yale University

Peter Arlett – European Medicines Agency

Kenneth Quinto – US Food and Drug Administration

Yoshiaki Uyama – Pharmaceutical Devices and Medicines Agency

Vaccines

Methodological Approaches to Evaluating the Safety and Effectiveness of Multi-Dose Coronavirus Disease 2019 (COVID-19) Vaccines Series

PRESENTERS

Hui-Lee Wong – CBER, Center for Biologics Evaluation and Research, U.S. Food and Drug Administration

Xabier Garcia de Albeniz – RTI Health Solutions

Anne MobleyButler – Washington University in St. Louis

Heather Whitaker – Public Health England

Marc Suchard – University of California, Los Angeles

WORKSHOP

Methods in Pharmacoepidemiology

A Call for 'Environmental Pharmacoepidemiology': Medications, Global and Local Environments, and Health Outcomes

PRESENTERS

Benjamin Bates – Rutgers Robert Wood Johnson Medical School

Sean Hennessy – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, PA, USA

Michelle Bell – School of the Environment, Yale University, New Haven, CT, USA

Paul Coplan – Johnson & Johnson

Rachel Nethery – Department of Biostatistics, Harvard T.H. Chan School of Public Health

Soko Setoguchi – RWJ Medical School, Center for Pharmacoepidemiology and Treatment Science (PETS), Institute for Health, Health Care Policy and Aging Research

Methods in Pharmacoepidemiology

Believability of Real-World Evidence (RWE) for Informed Regulatory Decisions

PRESENTERS

Jacinthe Leclerc – Université du Québec à Trois-Rivières

Kimberly Brodovicz – Boehringer Ingelheim

Stephen Chang – FDA

Magdalene Assimon – University of North Carolina School of Medicine

Hisashi Urushihara – Keio University

Cynthia Gorman – CERobs Consulting, LLC

Symposia/Workshops

Methods in Pharmacoepidemiology New Frontiers in Computable Phenotyping for Medical Product Safety Evaluation

PRESENTERS

Rishi Desai – Division of Pharmacoepidemiology and
Pharmacoeconomics, Department of Medicine, Brigham and
Women's Hospital and Harvard Medical School, Boston, MA, USA

David Carrell – Kaiser Permanente Washington Health
Research Institute

Robert Ball – FDA

Katherine Liao – Brigham and Women's Hospital

Lindsay Collin – Huntsman Cancer Institute, University of Utah, Salt
Lake City, UT, USA

Sebastian Schneeweiss – Division of Pharmacoepidemiology
and Pharmacoeconomics, Department of Medicine, Brigham and
Women's Hospital and Harvard Medical School, Boston, MA, USA

Methods in Pharmacoepidemiology Using Real-World External Controls to Support Drug Approval: An Interactive Framework Using Oncology Trial and Real-World Data

PRESENTERS

Laura Hester – Janssen R&D, LLC

Donna Rivera – US Food & Drug Administration

Jennifer Lund – Department of Epidemiology, University of North
Carolina at Chapel Hill

Asieh Golozar – Regeneron Pharmaceuticals

Kourtney Davis – Janssen R&D, LLC

John Seeger – Optum Epidemiology

Leah Sansbury – GlaxoSmithKline

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Symposia/Workshops

WORKSHOP

Disease Epidemiology/Clinical Course

Pediatric Infection with Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-COV 2) and Potential Health Consequences (Submitted on behalf of the ISPE RWE COVID-19 Workgroup)

PRESENTERS

Ann McMahon – Office of Pediatric Therapeutics, Food and Drug Administration

Susan Coffin – Children's Hospital of Philadelphia

David Kimberlin – University of Alabama at Birmingham

Montse Soriano Gabarro – Bayer AG

Jonathan Davis – Tufts University Children's Hospital

Medical Devices

Product Surveillance and Signal Management: Now is the Time for Methodologist Engagement!

PRESENTERS

Mary Beth Ritchey – Med Tech Epi

Danica Marinac-Dabic – FDA/CDRH

Theodore Lystig – Medtronic

Paul Coplan – Johnson & Johnson

Methods in Pharmacoepidemiology

RWE Blueprints: Decoding SPACE, SPIFD, Start-RWE, and Other Tools Promoting Principled Pharmacoepidemiology

PRESENTERS

Elizabeth Garry – Aetion, Inc.

Nicolle Gatto – Aetion, Inc.

Shirley Wang – Brigham and Women's Hospital, Harvard Medical School

Ulka Campbell – Pfizer, Inc.

Methods in Pharmacoepidemiology

Selection Matters: Addressing Biases in Linked

Clinico-Genomic Data Sets

PRESENTERS

Katherine Panageas – Memorial Sloan Kettering Cancer Center

Kenneth Kehl – Dana-Farber Cancer Institute, Harvard Medical Center

Devin Incerti – Genentech

Til Stürmer – Department of Epidemiology, University of North Carolina at Chapel Hill

Methods in Pharmacoepidemiology

Strategies for the Use of Real-World Data to Conduct COVID-19-Related Pharmacoepidemiology

PRESENTERS

Vincent Lo Re – Center for Pharmacoepidemiology Research and Training, Center for Clinical Epidemiology and Biostatistics, Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

Noelle Cocoros – Harvard Pilgrim Health Care Institute

Candace Fuller – Harvard Pilgrim Health Care Institute

Wei Hua – Center for Drug Evaluation and Research, United States Food and Drug Administration

Silvia Perez-Vilar – Office of Surveillance and Epidemiology, Center for Drug Evaluation and Research, US Food and Drug Administration

Oral Presentations

T R A C K S

BENEFIT-RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE)	82
BIOLOGICS/BIOSIMILARS	82
DISEASE EPIDEMIOLOGY/CLINICAL COURSE	83
DRUG EFFECTIVENESS	84
DRUG UTILIZATION RESEARCH	86
GERIATRICS	90
HEALTH ECONOMICS/OUTCOMES RESEARCH	91
INFORMATICS	91
MEDICAL DEVICES	92
METHODS IN PHARMACOEPIDEMIOLOGY	93
PEDIATRICS	96
PHARMACOVIGILANCE	98
PREGNANCY AND LACTATION	98
RARE DISEASE	102
SAFETY END POINTS	103
VACCINES	104
POTPOURRI	105

Oral Presentations

BENEFIT-RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE)

Impact of FDA's Regulatory Actions on the Quality of Rems Survey Methodology Protocols (2007-2020)

Samuel Ewusie¹ | Janifer Quick² | Elaine Morrato³
Gita Toyserkani²

¹ORISE Fellow, Division of Risk Management, FDA; ²Division of Risk Management, FDA; ³Parkinson School of Public Health, Loyola University Chicago

Jak Inhibitors and the Risk of Cardiovascular and Venous Thromboembolism Events Among Patients with Rheumatoid Arthritis: A Network Meta-analysis of Clinical Trials

Carlos Alves¹ | Ana Penedones² | Diogo Mendes²
Francisco Batel Marques³

¹University of Coimbra, School of Pharmacy; ²UFC – Coimbra Regional Pharmacovigilance Unit, CHAD – Centre for Health Technology Assessment and Drug Research, AIBILI; ³Faculty of Pharmacy, University of Coimbra

Preferences Concerning Drug Safety Communication of Hospital-Based Specialist in the Netherlands

Esther de Vries¹ | Elisabeth Bakker¹ | Petra Denig²
Peter Mol³

¹University of Groningen, University Medical Center Groningen, Department Clinical Pharmacy and Pharmacology, Groningen, the Netherlands; ²University Medical Center Groningen; ³University of Groningen, University Medical Center Groningen, Department of Clinical Pharmacy and Pharmacology, The Netherlands

Regulatory Approval of Phentermine/topiramate for Obesity Management and Off-label Use of Topiramate: A Fairytale for Drug Repurposing and a Maze for Risk Mitigation

Amir Sarayani¹ | William T. Donahoo² | Christian Hampp³
Joshua D Brown⁴ | Almut G Winterstein⁵

¹University of Florida Department of Pharmaceutical Outcomes and Policy; ²College of Medicine, University of Florida; ³US Food and Drug Administration; ⁴Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida; ⁵Department of Pharmaceutical Outcomes and Policy and Center for Drug Evaluation and Safety, College of Pharmacy, University of Florida

Risk of Myocardial Infarction, Stroke or Death in New Users of Intravitreal Aflibercept vs New Users of Intravitreal Ranibizumab: A Nationwide Cohort Study

Sophie Billioti de Gage¹ | Marion Bertrand²
Mahmoud Zureik²

¹French National Agency for Medicines and Health Products Safety; ²EPI-PHARE, Epidemiology of Health Products (French National Agency for the Safety of Medicines and Health Products, and French National Health Insurance)

What Matters to Patients When Considering Treatments for Prevention of Rheumatoid Arthritis: A Preference Study in the United Kingdom, Germany, and Romania

Rachael DiSantostefano¹ | Marie Falahee²
Gwenda Simons² | Matthias Englbrecht³
Christine Radawski⁴ | Karim Raza² | Jorien veldwijk⁵

¹Johnson & Johnson; ²Institute of Inflammation and Ageing, College of Medical and Dental Sciences, University of Birmingham, Birmingham, UK; ³Freelance Data Scientist, Eckental, Germany; ⁴Eli Lilly and Company; ⁵School of Health Policy & Management, Erasmus University Rotterdam, Rotterdam, The Netherlands

BIOLOGICS / BIOSIMILARS

Discontinuation Rate of Tofacitinib is Similar When Compared to TNF Inhibitors in Rheumatoid Arthritis Patients: Data from a Rheumatoid Arthritis Cohort

Mohammad Movahedi¹ | Angela Cesta² | Xiuying Li²; Edward Keystone³ | Claire Bombardier² | OBRI Investigators⁴

¹University Health Network (Toronto); ²Toronto General Hospital Research Institute, University Health Network, Toronto, ON; ³Department of Medicine, University of Toronto, Toronto, ON; ⁴Toronto General Hospital Research Institute, University Health Network, Toronto, ON

Oral Presentations

DISEASE EPIDEMIOLOGY / CLINICAL COURSE

Chronic Diseases, Health Conditions and Risk of COVID-19-related Hospitalization and In-hospital Mortality During the First Wave of the Epidemic in France: A Cohort Study of 66 Million People

Mahmoud Zureik¹ | Laura Semenzato² | Jérémie Botton²
Jérôme Drouin² | François Cuenot² | Rosemary Dray-Spira³
Alain Weill⁴

¹EPI-PHARE, Epidemiology of Health Products (French National Agency for the Safety of Medicines and Health Products, and French National Health Insurance); ²EPI-PHARE Scientific Interest Group in Epidemiology of Health Products from the French National Agency for the Safety of Medicines and Health Products and the French National Health Insurance; ³EPI-PHARE, Epidemiology of Health Products (French National Agency for the Safety of Medicines and Health Products [ANSM], and French National Health Insurance [CNAM]), Saint-Denis, France; ⁴French National Health Insurance Fund (Assurance Maladie)

Comparable COVID-19 Outcomes with Current Use of GLP-1 Receptor Agonists, DPP-4 Inhibitors or SGLT-2 Inhibitors Among Patients with Diabetes Who Tested Positive for sars-cov-2

Simone Bastrup Israelsen¹ | Anton Pottegård²
Håkon Sandholdt¹ | Sten Madsbad³ | Reimar Thomsen⁴
Thomas Benfield¹

¹Center of Research and Disruption of Infectious Diseases, Department of Infectious Diseases, Copenhagen University Hospital, Amager and Hvidovre, Hvidovre, Denmark; ²University of Southern Denmark; ³Department of Endocrinology, Copenhagen University Hospital, Amager and Hvidovre, Hvidovre, Denmark; ⁴Department of Clinical Epidemiology, Aarhus University, Aarhus, Denmark

Development and Validation of an Algorithm to Estimate the Risk of Severe Complications of COVID-19 to Prioritise Vaccination

Ron M.C. Herings¹ | Karin Swart¹ | Bernard van der Zeijst²
Amber van der Heijden³ | Koos van der Velden⁴
Eric Hiddink⁵ | Martijn Heymans⁶ | Reinier Herings⁷
Hein van Hout³ | Joline Beulens⁶ | Giel Nijpels³
Petra Elders³

¹PHARMO Institute; ²Department of Medical Microbiology, Leiden University Medical Center, Leiden, the Netherlands; ³Department of General Practice, Amsterdam UMC – Vrije Universiteit, Amsterdam Public Health, Amsterdam, the Netherlands; ⁴Department of Primary and Community Care, Academic Collaborative Center AMPHI, Integrated Health Policy, Radboud University Medical Center, Nijmegen, the Netherlands; ⁵Stichting Health Base, Houten, the Netherlands; ⁶Department of Epidemiology & Data Science, Amsterdam UMC – Vrije Universiteit, Amsterdam Public Health, Amsterdam Cardiovascular Sciences, Amsterdam, the Netherlands; ⁷Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht, the Netherlands

Hyperthyroidism and Breast Cancer Recurrence and Mortality: A Danish Population-based Cohort Study

Line Libergreen¹ | Rikke Noergaard Pedersen²
Anders Kjærsgaard³ | Deirdre Cronin-Fenton⁴

¹Department of Clinical Epidemiology - Aarhus University;
²Department of Clinical Epidemiology, Aarhus University Hospital;
³Department of Clinical Epidemiology - Aarhus University Hospital;
⁴Department of Clinical Epidemiology, Aarhus University Hospital, Aarhus, Denmark

Impact of Non-alcoholic Steatohepatitis (NASH) Case Definition on Population Characteristics Identified in a US Claims Database

Kerrin Gallagher¹ | Daina B Esposito² | Aziza Jamal-allial¹
Simo Du³ | Yuval Patel⁴ | Mindie Nguyen⁵ | Erik Ness⁶
Thomas Capozza⁷ | Lina Titievsky⁶

¹HealthCore, Inc.; ²Boston University School of Public Health;
³HealthCore; ⁴Duke University; ⁵Stanford University; ⁶Intercept Pharmaceuticals; ⁷Intercept Pharmaceuticals, Inc.

Incidence and Risk Factors for COVID-related Urgent Medical Visits Among US Patients Diagnosed with COVID-19 in the Outpatient Setting

Wenhui Wei¹ | Scott Mellis¹ | Gregory P Geba¹
Sumathi Sivapalasingam¹ | Jessica Jalbert²

¹Regeneron Pharmaceuticals, Inc., Tarrytown, NY; ²Regeneron Pharmaceuticals

Incidence Rates of Select Outcomes Among Patients with Non-alcoholic Steatohepatitis (NASH) and Evidence of Fibrosis and Cirrhosis

Monica Bertoia¹ | Erik Ness² | Thomas Capozza³
Lina Titievsky² | John D Seeger¹

¹Optum Epidemiology; ²Intercept Pharmaceuticals; ³Intercept Pharmaceuticals, Inc.

Persistence of COVID-19 Symptoms 90 Days Post-acute Infection: Insights from a Community-based Registry

Matthew Reynolds¹; Nancy A. Dreyer; Lisa Albert¹; Emma Brinkley²; Damir Mohamed¹; Christina Mack²

¹IQVIA; ²IQVIA

Severe Obesity Is a Risk Factor for Mortality in Patients with COVID-19

Aisling Caffrey¹ | Jennifer Liao² | Vrishali Lopes³
Kerry LaPlante³

¹University of Rhode Island College of Pharmacy; ²Department of Veterans Affairs; ³Infectious Diseases Research Program, Providence Veterans Affairs Medical Center, Providence, RI, United States

Oral Presentations

DISEASE EPIDEMIOLOGY / CLINICAL COURSE

The Effect of Epidural Steroid Injections on Fracture Risk Among Medicare Patients

Huifeng Yun¹ | Ye Liu² | Kenneth Saag³ | Katherine Haseltine⁴ | Emily Stein⁴ | Jeffrey Curtis⁵

¹Department of Epidemiology, University of Alabama at Birmingham; ²University of Alabama at Birmingham; ³Division of Clinical Immunology and Rheumatology; ⁴HSS hospital; ⁵University of Alabama Birmingham

Utilizing the National COVID Cohort Collaborative (N3C) to Evaluate Risk of Serious Outcomes with COVID-19 Among Chronically Immunosuppressed Persons

Kayte Andersen¹ | Emaan S Rashidi² | Huijun An³ | Hemalkumar B Mehta⁴ | Derek Ng² | Brian Garibaldi⁵ | Jodi Segal³ | G. Caleb Alexander⁶

¹JHSPH Center for Drug Safety & Effectiveness; ²Johns Hopkins Bloomberg School of Public Health; ³Johns Hopkins University; ⁴Bloomberg School of Public Health, Johns Hopkins University; ⁵Johns Hopkins Medicine; ⁶Johns Hopkins Center for Drug Safety and Effectiveness

Predictors of Critical Care, Mechanical Ventilation, and Mortality Among Hospitalized Patients with COVID-19 in an Electronic Health Record Database

Andrea Chomistek¹ | Caihua Liang² | Michael Doherty³ | Robin Clifford³ | Rachel Ogilvie¹ | Robert Gately³ | Jennifer Song³ | Cheryl Enger⁴ | Nancy Lin⁵ | Florence Wang³ | John Seeger¹

¹Optum Epidemiology; ²Pfizer Inc; ³Optum; ⁴Optum, Boston, MA, USA; ⁵Health Catalyst

DRUG EFFECTIVENESS

Anticoagulants and All-Cause Mortality Among Hospitalized COVID-19 Patients

Caihua Liang¹ | Li Zhou² | Michael Doherty² | Robert Gately² | Rachel Ogilvie³ | Andrea Chomistek³ | Florence Wang² | John D Seeger³ | Jessica Franklin²

¹Pfizer Inc; ²Optum; ³Optum Epidemiology

Calibrating Real-world Evidence Studies Against Randomized Trials: Treatment Effectiveness of Infliximab in Inflammatory Bowel Disease

Julien Kirchgesner¹ | Rishi J Desai² | Maria Schneeweiss³ | Laurent Beaugerie⁴ | Seoyoung Kim³ | Sebastian Schneeweiss⁵

¹Sorbonne Université, INSERM, Institut Pierre Louis d'Epidémiologie et de Santé Publique, Paris, France; ²Harvard Medical School/Brigham & Women's Hospital; ³BWH Div of Pharmacoepidemiology and Pharmacoeconomics; ⁴Sorbonne Université, INSERM, Institut Pierre Louis d'Epidémiologie et de Santé Publique, AP-HP, Hôpital Saint-Antoine, Department of gastroenterology, Paris, France; ⁵Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA

Cardiovascular Effectiveness of SGLT-2 Inhibitors vs Metformin as First-line Treatment for Type 2 Diabetes

HoJin Shin¹ | Sebastian Schneeweiss² | Robert Glynn³ | Elisabetta Patorno¹

¹Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School; ²Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA; ³Harvard T. H. Chan School of Public Health

Comparative Effectiveness of Empagliflozin in Reducing Total Cardiovascular Events in the Empagliflozin Comparative Effectiveness and Safety (EMPRISE) Study

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Oral Presentations

DRUG EFFECTIVENESS

Convalescent Plasma Therapy and Mortality Among US Veterans Hospitalized with Non-severe COVID-19: An Observational Analysis Emulating a Target Trial

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Arin L Madenci⁴ | Hanna Gerlovin⁵ | Helen Wellman⁵ Annie
Doubleday³ | Eva Thomas³ | Yojin Park⁶ | Yuk-Lam Ho⁷
Jonathan Sugimoto³ | Kathryn Moore³ | Alexander Peterson³
Constance Hoag⁶ | Kalpana Gupta⁸ Karen Jeans⁹ | Molly Klote⁹
Rachel Ramoni⁹ | Grant Huang⁹ | Juan Casas⁵ David Gagnon⁵
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Effect of SGLT-2 Inhibitors on EGFR in Type 2 Diabetes with Different Baseline Renal Functions: A Multi-center Study

Fang-Ju Lin¹ | Chi-Chuan Wang² | Chien-Ning Hsu³
Chen-Yi Yang⁴ | Chih-Yuan Wang⁵ | Huang-Tz Ou⁴

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Efficacy and Safety of Treatments for Nonmetastatic Castration-resistant Prostate Cancer: A Matching-adjusted Indirect Comparison and Network Meta-analysis

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Initiation of Sodium-glucose Co-transporter 2 Inhibitors and Progression of Renal Disease Among Patients with Type 2 Diabetes: A Population-based Cohort Study

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Baiju Shah⁴ | Jasjeet Minhas-Sandhu³
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Physician and Patient Reported Effectiveness Outcomes Are Similar in Tofacitinib and TNF Inhibitors in Rheumatoid Arthritis Patients: Data from a Rheumatoid Arthritis Registry in Canada

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Safety and Effectiveness of Prophylactic Anticoagulation for Prevention of COVID-19 Mortality: A Nationwide Cohort Study of Hospitalised Patients in the US

Christopher Rentsch¹ | Joshua Beckman²
Laurie Tomlinson³ | Walid Gellad⁴ | Charles Alcorn⁵
Farah Kidwai-Khan⁶ | Melissa Skanderson⁶ | Evan Brittain²
Joseph King⁷ | Yuk-Lam Ho⁸ | Svetlana Eden⁹
Suman Kundu¹⁰ | Michael Lann⁵ | Robert A Greevy¹⁰
P. Michael Ho⁶ | Paul Heidenreich¹¹ | Daniel Jacobson¹²
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Shorter Drug Holiday After 3 or More Years of Risedronate vs Alendronate Is Important to Maintain Osteoporotic Fracture Protection

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Changes in Buprenorphine Utilization During the COVID-19 Pandemic in the US

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Oral Presentations

DRUG UTILIZATION RESEARCH

COVID-19 in Children: Treatment Patterns in the Real-world Hospital Setting

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Disparities in Hepatitis C Treatment in the Era of Direct-acting Antivirals Among Arizona Medicaid Beneficiaries

Hyunjin Song¹ | Ching-Yuan Chang¹ | Xinyi Jiang² | Debbie Wilson³ | Wei-Hsuan Lo-Ciganic⁴ | Haesuk Park⁵

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Do Medicare Part D Low-income Subsidies Narrow Disparities in Orally-administered Antimyeloma Therapy Initiation?

