

ICPE 2022

**Advancing Pharmacoepidemiology
and Real-World Evidence for
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Karine Suissa
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Jenny Sun
Kristian Svendsen

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Masato Takeuchi
Yoshinori Takeuchi
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Eng Hooi (Cheryl) Tan
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Fatima Tauqeer
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Thuy Thai
Arulmani Thiyagarajan
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Reimar Thomsen
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Tanja Tran
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Grace (Hsin Min) Wang
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Junfeng Wang
Lu Wang
Xiaoxia Wang
Xin Wang
Yehua Wang
Yingying Wang
Youjin Wang
Shirley Wang, FISPE
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Yue Wei
Yu-Jung Jenny Wei
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Kazuki Yoshida
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Chengxuan Yu
Qiuyan Yu
Yuelin Yu
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Emma Xiaomeng Yue
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Eden Dagnachew Zeleke
Ousseny Zerbo
Salwa Zghebi
Le Zhang
Ling Zhang
Shumin Zhang
Xinyan Zhang
Zhenzhen Zhang
Meijia Zhou
Wei Zhou, FISPE
Yanmin Zhu
Lin Zhuo
Andrew Zullo

NEWCOMER TRACK REVIEWERS

Emily Brouwer, FISPE
Ian Douglas, FISPE
Sascha Dublin

Kristian Filion
Alicia Gilsenan, FISPE
Xavier Kurz

Edward Lai
John Logie
Daniel Mines

Lisa Pont, FISPE
Suzie Seabroke
Katja Taxis, FISPE

Congratulations to Our New Fellows



Edward Bortnichak



Emily Brouwer



J. Bradley Layton



Nicole Pratt



Donna Rivera



Leah Sansbury



Susan Sinclair



Jonathan Slaughter

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INDUCTION OF ISPE FELLOWS

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Emily Brouwer, FISPE

J. Bradley Layton, FISPE
Nicole Pratt, FISPE

Donna Rivera, FISPE
Leah Sansbury, FISPE

Susan Sinclair, FISPE
Jonathan Slaughter, FISPE

EMERGING LEADER AWARD

Kaley Hayes

SUSTAINED SERVICE AWARD

Alison Bourke, FISPE

Byung Joo Park, FISPE

SPECIAL AWARD FOR PUBLIC HEALTH PROMOTION THROUGH PHARMACOEPIDEMIOLOGY

Dame June Raine

JUDITH K. JONES AWARD FOR IMPACT ON PUBLIC HEALTH THROUGH PHARMACOEPIDEMIOLOGY

Luciane Lopes

Ilse Truter, FISPE

RONALD D. MANN BEST PAPER AWARDS FOR MANUSCRIPTS PUBLISHED IN PHARMACOEPIDEMIOLOGY AND DRUG SAFETY (PDS), 2021

PRESENTERS:

Brian Strom, FISPE; *Editor-in-Chief*

Vin Lo Re, FISPE; *Regional Editor for the Americas*

Hubert Leufkens, FISPE; *Regional Editor for Europe*

Byung Joo Park, FISPE; *Regional Editor for Asia-Pacific & ROW*

Amanda McLean-Inglis, *Associate Editorial Director, Health Sciences, Wiley*

WINNER

[Association Between Inhaled Corticosteroid Use and COVID-19 Outcomes](#)

Anders Husby | Anton Pottegård | Anders Hviid

HONORABLE MENTION

[Statins and Risk of Diverticular Disease: Nested Case-Control Study](#)

Nils Skajaa | Frederikke Schønfeldt Troelsen | Lars Pedersen
Ola Ekholm | Lisa Strate | Rune Erichsen | Henrik Toft Sørensen

SPECIAL ISPE AWARD FOR CONTRIBUTIONS TO PUBLIC HEALTH ASSOCIATED WITH THE COVID-19 PANDEMIC

A special award for 2022 to recognize how ISPE members have made and, in some cases, continue to make a demonstrable impact on public health related to the COVID-19 pandemic. From a strong field of candidates nominated by ISPE members, the following were selected by the Fellowship & Awards Committee and endorsed by the ISPE Board of Directors:

Robert Chen, FISPE

Daniel Horton

Daniel Prieto-Alhambra, FISPE

Reimar Thomsen

Nicolle Gatto, FISPE

Michele Jonsson Funk, FISPE

Almut Winterstein, FISPE

Carlos Grijalva

Vincent Lo Re, FISPE

Christopher Rentsch

ANDREW McAfee AWARD FOR BEST ABSTRACT FROM A DEVELOPING COUNTRY

Gouri Nair
Target Fishing and Drug Repurposing for
Pancreatic Ductal Adenocarcinoma: An Integrated
Bioinformatic and Computational Approach

JOHN SNOW AWARD FOR BEST ABSTRACT BY A RESEARCHER/STUDENT LIVING IN A DEVELOPING COUNTRY

Pudi Chiranjeevi
Association of Sacubitril/Valsartan with Hypoacusis Unveiled Through
Disproportionality Analysis in US FDA
Adverse Event Reporting System (FAERS)