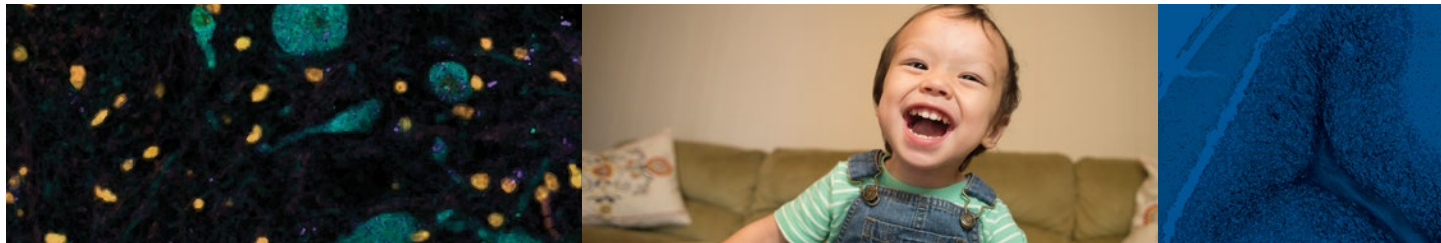
Shelley Jazowski¹ | Cleo Samuel-Ryals¹ | William Wood¹ | Leah Zullig² | Justin Trogon¹ | Stacie Dusetzina³

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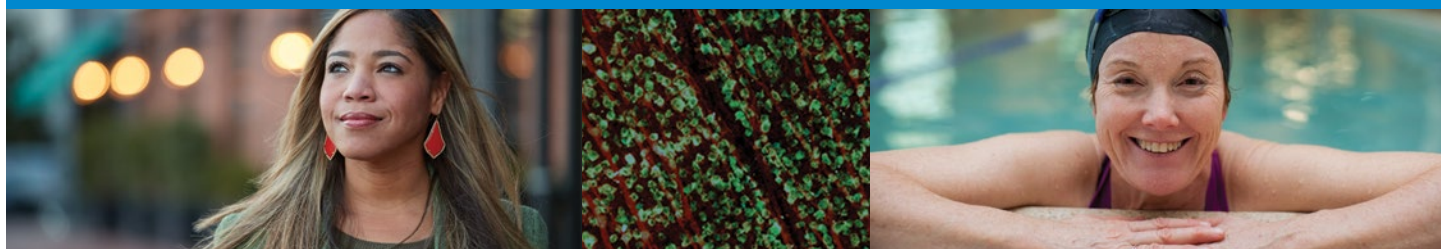
Geographic Variation in the Use of Gabapentinoids and Opioids for Pain in a Commercially Insured Population in the United States

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Oral Presentations

DRUG UTILIZATION RESEARCH

Heterogeneity and Temporal Variation in the Management of COVID-19: A Multinational Drug Utilisation Study Including 274,719 Hospitalised Patients From, the United States of America, China, Spain, and South Korea

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Waheed-Ul-Rahman Ahmed⁴ | Heba Alghoul⁵ | Osaid Alser⁶
Thamir Alshammari⁷ | Carlos Areia⁸ | William Carter⁹
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Daniel Morales¹⁶ | Fredrik Nyberg¹⁷
Jose Posada¹⁸ | Martina Recalde¹⁹ | Elena Roel¹⁹
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Influence of Drug Safety Advisories on Drug Utilization: An International Interrupted Time Series and Meta-analysis Study

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Anna Kemp-Casey⁴ | Lorri Puil¹ | Ingrid Sketris⁶
Dee Mangin⁷ | Christine Hallgreen⁸ | Sallie-Anne Pearson⁹
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Non-adherence and Non-persistence with Direct Oral Anticoagulants Increases the Risk of Stroke: Assessment in Three European Databases

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Dirk Enders³ | Rosa Gini⁴ | Claudia Bartolini⁵
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Oral Presentations

DRUG UTILIZATION RESEARCH

Prevalence of Osteoporosis and Its Treatment Among Women ≥ 50 in NHANES: 1999-2018

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Primary Care Physicians' Preparedness to Treat Opioid Use Disorder in the United States: A Cross-sectional Survey

Kathryn Foti | James Heyward¹ | Matthew Tajanlangit²
Kristin Meek² | Christopher Jones³ | Andrew Kolodny⁴
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Prior Opioid Tolerance Among New Users of Transdermal Fentanyl in Taiwan, 2011-2018

Chih-Wan Lin¹ | Yu-Chun Chiu² | Wei-I Huang²
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Ranitidine and Other histamine₂-receptor Antagonists – A Rapid Response Drug Utilisation Study Using Electronic Health Care Data from Six European Countries

Katia M Verhamme¹ | Maria de Ridder² | Christian Reich³
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Real World Use of Anticoagulation Among Hospitalized Patients with COVID-19 in the United States

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Chang Xu⁴ | Soko Setoguchi⁵

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Serum Vitamin D Levels and Incident Prescription Opioid Use Among Opioid-Naïve Patients

Casey Choong¹ | Zuoyi Zhang² | Yiqing Song³
Brian Dixon⁴ | Jiali Han³ | Xin Li³

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Sources of Racial/ethnic Disparities in Antidepressant Treatment: Analysis of the Medical Expenditure Panel Survey Data

Macarius Donneyong | Teng-Jen Chang
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Substantial Heterogeneity in the Management of Hospitalized Patient with COVID-19

Aisling Caffrey¹ | Jennifer Liao² | Vrishali Lopes³
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The Impact of Sex on the Quality of Medication Treatment in Patients with Type 2 Diabetes

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Sieta de Vries⁴ | Petra Denig²

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Trajectories of Pregabalin Use and Their Association with Longitudinal Changes in Opioid and Benzodiazepine Daily Dose

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Oral Presentations

DRUG UTILIZATION RESEARCH

Trends and Outcomes of Serious Complications Associated with Non-fatal Opioid Overdoses in Ontario, Canada

Sophie Kitchen¹ | Daniel McCormack² | Daniel Werb¹
Alexander Caudarella¹ | Diana Martins¹ | Flora Matheson¹
Tara Gomes¹

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Trends in Long-term Use of Prescribed Opioids in Norway 2010-2019

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Use of Cardiovascular and Antidiabetic Drugs During COVID19 Epidemic in France

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Anne Benard-Laribiere² | Pernelle Noize³ | Marie tournier⁴
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Use of Hydroxychloroquine, Remdesivir, and Dexamethasone Among Adults Hospitalized with COVID-19 in the United States: results from the National COVID Cohort Collaborative (N3C)

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Omar Mansour⁴ | Vithal Madhira⁵ | Emaan S Rashidi⁶
Benjamin Bates⁷ | Soko Setoguchi⁸ | Corey Joseph⁹
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¹²University of Colorado School of Medicine, University of Colorado, Aurora, CO; ¹³Johns Hopkins Medicine; ¹⁴Johns Hopkins Center for Drug Safety and Effectiveness

Utilization of Non-pharmacologic Pain Therapies Among Primary Care Physicians in the United States: A Cross-sectional Survey

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Kristin Meek² | Christopher Jones³ | Andrew Kolodny⁴
G. Caleb Alexander²

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Visualizing Inappropriate Antibiotic Use Following Otitis Media in Children in the United States

Leah McGrath¹ | Jason Newland² | John Sahrman²
YinJiao Ma² | Anne Mobley M Butler²

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Oral Presentations

GERIATRICS

Assessment of Co-medication Quality in Older Colorectal Cancer Patients at Hospital Discharge After Tumor Surgery and Its Associations with Chemotherapy-related Adverse Drug Reactions and 5-year Survival

Li-Ju Chen | Ben Schöttker

Division of Clinical Epidemiology and Aging Research, German Cancer Research Center (DKFZ)

Bisphosphonate Use and Risk of Severe Acute Kidney Injury: A Self-controlled Case Series in Frail Elderly Patients in the UK

Tetsuro Oda¹ | Annika Jodicke² | Danielle Robinson³

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Comparative Risk of Cardiac Arrhythmias Associated with Acetylcholinesterase Inhibitor Use

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Risk of Cardiotoxicity Associated with Fluoropyrimidine-based Chemotherapy Among Older Colorectal Cancer Patients: A New User Cohort Study

Chao Li¹ | Chiahung Chou¹ | Surachat Ngorsuraches¹

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Risk of Delirium Associated with Antimuscarinics in Older Adults: A Case-time-control Study

Prasad Nishtala

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Risk of Falls Following the Initiation of Antihypertensives in the Elderly: A Self-controlled Case Series in the UK

Annika Jodicke¹ | Eng Hooi (Cheryl) Tan¹

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Statin Discontinuation and Risk of Cardiovascular Events in Older People: A Population-based Cohort Study in Denmark

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Jacob Andersen¹ | Martin Ernst¹ | Jesper Nielsen¹

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Uncontrolled Pain and Risk for Depression and Behavioral Symptoms in Patients with Dementia

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Use of Medications with Anticholinergic and Sedative Properties and Fall-related Fractures Among Older Adults

Shahar Shmuel¹ | Virginia Pate² | Marc Pepin³

Janine Bailey³ | Yvonne Golightly² | Laura Hanson⁴

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Oral Presentations

HEALTH ECONOMICS / OUTCOME RESEARCH

Comparative Risk of Hospitalization for Heart Failure Among Patients with Xanthine Oxidase Inhibitors and Uricosuric Agents

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Cost-effectiveness of Systematic Treatments for Metastatic Castration-sensitive Prostate Cancer: An Economic Evaluation Based on Network Meta-analysis

Lin Wang¹ | Jeromie Ballreich² | Hwanhee Hong³

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Impact of Race, Ethnicity, and Sex on Treatment of Non-valvular Atrial Fibrillation

Larry Jackson¹ | Diane Francis² | Sonia Maccioni²

Vincent Thomas³ | Jennifer Wood⁴ | Guy Cafri⁴

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Participant Engagement and Adherence in an Arthritispower Real-world Study to Capture Smartwatch and Patient-reported Outcome Data Among Rheumatoid Arthritis Patients

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Telemedicine Use Among U.S. Patients with Cancer During the COVID-19 Pandemic

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The Friends of Cancer Research Real World Data (RWD) Pilot 2.0 Collaboration: Implementation of Standardized Methodological Approaches for Evaluation of Oncology RWD

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Mark Walker⁴ | Joseph Wagner⁵ | Emily Valice⁶

Connor Sweetnam⁷ | Elad Sharon⁸ | Lori Sakoda⁶

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INFORMATICS

Shifting the Traditional Model of Analysing Downloaded Electronic Health Records to the Novel Open-source Analytics Opensafely Platform

Angel Wong¹ | Brian MacKenna² | Caroline Morton² | Anna Schultze | Alex Walker² | Krishnan Bhaskaran¹

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Oral Presentations

M E D I C A L D E V I C E S

An Evaluation of Direct and Propensity Score Matching vs Propensity Score Stratification for Confounding Adjustment in Primary Total Hip Arthroplasty

Abhishek Chitnis¹ | Jack Mantel² | Juan Daccach³
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Comparative Patient Characteristics of Transcatheter Left Atrial Appendage Occlusion vs Oral Anticoagulants for Stroke Prevention in Atrial Fibrillation

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Sushama Kattinakere Sreedhara² | Krista F Huybrechts³
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Comparison of 10- and 15-year Outcomes of Bioprosthetic and Mechanical Aortic Valve Replacement in Patients Aged Under 65 Years: Australian Study Using Linked Data for 4,704 Patients

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Leveraging Artificial Intelligence (AI) Technologies for Automated Identification of Total Knee Arthroplasty (TKA) Devices in Electronic Health Records

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Persistence of Anticoagulation After Receiving Transcatheter Left Atrial Appendage Occlusion vs Oral Anticoagulants for Stroke Prevention in Atrial Fibrillation

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Population Testing for COVID-19: Can a Rapid Antigen Test Rule out Infection?

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Natalia Petruski-Ivleva³ | Deverick J Anderson⁴
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Real-world Epidemiologic and Genetic Evidence Synthesis Reveals the Sex-dependent Role of GNAS Snps in Hip Arthroplasty Related Periprosthetic Osteolysis

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Sex-differences in Risk of Early Revision After Primary Total Knee Arthroplasty

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The Association Between Bariatric Surgery and Carpal Tunnel Syndrome: A Cohort Study from Swedish Nationwide Healthcare Registries

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Oral Presentations

M E D I C A L D E V I C E S

The Association Between Bariatric Surgery and Cataract: A Cohort Study from Swedish Nationwide Healthcare Registries

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M E T H O D S I N P H A R M A C O E P I D E M I O L O G Y

A New Method to Estimate the Total Cohort Size for Patient Recruitment in self-controlled Case Series Study

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A Plasmode Simulation of Covariate Misclassification and Transportability

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Epidemiology, University of North Carolina at Chapel Hill

A Systematic Approach Towards Missing Lab Data in Electronic Health Records: A Case Study in Non-small Cell Lung Cancer and Multiple Myeloma

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USA; ³Real World Data Collaborations, Personalized Healthcare Data
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Cardinality Matching vs Propensity Score Matching in Multiple Sclerosis

Nicholas Belviso | Gabrielle Simoneau | Bora Youn
Fabio Pellegrini | Changyu Shen | Carl de Moor
Biogen

Categorization of COVID-19 Severity to Determine Mortality Risk

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Controlling for Differential Regression to the Mean Using Summary Measures of Pre-treatment Laboratory Values in Propensity Scores

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Death Documentation Lag in COVID-19 Electronic Health Record (EHR) Suggests Caution in Near-real- time Analysis

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Disease Risk Score as Alternative to Propensity Score Under Multiple Confounders and High Prevalence of Outcome: A Simulation Study Motivated by the Emergence of Multiple Repurposed Medicines During the COVID-19 Pandemic

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Medicine; ³Centre for Statistics in Medicine (CSM), Nuffield
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Evaluating When Effect Estimates Change After Propensity Score Trimming Because of Differing Effect Measure Modifier Distributions

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Oral Presentations

METHODS IN PHARMACOEPIDEMIOLOGY

Graphical Representation of an Array of Quantitative Bias Analysis Scenarios for Differential Outcome Misclassification

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Identifying Active Pregnancies Using ICD-10 Z3A Codes vs Completed Pregnancies Using Outcomes

Monica Bertoia¹ | Li Zhou² | Michael Doherty²
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Improving Methods of Identifying Anaphylaxis for Medical Product Safety Surveillance Using Natural Language Processing and Machine Learning

David Carrell¹ | Susan Gruber² | James Floyd³
Maralyssa Bann⁴ | Kara Cushing-Haugen¹ | Ron Johnson¹
Vina Graham¹ | David Cronkite¹ | Brian Hazlehurst⁵
Andrew Felcher⁵ | Cosmin Bejan⁶ | Adele Kennedy⁷
Mayura Shinde⁸ | Sara Karami⁹ | Yong Ma¹⁰
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Linear Mixed Model and Multistate Markov Model to Compare Changes in Clinical Measurements over Time. a Blood Pressure Example

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Longitudinal Adherence Trajectories to Biologic Disease Modifying Anti-rheumatic Drugs in Tuscany, Italy

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Rosa Gini⁴ | Massimiliano Cazzato⁵ | Giulia Valdiserra⁶
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Optimization-based Stable Balancing Weights vs Generalized Boosted Modeling for Propensity Score Weighting

Stephen Johnston¹ | Luo Li¹ | Harikumar Dwarakanathan²
David Wei¹ | Pragya Rai¹ | Paul Coplan¹

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Rank-based Weighting for Balancing on Median Baseline Characteristics in Matching Adjusted Indirect Comparisons (MAIC)

Shirley Liao | Carl de Moor | Angela D Paradis | Justin Bohn
Changyu Shen | Gabrielle Simoneau | Fabio Pellegrini
Biogen

Risk of Malignancies in Newly Treated Patients with Disease-modifying Drugs for Multiple Sclerosis: Assessment According to Cohort and Nested-case Control Approaches

Pauline Bosco-Levy¹; Emmanuelle Boutmy²; Angela Grelaud³; Meritxell Sabido Espin⁴; Pauline Diez³; Clémentine Lacueille³; Régis Lassalle³; Caroline Foch²; Cécile Droz-Perroteau⁵

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Oral Presentations

METHODS IN PHARMACOEPIDEMIOLOGY

Sessa Empirical Estimator (SEE): A Data-driven Method for Predicting the Duration of Pharmacological Prescriptions in Secondary Data Sources

Maurizio Sessa

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Stable Balancing Weights for Unanchored Matching-adjusted Indirect Comparisons and Targeting External Control Arm Estimands

Stephen Johnston¹ | Harikumar Dwarakanathan²

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The Effect of the Anticholinergic Properties of Antidepressants on the Incidence of Dementia: A Target Trial Emulation

Joan Forn¹ | Jaume Aguado¹ | Elena Rivero-Ferrer¹

Estel Plana¹ | Barbra Dickerman²

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The Impact of Longitudinal Data-completeness of Electronic Health Record (EHR) Data on Prognostic Risk Score Misclassification

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The Performance of Different Strategies to Manage Confounding in Cardinality Matching for Medical Device Epidemiology: A Simulation Study

Mike Du¹ | Sara Khalid² | Daniel Prieto-Alhambra³

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Use of an EHR to Inform a Claims-based Algorithm to Categorize Inpatient COVID-19 Severity

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Tamar Lasky² | Aloka Chakravarty³ | Sandy Leonard⁴

Sarah Vitito¹ | Jeremy A Rassen⁵ | Nicolle M Gatto¹

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Use of Linked Databases for Improved Confounding Control: Considerations for Potential Selection Bias

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Using Randomized Trial Data to Estimate Effects of Complex Treatment Regimens in Real-world Patients

Michael Andrew Webster-Clark¹ | Jennifer Lund²

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Validation of an Algorithm to Identify Hormonal Contraceptive Exposure in a Large Integrated Health Care Delivery System Database

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Validity of Electronic Health Records-based Measures for COVID-19 Hospitalization and Severe Outcomes

Sharon Fuller¹ | Kathy Gleason² | Rod Walker¹

Stephen Fortmann³ | Ladia Albertson-Junkans¹

J. David Powers² | Mi Lee³ | James Floyd⁴

Lisa Temposky¹ | Susan Shortreed¹ | Elizabeth Bayliss²

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Oral Presentations

P E D I A T R I C S

Antibiotic Prescribing in Children Aged 0-6 Years in Germany: Assessing Regional Variations and Potential Explanations Based on Claims Data

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Early Life Antibiotic Exposure and Incident Chronic Diseases in Childhood

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Filled Prescriptions for Opioids Among Children and Adolescents – a Nationwide Study from 2010 to 2018

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General Practitioner Prescribing Trends Among Pediatric Patients in the United Kingdom: 1998-2018

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Impact of Drug-related Regulations on Codeine Use Among Children in Taiwan: A Nationwide Interrupted Time Series Analysis from 2005 to 2018

Chih-Wan Lin¹ | Yu-Jie Huang² | Wei-I Huang²
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Prescribed Medicine Use in a Nationwide Sample of Australian Children: Extent of Off-label Use

Andrea Schaffer¹ | Natasha Nassar² | Claudia Bruno³
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Risk of Type 2 Diabetes Among Children Initiating Anticonvulsant Mood Stabilizers: Application of a Target Trial Approach

Jenny Sun¹ | Jessica Young | Aaron Sarvet²
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Selective Serotonin Reuptake Inhibitors and the Risk of Type 2 Diabetes Mellitus in Youths

Thi Xuan Dai Cao¹ | Christopher Filliter²
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Science is resilient.
It can overcome diseases,
create cures, and yes,
even beat pandemics.
It has the methodology
and the rigor
to withstand even
the most arduous scrutiny.
It keeps asking questions and
until there's a breakthrough,
it isn't done.
That's why, when the world
needs answers, we turn to science.
Because in the end
SCIENCE WILL WIN.™



Oral Presentations

PHARMACOVIGILANCE

Comparing the Risk of Venous Thromboembolism in Rheumatoid Arthritis Patients Receiving Tofacitinib and TNF Inhibitors in Taiwan

Chin-Yao Shen | Tzu-Chi Liao | Edward Chia-Cheng Lai
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Impact of COVID-19 Social Distance Restrictions on Hospital Encounters Due to Injury by Poisoning or Toxicity of Medications or Non-medicinal Substances

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PREGNANCY AND LACTATION

Antidepressant Use During Pregnancy and the Risk of Neurodevelopmental Disorders in Children

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Sonia Hernandez-Diaz³ | Loreen Straub⁴ | Yanmin Zhu⁴
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Balance of Unmeasured Covariates After Propensity Score Matching Based on Measurable Covariates in Perinatal Pharmacoepidemiologic Studies

Yanmin Zhu¹ | Thuy Thai² | Sonia Hernandez-Diaz³
Brian Bateman⁴ | Loreen Straub¹ | Kathryn Gray⁵
Almut Winterstein² | Lockwood Taylor⁶
Rita Ouellet-Hellstrom⁶ | Yong Ma⁶ | Yandong Qiang⁶
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Benzodiazepine Use in the First Trimester and Risk of Congenital Malformations: A Nationwide Cohort Study in South Korea

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Characteristics and Outcomes of Pregnancies in Women with Heart Failure: A Retrospective Cohort Study in the Sentinel System

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Characteristics of Initial Postpartum Opioid Prescribing and Risks of Serious Opioid-related Events After Cesarean Delivery

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Comparative Safety of In-utero Exposure to Buprenorphine Combined with Naloxone vs Buprenorphine Monoproduct with Respect to Congenital Malformations

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Oral Presentations

P R E G N A N C Y A N D L A C T A T I O N

COVID-19 Pharmacotherapy During Pregnancy: International Registry of Coronavirus Exposure in Pregnancy (IRCEP)

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Development and Validation of ICD-10 Claims-based Algorithms for Pregnancy and Infant Outcomes

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Effects of Gadolinium-enhanced MRI Exposure During Pregnancy on Neonatal Intensive Care Unit Admission

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Feasibility of Using Healthcare Utilization Data to Identify Neurodevelopmental Disorders for Transgenerational Pharmacoepidemiology

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Fertility Rates in Women with Psoriasis and Psoriatic Arthritis: A Population-based Cohort Study

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First Trimester Exposure to Buprenorphine Compared to Methadone for Treatment of Opioid Use Disorders and the Risk of Congenital Malformations

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Implication of Maternal Continuous Enrollment on Stillbirth Gestational Age Distributions and Maternal Characteristics in Medicaid Enrollees

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Oral Presentations

P R E G N A N C Y A N D L A C T A T I O N

Increasing Prescriptions of Misoprostol Dispensed Before Delivery in Belgium (2003-2017): Evidence from Healthcare Administrative Database

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Metformin and Risk of Adverse Pregnancy Outcomes Among Pregnant Women with Gestation Diabetes in the United Kingdom: A Population-based Cohort Study

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Metformin vs Insulin in Early Pregnancy and Risk of Congenital Malformations

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Prenatal Analgesic Opioid Exposure and Risk of ADHD in Childhood

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Prenatal Antiseizure Medication Exposure and Risk of Autism and Intellectual Disability. SCAN-AED: A Nordic Cohort Study

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Jacqueline Cohen⁴ | Julie Dreier⁵ | Kari Furu⁴
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Prescription Medication Use and Baseline Health Status of Women with Live Birth Deliveries in a National Data Network: The Sentinel Distributed Database Mother-infant Linkage Table

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Prescription Opioid Type and the Risk of Neonatal Opioid Withdrawal Syndrome

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Proton Pump Inhibitors in Pregnancy and Risk of Preeclampsia: A Nationwide Cohort Study of 1.9 Million Pregnancies

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Oral Presentations

P R E G N A N C Y A N D L A C T A T I O N

Statistical Power for Use of Tree-based Scan Statistics for Surveillance of Infant Outcomes Following Maternal Perinatal Medication Use

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The Comparative Safety of Antiseizure Medication Polytherapy vs Valproate in Pregnancy and Risk of Major Congenital Malformations

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The Impact of In-utero Antipsychotic Drug Exposure on Congenital Malformations: An International Cohort Study

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Laura Pazzagli⁴ | Sonia Hernandez-Diaz⁵
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The Impact of In-utero Antipsychotic Exposure on Neurodevelopmental Disorders in Children

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The Role of Propensity Score Matching in Claims-based Studies for Achieving Comparability in hba1c Levels Between Treatments in Pregnant Women with Type 2 Diabetes

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Oral Presentations

P R E G N A N C Y A N D L A C T A T I O N

Use of Tree-based Scan Statistics for Surveillance of Infant Outcomes Following Maternal Perinatal Medication Use: A Propensity Score Matched Case Study

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Yueqin Zhao³ | Danijela Stojanovic² | Monica A Munoz⁴
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Validating an Optimized Live Birth Gestational Age Algorithm in a Nationwide Medicaid Sample and Quantifying the Misclassification of Exposure Due to Estimated Gestational Age

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Validity of ICD-10 Z3A Codes for Estimating Date of Last Menstrual Period

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R A R E D I S E A S E

Prediction Algorithm for Identifying Patients with Fabry or Pompe Disease in Electronic Health Records

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The Association Between Bariatric Surgery and Dupuytren Disease: A Cohort Study from Swedish Nationwide Healthcare Registries

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Oral Presentations

S A F E T Y E N D P O I N T S

Cardiovascular Risk in Users of Mirabegron Relative to Users of Antimuscarinic Treatments for Overactive Bladder: Findings from a Non-interventional, Real-world Data Safety Study

Veena Hoffman¹ | Jesper Hallas² | Marie Linder³
Andrea Margulis⁴ | Brandon Suehs⁵ | Alejandro Arana⁶
Cheryl Enger¹ | Libby Horter⁵ | Ingvild Odsbu⁷
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Comparative Safety of Conjugated Estrogens/bazedoxifene (CE/BZA) vs Estrogen/progestin Combination Hormone Therapy (EP): A Multi-database Cohort Study

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Proton Pump Inhibitors and Risk of Gastric Cancer: A Population-based Cohort Study

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Risk of Diabetic Ketoacidosis with Sodium-glucose transporter-2 Inhibitors Compared to Dipeptidyl peptidase-4 (DPP4) Inhibitors and Sulfonylureas in Patients with Type 2 Diabetes

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Use of Low-dose Quetiapine and the Risk of Major Adverse Cardiovascular Events

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Use of Proton Pump Inhibitors and Risk of Pancreatic Adenocarcinoma: A Case-control Study Based on the French National Health Data System (SNDS)

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Vitamin K Antagonists and Risk of Myelodysplastic Syndrome: A Nationwide Cohort Study in Atrial Fibrillation Patients

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Oral Presentations

V A C C I N E S

Background Incidence Rates of Adverse Events of Special Interest for COVID-19 Vaccine Monitoring

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Tania Schink⁴ | Patrick Souverein⁵ | Lei Wang⁶
Elisa Barbieri⁷ | Claudia Bartolini⁸ | Olga Paoletti⁹
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Descriptive Epidemiology of Adverse Events of Special Interest for COVID-19 Vaccines Across 7 Countries and 4 Continents: A Multinational Network Cohort Study

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Effectiveness of Influenza Vaccination in Healthy Children: A Population-based Investigation

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Evaluation of the Potential Confounding Effect of Shingles on the Risk of Guillain-barré Syndrome After Vaccination with the Recombinant Zoster Vaccine

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Sensitivity Analysis of Design Choices for Estimating Incidence Rates of Adverse Events of Special Interest in Vaccine Safety

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Vaccination and Acute Flares in Multiple Sclerosis: A Nationwide Case-crossover Study Using the French SNDS Health Care Databases

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Oral Presentations

P O T P O U R R I

Approach to Falsify Calendar Time Instrumental Variable Assumptions in Estimating Treatment Effects

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Ethnic Differences in COVID-19 Infection, Hospitalisation, and Mortality: An Opensafely Analysis of 17 Million Adults in England

Rohini Mathur¹ | Christopher Rentsch¹ | Caroline Morton²
William Hulme² | Anna Schultze¹ | Brian MacKenna²
Rosalind Eggo¹ | Krishnan Bhaskaran¹ | Angel Wong¹
Elizabeth Williamson¹ | Harriet Forbes³ | Kevin Wing¹
Helen McDonald¹ | Chris Bates⁴ | Seb Bacon² | Alex Walker²
David Evans² | Peter Inglesby² | Amir Mehrkar²
Helen Curtis² | Nicholas DeVito⁵ | Richard Croker²
Henry Drysdale⁵ | Jonathan Cockburn⁴ | John Parry⁶
Frank Hester⁶ | Sam Harper⁶ | Ian Douglas⁷
Laurie Tomlinson⁷ | Stephen Evans⁷ | Richard Grieve³
David Harrison⁸ | Kathy Rowan⁸ | Kamlesh Khunti⁹
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Multi-depth, Iterative Causal Forest for Subgroup Identification

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Nondifferential Treatment Misclassification Biases Toward the Null? Not a Safe Bet

Rachael Ross¹ | Michele Jonsson Funk² | I-Hsuan Su¹
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Predictors of Severe COVID-19 Outcome in Patients with Rheumatoid Arthritis

Sara Burns¹ | Tiffany Siu Woodworth¹
Justin Manjourides² | Zeynep Icten¹
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Risk of Fall-related Injury Associated with Concomitant Use of Prescription Opioids and Gabapentinoids Among Older Adults with Chronic Noncancer Pain

Cheng Chen¹ | Almut G Winterstein²
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Poster Presentations during ICPE 2021 All Access

Improving Accuracy for Prospective Pregnancy Registry
Enrollment Targets

Veley K, Covington D, Pozin P, Buus R, Okala S

Methodologic Challenges and Considerations for the
Collection of Dietary Intake Data in Real-World
Populations

Brett NR, Bassel M, Hong M, Margolis MK



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T R A C K S

BENEFIT-RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE)	108
BIOLOGICS/BIOSIMILARS	108
DISEASE EPIDEMIOLOGY/CLINICAL COURSE	109
DRUG EFFECTIVENESS	110
DRUG UTILIZATION RESEARCH	111
HEALTH ECONOMICS/OUTCOMES RESEARCH	112
INFORMATICS	112
METHODS IN PHARMACOEPIDEMIOLOGY	113
PEDIATRICS	114
PHARMACOVIGILANCE	114
SAFETY END POINTS	114

Lightning

BENEFIT - RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE)

Association of Statin Use with Dry Eye Disease

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Gender Differences in Valproic Acid Use for Approved Indications in the United States (2017-2018) – an Opportunity for Risk Mitigation?

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Missingness in Real World Data Submitted for Regulatory Decision-Making: Eastern Cooperative Oncology Group Performance Status Case Study

Cherise Wong¹ | Caitlin Knox¹ | Wenzhen Ge¹ | Ning Wu¹
Andrea Marcus¹ | Jessica Jalbert² | Asieh Golozar¹

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BIOLOGICS / BIOSIMILARS

Risk of Major Cardiovascular Event in Jak Inhibitor Treated Patients: Analysis of a National Claim Database

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DISEASE EPIDEMIOLOGY / CLINICAL COURSE

Atopic Eczema Associated Fracture Risk and Oral Corticosteroids: A Population-Based Cohort Study

Julian Matthewman¹ | Kathryn Mansfield¹
Richard Silverwood² | Amy Mulick¹ | Daniel Prieto-Alhambra³
Katherine Lowe¹ | Liam Smeeth¹ | Sinéad Langan¹

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Birth Prevalence of Phenylalanine Hydroxylase Deficiency: A Systematic Literature Review and Meta-Analysis

Kimberly Alexander¹ | Andrea Margulis² | Pamela Foreman¹
Renee Shediach¹ | Brian Calingaert² | Abenah Harding²
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Chemotherapy Relative Dose Intensity, Overall Survival, and Hematologic Toxicity in Solid-Tumor Cancer Patients: A Literature Review and Meta-Analysis

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Comparing Outcomes in Trial-Eligible vs Real-World COVID-19 Patients: The Case of Invasive Mechanical Ventilation

Ashley Martinez¹ | Silvia Perez-Vilar² | Mayura Shinde³
Maria Kempner⁴ | Joy Kolonoski⁴ | Sarah Dutcher²
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D I S E A S E E P I D E M I O L O G Y / C L I N I C A L C O U R S E

Identification of Serostatus in Rheumatoid Arthritis Using ICD-10 Diagnosis Codes

Seoyoung Kim¹ | Hemin Lee² | Jeffrey Sparks²
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Outpatient-Identified COVID-19 and Subsequent Hospitalized Thrombotic Events

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Maria Kempner⁴ | Joy Kolonoski⁴ | Sarah Dutcher¹
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Patients Tell All: Using a Direct-to-Patient Community Registry to Understand Patient Burden of COVID-19

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Matthew Reynolds¹ | Alison Bourke¹ | Kalyani Hawaldar¹
Nancy Dreyer¹

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Prevalence of Myxoid /Round Cell Liposarcoma (MRCLs) Among Children and Adults in the United States

Huifen Wang¹ | Lindsey Powers Happ²
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Trends in Sexually Transmitted Infections in the United States Ambulatory Care Clinics from 2005-2016

Ikenna Unigwe¹ | Seonkyeong Yang² | Hyunjin Song³
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Use of Remdesivir for COVID-19 in the Real World: An Analysis of US Electronic Medical Records

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D R U G E F F E C T I V E N E S S

Acute Kidney Injury in Patients with Atrial Fibrillation Treated with Rivaroxaban or Warfarin: A Population-Based Study in the United Kingdom

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Comparative Effectiveness of Bevacizumab vs Cetuximab in Patients with Metastatic Colorectal Cancer

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Efficacy-Effectiveness Gap for Standard First-Line Treatment of Metastatic Non-Small Cell Lung Cancer Among Patients with Barriers to Care

Rohit Ojha¹ | Yan Lu¹ | Kalyani Narra² | Rachel Meadows¹
Aaron Gehr¹ | Bassam Ghabach²

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Long-Acting Insulin Analogs vs Intermediate-Acting Insulin and the Risk of Major Adverse Cardiovascular Events Among Patients with Type 2 Diabetes in the United Kingdom

Vanessa Brunetti¹ | Oriana Yu² | Robert Platt³
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DRUG UTILIZATION RESEARCH

Analytical Enhancements in Kentucky's Drug Overdose Mortality Surveillance: Rapid Monitoring of Trends and Decedents' Recent Controlled Substance Prescription History

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Changes in Purchases of Intensive Care Medicines During COVID-19 in Developed vs Developing Countries

Katherine Callaway Kim¹ | Mina Tadrous²
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Co-Utilization of Opioids and Non-Benzodiazepine Sedative Hypnotics in U.S. Ambulatory Care Visits, 2006-2016

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Determinants of Antimalarial Prescription Patterns Among Health Care Providers in Public Health Facilities in Uasin Gishu County, Kenya.

Henry Amdany | Wendy O'meara | Gabriel Kigen
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Early Uptake of New Molecular Entities Approved in 2017 in a Multisite National US Healthcare Data Network

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Measuring Mental Health Prescribing Safety Indicators in Uk Primary Care

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Patterns of Antibiotic Prescription Among Adult Outpatients in Italy

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HEALTH ECONOMICS / OUTCOMES RESEARCH

Comparison of Medication Adherence Between Initiators of a Multi-drug Dispensing System & Users of Retail Pharmacy

Lauren Stevens¹ | Jeffrey Ellis¹ | Anita Desai-Naik²
Lilian Ndehi³ | Andy Bowe¹

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³Humana Inc.

Cost-Utility of Nivolumab for Treatment of Head and Neck Cancer from a Brazilian Public Health System Perspective.