STANLEY A. EDLAVITCH AWARD FOR MOST HIGHLY RATED STUDENT ABSTRACTS

FIRST PLACE

Junqing Xie
Genetic Risk and Incident Venous
Thromboembolism in Middle-
Aged and Older Adults Following
COVID-19 Vaccination

SECOND PLACE

Syed Mohsin Mahmood Shah
Association Between Very High
PD-L1 Expression Versus High
PD-L1 Expression in Patients
Receiving Pembrolizumab as First-
line Treatment for Advanced Non-
small Cell Lung Cancer

THIRD PLACE

Seonkyeong Yang
Trajectories of Concurrent Opioid
and Benzodiazepine Use and
Associated Opioid Overdose
Risk Among Arizona Medicaid
Beneficiaries

MOST HIGHLY RATED METHODS ABSTRACT SUBMITTED BY A STUDENT

Lars Christian Lund
Adjusting for Calendar Time in Analyses of
COVID-19 Vaccine Safety and Effectiveness:
A Simulation Study

MOST HIGHLY RATED ABSTRACT SUBMITTED BY A STUDENT IN THE DRUG UTILIZATION RESEARCH CATEGORY

Widya Norma Insani
Statin-Related Adverse Drug Reactions in UK Primary Care Consultations:
A Retrospective Cohort Study to Evaluate the Risk of Cardiovascular
Events and All-Cause Mortality



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Tap the event icon to launch your event's app.



Event Icon

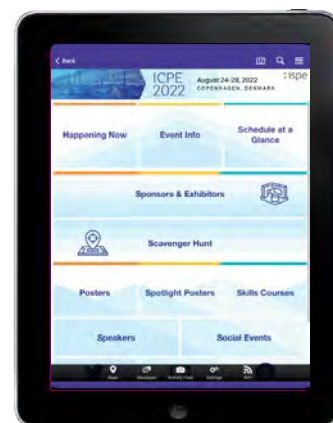
2. Login to the App

Tap **Login** and enter your **ISPE email address** and **password**.

3. App Tips

Download the app before you go! Wi-Fi connection on-site can affect the functionality of the app.

Browse the event information and create a personal schedule by tapping on the star next to presentations titles.



Schedule-at-a-Glance

TUESDAY, AUGUST 23

P. 24

7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM
							2 PM - 6 PM Speaker Ready Room – Room 21			4 PM - 6 PM Registration – Hall F6-F7 Lobby		

WEDNESDAY, AUGUST 24

P. 25

7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM
7:30 AM - 6 PM Speaker Ready Room – Meeting Room 21												
7:30 AM - 6 PM Registration – Hall F6 - F7 Lobby												
7:30 AM - 6 PM Lactation Room – Meeting Room 28												
	8:30 AM - 12:30 PM PRE-CONFERENCE COURSES Pharmacoepidemiologist's Toolbox for Professional Empowerment – Room C1M5 Principles of Pharmacoepidemiology – Room C1M0 Risk Minimization and Communication: Science-based Approaches and Case Studies for Designing and Evaluating Effective Interventions for the Safe Use of Medicinal Products – Room C1M2					12:30 PM - 2 PM Lunch on Your Own		2:00 PM - 6 PM PRE-CONFERENCE COURSES Adherence to Medication – Room C1M0 Foundations in Causal Inference – Room C1M4 Practical Skills in Protocol Writing and Statistical Analytic Programming Relevant to Pharmacoepidemiology – Congress Hall D2 Pragmatic Trials: Design, Methods, and Implementation – Room C1M2 Using Field Studies to Value-add in Pharmacoepidemiology – Meeting Room 20 Using Pharmacoepidemiology Database Resources to Address Drug Safety Research – Congress Hall D5 Introduction to Machine Learning for Pharmacoepidemiologists – Room C1M5				
						1 PM - 5 PM ISPE Board of Directors' Meeting Meeting Room 18 & 19						

Schedule-at-a-Glance

THURSDAY, AUGUST 25

P. 27

7 AM 8 AM 9 AM 10 AM 11 AM 12 PM 1 PM 2 PM 3 PM 4 PM 5 PM 6 PM 7 PM

7:30 AM - 6 PM Speaker Ready Room – Meeting Room 21

7:30 AM - 6 PM Registration – Hall F6 - F7 Lobby

7:30 AM - 6 PM Lactation Room – Meeting Room 28

8:30 AM - 12:30 PM
PRE-CONFERENCE COURSES

Intermediate/Advanced Topics in Vaccine Epidemiology – Room C1M2

Intermediate Pharmacoepidemiology: Approaches to Unmeasured Confounders
Room C1M5

Introduction to Drug Utilization Research and the Conduct of Real-World Drug Utilization Studies: Describe and Compare – Meeting Room 20

Modern Pregnancy Pharmacoepidemiology: Emulating Target Trials – Congress Hall D2

Pharmacovigilance and Signal Detection
Room C1M0

Propensity Scores in Pharmacoepidemiology – Congress Hall D5

New Frontiers for Pharmacoepidemiology: Using New and Mixed Methods for Data Collection
Room C1M4

12:30 PM - 2 PM
Lunch on Your Own

12:45 PM - 2 PM
New Member & Early Stage Investigator Lunch –
Room C1M5

By invitation only; registration required.