Daniel Curado¹ | Rosângela Gomes¹ | Gustavo Andreoli²
Dalila Gomes¹ | Joslaine de O Nunes³

Ricardo Fernandes⁴ | Ivan Zimmermann⁵

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Effects of Initiating a Multi-dose Drug Dispensing System on Medication Adherence

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SGLT2 Inhibitors vs GLP-1 Agonists: Comparative Progression of Renal Disease

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The Prevalence of Hyperkalemia and Associated Clinical Characteristics and Outcomes Among Hospitalized COVID-19 Patients

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INFORMATICS

Temporal Effect in Real-World-Evidence for Randomized-Clinical-Trials

Jue Hou¹ | Rachel Zhao² | Tianrun Cai³ | Katherine Liao³ | Thany Seyok³ | Kumar Dahal³ | Qianyu Yuan¹ | Kai-Li Liaw⁴
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METHODS IN PHARMACOEPIDEMIOLOGY

A New Analytic Tool for Interrupted Times Series Analysis to Assess the impact of FDA Regulatory Actions

Christine Lu¹ | Laura Hou¹ | Joy Kolonoski²
Andrew Petrone¹ | Fang Zhang¹ | Catherine Corey³
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An Algorithm to Derive Response and Progression Status Based on International Myeloma Working Group Response Criteria for Patients with Multiple Myeloma in a Real-World Database

Tao Xu¹ | Stefka Tyanova¹ | Tarek Christoffer El-Galaly¹
Khaled Sarsour² | Wan-Jen Hong³ | Melissa Williamson²

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Characterizing Imbalance in the Tails of the Propensity Score Distribution

Bethany DiPrete¹ | Cynthia Girman² | Panagiotis Mavros³
Alexander Breskin⁴ | M. Alan Brookhart⁵

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Collider Bias in COVID-19 Studies: Explaining the Smoking Paradox

Alice Joules | Natalia Petruski-Ivleva | Michael Warner
Patrick Long | Aidan Cooper | Nancy Dreyer
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Development and Validation of Case-Finding Algorithms to Identify Prosthetic Joint Infections after Total Knee Arthroplasty

Erica Weinstein¹ | Alisa Stephens-Shields² | Bogadi Loabile¹
Tiffany Yuh¹ | Randi Silibovsky¹ | Charles Nelson³
Judith O'Donnell¹ | Evelyn Hsieh⁴ | Jennifer Hanberg⁴
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Distinguishing Death from Disenrollment in Claims Data using a Readily Implemented Machine Learning Algorithm

Jessica Young¹ | Frank Yoon² | Nabarun Dasgupta³
Debra E Irwin² | Kenneth Pack² | Toska Cooper⁴
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High-Dimensional Propensity Score Approaches in Stata using the Hdps Suite of Commands

John Tazare¹ | Liam Smeeth¹ | Stephen Evans¹
Ian Douglas¹ | Elizabeth Williamson²

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Identification and Characterization of Fistulizing Crohn's Disease in Ehr using Structured and Unstructured Data

Carrie Huisingsh | Yizhou Ye | Lani Wegrzyn
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Marginal Structural Models with Latent Class Growth Modeling of Time-varying Treatment

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METHODS IN PHARMACOEPIDEMIOLOGY

Residual Bias and Indirect Covariate Balance in an Applied Comparison of Large-Scale Propensity Score and Cardinality Matching

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Use of Last Clinical Activity Date in Overall Survival Analysis with Real World Data

Lu Chen¹ | Otto Fajardo² | Melanie Huntley³

Anne-Marie Meyer² | Michael Taylor⁴

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Validation of Diagnosis Algorithms for Melanoma and Nonmelanoma Skin Cancer Among Patients with Parkinson's Disease in the United States Medicare Database

Catherine Saltus¹ | Sigal Kaplan² | Mark Gordon³

Brian Calingaert¹ | Elizabeth Andrews¹ | James Kaye¹

Catherine Johannes¹

¹RTI Health Solutions; ²Teva Pharmaceutical Industries Ltd; ³Teva Branded Pharmaceutical Products R&D, Inc.

PEDIATRICS

Antibiotics Overprescribing Patterns in Pediatric Primary Care in Italy: Findings from 2012-2018

Elisa Barbieri¹ | Costanza Di Chiara¹ | Paola Costenaro¹ | Anna Cantarutti² | Carlo Giaquinto³ | Daniele Dona³

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Pediatric Off-Label Antipsychotic Use for Attention-Deficit/Hyperactivity Disorder: A Time-to-Event Analysis

Haeyoung Lee¹ | Susan dosReis¹ | Chengchen Zhang¹ | Roderick Rose²

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PHARMACOVIGILANCE

Off-Label use of Potential Pharmacological Treatment for COVID-19: An Intensive Pharmacovigilance in Peru

L. Yesenia Rodriguez | Héctor Garavito | Enrique Cachay | Gisela Alva | Paola Fernández | Tania Solis | Liz Veramendi

Juan Aldave | Violeta Saromo

ESSALUD

SAFETY END POINTS

The Risk of Melanoma with Rasagiline Compared with other Antiparkinsonian Medications: A Retrospective Cohort Study in the United States Medicare Database

Catherine Johannes¹ | Catherine Saltus¹ | James Kaye¹ | Brian Calingaert¹ | Sigal Kaplan² | Mark Gordon³ | Elizabeth Andrews¹

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Posters

T R A C K S

BENEFIT-RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE)	116
BIOLOGICS/BIOSIMILARS	117
DISEASE EPIDEMIOLOGY/CLINICAL COURSE	118
DRUG EFFECTIVENESS	123
DRUG UTILIZATION RESEARCH	125
GERIATRICS	133
HEALTH ECONOMICS/OUTCOMES RESEARCH	134
INFORMATICS	137
MEDICAL DEVICES	137
METHODS IN PHARMACOEPIDEMIOLOGY	138
EPIDEMIOLOGY/BIOMARKERS/PHARMACOGENETICS	141
PEDIATRICS	141
PHARMACOVIGILANCE	142
PREGNANCY AND LACTATION	148
RARE DISEASE	149
SAFETY END POINTS	149
VACCINES	152
POTPOURRI	153

Posters

BENEFIT - RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE)

A Decision Aid to Drive Adherence to Controller Treatments in Mild Asthma: A Rapid-Cycle Design Study

Myriam Gagne | Jeffrey Lam Shin Cheung | Andrew Kouri
Louis-Philippe Boulet | J. Mark FitzGerald | Allan Grill
Paul O'Byrne | Samir Gupta
Canada

Complications Associated with the use of Enzyme-Inducing and Non-Enzyme-Inducing Antiepileptic Drugs in the Japanese Population: A Retrospective Cohort Study

Jingwei Gao | Tomotsugu Seki | Kiyohide Usami
Akio Ikeda | Di Fan | Koji Kawakami
Japan

Efficacy and Safety of Isoniazid Preventive Therapy (ipt) in People Living with Hiv: A Systematic Review and Meta-Analysis

J. Jaya Laxmi | Christy Thomas | Krishna Undela
India

Knowledge and Practices Towards COVID-19 During its Outbreak: A Multinational Cross-Sectional Study

Abdallah Naser | Eman Zmaily Dahmash | Hassan Alwafi
Hamad Alyami | Zahra Khalil Alsairafi | Ahmed Al Rajeh
Yosra Alhartani | Fawaz Mohammad Turkistani
Fadi Hassanin
Jordan

Psychological Interventions for Depression and Anxiety in Diabetes Mellitus Patients: Overview of Systematic Review and Meta-Analysis

Reginaldo Franquez | Isabela Souza | Cristiane de Cassia Bergamaschi Motta
Brazil

Parents' Practices of Paracetamol use for Child Fever Management and use of Patient Information Leaflets

Aljoharah Algabbani | Kerrie Wiley | Nada Alowed
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Posters

B I O L O G I C S / B I O S I M I L A R S

Characterization of Real-World Data Sources to Support Observational Studies of Biologics, Including Biosimilars in Oncology

Ryan Seals | Catherine Lockhart | Nancy Lin
John Seeger
United States

Disruptions in Rheumatology Care and the Rise of Telehealth in Response to the COVID19 Pandemic in a Community Practice-Based Network

Jeffrey Curtis | Michael George | Maria Danila
Daniel Watrous | Jeffrey Alper | Fenglong Xie
Benjamin Nowell | Joel Kallich | Cassie Clinton
Kenneth Saag | Shanmugapriya Reddy
United States

Evaluation the Pattern of Treatment in Inflammatory Bowel Disease: Before and After Approved Policy on Biologicals

Nai-Yu Chen | Chiao-Hsiung Chuang | Yea-Huei Kao Yang
Yu-Ching Chang | Ching-Lan Cheng
Taiwan

Factors Predictive of Treatment Success of Novel Disease-Modifying Anti-Rheumatic Drugs (DMARDs) in Patients with Inflammatory Arthritis

Jetty Overbeek | Ron Herings | Hein Bernelot Moens
Netherlands

PD-1 Immune Checkpoint Inhibitors and Serious Immune-Related Adverse Events

Yeon-Hee Baek | Eun Joo Kang | Soojung Hong
So-Hee Park | Ju Hwan Kim PharmD | Ian C. Wong
Philip Au | Ching-Lung Cheung | Ju-Young Shin
South Korea

Penetration Rate of Anti-Tnf Biosimilars in Hospitals in France: 5 Years Status

Quentin Mathieu Jarrion | Thierry Trenque | Brahim Azzouz
Marie-Françoise Beck-Cantin
France

Prescribing Patterns of Lipegfilgrastim in EU: A Retrospective Study

Sigal Kaplan | Dana Ilic Bogojevic | Carolyn Rainville
Nicholas Gross
Israel

The Association Between Trajectories of use of Systemic Agents and Depression in Patients with Psoriasis: A Sequence and Cluster Analysis

Raymond Milan | Lelorie | Marie-Josée Brouillette
Anne Holbrook | Ivan Litvinov | Elham Rahme
Canada

Use of Ranitidine with Potential Ndma Impurities and Risk of Cancer: A Nationwide Propensity Score-Matched Cohort Study

Kyung-In Joung | Jeong-Eun Hwang | In-Sun Oh
Ju-Young Shin
South Korea

Users of Biologics for Crohn's Disease and Ulcerative Colitis in the Netherlands

Hilda de Jong | Jetty Overbeek | Elisabeth Smits
Ella Jansen | Fernie Penning- van Beest | Alun Passey
Francesca Galea | Riika Nissinen | J N. Barthelmes
Ivana Bravata | Andras Borsi | Ron Herings
Netherlands

Validation Test for Algorithms to Identify Rheumatoid Arthritis Patients in the Tuscan Healthcare Administrative Databases

Irma Convertino | Massimiliano Cazzato | Sabrina Giometto
Rosa Gini | Ersilia Lucenteforte | Giulia Valdiserra
Emiliano Cappello | Sara Ferraro | Silvia Tillati
Marco Fornili | Claudia Bartolini | Olga Paoletti
Valentina Lorenzoni Leopoldo Trieste | Matteo Giuseppe
Turchetti | Michele Cristofano | Corrado Blandizzi
Marta Mosca | Marco Tuccori
Italy

Posters

D I S E A S E E P I D E M I O L O G Y / C L I N I C A L C O U R S E

A Descriptive Retrospective Cohort Study to Evaluate the Incidence of Severe COVID 19 Outcomes Among SARS-CoV-2 Infected Patients in the United States

Heather Rubino | Stephen Schachterle | Ling Li
Charles Wentworth | Xiaofeng Zhou | Susan Mather
Absalon | Ann Madsen
United States

A New United States Database for Pharmacoepidemiology Studies in Type 2 Diabetes Mellitus: the IMEDS Distributed Database

Ting-Ying Huang | Carla Rodriguez-Watson
Tongtong Wang | R. Calhoun | James Marshall
Jillian Burk | Young Hee Nam | Aaron Mendelsohn
Margaret Adgent | Aziza Jamal-Allial | Robert Greenlee
Vinit Nair | Pamala Pawloski
Cheryl McMahon-Walraven | Jeffrey Brown
United States

A Systematic Literature Review of the Epidemiology, Health-Related Quality of Life and Economic Burden, Including Disease Pathways and Treatment Patterns of Relapsed/Refractory Classical Hodgkin Lymphoma

Gautam Singh | Monika Raut | Rebekah Borse
Xiaoqin Yang | Immaculata Hiscock | Sheetal Sharma
Nameeta Pilkhwai
United States

An Updated Structured Review of the Epidemiology, Guidelines, and Real-World Treatment Patterns for Relapsed/Refractory Primary Mediastinal Large B-Cell Lymphoma

Jitender Takyar | Raut, Immaculata Hiscock
Rebekah Borse | Sheetal Sharma | Arju Dhawan
India

Antibiotic Resistance Pattern and Treatment Outcomes Among Empyema Thoracis Patients: A Cross-Sectional Study

Muhammad Atif | Mehwish Naseem | Saba Mukhtar
Sajjad Sarwar
Pakistan

Anti-Osteoporosis Treatment After a Major Osteoporotic Fracture is Often Lacking

Karin Swart-Polinder | Louise Lemmens
Robbert Schuijbroek | Fernie Penning- van Beest
Ron Herings
Netherlands

Association of Ondansetron Use and Subsequent Acute Kidney Injury in Critical Care

Matthew Gray | Priyanka Priyanka | Sandra Kane-Gill
John Kellum
United States

Beneficial Effect of Mild Drug-Induced Liver Injury for Patients with Tuberculosis Undergoing First-Line Anti-Tuberculosis Therapy

Chen Qin | Tianchi Yang | Yang Che | Jifang Zhou
Chen xiao | Feng Jiang
China

Characteristics of Asymptomatic Heart Failure Patients with Reduced Ejection Fraction in a Large US-Based Real-World Cohort

Allison Bryant | Tom Brecht | Mike Behling
Kathryn Starzyk | Gary Curhan
United States

Characteristics of Patients with Idiopathic Pulmonary Fibrosis (Ipf) Initiating Nintedanib or Pirfenidone Treatment Compared with Untreated Patients in the US

Laura Wallace | Aimee Near | Chakkarin Burudpakdee
Nadine Hartmann
Germany

Characterizing "Long-COVID" Using Real World Data: Post-Discharge Clinical Course Among Patients Initially Hospitalized for COVID-19

Elizabeth Eldridge | Edward Corbett | Jason Jones
Sadiqa Mahmood | Nancy Lin
United States

Chronic Obstructive Pulmonary Disease and Drug-Resistant Pseudomonas in Patients Hospitalized with Community-Acquired Bacterial Pneumonia

Adeniyi Idigo | J. Michael Wells | Matthew Brown
Howard Wiener | Russell Griffin | Gary Cutter
Sadeep Shrestha | Rachael Lee
United States

Clinical Characteristics and Biomarkers of SARS-CoV-2 Infection in Patients Treated with Remdesivir in Hospital – A Population Based Cohort Study

Xiaofeng Zhou | Rongjun Shen | Kathy Liu
Mary Lynn Baniecki | Holly Soares | Ann Madsen
Oladayo Jagun
United States

Posters

D I S E A S E E P I D E M I O L O G Y / C L I N I C A L C O U R S E

Clinical Characteristics of Pediatric Patients Hospitalized with COVID-19 in an Electronic Health Record Database

Andrea Chomistek | Michael Doherty
Robert Gately | Rachel Ogilvie | Caihua Liang
John Seeger | Florence Wang
United States

Comorbidities Associated with Insomnia Stratified by Age and Sex

Wenjun Zhong | Xinyue Liu | Katrina Mott
Edward Bortnichak | Kai-Li Liaw | Zaina Qureshi
United States

Comparison of 21-Year Sex-Specific Fracture Incidence Rates Between Type 1 and Type 2 Diabetics and Non-Diabetics in Denmark (1997 – 2017)

Annika Kvist | Mohamad Nasser | Andrea Burden
Peter Vestergaard | Morten Nielsen
Switzerland

Comparison of Rheumatic Patients across Body Mass Index Categories

Enriqueta Vallejo-Yague | Theresa Burkard
Burkhard Moeller | Axel Finckh | Andrea Burden
Switzerland

Coronavirus Disease 2019 in Saudi Arabia: A Nationwide Epidemiological Characterization Study

Khalidah Alenzi | Tahani Alanazi | Najah Alenzi
Ali Altebainawi | Thamir Alshammari
Saudi Arabia

COVID-19 Symptom Severity Among Smokers: Insights from a Direct-To-Community Registry

Nancy Dreyer | Natalia Petruski-Ivleva | Lisa Albert
Emma Brinkley | Christina Mack FISPE | Matthew Reynolds
United States

Depression and Anxiety in Patients with Cancer: Prevalence and Risk Factors: A Cross-Sectional Study

Abdallah Naser | Anas Nawfal Hameed | Nour Mustafa
Hassan Alwafi | Eman Zmaily Dahmash | Hamad Alyami
Haya Khalil
Jordan

Designing Epidemiological Studies to Estimate the Incidence of Thrombosis in Patients with Antiphospholipid Syndrome with History of Recurrent Thrombotic Events

Chuntao Wu | Wei Jiang | Nathalie Goletiani | Deepak Jain
Alexander Cole
United States

Determinants of COVID-19 Self-Protection Behaviors of Thai People: A Cross-Sectional Survey

Piyameth Dilokthornsakul | Benjawee Srithanissorn
Kritsana Yonphet | Witoo Dilokthornsakul
Daranee Chiewchantanakit
Thailand

Development and Validation of a Prediction Model for Mortality in Patients with Hip Fracture: Population-Based Cohort Study

Thomas Hjelholt | Søren Johnsen
Peter Brynningsen | Jakob Knudsen
Daniel Prieto-Alhambra | Alma Pedersen
Denmark

Diabetes Medication Use is Associated with Higher Grade and Increased Probability of Muscle-Invasive Tumour Disease in Patients with Urothelial Carcinoma

Janine Faessen, Dennis Oerlemans | Marc de Jong
Jetty Overbeek | Pauline Vissers | Katja Aben
Maryska Janssen-Heijnen | Joop van den Bergh
Frits van Osch
Netherlands

Disease Prevalence, Comorbidities, and Medication Utilization Among Patients with Opioid Use Disorder in the US

Brittany Roy | Jianheng Li | Cathy Lally | Ankitaben Shah
Gary Bloomgren | Made Wenten
United States

Early Parkinson's Disease: Association of Baseline Fatigue, Pain and Sleep Disorders with Disease Progression

Denise Oleske | Cindy Zadikoff | Eric Cohen
Nidita Gupta | Scott Bunner
United States

Posters

D I S E A S E E P I D E M I O L O G Y / C L I N I C A L C O U R S E

E-Core - Setting Up a European Network for Real World COVID-19 Studies

Alexandra Pacurariu | Sonya Patel | Daniel Prieto-Alhambra
Peter Rijnbeek | Sam Salek | Talita Duarte-Salles
Hanne van Ballegooijen | Christian Reich | Ines Reinecke
Manon Belhassen | Deborah Layton | Jovana Bjelica
United Kingdom

Epidemiology of Coexisting Obesity and Heart Failure with Preserved Ejection Fraction in the United States

Ayad Ali
United States

Epidemiology of COVID-19 in Adults with Asthma

Ayad Ali
United States

Epidemiology of COVID-19 in Adults with Chronic Obstructive Pulmonary Disease

Ayad Ali
United States

Epidemiology of COVID-19 in Adults with Diabetes Mellitus

Ayad Ali
United States

Epidemiology of COVID-19 in Children

Ayad Ali
United States

Epidemiology of Interstitial Lung Disease in Medically Treated US Population

Ayad Ali
United States

Epidemiology of Treatment Resistant Depression in the US

Xinyue Liu | Yuki Mukai | Christ Furtak
Edward Bortnichak | Kai-Li Liaw | Wenjun Zhong
United States

Estimates of Malnutrition Associated with Chronic Kidney Disease Globally and its Contrast with India: A Systematic Review and Meta-Analysis

Ishfaq Rashid | Pramil Tiwari | Sanjay Cruz
Shivani Jaswal
India

Examining the Evolving Pandemic: Trends in COVID-19 Severity for Hospitalized COVID-19 Patients Over Time

Sarah Vitito | Andrew Weckstein | Aloka Chakravarty
Marie Bradley | Tamar Lasky | Nicolle Gatto
Elizabeth Garry
United States

From Contact Coverage to Effective Coverage of Community Care for Patients with Severe Mental Disorders: A Real-World Investigation from Italy

Matteo Monzio Compagnoni | Giovanni Corrao
Angelo Barbato | Barbara D'Avanzo | Teresa Di Fiandra
Lucia Ferrara | Andrea Gaddini | Alessio Saponaro
Salvatore Scondotto | Valeria Tozzi | Flavia Carle
Simona Carbone | Dan Chisholm | Antonio Lora
Italy

Incidence and Outcomes of Mature B-cell NHL in the US Pediatric Population, 2000-2017

Yangyang Liu | Mary Heckler | Annie McNeill
Justin Wahlstrom | Lori Styles | Alex Mutebi | Huiying Yang
United States

Incidence Rates (IR) and IR Ratios of Alzheimer's Disease in Patients with Cataract Compared to the General Population: Analyses Using the Clinical Practice Research Datalink (CPRD)

Claudia Becker | Laura Eggenschwiler | Susan Jick
Christoph Meier
Switzerland

Lessons from a Post-Authorisation Study of Rivaroxaban Use and Potential Adverse Outcomes in Routine Practice in Four Countries

Ron Herings | Elisabeth Smits | Karin Swart-Polinder
Ana Ruigomez | Tania Schink | Annemarie Voss
Yanina Balabanova | Gunnar Brobert
Luis Garcia Rodriguez
Netherlands

Limited Time Interval Between Symptomatic Presentation in Primary Care and Colorectal Cancer Diagnosis

Josephina Kuiper | Myrthe van Herk-Sukel
Valery Lemmens | Ernst Kuipers | Ron Herings
Netherlands