2:00 PM - 6 PM
PRE-CONFERENCE COURSES

Advanced Drug Utilization Research – Room C1M2

Advanced Pharmacoepidemiology Methods: Mitigating Missing Data Concerns with External or Internal Subset Validation Populations
Room C1M1

Applied Sensitivity Analyses in Pharmacoepidemiology Database Studies – Congress Hall D5

Medical Device Epidemiology – Meeting Room 20

Real-World Evidence (RWE) Generation for Rare Disease Drug Development and Orphan Drug Approvals – Room C1M4

Weighing the Benefits & Risks: The Science and Methods of Benefit-Risk Assessment in Drug Development – Room C1M0

6:00 PM - 7:30 PM
Welcome Reception
Hall E-South

Schedule-at-a-Glance

SATURDAY, AUGUST 27

P. 39

7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	
7 AM - 6 PM Speaker Ready Room - Room 21													
7 AM - 6 PM Registration - Hall F6 - F7 Lobby													
8 AM - 6 PM Lactation Room - Meeting Room 28													
8 AM - 6 PM Exhibits/Posters Session B - Hall C													
<p>7 - 8 AM Coffee with Exhibitors Hall C</p> <p>7 - 8 AM Africa Regional Interest Group Meeting Room 20</p> <p><i>Open to all participants.</i></p> <p>7 - 8 AM Latin America Regional Interest Group Meeting Room 18</p> <p><i>Open to all participants.</i></p> <p>7 - 8 AM Poster Session B Set-Up Hall C</p>	<p>8 - 9:30 AM ORAL PRESENTATIONS</p> <p>Across the Globe: Injury and Neurologic Pharmacoeconomics - C1M0</p> <p>Safety First! - C1M1</p> <p>Disease Epidemiology Potpourri - C1M2</p> <p>Methods for Generating RWE Through Emulation of Target Trials - C1M5</p> <p>Drug Utilization Potpourri - Congress Hall D2</p> <p>Opioids and Addiction - The Other Pandemic? - Congress Hall D5</p>		<p>10 - 11:30 AM PLENARY SESSION Congress Hall D4</p>	<p>11:30 AM - 1 PM Lunch/Poster Session B/Exhibits - Hall C</p> <p>11:30 AM - 1 PM COMMITTEE MEETINGS</p> <p>Finance Meeting Room 18</p> <p>Membership Meeting Room 19</p> <p><i>Open to all participants, lunch available</i></p> <p>11:45 AM - 12:45 PM Spotlight Poster Session B Hall E-South</p>			<p>1 - 2:30 PM ORAL PRESENTATIONS</p> <p>Psychotropic Use Around the World - C1M0</p> <p>Mending Hearts and Brains Conference Room C1M1</p> <p>Lightning Session 2 - C1M2</p> <p>Methods: Machines Making Predictions - Congress Hall D4</p> <p>Study Design Approaches to Assessing Thrombosis Risk - Congress Hall D2</p> <p>What's the Risk? Cancer Risk & Common Medications - Congress Hall D5</p>	<p>2:40 - 3:50 PM Annual Meeting of ISPE Members & Awards Ceremony Congress Hall D4</p>	<p>4:15 - 5:45 PM SYMPOSIA & WORKSHOPS</p> <p>Drug Safety on the Cutting Edge: What are the Implications of EMA's To-Be-Released Risk Minimisation Guidance on Pharmacoeconomic Methods and Practice in Developed and Developing Countries? - C1M0</p> <p>Real-World Evidence Studies in the post-COVID-19 Era: Methodological Considerations for Pandemic Related Disruptions - C1M1</p> <p>Late Breakers (Oral presentations) - C1M2</p> <p>HARmonized Protocol to Enhance Reproducibility (HARPER): An ISPE-ISPOR Joint Task Force of the RWE Initiative - C1M5</p> <p>Cloning, Censoring, and Weighting— Oh My! Applications of Target Trial Emulation for Evaluating Cancer Interventions When Study Eligibility, Intervention Initiation, and Start of Follow-up are Not Aligned - Congress Hall D2</p> <p>COVID-19 Vaccine Safety Monitoring: Opportunities, Challenges and Lessons Learned for Pharmacoeconomics - Congress Hall D5</p>	<p>6 - 7 PM COUNCIL MEETINGS</p> <p>Academic Conference Room - C1M0</p> <p>Student Conference Room - C1M1</p> <p><i>Open to all participants.</i></p>			
									7 PM	8 PM	9 PM	10 PM	11 PM
									7 - 11 PM Social Evening at the Langelinie Pavilion				

Schedule-at-a-Glance

SUNDAY, AUGUST 28

P. 49

7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM
7 AM - 3:30 PM Speaker Ready Room – Room 21												
7 AM - 4:30 PM Registration – Hall F6 - F7 Lobby												
7 AM - 4:30 PM Lactation Room – Meeting Room 28												
	8 AM - 4:30 PM Exhibits – Hall C											
	8 AM - 1:30 PM Posters Session C – Hall C											
7 - 8 AM Coffee with Exhibitors Hall C	8:30 - 10 AM ORAL PRESENTATIONS Around the World With Real-World Evidence – C1M0 SGLT2s and Cardiovascular Endpoints – C1M1 Welcoming Novel Methods in Pregnancy Research C1M2 Examining Equity: Who? Where and What? Congress Hall D2 Pandemic Prescription Patterns (Plus Pneumonia!) Congress Hall D4 Methods: Validation Congress Hall D5	10:30 AM - 12 PM SYMPOSIA & WORKSHOPS Emulation Differences versus Bias: Implications of Large-scale Emulation of Randomized Clinical Trials Using Clinical Practice Data (RCT-DUPLICATE) C1M0 COVID-19 Vaccine Use During Pregnancy: Accelerating Innovative Evidence Generation Platforms to Meet Current and Future Challenges C1M1 Shaping the Future of Pharmacoepidemiology – C1M5 What Do Real World Data Validation Best Practices Look Like? Operationalizing Guidance for Real-world Studies Intended for Decision-making Congress Hall D2 Updating the Public on COVID-19 Vaccine Safety – Considerations for Pharmacoepidemiologists Congress Hall D5	12 - 1:30 PM Lunch/ Poster Session C/ Exhibits – Hall C	1:30 - 3 PM ORAL PRESENTATIONS Safety Issues Concerning DM and Antidiabetic Drugs C1M0 Evaluating the Vaccines Against the Nasty Bugs: Safety First Round II C1M1 Lightning Session 3 C1M2 Novel Approaches to Pharmacovigilance C1M5 Fractures and Osteoporosis Medication Congress Hall D2 Use it or Lose Out: Trends in Anti-Cancer and Biologic Utilization Congress Hall D5	3:15 - 4:45 PM Hot Topic Session Congress Hall D4	4:45 - 5:30 PM The Final Word Congress Hall D4	5:45 - 6:45 PM 2023 Scientific Program Committee Meeting Room 20 <i>Open to ISPE members.</i>					
7 - 8 AM Poster Session C Set-Up Hall C			12 - 1:30 PM ISPE Board of Directors' Lunch – Meeting Room 19		12:15 - 1:15 PM Spotlight Poster Session C Hall E South							

Program Schedule

T U E S D A Y , A U G U S T 2 3

2:00 - 6:00 PM

SPEAKER READY ROOM / MEETING ROOM 21

Only required if you need to upload your presentation, or update/replace an already-uploaded presentation. Please complete uploads 24-hours in advance of your session.

LANYARD SELECTION

Please choose the color lanyard that best illustrates your comfort level with interactions at the conference.

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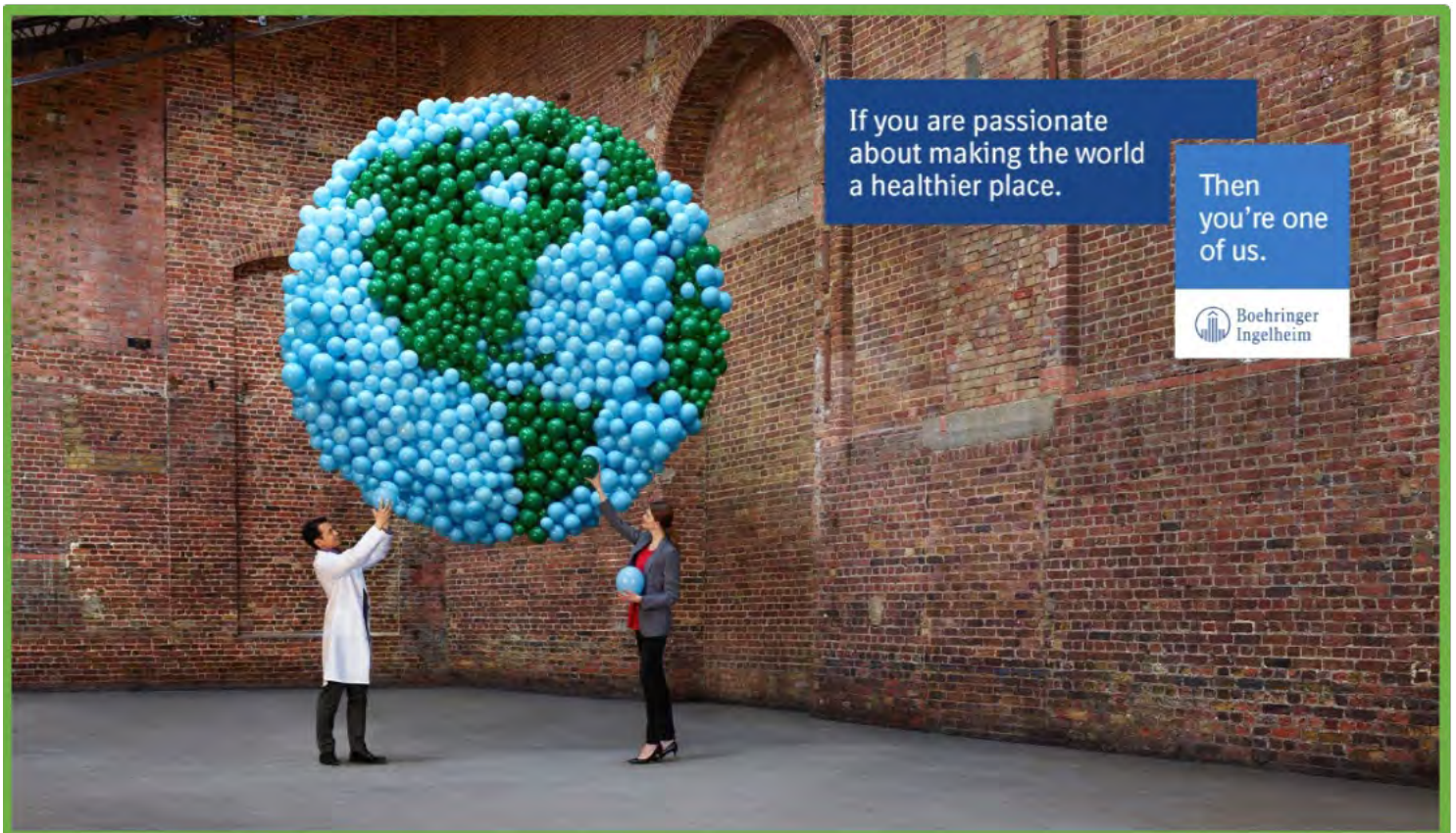
4:00 - 6:00 PM