Posters

D I S E A S E E P I D E M I O L O G Y / C L I N I C A L C O U R S E

Long- and Short-Term Disability and Workers' Compensation Trends for Employees with Systemic Lupus Erythematosus or Connective Tissue Disorders in the United States

Richard Brook | Nathan Kleinman | Ian Beren
United States

Long-and Short-Term Disability, Workers' Compensation and Prevalence Trends for Employees with Substance Abuse Mental Disorders in the United States

Richard Brook | Nathan Kleinman | Ian Beren
United States

Machine Learning Applied to SEER Data for Prediction of Breast Cancer Specific Survival

Phuong Le | Marc De Benedetti | Hoa Le
Chi Truong
Canada

Methodological Considerations Related to the Use of Primary and Secondary Care Data in Identifying a Cohort of Moderate to Severe Psoriasis Patients in the UK

Joshua Warden | Eileen Dareng | Sudhir Venkatesan
Quratul Ann | Mar Pujades-Rodriguez | Tzuyung D. Kou
Deborah Layton
United Kingdom

Modeling Drug Treatment Effects on Breast Cancer in the Setting of Differential Screening

Sophie Mayer | Jesper Hallas | Jessie Edwards
Jennifer Lund | Louise Henderson | Til Stürmer
United States

Molecular Epidemiology Study of Interferon Gamma (IFN- γ) Expression in Urothelial Bladder Cancer (UBC)

Christina Gillezeau | Naimisha Movva | Jon Fryzek
Karma Rabon-Stith | Philip Brohawn | Maaïke Van Gerwen
Emanuela Taioli
United States

Patient Characteristics, Pain Treatment Patterns, and Incidence of Total Joint Replacement in a Population with Osteoarthritis

Mayura Shinde | Carla Rodriguez-Watson | Tancy Zhang
David Carrell | Aaron Mendelsohn | Young Hee Nam
Kenneth Petronis | Cheryl McMahon-Walraven
Aziza Jamal-allial | Vinit Nair | Pamala Pawloski
Anne Hickman | Mark Brown | Jennie Francis
Ken Hornbuckle | Jeffrey Brown | Jingping Mo
United States

Polypharmacy and Outpatient Attendance of People with Schizophrenia in Indonesia

Nurma Suri | Rifani Bhakti Natari | Gebby Jenriawan Putri
Indonesia

Predictors of Length of Stay, Mortality and Outcomes Among Hospitalised COVID-19 Patients in Saudi Arabia

Abdallah Naser | Hassan Alwafi | Basil Alotaibi
Mohammed Shabrawishi
Saudi Arabia

Prevalence of Chronic Kidney Diseases in Patients with Diabetes Mellitus in the Middle East: A Systematic Review and Meta-Analysis

Abdallah Naser | Hassan Alwafi | Basil Alotaibi
Jordan

Quality and Completeness of Diagnostic Codes for Myocardial Infarction in CPRD Aurum

Rebecca Persson | Todd Sponholtz
Catherine Vasilakis-Scaramozza | Katrina Wilcox Hagberg
Tim Williams | Dipak Kotecha | Puja Myles | Susan Jick
United States

Risk factors for Carbapenemase-Producing Enterobacteriaceae Colonization: A Population Based Nested Case-Control Study

Min Fan | Qiuyan Yu | Philip Hei Li | Ian Wong
Sze Ling Celine Chui
Hong Kong

Risk factors for thyroiditis Among girls and adolescents scheduled to human papillomavirus vaccination

Belen Castillo Cano | Mar Martín-Pérez
Ana Llorente-García | Aida Moreno-Juste
Dolores Montero-Corominas | Elisa Martín-Merino
Spain

Posters

D I S E A S E E P I D E M I O L O G Y / C L I N I C A L C O U R S E

Socioeconomic status and prognosis in Premenopausal Breast Cancer: A Population-Based Cohort Study in Denmark

Cathrine Hjorth | Deirdre Cronin-Fenton | Per Damkier
Henrik Sørensen | Bent Ejlersen | Timothy Lash
Denmark

Swedish COVID-19 Investigation for Future Insights – A Population Epidemiology Approach using Register Linkage (SCIFI- PEARL)

Fredrik Nyberg | Stefan Franzén | Ailiana Santosa
Lowie Vanfleteren | Niklas Hammar
Johan Sundström | Magnus Lindh | Staffan Björck
Magnus Gisslén | Björn Wettermark
Sweden

Systematic Literature Review (SLR) of Respiratory Syncytial Virus (RSV) Burden and Health Care Utilization (HCU) Among Infants in the United States

Mina Suh, Naimisha Movva | Lauren Bylsma
Demont | Christopher Rizzo | Jon Fryzek
Christopher Nelson
United States

Systemic Lupus Erythematosus in a Large, Longitudinal Electronic Health Record Database: Demographics, and Comorbidities – A Focus on African Americans

Fariba Mirzaei | Isha Mehta | Li Li | Sue Hall
United States

Temporal Changes in the Baseline Patient Characteristics of COVID-19 Patients

Margaret Okobi | Patricia Prince | Laura Roe
Donna Rivera | Kenneth Quinto | Sandy Leonard
Elizabeth Garry | Melanie Wang | Nicolle Gatto
United States

The Association Between Type 2 Diabetes and Cancer Incidence in the United Kingdom Between 1988 and 2019

Richeek Pradhan | Oriana Yu | Robert Platt
Laurent Azoulay
Canada

The Global Burden of Upper and Lower Gastrointestinal Bleeding in General Population: A Systematic Review

Siir Su Saydam | Pareen Vora | Megan Molnar
Germany

The Incidence Rates Of Hepatobiliary Diseases Among Non-Alcoholic Steatohepatitis Patients Stratified by Fibrosis-4 (FIB-4) Index for Liver Fibrosis

Aziza Jamal-Allial | Kerrin Gallagher | Thomas Capozza
Simo Du | Erik Ness | Mindie Nguyen | Yuval Patel
Daina Esposito | Lina Titievsky
United States

Thrombotic and Cardiovascular Events Among Patients Hospitalized with COVID-19: Findings from a Large EHR Database

Zeynep Icten | Anna Watzker | Mark Friedman
Joseph Menzin
United States

Trends in Absence Time and Payments due to Long- and Short-Term Disability and Workers' Compensation for Employees with OsteoArthritis

Richard Brook | Nathan Kleinman | Ian Beren
United States

Trends in Administered Medication Use Among Patients Hospitalized with COVID-19 in the United States

Rachel Ogilvie | Michael Doherty | Robin Clifford
Robert Gately | Caihua Liang | Andrea Chomistek
Florence Wang | John Seeger
United States

Trends in Leaves Due to Long-and Short-Term Disability and Workers' Compensation for Employees with Back Pain

Richard Brook | Nathan Kleinman | Ian Beren
United States

Vaporized Nicotine (E-cig) Use Among People with HIV in Care in the US

Stephanie Ruderman | Joseph Delaney
Robin Nance | Rob Fredericksen | Lydia Drumright
Bridget Whitney | Geetanjali Chander | Karen Cropsey
Amanda Willig | William Mathews | Sonia Napravnik
Joseph Eron | Katerina Christopoulos | Allison Webel
Kenneth Mayer | Conall O'Cleirigh | Mari Kitahata
Michael Saag | Heidi Crane | Andrew Hahn
United States

Posters

DRUG EFFECTIVENESS

A Controlled 1-Year Mirror-Image Study of the Effect of Paliperidone Palmitate on Hospitalization in the Treatment of Schizophrenia in China

Ting Zhang | Hao Huang | Lu Yang | Jianhua Chen
Yongjing Zhang | Hong Qiu | Jun Chen | Yifeng Xu
China

A Proof of Concept Study to Test the E-CORE Network in Studying Safety and Effectiveness of Treatments in COVID-19 Patients

Alexandra Pacurariu | Sonya Patel | Prieto-Alhambra
Peter Rijnbeek | Sam Salek | Talita Duarte-Salles
Hanne van Ballegooijen | Sander van Olst
Morgan Stewart | Emanuil Markov | Christian Reich
Flach Deborah Layton
United Kingdom

Assessment of Antipsychotic Use and other Predictors Associated with Mortality in Patients with Delirium: A Population-Based Nested Case Control Study

Daniel Hsiang-Te Tsai | Wei-Hung Chang
Edward Chia-Cheng Lai
Taiwan

Association Between the Use of Mood Stabilizers and Risk of Trauma Among Patients with Bipolar Disorder

Vanessa Ng | Kenneth Man | Le GAO | Esther Chan
Joseph Hayes | Ian Wong
Hong Kong

Baloxavir Marboxil vs Neuraminidase Inhibitors Prescription on Subsequent Medical Resource Utilization Among School-Aged Children with Influenza: Analysis of Two Consecutive Seasons in Japan

Masato Takeuchi | Koji Kawakami
Japan

Clinical effectiveness of anti-TNF, non-anti-TNF and tofacitinib in the treatment of rheumatoid arthritis

Gerusa Oliveira | Marina Morgado | Natália Brandão
Jéssica Barreto | Francisco Acurcio
Augusto Guerra Junior | Juliana Alvares-Teodoro
Brazil

Comparative Clinical Effectiveness of Secuquinumab and Anti-TNF Agents in the Treatment of Psoriatic Arthritis

Natália Brandão | Marina Morgado | Gerusa Oliveira
Francisco Acurcio | Augusto Guerra Junior
Juliana Alvares-Teodoro
Brazil

Comparative Effectiveness and Safety of Low vs High Dose Rivaroxaban and Apixaban for Atrial Fibrillation: A Propensity Score-Matched Cohort Study

Sylvie Perreault | Alice Dragomir | Robert Côté
Brian White-Guay | Aurélie Lenglet | Marc Dorais
Canada

Comparative Effectiveness and Safety of Prasugrel vs Ticagrelor in Patients with Acute Coronary Syndrome Undergoing Percutaneous Transluminal Coronary Angioplasty

Avik Ray | Ahmad Najmi | Gaurav Khandelwal
Ratinder Jhaj | Balakrishnan Sadasivam
India

Effectiveness and Safety of Direct Oral Anticoagulants Among Patients with Non-Valvular Atrial Fibrillation and Liver Disease: A Population-Based Cohort Study

Antônios Douros | Ying Cui | Robert Platt
Kristian Filion | Giada Sebastiani | Christel Renoux
Canada

Effectiveness and Safety of Edoxaban and Warfarin in Nonvalvular Atrial Fibrillation Patients: A Meta-Analysis of Real-World Studies

Mohammed Alsultan | Jeff Guo
United States

Effectiveness of a Six-Month Isoniazid as Tuberculosis Preventive Therapy in People Living with HIV in Eritrea: A Retrospective Cohort Study

Mulugeta Russom | Bruno Stricker | Henok Woldu
Araia Berhane | Daniel Jeannetot | Katia Verhamme
Eritrea

Effectiveness of Sacubitril/Valsartan vs Aldosterone Antagonists for Prevention of Heart Failure-Related and All-Cause Hospitalization in Heart Failure with Reduced Ejection Fraction

Munaza Riaz | Eric Dietrich | Steven Smith | Carl Pepine
Haesuk Park
United States

Posters

DRUG EFFECTIVENESS

Flares after Hydroxychloroquine Reduction or Discontinuation in a Multinational Inception Cohort of Systemic Lupus

Celline Almeida-Brasil | John Hanly | Murray Urowitz
Ann Clarke | Rosalind Ramsey-Goldman
Caroline Gordon | Michelle Petri | Ellen Ginzler
Daniel Wallace | Sang-Cheol Bae | Juanita Romero-Diaz
Mary Anne Dooley | Christine Peschken | David Isenberg
Anisur Rahman | Susan Manzi | Soren Jacobsen
RS. Sam Lim | Ronald Van Vollenhoven | Ola Nived
Canada

Impact of Statin Treatment on COVID-19 Risk and Outcome – A Potential Positive Effect on Survival

Fredrik Nyberg | Ailiana Santosa | Ingela Parmryd
Björn Wettermark | Stefan Franzén
Sweden

Impact of Treatment Sequence on Survival Outcome in Patients with a Second Treatment Line for Metastatic Castration-Resistant Prostate Cancer: A New-User Design in the French Nationwide Claims Database

Nicolas H. Thurin | Magali Rouyer | Marine Gross-Goupil
Thibaud Haaser | Xavier Rébillard | Michel Soulié
Gérard De Pouvourville | Fatiha Messaoudi | Hind Stitou El
Amine Demnati | Emmuelle Bignon | Jérémy Jové
Stéphanie Lamarque | Cécile Droz-Perroteau
Nicholas Moore | Patrick Blin
France

Inpatient Readmission and Oral Antiplatelet Adherence for Patients with Coronary Artery Disease

Samuel Peasah | Douglas Mager | Kiraat Munshi
Yan Huang | Lynn Neilson | Elizabeth Swart
Rochelle Henderson | Chester Good
United States

Intravenous Vancomycin Use at Discharge and 90-Day Risk of Readmission or Death

Samantha Eiffert | Alan Kinlaw
United States

Low-Dose Acetylsalicylic Use Shows Protective Association with Alzheimer's Disease Incidence: Results from Two Large Prospective Cohort Studies

Thi Ngoc Mai Nguyen | Ben Schöttker
Germany

Mycophenolate and Azathioprine are Associated with Risk of Hospitalized Viral Respiratory Infection in Rheumatoid Arthritis and Systemic Lupus

Cristiano Moura | Marina Machado
Celline Almeida-Brasil | Jeffrey Curtis
Kevin Winthrop | Michal Abrahamowicz | Sasha Bernatsky
Canada

Off-Label Day-of-Surgery Gabapentinoids and Prolonged Opioid Use: A Retrospective Cohort Study of Medicare Patients using Electronic Health Records

Jessica Young | Nabarun Dasgupta | Virginia Pate
Til Stürmer | Brooke Chidgey | Michael Hudgens
Michele Jonsson Funk
United States

Pharmacoepidemiology and Ethics

Zhen-Fang Lin
Taiwan

SIGMA Consortium: A New Era of Collaboration to Study the Safety and Effectiveness of Medical Interventions

Josephina Kuiper | Carla Franzoni | Vera Ehrenstein
Rosa Gini | Ulrike Haug | Nicholas Moore
Cécile Droz-Perroteau | Bonaventura Bolibar
Maria Aragon | Jesper Hallas | Thomas MacDonald
Miriam Sturkenboom | Olaf Klungel
Susana Perez-Gutthann | Ron Herings
Netherlands

Survival Analysis of ICU Patients Administered Human Albumin Infusion from the MIMIC III v1.4 Database

Mohamed Mekkawy | Dina Magdy | Mohamed Rashad
Noura Yousri | Mai Moustafa | Nourhan Abdelaziz
Egypt

Survival Analysis of N-Acetylcysteine Administration in ICU Patients from the MIMIC III v1.4 Database

Mohamed Mekkawy | Ola Zaafan
Egypt

The Disease-Modifying Drugs for Multiple Sclerosis and Subsequent Health Service Use: A Population-Based Study

Huah Shin Ng | Feng Zhu | Elaine Kingwell | Yinshan Zhao
Shenzhen Yao | Okechukwu Ekuma | Lawrence Svenson
Charity Evans | John Fisk | Ruth Ann Marrie
Helen Tremlett
Canada

Posters

DRUG EFFECTIVENESS

Use of Beta Blockers and Death from Breast Cancer in New Zealand Breast Cancer Patients

Oliver Scott | Sandar TinTin | Alana Cavadino | Mark Elwood
New Zealand

Utilizing a Structured Benefit-Risk Assessment to Evaluate a Combination of Olanzapine and Samidorphan for the Treatment of Schizophrenia and Bipolar I Disorder

Brittany Roy | David McDonnell | Bei Yu | Christine Graham | Ying Jiang | Sergey Yagoda | Vasudev Bhupathi
Lauren DiPetrillo
United States

DRUG UTILIZATION RESEARCH

A Contemporary Characterization of Patients with Non-Valvular Atrial Fibrillation Starting Oral Anticoagulants in Quebec, Canada

Shermaine Li | Alvi Rahman | Sophie Dell'Aniello
Alexis Matteau | Madeleine Durand | Christel Renoux
Canada

A Rapid Review on the Adherence to Evidence-Based Medical Therapy in Peripheral Artery Disease Patients

Sze Ling Chan | Rajesh | Tjun Yip Tang
Singapore

A Systematic Review of Global Oncology Treatment Practice and Modifications during COVID-19

Jingbo Yi | Bruce Crawford
Japan

Adherence to Mesalazine and Identification of Patients with Ulcerative Colitis in Healthcare Administrative Databases of Tuscany (Italy)

Claudia Bartolini | Sara Ferraro | Irma Convertino
Lorenzo Bertani | Sabrina Giometto | Francesco Costa
Corrado Blandizzi | Ersilia Lucenteforte | Rosa Gini
Marco Tuccori
Italy

An Evidence-Based Evaluation of Clinical Medicine Use Indicators in Children

Zhe Chen | Lingli Zhang
China (People's Republic)

Antimicrobial Resistance in Endodontic Infections in Latin America (MICROBE-DENT): Systematic Review

Flávia Casale Abe | Cristiane de Cassia Bergamaschi Motta
Silvio Barberato Filho | Katia Kodaira
Pedroso Moraes Vilela de Castro | Carolina Martins
Caio Chaves Guimarães | Luciane Cruz Lopes
Brazil

Antimicrobial Use in Patients Diagnosed with Chronic Kidney Disease Admitted in the Internal Medical Wards at

Dr George Mukhari Academic Hospital

Katlego Kupa | Phumzile Skosana
South Africa

Antithrombotic Therapy Prescription Patterns in the Secondary Prevention of Stroke in Patients with Atrial Fibrillation: Findings from a Real-World, Population-Based Study

Francisco Sanchez-Saez | Judit Riera-Arnau
Isabel Hurtado | Clara Rodriguez-Bernal | Gabriel Sanfelix
Spain

Assessing the Impact of Pharmacist-Led Anticoagulation Clinic within a Tertiary Care Setting in Saudi Arabia: A Retrospective Cross-Sectional Study

Ali Alsulaiman | Ahmed Alswar | Hadi Almansour
Mohamed Sheik | Abdulaziz Alhossan
Saudi Arabia

Posters

DRUG UTILIZATION RESEARCH

Association between Non-Adherence to Endocrine Therapy and the Risk of Recurrence Among Breast Cancer Survivors: A Systematic Literature Review

Namratha Ravindra | Najla Faddoul
Wei-Hsuan Lo-Ciganic | Juan M Hincapie-Castillo
Haesuk Park | Coy D Heldermon | Seonkyeong Yang
Debbie L Wilson | Lauren E Adkins | Ching-Yuan Chang
United States

Association between Persistence to Treatment after Percutaneous Coronary Intervention and Clinical Outcomes in Acute Coronary Syndrome Patients: A Multicenter Study in Indonesia

Erna Kristin | Lucia Krisdinarti | Alfi Yasmina
Woro Rukmi Pratiwi | Rizaldy Taslim Pinzon | Sudi Indrajaya
Indonesia

Avoidable Public Expenditures with Selected Antineoplastic Drugs for Breast Cancer in Brazil

Ranailla Lima Bandeira dos Santos | Vera Lúcia Edais Pepe
Claudia Garcia Serpa | Osorio-de-Castro
Brazil

Carboplatin Appropriateness and Rationality Assessment

Tien-Yuan Wu | Hui-Hsia Hsieh | Chi-Hua Chen
Taiwan

Characteristics of Patients Initiating Spiriva Respimat for Asthma in the UK

Christina Raabe | Qiang Li | Mariel Slater
Jennifer K. Quint
Germany

Characterization of Polypharmacy in Middle-Aged and Elderly Adults in the UK: An Analysis of 0.5 Million People in UK Biobank

Junqing Xie | Antonella Delmestri | Sara Khalid
Victoria Strauss | Gary Collins | Daniel Prieto-Alhambra
United Kingdom