REGISTRATION / HALL F6-F7 LOBBY

If you plan to attend a course on Wednesday morning, it is strongly recommended that you check-in Tuesday evening to avoid delays.

MASK WEARING MANDATE

Unless presenting, eating or drinking, mask wearing is required at all times during the conference and at all ISPE-flagged events (this also means social events) using Type IIR or FFP2 (or equivalent or better) grade masks. You might forfeit your conference registration if you are not in compliance. For your convenience, ISPE will provide free masks at the registration desk.



PRE-CONFERENCE Program Schedule

W
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D

W E D N E S D A Y , A U G U S T 2 4

7:30 AM - 6:00 PM

SPEAKER READY ROOM / MEETING ROOM 21

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7:30 AM - 6:00 PM

REGISTRATION / HALL F6-F7 LOBBY

7:30 AM - 6:00 PM

LACTATION ROOM / MEETING ROOM 28

Sponsored by EPI Excellence, LLC

7:30 AM - 6:00 PM

PRE-CONFERENCE COURSES - VIRTUAL COURSES

The following courses will be made available online shortly after the conclusion of ICPE.

Cancer Pharmacoeconomics and Genomics: What You Should Know in the Era of Precision Medicine

FACULTY

Bruce Carleton, FISPE | Andrew Freedman, FISPE
Gillian Bartlett-Esquillant, FISPE | Kelly Filipksi
Geoffrey Liu, FISPE | Donna Rivera, FISPE
Leah Sansbury, FISPE | Wei Zhou, FISPE

How to Design a Real-World Study of Biologics Including Biosimilars

FACULTY

Jaclyn Bosco, FISPE | Rohini Hernandez
Thijs Giezen | Gianluca Trifiro, FISPE

Introduction to Pharmacogenomics & Precision Medicine for Pharmacoeconomists

FACULTY

Amalia Issa, FISPE | Gillian Bartlett-Esquillant, FISPE
Bruce Carleton, FISPE | Stephen Kimmel, FISPE
Leah Sansbury, FISPE
Anke-Hilse Maitland-van der Zee, FISPE

Pediatric Pharmacoeconomics

FACULTY

Tamar Lasky, FISPE | Jenny Sun | Ann McMahon, FISPE
Rima Izem | Steven Bird | Mehmet Burcu | Daniel Horton

Regulatory Pharmacoeconomics

FACULTY

Danica Marinac-Dabic, FISPE | Gerald Dal Pan, FISPE
Katherine Donegan

8:30 AM - 12:30 PM

PRE-CONFERENCE COURSES - HALF-DAY MORNING COURSES

Pre-purchase required.

Pharmacoeconomist's Toolbox for Professional Empowerment - Room C1M5

FACULTY

Caitlin Knox | Juan Hincapie-Castillo
Mary Beth Ritchey, FISPE | Christopher Rentsch
Yola Moride, FISPE

Principles of Pharmacoeconomics - Room C1M0

FACULTY

Tobias Gerhard, FISPE | Almut Winterstein, FISPE
Anton Pottegård

Risk Minimization and Communication: Science-based Approaches and Case Studies for Designing and Evaluating Effective Interventions for the Safe Use of Medicinal Products - Room C1M2

FACULTY

Priya Bahri | Meredith Smith, FISPE | Peter Mol
Elaine Morrato

12:30 - 2:00 PM

LUNCH ON YOUR OWN

There are limited dining choices within walking distance of the Bella Center. Please plan to purchase food at one of the pop-up cafes provided for your convenience.

1:00 - 5:00 PM

ISPE BOARD OF DIRECTORS' MEETING - MEETING ROOM 18 & 19

Open to all ISPE members; please contact info@pharmacoepi.org if you are interested in attending this meeting.

Program Schedule

2:00 - 6:00 PM

PRE-CONFERENCE COURSES - HALF-DAY AFTERNOON COURSES

Prepurchase required.

Adherence to Medication – Conference Room C1M0

FACULTY

Jacqueline Hugtenburg | Robert Gross, FISPE
Julie Lauffenburger | Job Van Boven

Foundations in Causal Inference – Conference Room C1M4

FACULTY

Joshua Gagne, FISPE | Geetha Iyer

Introduction to Machine Learning for Pharmacoepidemiologists – Conference Room C1M5

FACULTY

Lisa Weiss | Dana Teltsch | Harriet Dickinson
Victoria Strauss | Orla Doyle | Kathryn Rough
Joseph Zabinski

Practical Skills in Protocol Writing and Statistical Analytic Programming Relevant to Pharmacoepidemiology – Congress Hall D2

FACULTY

Christian Hampp, FISPE | Jessica Jalbert
Mingfeng Zhang | Nicole PrattSoko | Setoguchi, FISPE

Pragmatic Trials: Design, Methods, and Implementation – Room C1M2

FACULTY

Jennifer Christian, FISPE | Priscilla Velentgas
Cynthia Girman, FISPE | Anne Trontell
Bodil Kjeldgaard Vistisen | Margaret Mazzeo

Using Field Studies to Value-add in Pharmacoepidemiology – Meeting Room 20

FACULTY

Katja Taxis, FISPE | Lisa Pont, FISPE | Veronika Wirtz
Anna Birna Almarsdottirarm

Using Pharmacoepidemiology Database Resources to Address Drug Safety Research – Congress Hall D5

FACULTY

Kevin Haynes, FISPE | Daniel Beachler | Gillian Hall, FISPE
Sudha Raman

PRE-CONFERENCE Program Schedule

T
H
U

T H U R S D A Y , A U G U S T 2 5

7:30 AM - 6:00 PM

SPEAKER READY ROOM / MEETING ROOM 21

Please arrive 24 hours before your presentation start time to upload or check your presentation.

7:30 AM - 6:00 PM

REGISTRATION / HALL F6-F7 LOBBY

7:30 AM - 6:00 PM

LACTATION ROOM / MEETING ROOM 28

Sponsored by EPI Excellence, LLC

8:30 AM - 12:30 PM

PRE-CONFERENCE COURSES - HALF-DAY MORNING COURSES

Prepurchase required.

Intermediate Pharmacoepidemiology: Approaches to Unmeasured Confounders – Conference Room C1M5

FACULTY

Michele Jonsson Funk, FISPE | Sudha Raman
Jennifer Lund, FISPE | Mugdha Gokhale | Jessica Young
Til Stürmer, FISPE

Introduction to Drug Utilization Research and the Conduct of Real-World Drug Utilization Studies: Describe and Compare – Meeting Room 20

FACULTY

Gillian Caughey | Mina Tadrous | Lisa Pont, FISPE
Jodie Hillen | Bjorn Wettermarkarm, FISPE

Modern Pregnancy Pharmacoepidemiology: Emulating Target Trials – Congress Hall D2

FACULTY

Andrea Margulis, FISPE | Krista Huybrechts, FISPE
Brian Bateman | Sonia Hernandez-Diaz, FISPE

New Frontiers for Pharmacoepidemiology: Using New and Mixed Methods for Data Collection – Congress Hall C1M4

FACULTY

Nancy Dreyer, FISPE | Christina Mack, FISPE
William Dixon | Nabarun Dasgupta | Rachel Williams

Pharmacovigilance and Signal Detection – Conference Room C1M0

FACULTY

Judith Maro | Niklas Noren | Gregory Powell
Monica Munoz

Propensity Scores in Pharmacoepidemiology – Congress Hall D5

FACULTY

John Seeger, FISPE | Jeremy Rassen, FISPE

Intermediate/Advanced Topics in Vaccine Epidemiology – Room C1M2

FACULTY

Cathy Panozzo | Jennifer Gerber | Hui-Lee Wong
Daina Esposito | Kaatje Bollaerts | Hector Izurieta
Deshayne Fell | Rebecca Chandler

12:30 - 2:00 PM

LUNCH ON YOUR OWN

There are limited dining choices within walking distance of the Bella Center. Please plan to purchase food at one of the pop-up cafes provided for your convenience.

12:45 - 2:00 PM

NEW MEMBER & EARLY-STAGE INVESTIGATOR LUNCH – ROOM C1M5

By invitation only; registration required.

2:00 - 6:00 PM

PRE-CONFERENCE COURSES: HALF-DAY AFTERNOON COURSES

Prepurchase required.