Characterizing Patients Using Abuse-Deterrent Formulations Of Extended-Release Opioid Analgesics

GYeon Oh | Bethany DiPrete | Svetla Slavova
Nabarun Dasgupta | Shabbar Ranapurwala | Emily Slade
Chris Delcher | Daniela Moga
United States

Classification of Gabapentinoids as Controlled Drugs Reduced Gabapentinoid Prescriptions in Primary Care in England

Xinchun GU | Teng-Chou Chen | Douglas Steinke
Li-Chia Chen
United Kingdom

Clinical and Cost-Saving Effects of the Drug Utilization Review Modernization Pilot Project in Inpatient and Outpatient Settings in Korea

Dongwon Yoon | Inmyung Song | Ha-Lim Jeon
Sungho Bea | Ahhyung Choi | Hyesung Lee
Ju-Young Shin
South Korea

Comedication of Opioids with Benzodiazepines, Gabapentinoids Among Caregivers of Children with Special Healthcare Needs

Oluwadamilola Onasanya | Beth Hogans
Susan dosReis | Gloria Reeves | Wendy Camelo Castillo
United States

Comparative Analysis on the Evolution of Antimicrobial Resistance Surveillance and Governance Between China and the United States

Bo Wu | Fei Yan | Chaowei Fu
China

Comparison and Contrast of Antibiotic Utilization and Outcomes in Hospital-acquired Pneumonia (HAP), Ventilated HAP (vHAP) and Ventilator Associated Pneumonia (VAP) in the United States

Mahek Garg | Xinyue Liu | Wynona Blac | Kaushal Desai
Edward Bortnichak | Pamela Moise | Laura Puzniak
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Consumption Patterns of Chronic Medication during the COVID-19 Pandemic in Portugal

António Teixeira-Rodrigues | Jose Guerreiro
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COVID-19 Treatment Approaches Among Hospitalized Patients in a National HealthCare System

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Posters

DRUG UTILIZATION RESEARCH

Dispensing Patterns of Antithrombotic Agents in South Africa with Specific Focus on the Direct Oral Anticoagulants (DOACs): A Database Analysis

Ilse Truter | Diana Oelofse
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Drug Use Evaluation of Cephalosporins in Patients with Culture Report of Enterococcus Faecalis or Enterococcus Faecium

Yi-Ting Shen | Tien-Yuan Wu | Hui-Hsia Hsieh
Chi-Hua Chen
Taiwan

Drug Use Evaluation of Fentanyl Buccal Soluble Film

Hsiang-Jung Huang | Hui-Hsia Hsieh | Tien-Yuan Wu
Chi-Hua Chen
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Drug Use Evaluation of Vytorin

Mei-Shu Chen | Hui-Hsia Hsieh | Tien-Yuan Wu
Chi-Hua Chen
Taiwan

Drug Utilization Evaluation for the Treatment of Vulvovaginal Candidiasis

Li-Yu Lin | Hui-Hsia Hsieh | Tien-Yuan Wu | Chi-Hua Chen
Taiwan

Drug Utilization Evaluation of Duloxetine

Hui-Hsia Hsieh | Tien-Yuan Wu | Chi-Hua Chen
Taiwan

Drug Utilization Evaluation of Pregabalin

Yi-Chin Liu | Hui-Hsia Hsieh | Tien-Yuan Wu
Chi-Hua Chen
Taiwan

Drug Utilization Research in Africa: Overview of Demographic and Socioeconomic Profile, Health Systems and Epidemiology

Ilse Truter | Olayinka Ogunleye | Francis Kalemeera
Dan Kibuule | Johanita Burger | Johanna Meyer
Laura Horne | Maribel Salas
South Africa

Estimates of Paracetamol Poisoning in Brazil: Analysis of Official Records

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Evaluating the Impact of New Prescribing Restrictions for Publicly-Subsidised Proton Pump Inhibitors in Australia: An Interrupted Time Series Analysis

Benjamin Daniels | Sallie-Anne Pearson | Claudia Bruno
Nicholas Buckley | Andrea Schaffer | Min Jun
Helga Zoega
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Evaluation of Esketamine Adverse Event from the FAERS Database and Published Case Reports

Madeline Brendle | Daniel Malonem | Lorenzo Villa Zapata
United States

Evaluation of Albumin Utilization in a Major Teaching Hospital in Iran Before and After Guideline Implementation

Shahriyar Shahbazi Khamas | Atefeh Jafari
Iran

Frequency, Characteristics, and Subsequent Treatment (Tx) of Real-World Patients (pts) who Discontinue Hedgehog Inhibitors (HHIs) as First-Line (1L) Systemic Tx for Advanced Basal Cell Carcinoma (aBCC)

Jessica Jalbert | Chieh-I Chen | Kathleen Aguilar
Kalatu Davies | Patrick LaFontaine | Matthew Fury
Timothy Bowler | Asieh Golozar | C. Lance Cowey
United States

HealthCare Resource Use in a US Claims Database during the Early Period of the COVID-19 Pandemic

Shiyao Gao | Krista M. Schroeder
Casey Kar-Chan Choong | Robert Goodloe
United States

High Adherence and Sustained Virologic Response Among Vulnerable People Initiating an Hcv Treatment at a Community-Based Nurse-Led Clinic: A Cohort Study

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DRUG UTILIZATION RESEARCH

How Government Health Insurance Coverage of Novel Anti-Cancer Medicines Benefited Cancer Patients in China: A Retrospective Analysis of the Insurance Claim Data

Mingshuang Li | Yifan Diao | Jing Sun | Yu Jiang
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Impact Analysis of the COVID-19 Epidemic on the Patterns of Access to Medicines of Patients with Common Chronic Diseases in Beijing

Yujin Zhou | Guolin Dai | Ke Zhang, Huang | Yaying Shen
Bin Ma | Hanyong Wang | Jing Sun
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Impact of Chronic Diseases on the Adherence to Guidelines for the Treatment of Urinary Tract Infection in Quebec, Canada

François Lefebvre | Élise Fortin | Geneviève Deceuninck
Marc Simard | Caroline Quanch-Thanh
Alejandra Irace-Cima | Nadine Magali-Ufitinema
Caroline Sirois
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Impact of COVID-19 Outbreak on Antidepressants Utilization: A Real-World Drug-Utilization Study based on Tuscany HealthCare Administrative Databases

Ippazio Cosimo Antonazzo | Carla Fornari | Olga Paoletti
Claudia Bartolini | Sara Conti | Pietro Ferrara
Paolo Angelo Cortesi | Lorenzo Giovanni Mantovani
Giampiero Mazzaglia | Rosa Gini
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Impact of H. Pylori Eradication Therapy After the Introduction of Endoscopic Screening for Gastric Cancer in Japan

Chisato Hamashima
Japan

Impact of the Introduction of Generic Equivalents on Memantine Consumption in South Africa using the ATC/DDD Methodology

Ilse Truter | Ashmitha Munasur-Naidoo
South Africa

Impacts of Pharmacists' Intervention on Drug-Related Problems in Treatment for Pediatric Outpatients in Vietnam

Thang Nguyen | Vy Le, Phuong Nguyen | Suol Pham
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Katja Taxis
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Impacts of Prescription Drug Monitoring Program on Patients with Cancer

Tham Le | Sean Fleming | Aida Kuzucan
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Incentive Structure of Employer Health Insurance and Impact on Patient Drug Use and Cost of Accessing the Private Primary Healthcare System

Che Zin | Norny Rahman | Nor Nazar
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Incidence in Pharmacoepidemiology – New on the Drug vs New on the Class of Drugs

Mikael Hoffmann | Henrik Støvring
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DRUG UTILIZATION RESEARCH

Key Opportunities and Future Direction for Drug Utilization Research in Africa

Johanna Meyer | Joseph Fadare | Joyce Kgatlwane
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South Africa

Medicines Use by Professors at a Brazilian Public University During the COVID-19 Pandemic: Findings and Implications

Waleria de Paula | Wanessa Cecília De Oliveira
Adriana Lúcia Meireles | Renata Nascimento
Glenda Nicioli da Silva
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Melatonin use Among Children, Adolescents, and Young Adults: A Danish Nationwide Drug Utilization Study

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Martin Ernst | Poul Jørgen Jennum
Stine Hasling Mogensen | Nikolai Constantin Brun
Rikke Wesselhöft | Anton Pottegård
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Misuse of Antimicrobials in the Rural Population of a District in South India

Syed Ilyas Shehnaz | S. Madan Kumar
India

Non-Persistence with Statins in Diabetic and Non-Diabetic Patients with Transient Ischemic Attack

Martin Wawruch | Jan Murin | Tomas Tesar
Slovakia

Opioid Consumption from 2013 to 2016 in South Africa: Morphine, Pethidine, Oxycodone and Tramadol

Ilse Truter | Ashmitha Munasur-Naidoo
Lauren Campbell
South Africa

Opioid Use Patterns Among Non-Metastatic Cancer Survivors: A Systematic Literature Review

Najla Faddoul | Namratha Ravindra
Wei-Hsuan Lo-Ciganic | Juan Hincapie-Castillo
Haesuk Park | Coy Heldermon | Seonkyeong Yang
Lauren Adkins | Debbie Wilson | Ching-Yuan Chang
United States

Optimization of Prescription Patterns: A Response to Control High Pharmaceutical Expenditure

Ines Martinho | Jose Guerreiro
António Teixeira-Rodrigues | Carla Torre
Portugal

Patterns of Antihypertensive Drugs Use after Primary Stroke in the General Population

Julia Perrier | Valérie Olié | Amélie Gabet
Antoine Pariente | Christophe Tzourio | Julien Bezin
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Patterns of Antimicrobial Prescribed to Patients Admitted to a Tertiary Care Hospital in South-West Nigeria: A Prescription Quality Audit

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Patterns of Meropenem Utilization and Resistance at a Kenyan Public Referral Hospital

Dennis Makau | Margaret Oluka | Faith Okalebo
Kenya

Patterns of Prescription and Co-Prescription of Opioids and Benzodiazepines in the Period 2010 to 2018: A Real-World, Population-Based Study

Francisco Sanchez-Saez | Gabriel Sanfeliu | Sabel Hurtado
Salvador Peiro | Anibal Garcia-Sempere
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Persistence to Treatment after Percutaneous Coronary Intervention for Acute Coronary Syndrome Patients as a Cost-Saving Opportunity in Indonesia

Erna Kristin | Lucia Krisdinarti | Alfi Yasmina
Woro Rukmi Pratiwi | Ratih Puspita Febrinasari
Endang Mahati | Sudi Indrajaya
Indonesia

Pharmacist-Led Intervention to Support Deprescribing of Cardiometabolic Medication Among People with Type 2 Diabetes: A Pilot Study

Stijn Crutzen | Gert Baas | Petra Denig | Marcel Bouvy
Mette Heringa | Katja Taxis
Netherlands

Pilot Study Rectifies Real World Study Design to Support Regulatory Decision Making

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Posters

DRUG UTILIZATION RESEARCH

POPPY II Cohort Profile—A population-Based Linked Cohort Examining the Course and Outcomes of Prescription Opioid Use in NSW, Australia, 2003-2018

Natasa Gisev | Anne Pearson | Timothy Dobbins
Luke Buizen | Tom Murphy | Andrew Wilson | Fiona Blyth
Adrian Dunlop | Sarah Larney | David Currow
Richard Mattick | Louisa Degenhardt

Australia

Potentially Inappropriate Medication Use in Older Hospitalized Patients with Type 2 Diabetes: A Cross-Sectional Study

Manik Chhabra | Rishabh Sharma | Kota Vidyasagar
Akshaya Bhagavathula

India

Prescribing Trends of Antihypertensive Drug Classes in a Hong Kong Dementia Cohort

Edmund Cheung | Sze Ling Celine Chui | Gary Lau
Hao Luo | Eric Wan | Ian Wong

Hong Kong

Prescription Opioid Use in Australian Women of Reproductive Age from 2013 to 2020

Bianca Varney | Malcolm Gilles | Alys Havard
Helga Zoega | Sallie-Anne Pearson | Melisa Litchfield

Australia

Prevalence and Factors Associated with Oral Anticoagulant Use in the General Nursing Home Population

Qiaoxi Chen | Julie Hugunin | Kate Lapane
Anthony Nunes | Jennifer Tjia | Matthew Alcusk

United States

Prevalence and Predictors of Potentially Inappropriate Psychotropic (PIP) Medications in Older Adults with Psychiatric Illness

Rishabh Sharma | Manik Chhabra | Parveen Bansal
Malika Arora | Arvind Sharma

India

Prevalence of Adverse Drug Reactions in the Primary Care Setting: A Systematic Review and Meta-Analysis

Widya Norma Insani | Cate Whittlesea | Hassan Alwafi
Kenneth Man | Sarah Chapman | Li Wei

United Kingdom

Prevalence of Potentially Inappropriate Medication and its Correlates in Elderly Hospitalized Patients: A Cross Sectional Study Based on Beers Criteria

Rishabh Sharma | Manik Chhabra | Parveen Bansal
Malika Arora

India

Prevalence of Potentially Inappropriate Medication in Elderly Inpatients with Chronic Kidney Disease (CKD)

Manik Chhabra | Rishabh Sharma | Malika Arora | Bansal

India

Process Evaluation of Implementing a Pharmacist-Led Intervention to Improve Adherence to Antihypertensive Drugs Among Patients with Type 2 Diabetes in Indonesian Community Health Centers

Sofa Alfian | Job Van Boven | Aulia Iskandarsyah
Rizky Abdulah | Eelko Hak | Petra Denig

Netherlands

Real World Utilization of 91-Day Extended Levonorgestrel-Containing Combined Oral Contraceptives in Europe: A Multinational Database Study

Sigal Kaplan | Massoud Toussi | Debabrata Roy
Sandeep Dhanda | Amir Lass

Israel

Real-World Utilization of Octreotide Immediate Releasing Use with Octreotide Long-Acting Releasing

Yue Cheng | Val Adams | Lowell Anthony | Chris Delcher
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United States

Real-World Treatment Patterns of Newly Diagnosed Patients with Asthma and/or COPD

Aniek Markus | Peter Rijnbeek | Jan Kors | Guy Brusselle
Edward Burn | Daniel Prieto-Alhambra | Katia Verhamme

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Real-World Treatment Trajectories for Newly Diagnosed Type 2 Diabetes Mellitus in Patients with Metastatic Cancer

Irene Murimi-Worstell | Kshitij Prabhune | Andrew Cohen
Christy Harris | Alissa Segal

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Scope of Insulin Human Utilization in Females of Childbearing Age in the US

Ayad Ali

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Posters

DRUG UTILIZATION RESEARCH

Sex Difference, Label Indications and Trend in Atypical Antipsychotics Use in Early-Onset Schizophrenia: A Nationwide Cross-Sectional Study

Izabela Fulone | Marcus Silva | Luciane Cruz Lopes
Brazil

Sex Differences in Lipid Profile Across the Life Span in Patients with Type 2 Diabetes: A Cross-Sectional Study

Martina Ambroz | Sieta de Vries | Priya Vart
Robin Dullaart | Roeters van Lennep | Petra Denig
Klaas Hoogenberg
Netherlands

Slovenia vs the Netherlands: A Comparison of Opioid Prescription Strategies

Ajda Bedene | Anita Strmljan | Willem Lijfering
Mitja Udovič | Frits Rosendaal | Jurij Fürst | Albert Dahan
Eveline Van Dorp
Netherlands

Temporal Trends in Medication Utilization Among Hospitalized COVID-19 Patients

Andrew Weckstein | Sarah Vittoe | Donna Rivera
Marie Bradley | Silvia Perez-Vilar | Sandy Leonard
Elizabeth Garry | Nicolle Gatto | Jeremy Rassen
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Temporal Trends of Pharmacologic Treatments for Tuberculosis and Multidrug-Resistant Tuberculosis Following Treatment Guideline Dissemination in South Korea

Han Eol Jeong | Junyeong Choi | In-Sun Oh | Hyunjin Son
Seung Hun Jang | Sun-Young Jung | Ju-Young Shin
South Korea

The Influence of Medical Representative Visits on Prescribing Practice of Physicians in Jordan and Iraq: A Cross-Sectional Study

Karrar Ehsan Ali | Abdallah Naser | Rabaa Alrousan
Hassan Alwafi | Amal Khaleel AbuAlhommos
Jordan

The Use of Medication Among People with Stage 2 Hypertension: Findings from an Indonesian Cross-Sectional Study

Riana Rahmawati | Ana Fauziyati | Zinedine Yusuf Ariant
Indonesia

The Utilization Evaluation of Intravenous Pantoprazole for Stress Ulcer Prophylaxis in a Major Teaching Hospital

Shahriyar Shahbazi Khamas | Atefeh Jafari
Iran

Time Trends in Patient Characteristics of New Rivaroxaban (RVX) Users with Atrial Fibrillation (AF) Across Four Countries

Annemarie Voss | Ana Ruigomez | Elisabeth Smits
Karin Swart-Polinder | Yanina Balabanova | Gunnar Brobert
Luis Garcia Rodriguez | Ron Herings | Tania Schink
Germany

Treatment Patterns and Appropriateness of Antipsychotic Prescriptions in Patients with Schizophrenia

Veronica Gamon | Isabel Hurtado | José Salazar-Fraile
Gabriel Sanfeliix
Spain

Treatment Trajectory of Antihypertensive Drugs in UK Primary Care Practices

Julie Rouette | James Brophy | Tibor Schuster
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Trends and Patterns in Traditional Chinese Medicine Use Among Chinese Population in Late Adulthood: An Eight-Year Repeated Panel Survey

Lu Xu | Jing Hu | Shengfeng Wang | Siyan Zhan
China

Trends in Hydroxychloroquine Drug Utilization and Safety in 2020

Sarah Hoffman | Sonali Shambhu | Vincent Willey
Kevin Haynes
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Trends in Prescribing of Non-Steroidal Anti-Inflammatory Medications in the US Ambulatory Care Setting, 2006-2016

Shailina Keshwani | Joshua Brown | Wei-Hsuan Lo-Ciganic
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DRUG UTILIZATION RESEARCH

Trends in the Management of Primary Headache in US Emergency Departments: Analysis of 2007-2018 NHAMCS Data

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Jingchuan Guo | Ching-Yuan Chang | Debbie Wilson
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Trends of Anti-epileptic Drugs Use During Pregnancy in Manitoba, Canada: A 20-Year Utilization Study

Walid Shouman | Joseph Delaney | Alekhya Lavu
Sherif Eltonsy
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Utilization of Anti-CGRP Monoclonal Antibodies for Migraine Prophylaxis between 2019 and 2020 in Tuscany Region, Italy

Giulia Hyeraci | Rosa Gini | Olga Paoletti
Giorgio Limoncella | Davide Messina | Silvia Benemei
Chiara Lupi | Luigi Francesco Iannone
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Using Administrative Data and the Regional Pathology Registry of Tuscany to Describe First-Line Pharmacotherapy and Survival of Patients with Non-Resectable Non-Small Cell Lung Cancer from 2009 to 2019

Spini Andrea | Giuseppe Roberto | Cristiana Bellan
Alessandra Pascucci | Pietro Rosellini | Sandra Donnini
Folco Furiesi | Lorenzo Leoncini | Silvano Giorgi
Allison Singer | Claudia Bartolini | Marina Ziche | Rosa Gini
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Italy

Utilisation and Safety of Glycopyrronium Bromide (GPB) Oral Solution for the Treatment of Sialorrhoea in Children <18 Years in the UK

Debabrata Roy | Vicki Osborne | Sandeep Dhanda
Saad Shakir
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Utilization of Drugs Reimbursed by the Italian HealthCare Service for the Treatment of COVID19 during the First Pandemic Wave: Gender Differences in the General and Nursing Home Population of Tuscany

Giuseppe Roberto | Niccolò Lombardi | Giada Crescioli
Francesca Collini
Fabrizio Gemmi | Alfredo Vannacci
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Marina Ziche | Gianni Virgili
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Utilization Patterns and HealthCare Accesses of JAKi used in Rheumatoid Arthritis Patients in Tuscany: The LEONARDO Study