Advanced Drug Utilization Research – Conference Room C1M2

FACULTY

Gillian Caughey | Mina Tadrous | Katja Taxis, FISPE
Petra Denig, FISPE

Applied Sensitivity Analyses in Pharmacoepidemiology Database Studies – Congress Hall D5

FACULTY

Sebastian Schneeweiss, FISPE | Jeremy Rassen, FISPE
Nicolle Gatto | Elizabeth Garry

Program Schedule

Medical Device Epidemiology – Meeting Room 20

FACULTY

Mary Beth Ritchey, FISPE | Christina Mack, FISPE
Mackenzie Herzog | Paul Coplan, FISPE

Advanced Pharmacoepidemiology Methods: Mitigating Missing Data Concerns with External or Internal Subset Validation Populations – Conference Room C1M1

FACULTY

Judith Maro | Lourens Bloem | Jenny Sun
Corinne de Vries | Janick Weberpals

Real-World Evidence (RWE) Generation for Rare Disease Drug Development and Orphan Drug Approvals – Room C1M4

FACULTY

Emily Bratton | Rima Izem | Xabier Garcia de Albeniz | Jie Li

Weighing the Benefits & Risks: The Science and Methods of Benefit-Risk Assessment in Drug Development – Conference Room C1M0

FACULTY

Alicia Gilsenan, FISPE | Juhaeri Juhaeri
Christine Poulos | Bennett Levitan

6:00 - 7:30 PM

WELCOME RECEPTION / HALL E-SOUTH

Sponsored by IBM Watson Health

Vin Lo Re, FISPE, *ISPE President*

Anton Pottegård, Chair

ICPE 2022 Scientific Program Committee

Jesper Hallas, FISPE, Co-Chair

ICPE 2022 Scientific Program Committee

REGIONAL INTEREST GROUP & ACADEMIC SHOWCASE

Brigham and Women's Hospital Division of Pharmacoepidemiology & Pharmacoeconomics

London School of Health and Tropical Medicine

McGill University, *Department of Epidemiology, Biostatistics, and Occupational Health*

University of Florida, College of Pharmacy
Department of Pharmaceutical Outcomes and Policy

University of North Carolina at Chapel Hill

Most diseases aren't siloed or stagnant. So why should your research be?

Specialized Datasets

for a fuller view of patient journeys, outcomes, and endpoints

AI & Predictive Analytics

for enriching data, finding patients, and discovering patterns and insights



Research Analytics

to identify hidden insights by using our epi, biostats, data science, and clinical data expertise as an extension of your teams

Automated Research Networks

for increasing speed and reducing costs of generating evidence through fully or partially prospective data collection

Visit the OM1 booth #201 or contact us at info@om1.com to learn more.



MAIN CONFERENCE

Program Schedule

F R I

F R I D A Y , A U G U S T 2 6

7:00 AM - 6:00 PM

SPEAKER READY ROOM / MEETING ROOM 21

Only required if you need to upload your presentation, or update/replace an already-uploaded presentation. Please complete uploads 24-hours in advance of your session.

7:00 AM - 6:00 PM

REGISTRATION / HALL F6-F7 LOBBY

7:30 AM - 6:00 PM

LACTATION ROOM / MEETING ROOM 28

Sponsored by EPI Excellence, LLC

7:00 - 8:00 AM

COFFEE WITH EXHIBITORS / HALL C

7:00 - 8:00 AM

Poster Session A set-up – *Hall C*

Spotlight Poster Session set-up – *Hall E South*

8:00 AM - 6:00 PM

EXHIBITS/POSTER SESSION A – HALL C

8:00 - 8:30 AM

WELCOME / CONGRESS HALL D4

Vin Lo Re, FISPE, *ISPE President*

Anton Pottegård, *Chair*

ICPE 2022 Scientific Program Committee

Jesper Hallas, FISPE, *Co-Chair*

ICPE 2022 Scientific Program Committee

8:30 - 10:00 AM

KEYNOTE PLENARY

Strategies for Successful Mass Vaccination Rollout: Balancing Science, Politics, Communication and Trust – *Congress Hall D4*

KEYNOTE SPEAKER

Søren Brostrøm, MD, PhD, MPA

Director General, Danish Health Authority

Dr. Søren Brostrøm, Director General of the Danish Health Authority, will discuss strategies for successful mass vaccination rollout primarily from the Danish experience, but also drawing on international perspectives. The focus will be on the importance, from his experience during the pandemic, of 'evidence-based government' and 'radical transparency' and how not everything can be simplified to just 'communication' but is instead about having a good case to communicate, i.e., that science is more important than communication skills.