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Giuseppe Turchetti | Elisabetta Fini | Sabrina Giometto
Claudia Bartolini | Olga Paoletti | Irma Convertino
Sara Ferraro | Emiliano Cappello | Giulia Valdiserra
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Italy

Utilization Patterns of Direct Oral Anticoagulants in Medicare Beneficiaries with Cancer and Non-Valvular Atrial Fibrillation

Shirin Ardeshirrouhanifard | Huijun An
Ravi Goyal | Jodi Segal | G. Caleb Alexander Hemalkumar Mehta
United States

Visualization Methods to Examine Treatment Patterns in Pharmacoepidemiology: An Example Using Osteoporosis Medications

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Posters

G E R I A T R I C S

Adherence to Anti-Dementia Medicine: A South African Database Analysis

Ilse Truter
South Africa

An Evaluation of Injurious Falls and Fall-Risk-Increasing-Drug (FRID) Prescribing Behaviors in a Nationally Representative Sample and the Pharmacist's Role in Fall Prevention

Taylor Elliott | Daniela Moga | Susan Westneat
Shama Karanth | Erin Abner | Anna Kucharska-Newton
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Any Link Between Polypharmacy and the Risk of Mortality Among Patients with Chronic Heart Failure Newly Diagnosed? A Nested Case-Control Study

Sylvie Perreault | Mireille Schnitzer | Eliane Disso
Jakub Qazi | Marc Dorais
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Assessment of Drug-Drug Interactions Among Geriatric Patients in Community Setting

Meghana Nadendla | Umesh M | Lakshmi Choudary
India

Assessment of Predictors of Fractures in German Older Adults using a Large Population Sample

Jonas Reinold | Malte Braitmaier | Oliver Riedel
Ulrike Haug
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Association between Anticholinergic Burden of Medications and Emergency Care in the Elderly Assisted in the Brazilian Primary Care Setting

Fabiane Motter | Rodrigo Iwami | Vera Paniz
Luciane Cruz Lopes
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Factors Associated with Different Dosage Forms of Disease-Modifying Agents in Older Adults with Multiple Sclerosis

Ashna Talwar | Jagadeswara Rao Earla | George Hutton
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Fracture Risk Following the Initiation of antihypertensive Therapy Amongst Frail Elderly People: A Self-Controlled Case Series analysis

Annika Jödicke | Eng Hooi (Cheryl) Tan | Danielle Robinson
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Intravitreal Anti-Vascular Endothelial Growth Factors Use in France: Cross-Sectional and Longitudinal Nationwide Observational Studies

Sophie Billioti de Gage | Marion Bertrand
Sébastien Grimaldi | Mahmoud Zureik
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Low Rates of Bone-Active Medication Utilization from 2013-2017 by Provider Type for Beneficiaries Aged 65+ with Medicare Part D

Jennifer Marie Kirk | Sean Fleming | Denise Orwig
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Medication Regimen Complexity Among Older Adults Admitted to Home Hospice

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Geraldine Puerto | Vennesa Duodu
Susan DeSanto-Madeya
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Polypharmacy Among Older Individuals with Heart Failure: Trends between 2000 and 2017 in the Province of Quebec, Canada

Caroline Sirois | Alexandre Campeau Calfat | Marc Simard
Amina Ouali | Claudia Blais
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Polypharmacy and Health-Related Quality of Life in Older Adults with Cancer: Determining Breakpoints

Manvi Sharma | Yiqiao Zhang | Monika Salkar
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Predictors of Concomitant Use of Opioids and Gabapentin in the National Alzheimer's Coordinating Center Database

Logan Oatman | Jungjun Bae | GYeon Oh
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Posters

GERIATRICS

Survival in Older Adults Treated for Chronic Lymphocytic Leukemia Compared to Those without Cancer: An Exploratory Time-Trend Analysis

Emilie Duchesneau | Annie McNeill | Jerzy Tyczynski
William Schary | Jennifer Lund

United States

The Effectiveness of a Module for Primary Health Care Professionals in Preventing Nonsteroidal Anti-Inflammatory Drugs-Associated Gastrointestinal Adverse Reactions Among Elderly

Alyya Siddiqi Siregar | Purwastyastuti Ascobat
Retno Asti Werdhani | Nafrialdi Nafrialdi | Ari Fahrial
Syam Rudy Hidayat | Grace Wangge

Indonesia

Trends in Antipsychotic Dispensation to Residents of Long-Term Care Facilities in Nova Scotia, Canada including after a Fall-Related Hospitalization

Shanna Trenaman | Ingrid Sketris | Maia von Maltzahn
Samuel Stewart | Yan Wang | Hala Tamim

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Use of and Adherence to Bisphosphonates in Elderly Patients with Complex Health Needs: An Analysis of UK Primary Care Records

Leena Elhussein | Annika Jödicke | Antonella Delmestri
Danielle Robinson | Victoria Strauss

Daniel Prieto-Alhambra

United Kingdom

Use of Potentially Inappropriate Medicines by Elderly People in Primary Care of the Unified Health System (SUS) in Brazil

Renata Nascimento | Viviane Silveira

Brazil

HEALTH ECONOMICS / OUTCOMES RESEARCH

Absence Benefit Use and Payment Trends Among Short-and Long-Term Disability, and Workers' Compensation for Employees with Any of 20 Top Agency for Healthcare Research and Quality Conditions

Richard Brook | Nathan Kleinman | Ian Beren

United States

Absence Benefit Utilization, Duration of Leaves, and Payments Vary by Benefit and Over Time for Short-and Long-Term Disability and Workers' Compensation for Employees with Headaches and Migraines in the United States

Richard Brook | Nathan Kleinman | Ian Beren

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Analysis of COVID-19 Patient Experiences Reported Through Social Media

Melissa Khashei | Jennifer Shields | Christopher St. Clair
Wei Liu | Jae Joon Song | Monique Falconer | Wei Hua

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United States

Assessment of Health-Related Quality of Life in Adults with Asthma by Asthma Severity

Hyunjin Song | Kathryn Blake | Debbie Wilson | Almut
Winterstein | Haesuk Park

United States

Association between Primary Care Provider Payment Models and Adherence to Anticoagulation in a Sample of Patients with Atrial Fibrillation

Lanting Yang | Jingchuan Guo | Terri Newman
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Posters

HEALTH ECONOMICS / OUTCOMES RESEARCH

Association of Inflammatory Bowel Disease with the Risk of Parkinson's Disease: A Meta-Analysis of Real-World Evidence

Salman Hussain | Abul Kalam Najmi
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Benefits Analysis of Pharmacists Intervention Multi-drug Integration in Chronic Patients

Chi-Hua Chen | Hui-Hsia Hsieh | Tien-Yuan Wu
Taiwan

Clinical Outcomes Among Relapsed/Refractory (R/R) Adult and Pediatric Classical Hodgkin's Lymphoma (cHL) Patients: A Global Systematic Literature Review (SLR)

Monika Raut | Akash Nahar | Manasi Thosar | Iris Brewer
Rebekah Borse | Xiaoqin Yang | Sam Keeping
United States

Comparison of Quality of Life between Men and Women with Chronic Liver Diseases using Chronic Liver Disease Questionnaire (CLDQ): A Meta-Analysis.

Marwan Alrasheed | Abdulrahman Alsuhibani
Ana Hincapie | Jeffrey Welge
United States

Cost Considerations of Dermatological Care in Jordan: A Cross-Sectional Study

Abdallah Naser | Danya Alwafi | Hassan Alwafi
Eman Zmaily Dahmash | Faris El-Dahiyat
Ghaydaa Ramzi Al-Hallaq
Jordan

Cost-Related Nonadherence for Prescription Medications: A Cross-Sectional Study in Jordan

Abdallah Naser
Jordan

Early Assessment of the Impact of the COVID-19 Era on Charlson Score

Tiffany Siu Woodworth | Ian Livingstone | Hailee Schuele
Joseph Menzin
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Effect of Anti-Dementia Drugs on and Potential Racial/Ethnic Disparities in Satisfaction with Quality of Care Among Older Adults with Alzheimer's Disease and Related Dementias

Xiaomo Xiong | Minghui Li | Jun Wu | Kevin Lu
United States

Effectiveness and Safety of Extended Anticoagulation in Patients with Venous Thromboembolism: A Retrospective Cohort Study

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Global Antiplatelet Sales Trend: A Focus on P2y12 Inhibitors from 2008 to 2018

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Health-Related Quality of Life in Older Adults with Concomitant Opioid and Skeletal Muscle Relaxant Use in a National Cohort of Older Adults

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Impact of the COVID-19 Pandemic on Routine Clinical Management of Patients with Neurological Conditions: a Retrospective Cohort Study in UK Primary Care (CPRD)

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Inadequate Response Rates and Associated Factors to Psoriasis Therapies Using a Claims-Based Algorithm

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Long- and Short-Term Disability and Workers' Compensation Trends for Employees with Bone Diseases

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Long-and Short-Term Disability and Workers' Compensation Trends for Employees with Eye (Ophthalmic) Conditions in the United States

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HEALTH ECONOMICS / OUTCOMES RESEARCH

Long-and Short-Term Disability and Workers' Compensation Trends for Employees with Gastrointestinal (Digestive System) Conditions in the United States

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Long-and Short-Term Disability, Workers' Compensation and Prevalence Trends for Employees with Mental Disorders in the United States

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Novel Glucose-Lowering Agents and Cardiorenal Benefits: Absence of Racial/Ethnic Diversity in Clinical Trials

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Parkinson's Disease Experience from a Patient's Perspective: Systematic Review on Patient Reported Outcomes

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Prevalence and Leaves Due to Long-and Short-Term Disability and Workers' Compensation for Employees with Diabetes

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Real World Evidence in Effectiveness, Safety, and Cost Savings of Generic Levothyroxine: A Systematic Review

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Risks of Cardiovascular and Kidney Events Associated with Proton Pump Inhibitor Use Among Medicare Beneficiaries: A Retrospective New User Cohort Study

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Safety Profile Analysis of Sunitinib and Dasatinib Protein Kinase Inhibitors Using FDA Adverse Event Reporting System (FAERS) Database

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The Effect of Prescriber, Treatment, and Client Characteristics on Retention in Opioid Agonist Treatment: A 15-Year Retrospective Cohort Study

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The Impact of COVID-19 on Telemedicine Use and Patients' Characteristics

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The Use of Real-World Data in Research in the GCC Countries: A Descriptive Study

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Trends from 2001 to 2019 in Workers Compensation Indemnity Payments and Absences Among Employees with Bone Diseases, Headaches/Migraines, Diabetes, Multiple Sclerosis, Osteoarthritis, Rheumatoid Arthritis and Back Pain

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Trends in Absence Time and Payments due to Long-and Short-Term Disability and Workers' Compensation for Employees with Rheumatoid Arthritis

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Understanding Oral Anticoagulant Preferences of Patients with Atrial Fibrillation in China and Willingness-To-Pay: Evidence from a Discrete Choice Experiment

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I N F O R M A T I C S

Characterizing Real-World Treatment Patterns Among Patients Hospitalized Due to SARS-CoV-2

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Identifying Dipeptidyl Peptidase-4 Inhibitor Users with Sufficient Data Completeness in Electronic Health Records

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Inception to ConcePTION: a Conceptual Framework for Characterizing Pharmacoepidemiologic Data Sources. A Study from the ConcePTION Project

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Study Validity in Sports Medicine: A Quantitative Assessment of Orthopedic Research Based on Publicly-Obtained Data

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Use of Knowledge Bases in Medical Education: Medical Students' Perspective

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M E D I C A L D E V I C E S

Efficacy and Effectiveness of Mobile Health Technologies to Improve Breastfeeding: Scoping Review

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Efficacy of the OptiMEDsTool for Multidisciplinary Medication Review in Belgian Nursing Homes

Maarten Wauters | Monique Elseviers | Robert Vander Stichele | Tinne Dilles | Geert Thienpont
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Evaluation of Drain Use During Total Knee Replacement Associated with Health Outcomes and Healthcare Utilization

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Health Economics Analysis and Quality of Life of Patients Undergoing Primary Total Knee Arthroplasty (TKA) from China ATTUNE® Study

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Transcatheter and Surgical Aortic Valve Replacement: Patient Characteristics and Outcomes

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M E T H O D S I N P H A R M A C O E P I D E M I O L O G Y

Can We Really Trust the Findings of the COVID-19 Research? Quality Assessment of the Randomized Controlled Trials Published on COVID-19

Athira Joshy | Saphal Surendran | Krishna Undela
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Can We Really Trust the Findings of the COVID-19 Research? Quality Assessment of the Research Articles Published on COVID-19

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Challenges in Studying COVID-19 Treatments in Real-World Hospital Datasets: A Case Study of Tocilizumab

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Clinical Notes vs Diagnosis Codes in Identification and Characterization of Women with Endometriosis

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Creating High Quality External Control Arms from RWD in Support of Regulatory Decision Making

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Determining the Accuracy of Developing New User Cohorts using Electronic Health Record Data

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Evaluating the Completeness of Electronic Health Records in Identifying Nonfatal Cardiovascular Events in Taiwan

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Experimenting with County-level COVID-19 Data as a Substitute for Demographic Information

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External Control Arms to Contextualise Single Arm Clinical Trials – Propensity Score Methods can be Inconsistent

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Four Competing Definitions of Morphine Equivalence Insidiously Inhibit Evidence Synthesis

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Fracture Outcome Coding in Observational Osteoporosis Drug Effects Studies: A Scoping Review

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Genetic Heterogeneity Patterns of Electronic Medical Record (EMR)-Derived Race Groups in a Deidentified Clinico-Genomic Database (CGDB)

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METHODS IN PHARMACOEPIDEMIOLOGY

Graphical Representation of Multiple Quantitative Bias Analysis Scenarios for Unmeasured Confounding

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Handling with Vaccine Type Missing Data in a Dynamic Cohort to Assess the Link Between Time-Varying Vaccination and an Autoimmune Disease

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How COVID-19 Randomized Controlled Trials Reported on Demographic and Clinical Characteristics

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Identification of a Diagnostically Complex Condition, Polycystic Ovarian Syndrome, in a Population-Based Cohort Using Electronic Health Record Data

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Identification of Appropriate Safety Metrics in Long-Term Studies

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Identification of Patients with NonAlcoholic Steatohepatitis (NASH) in an Electronic Health Record (EHR) Database

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Imbalanced Data Bias in Logistic Regression to Estimate Treatment Effects: Results from a Virtual Patient Cohort Simulation

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Impact of Increasing Enrollment Requirements in Administrative Claims Data

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Matching Study Design to Prescribing Intention: The Prevalent New User Design in Opioid Research

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Methodologic Challenges and Considerations for the Collection of Dietary Intake Data in Real-World Populations

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Methods and Practical Considerations in Use of an External Control to Assess Potential Drug Risk

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Modeling Parasite Clearance Curves in a Cohort to Compare Quinine and Artesunate for the Treatment of Pediatric Cerebral Malaria

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Multimorbidity Measures from Health Administrative Data: A Systematic Review

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NSAIDs and Paracetamol-Induced Hepatotoxicity: A Systematic Review and Meta-Analysis of Observational Studies

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Primary Non-Adherence in Primary Care in the Netherlands

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Prognostic Impact of Three Comorbidity Indices on 1 Year Mortality Among Patients with Hip Fracture

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METHODS IN PHARMACOEPIDEMIOLOGY

Propensity Score Modeling to Reduce Channeling Bias when Exposure is Rare

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Quantitative Bias Analyses in the Absence of a Gold Standard: An Application using Linked EHR and Claims Data to Evaluate Prolonged Opioid Use Following Surgery

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Real-World Algorithms in Defining Castration Resistant Prostate Cancer in Retrospective Observational Studies

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Recent Use of External Controls in Clinical Trials: A Pragmatic Literature Review

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Risk of Thrombotic Microangiopathy with Tyrosine Kinase Inhibitors: A disproportionality Analysis from VigiBase and AERS databases

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Socio-Epidemiological Approaches in Designing and Modelling Pharmacy Public Health Programs in Infectious Diseases Control in Developing Countries

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Surveillance of Postmarketing Risk-Mitigation Behavior Using Tests of Model Misspecification in a Statistical Process Control Framework

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The Effect of Aspirin on COPD: A Methodological Review of the Observational Studies

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The Use of Uncertain Exposure – A Method to Define Switching and Add-On in Pharmacoepidemiology

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The Utility of Non-Specific ICD-10 Z3A Codes in Estimating Gestational Age

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Using Negative Control Outcomes to Assess the Comparability of Treatment Groups Among Postmenopausal Women Switching Osteoporosis Therapy

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Validation of Self-Reported Medication Use Applying Untargeted Mass Spectrometry-Based Metabolomics Techniques in the Rhineland Study

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Variation Among Pharmacists in Calculating Days' Supply

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E P I D E M I O L O G Y / B I O M A R K E R S / P H A R M A C O G E N E T I C S

A Survey of HLA-B 1502 Genotype Testing on Carbamazepine New User in a Regional Teaching Hospital in Taiwan, 2019

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Role of D-dimer on Serious Outcomes Among Patients Hospitalized with COVID-19

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Triglyceride Levels in Early Type 2 Diabetes and Their Association with Cardiovascular Risk: A Danish Cohort Study

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P E D I A T R I C S

Chronic Prescription Medications and Prevalence of Polypharmacy in Survivors of Childhood Cancer

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Comparison of Pediatric Antibiotherapy in Primary Care: Low vs High Prescribers

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Deterministic Linkage of Pregnant Mothers and Their Newborns in Integrated US Insurance Claims and Electronic Health Record Data

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Hypnotic Drug Use and Underlying Diagnoses Among Adolescents in Norway

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Monitoring of Adverse Drug Reaction-Related Parameters in Children, Youth and Young Adults Prescribed Antipsychotic Drugs by General Practitioners

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Overdose Risk Following Prescription Benzodiazepine Treatment in Young People

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Paediatric Outpatient Prescriptions in Countries with Advanced Economies in the 21st Century: A Systematic Review and an International Comparison

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P E D I A T R I C S

Systematic Review and Meta-Analysis: Efficacy and Safety of Medical Cannabis in Children

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Use of Non-Insulin Antidiabetic Drugs in Children and Young Adults – A Scandinavian Drug Utilization Study from 2010-2019

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P H A R M A C O V I G I L A N C E

Automating Individual Case Safety Report Identification within Scientific Literature using Natural Language Processing

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A Comparison of Data Mining Algorithms Using Different Drug Classifications for Signal Identification

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A Counterfactual Approach to Minimize Channeling Bias in Post-Market Safety Surveillance

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A Pharmacovigilance Analysis of Restless Legs Syndrome Treatments and Suicidality

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A Review of the Sampling Methodology Used in Studies Evaluating the Effectiveness of Risk Minimization Measures in Europe

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A Systematic Review of Non-Small Cell Lung Cancer Treatment-Related Cardiotoxicity

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A Tenfold Increase in the Rate of Adverse Drug Event Reports in Saudi Arabia

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Adverse Drug Reactions and its Evaluation in Saudi Arabia; Retrospective Observational Study

Khalidah Alenzi | Najah Alenzi | Mohammed Almalki
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Adverse Events Associated with Remdesivir in COVID-19 Patients: Evaluation of Spontaneous Reports Submitted to US FDA Adverse Event Reporting System (FAERS)

Jahn timer Yalamanchili | Reddy Neha | Viswam Subeesh
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Adverse Events in COVID-19 Patients Treated with Lopinavir/Ritonavir: Exploration of US FDA Adverse Event Reporting System (FAERS) Reports

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P H A R M A C O V I G I L A N C E

Adverse Reactions to Dolutegravir Reported to the National HIV & Tuberculosis Health Care Worker Hotline in South Africa

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Analysis of Voluntarily Reported Medication Errors: An Excerpt from a Teaching Hospital in a Developing Country

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Aromatase Inhibitors Associated with Sjogren's Syndrome: A Disproportionality Analysis in Spontaneous Reporting Database

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Assessing the Post Marketing Experience of Clopidogrel and Major Cardiovascular Events after PCI in Saudi Arabia using the Saudi Food and Drug Authority (SFDA) Spontaneous Reporting System

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Assessment of Adherence to Deferasirox Risk Minimization Measures in Saudi Arabia

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Assessment of Drug Related Problems at a Tertiary Care Teaching Hospital

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Assessment of the National Pharmacovigilance System in Nepal using the Indicator Based Pharmacovigilance Assessment Tool (IPAT)

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Benzodiazepine Use, Nonmedical Use, and Overdose in the US

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Biliary Toxicity of Immune Checkpoint Inhibitors: A Pharmacovigilance Study Through FDA Adverse Event Reporting System Database

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Cardiovascular Safety Assessment of Febuxostat and Allopurinol in the Real World: A Retrospective Cohort Study

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Cardiovascular Safety Profile of Romosozumab: A Pharmacovigilance Analysis of the US Food and Drug Administration Adverse Event Reporting System (FAERS)

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Cefoperazone and the Risk of Bleeding: A Systematic Review and Network Meta-analysis

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Community Pharmacists Managed Patient Safety Program for Elderly Patients During COVID-19 Pandemic: A Pilot Study from UAE

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Community Pharmacists Managed Patient Safety Program with Minimal Patient Contact for Elderly Patients in Ajman, United Arab Emirates

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PHARMACOVIGILANCE

Comparative Risk of Delirium Associated with Oxybutynin and Solifenacin in Older Adults

Te-yuan Chyou | Prasad Nishtala
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Comparison of Safety Signals Between Selective Serotonin-Reuptake Inhibitors (SSRI) and Serotonin–Norepinephrine Reuptake Inhibitors (SNRI) Employing FDA Adverse Event Reporting System (FAERS) Database

Christa Titus | Eswaran Maheswari | Viswam Subeesh
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Comparisons of Effect Estimates of 12 Prescribing Cascades Using Prescription Sequence Symmetry Analysis

Shih-Tsung Huang | Yu Chen | Tsui-Chuan Hsu
Li-Ning Peng | Fei-Yuan Hsiao | Liang-Kung Chen
Taiwan

Detecting Drug-Drug Interaction Signal of Concomitant use of Tramadol and SSRI using Korea Adverse Event Reporting System Database

HeHyun Won | Hyunyoung Choi | Na-Young Jeong
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Detecting Tizanidine and CYP1a2 Inhibitor Interaction Signals using the Food and Drug Administration's Adverse Event Reporting System

Lorenzo Villa Zapata | Richard Boyce
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Drug-Induced Liver Injury Associated with Lopinavir-Ritonavir in Patients with COVID-19: A Disproportionality Analysis of U.S. Food and Drug Administration Adverse Event Reporting System (FAERS) Data

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Dupilumab Use and Potential Risk of Alopecia Areata: A Systematic Review

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Estimation of Adverse Events Scale Relating Korean Medicine in Korea

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Evaluating the Use of Prescription Sequence Symmetry Analysis as a Pharmacovigilance Tool: A Scoping Review

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Evaluation of Availability of Information on Risk Factors in Reports of Adverse Drug Reactions in a Pharmacovigilance Database

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Evaluation of Chirality for Withdrawn Drugs

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P H A R M A C O V I G I L A N C E

Evaluation of Potential Drug-Drug Interactions Among Patients of the Nephrology and Kidney Transplant Wards of a Major Teaching Hospital

Shahriyar Shahbazi Khamas | Atefeh Jafari
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Excess Risk of Anaphylaxis with Concomitant Use of Qingkailing Injection and Cefotaxime Sodium: An Example of Novel Herbal-Drug Interaction

Haona Li | Jianxiong Deng | Peiming Yu | Xuequn Ren
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Identification of Novel Safety Signals of SGLT2 Inhibitors: A Pharmacovigilance Analysis of the USFDA and Global Adverse Event Reporting Databases

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Identification of Novel Safety Signals of SGLT2 Inhibitors: Analysis of USFDA and Global Safety Databases

Hibathulla P | Krishna Undela
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Individual Case Safety Reports Analysis for Patients with Diabetes Mellitus on Insulin in Africa and the Middle East

Charity Mlotshwa | Johanita Burger | Martine Vorster
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Measuring the Impact of Marketing Authorisation Withdrawal and Revocation on Public Health in France, Germany and UK

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Medication Error Concept and Reporting Practices in Saudi Arabia: A Nationwide Study Among Healthcare Professionals

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Montelukast and Nightmare – Further Characterisation using Data from VigiBase

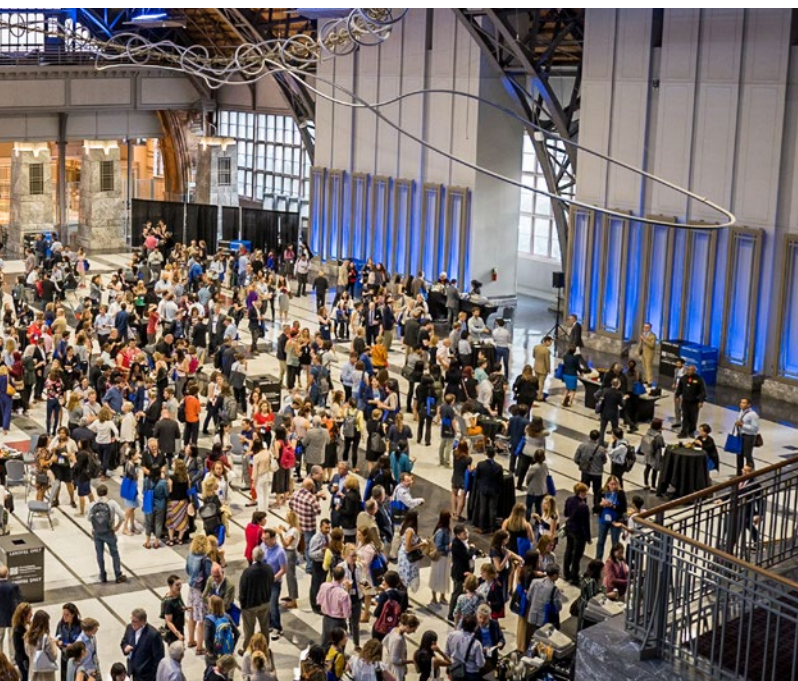
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Motives to Report Adverse Drug Reactions to the National Agency: A Survey Study Among Healthcare Professionals and Patients in Croatia, the Netherlands, and the UK

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Olanzapine and Potential Risk of Somnambulism : A Systematic Review

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PHARMACOVIGILANCE

Pediatric Fentanyl Overdose within an Electronic Health Record Database

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Periodic Safety Reporting System for Post-Market Drug Safety: A Comparative Analysis of Europe, United States, Japan and Korea

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Pharmacists Role in Patient Safety: Evaluation of Dispensing Errors in a Regional Hospital

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Post-Keratoplasty Fungal Keratitis in the Sentinel Distributed Database: Prevalence and Time Trends

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Post-Marketing Drug Safety Sources: An Evaluation of the FDA's Drug Safety Communications

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Psoriasis Risk After Betablockers Exposure: Analysis of French Pharmacovigilance Data

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Remdesivir Safety Monitoring during the COVID-19 Pandemic: A Global Review of Adverse Drug Reaction (ADR) Reporting in VigiBase

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Reporting of Pancreatitis with Tocilizumab use: A Disproportionality Analysis Using the United States Food and Drug Administration Adverse Event Reporting System

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Review of Sytemic Adverse Drug Reactions of Vascular Endothelial Growth Factor Inhibitors in French Pharmacovigilance Data Base

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Risk of Cardiovascular Diseases Associated with Sulfonylurea as an Add-On Therapy to Metformin in Patients with Type 2 Diabetes Mellitus

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Risk of First Ischemic Stroke and Use of Antidopaminergic Antiemetics: A Case-Time-Control Study in France

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Risk of Fracture Associated with SGLT-2 Inhibitors as an Add-On Therapy to Metformin in Patients with Type 2 Diabetes Mellitus

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Safety Evaluation of Panobinostat, Ixazomib, Elotuzumab, and Daratumumab Using FDA Adverse Event Reporting System (FAERS) Database 2015-2020

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Safety of Propofol use in Children and Adolescents: a Disproportionality Analysis of the Food and Drug Administration Adverse Event Reporting System (FAERS)

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Safety Review of Vemurafenib and Potential Risk of Hyperglycemia: A Systematic Review and Analysis of Individual Case Safety Reports in the WHO Global Database

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Signal Detection by Time-To-Onset Method in Conjunction with Disproportionality Analysis: A Study of Spontaneous Reports from Japan

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Teratogenicity Associated with Antibiotic Therapy: A Disproportionality Analysis in Spontaneous Reporting Database

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The Establishment of Regional Pharmacovigilance (PV) Centers in Saudi Arabia

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Tocilizumab Induced Adverse Events in COVID-19 Patients: Exploration of Reports Submitted to US FDA Adverse Event Reporting System (FAERS)

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Trajectories of Corticosteroid Dosing Pattern Among Patients with Systemic Lupus Erythematosus

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Trastuzumab Related Cardiotoxicity in Breast Cancer

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Zolpidem, Zopiclone and Zaleplon Induce Complex Sleep Behaviors

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Awareness of Pregnant Women about the Spontaneous Adverse Drug Reaction Reporting System in Bulgaria- A Pilot Study

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Drug Utilization Pattern of Antiepileptic Drugs in Pregnancy and the Outcome of Offspring in Asia Population

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Improving Accuracy for Prospective Pregnancy Registry Enrollment Targets

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Nucala Exposure in Women of Childbearing Age and in Pregnant Women in Us Claims Data, 2016-2019

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Pregnancy and Neonatal Outcomes Associated with Opioid Assisted Treatments and Unexposed Pregnancies

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Pregnancy in Women with Heart Failure: A Cross-Sectional Study in the Sentinel System

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Risk of Domperidone in Pregnant Women: A Study in the EFEMERIS Database

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Systematic Review of Prospective Pregnancy Studies in Europe: Scope for Improvement

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Temporal and Hospital-Level Variation in High-Dose Postpartum Opioid Prescribing after Cesarean Delivery

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Prenatal Exposure to Psychotropic Medications and the Risk of Seizure in Children: A Population-Based Cohort Study

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Drug-Drug Interactions in a Kidney Transplant Patient with COVID-19: A Case Report

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Global Symptom Improvement for Patients with Aromatic L-Amino Acid Decarboxylase Deficiency Using Individual Participant Data

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Knowledge and Awareness of the General Population and Healthcare Providers about Retinoblastoma: It is Time to Know the Glow

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Prevalence of Extramammary Paget's Disease in Urban China: A Population-Based Study

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Real-World Adherence of Nusinersen for the Treatment of Spinal Muscular Atrophy (SMA) Using US Electronic Health Records

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Urban Prevalence of Multiple Sclerosis in China: A Population-Based Study in Six Provinces

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S A F E T Y E N D P O I N T S

A Retrospective Database Study to Evaluate Incidence of Influenza and Influenza-like Illness (ILI) Among Rheumatoid Arthritis (RA) Patients Taking conventional Synthetic Disease Modifying Antirheumatic Drugs (csDMARD)

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Adverse Events in NSCLC Patients Treated with Docetaxel Monotherapy

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Association Between the Multiple Myeloma Treatments and Vascular Adverse Events in Taiwanese Multiple Myeloma Patients: A Population-Based Cohort Study

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Cohort Study Assessing Angioedema Risk in Black Heart Failure Patients Using Angiotensin-Converting Enzyme Inhibitors in the United States— Interim Results

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Comparison of the Incidence of Bleeding Between Anti-Influenza Drugs Among Outpatients for the Influenza Virus Infection: A Retrospective Study Using an Employment-Based Health Insurance Claims Database in Japan

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Conduction Disorders/Dysrhythmias and Hydroxychloroquine in Rheumatoid Arthritis

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Determinants of Intravenous Admixture Preparation Errors: A Prospective Observational Study

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Diagnostic Delay, Effectiveness and Safety Outcomes in a Real-World Cohort of Patients with Crohn's Disease: Data from Administrative Databases in Tuscany, Italy

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Incidence of Angioedema after Initiation of Angiotensin-Converting Enzyme Inhibitors in Adults with Heart Failure

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Independent and Synergistic Effects of Systemic Corticosteroid Use and Air Pollution on Thromboembolic Events: A Climate-Drug Interaction Study

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NSAIDs and Risk of Myocardial Infarction in Patients with No Major Risk Factors: A Nested Case-Control Study in the UK Clinical Practice Research Datalink

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Proton Pump Inhibitors and Risk of End Stage Renal Disease in Patients with Chronic Kidney Disease

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Retinal Toxicity in a Multinational Inception Cohort of Systemic Lupus Patients on Hydroxychloroquine

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Risk of Emergency Department Visits or Hospitalization for Cardiovascular Events in Patients with Medical Cannabis Authorization

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Risk of Intracranial Meningioma Requiring Surgical Intervention among Recent Hormonal Contraceptives Users

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Risk of Thyroid Cancer with the use of GLP-1 Receptor Agonists

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Safety and Effectiveness of Rivaroxaban in First-Time Users with Non-Valvular Atrial Fibrillation in Routine Practice

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Safety of Rivaroxaban in First-Time Users Treated for Deep Vein Thrombosis and Pulmonary Embolism

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Stroke Risk Associated with Incident Antidepressant Use: Delineated with Age

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Sulfonylureas and the Risk of Ventricular Arrhythmias Among Patients with Type 2 Diabetes: A Systematic Review of Observational Studies

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The Association Between Proton Pump Inhibitors and Increased Risk of Hyponatremia – A Cohort Study

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The Prevalence and Associated Risk Factors of Perfumes Sensitivity in Saudi Arabia

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The Use of Lag Times in Cancer Pharmacoepidemiology

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Adverse Events of the COVID-19 Vaccines Reported to the Vaccine Adverse Event Reporting System (VAERS), December 14, 2020 -January 22, 2021

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Comparison of Safety Profiles by Chronic Health Conditions in Korean Adults with Egg-Based Inactivated Quadrivalent Influenza Vaccines (QIV, GC3110A)

BongKyoo Choi | Hyunjeong Cho | Yunchul Shin
Eun-Kyoung Lee | Jae Woo Lee
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Detecting Signals for the Vaccine-Vaccine Interaction between Pneumococcal Vaccines and Influenza Vaccines using the Korea Adverse Event Reporting System (KAERS)

Hyunyoung Choi | HeHyun Won | Na-Young Jeong
Nam-Kyong Choi
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Differential Demographic and Clinical Characteristics between MMR Vaccinated and Unvaccinated Children in South Korea

Ju Hwan Kim | Dongwon Yoon | Ju-Young Shin
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Old Methods and New Data: A Near Real-Time Plan for Vaccine Surveillance and Signal Detection in the United States

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Nancy Dreyer | Matthew Reynolds
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Papillomavirus Vaccination and Guillain-Barre Syndrome Among Girls: A Population-Based Study in Spain

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Ana Llorente-García | Dolores Montero-Corominas
Elisa Martín-Merino
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Safety of COVID-19 Vaccine: Knowledge of Staff at a Medical College in Western Nepal

Sabita Paudel | Subish Palaian | Pathiyil Ravi Shankar
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Signal Detection of Zoster Vaccine Adverse Event in Elderly Using Korea Adverse Event Reporting System Database (KAERS)

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Hyunyoung Choi | Sun-Young Jung | Ju-Young Shin
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Test-Negative Designs Applied to COVID-19 Vaccine Effectiveness Assessment: Methodological Challenges

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The Patterns of Spontaneous Reports of Neurologic, Hematologic, and Immunologic Adverse Events Following Immunization in Korea

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Use and Performance of Brighton Collaboration Case Definitions in Low-Middle Income Settings

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Steve Black | Miriam Sturkenboom | Robert Chen
Taiwan

Yellow Fever Vaccine Usage in Three United States Healthcare Databases and Risk of Neurotropic Disease and Viscerotropic Disease in Vaccinees

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P O T P O U R R I

5-Alpha Reductase Inhibitors and the Risk of Anemia Among Men with Benign Prostatic Hyperplasia

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An Open Algorithm to Pre-Process Free Text Self-Reported Medications Data in UK Biobank

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Association Between DPP-4 Inhibitors and COVID-19 Related Outcomes Among Patients with Type 2 Diabetes

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Association Between Oral Anticoagulants and Risk of Dementia in Patients with Non-Valvular Atrial Fibrillation

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Association Between the use of Oral Anticoagulant and Risk of Adverse COVID-19 Outcomes: An OpenSAFELY Analysis

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Claims-Based Algorithm for Defining Asthma GINA Steps in US Healthcare Database

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Comparison of the Incidence of Acute Pancreatitis Among New Users of Fluoxetine, Citalopram, and other Selective Serotonin Reuptake Inhibitors: A Danish Register-Based Cohort Study

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Kathrine Pape | Kim Peder Dalhoff | Marie De Bruin
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Effectiveness and Safety of Direct Oral Anticoagulants vs Warfarin in Patients with Valvular Atrial Fibrillation: A Population-Based Cohort Study

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Ethnic Differences in COVID-19 Infection, Hospitalisation, and Mortality: An OpenSAFELY Analysis of 17 million Adults in England

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Evaluation of Machine-Learning Algorithms for Predicting Direct-Acting Antiviral Treatment Failure in Patients with Chronic Hepatitis C: An HCV-TARGET Analysis

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Generating Hypotheses About Never-Smoking Lung Cancer Risk Factors Using Large Primary Care Databases

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Impact of Multimorbidity Subgroups on the Health Care Use, Expenditures, and Clinical Outcomes Among Patients with Tuberculosis: A Population-Based Cohort Analysis

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Ceng Jiang | Yanfei Chen | Jifang Zhou
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Insights from a Review of Publicly Available Information on Post Authorisation Safety Studies (PASS)

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Sanowar Sayeed | Stella Blackburn | Jaclyn Bosco
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Medical Cannabis Authorization and Drugs and Other Substances Use Disorders: Longitudinal Cohort Study

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Multi-Depth, Iterative Causal Forest for Subgroup Identification

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Nondifferential Treatment Misclassification Biases Toward the Null? Not a Safe Bet

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Oral Bisphosphonate Exposure Among Denosumab Users in Ontario, Canada

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Patterns and Predictors of Stimulant Use During Pregnancy

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Predictors of Severe COVID-19 Outcome in Patients with Rheumatoid Arthritis

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Prescription Drug-Based Risk Scores: A Systematic Review

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Risk of Hospitalization and Death Associated with Pimavanserin use in Older Adults with Parkinson's Disease

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Safety of Generic Cyclosporine in Solid Organ Transplant Patients: A Systematic Review and Meta-Analysis

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Short-Term Incidence of Thrombotic Events in Patients who were Treated with Factor Xa Inhibitors and Hospitalized for Bleeding

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The Risk of Severe Acute Kidney Injury with use of Anti-Hypertensives in the Elderly: A Self-Controlled Case Series Analysis

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Use of high-dimensional Propensity Scores (hdPS) in a Japanese National Claims Database

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Use of Natural Language Processed Clinical Notes in an Electronic Health Record (EHR) to Characterize Adverse Events of Mood Disorders

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Use of Potential Nephrotoxic Medications Among Adults with CKD: Parallel Cohort Studies in US and Swedish Routine Care

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Use of Renin-Angiotensin-Aldosterone System Inhibitors and the Risk of Acute Pancreatitis

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Using Structural Topic Modelling to Reveal Patterns in Reports on Opioid Drugs in a Pharmacovigilance Database

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Utilization and Long-Term Persistence of Direct Oral Anticoagulants Among Patients with Non-Valvular Atrial Fibrillation and Liver Disease

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Utilization Pattern of Antipsychotics in Patients with Dementia

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Venous Thromboembolism in Patients with Chronic Inflammatory Skin Diseases

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