10:00 - 10:30 AM

BREAK WITH POSTERS & EXHIBITORS – HALL C

MAIN CONFERENCE

Program Schedule

10:30 AM - 12:00 PM

CONCURRENT SESSIONS:

SYMPOSIA & WORKSHOPS

Using Real-World Data and Pharmacoepidemiologic Methods to Advance the Science of Deprescribing Research [26] – C1M5

Shahar Shmuel | Daniela Moga | Joshua Niznik
Julie Lauffenburger | Lucas Morin | Danijela Gnjidic
Xiaojuan Li | Kaley Hayes (United States)

Post-authorization Regulatory Strategies to Evaluate Drug Safety in Pregnancy: How to Optimize the Design of Registries & Database Studies [27] – Congress Hall D5

Sonia Hernandez-Diaz FISPE | Leyla Sahin
Christina Chambers | Andrea Margulis FISPE
Krista Huybrechts FISPE | Corinne de Vries (United States)

Representing and Leveraging Heterogeneity Between Data Sources in Multi-database Pharmacoepidemiologic Studies [28] – C1M0

Rosa Gini | Romin Pajouheshnia | Gillian Hall FISPE
Robert Platt | Soko Setoguchi FISPE
Susana Perez-Gutthann FISPE | Corinne Willame (Italy)

Data Harmonization, Standardization, and Quality Assessment in Distributed Health Data Networks: Lessons from Around the World [29] – Congress Hall D2

Jeffrey Brown | Lisa Lix | Judith Maro | Matvey Palchuk
Robert Reynolds | Xavier Kurz (United States)

Methodological Challenges in Assessing the Impact of Digital Technologies on Patient Adherence [30] – C1M1

Bjorn Wettermark, FISPE | Cristina Ghiciuc | Job Van Boven
Monique Elseviers | Gaye Hafez | Catherine Goetzinger
Maria Herdeiro | Enrica Menditto
Francisca Leiva-Fernandez | Maria Dimitrova
Zorana Kovačević | Virginia Aguiar Leiva (Sweden)

12:00 - 1:30 PM

LUNCH/POSTER SESSION A/EXHIBITS – HALL C

Sponsored by AstraZeneca

12:00 - 1:30 PM

ISPE COMMITTEE MEETINGS

Open to all attendees; lunch available.

Education – Meeting Room 20

Public Policy – Meeting Room 18

Global Development – Meeting Room 19

12:15 - 1:15 PM

SPOTLIGHT POSTER SESSION A – HALL E SOUTH

Adherence

ASPEN

Biologics

BRACE

Cancer

Comparative Effectiveness Research

1:30 - 3:00 PM

CONCURRENT SESSIONS:

ORAL PRESENTATIONS

A Tivoli Gardens Distillery of Applied Methods – Room C1M5

1:30 PM

Inverse Probability Weighting or Multiple Imputation for Nonmonotone Missing Data? [31]

Rachael Ross | Stephen Cole | Daniel Westreich
Julie Daniels | Jeffrey Stringer | Jessie Edwards
(United States)

1:45 PM

Sampling Biases in Analyses of Prescription Durations [32]

Henrik Stovring | Anton Pottegård
Jesper Hallas FISPE (Denmark)

2:00 PM

The Impact Of Parametric Assumptions on the Bias-variance Tradeoff for Causal Analysis of Time-to-event Outcomes [33]

Andrew Allmon | Samantha Eiffert
Alexander Breskin (United States)

MAIN CONFERENCE

Program Schedule

F R I

2:15 PM

Successful Implementation of Inverse-probability-of-screening Weights to Address Differential Outcome Screening: Effects of Statin Persistence on Breast Cancer Risk in Denmark [34]

Sophie Mayer | Jesper Hallas FISPE | Jessie Edwards
Louise Henderson | Til Stürmer FISPE (United States)

2:30 PM

Analytic Methods for Elucidating Continuous Dose-response Associations in the Presence of Spike-effects: Avoiding the Illusion of a Safe Dose [35]

Andrew Wiese | Carlos Grijalva | Margaret Adgent
Sarah Osmundson | Amelie Pham | Sharon Phillips
Ed Mitchel | Andrew Spieker (United States)

2:45 PM

Antidepressant Drug-Drug-Drug Interactions and Unintentional Traumatic Injury: Pharmacoepidemiologic Screening to Detect Three-way Drug Interaction Signals [36]

Charles Leonard, FISPE | Cheng Chen | Sean Hennessy
Colleen Brensinger | Emily Acton | Warren Bilker
Todd Miano | Thanh Phuong Pham Nguyen (United States)

Antidiabetics – Not Just About Diabetes – Congress Hall D2

1:30 PM

Incretin-based Drugs and the Prevention of Chronic Obstructive Pulmonary Disease Exacerbations Among Patients with Type 2 Diabetes [37]

Richeek Pradhan | Sally Lu | Hui Yin | Oriana Hoi Yun Yu
Pierre Ernst | Samy Suissa | Laurent Azoulay (Canada)

1:45 PM

Association Between Sodium Glucose Co-transporter 2 Inhibitors and Incident Glaucoma in Patients with Type 2 Diabetes: A Multi-institutional Cohort Study in Taiwan [38]

Shih-Chieh Shao | Edward Lai | Jia-Horung Hung (Taiwan)

2:00 PM

Heterogeneous Treatment Effect of Glucagon-like Peptide 1 Receptor Agonists on Asthma/COPD exacerbation: Machine-learning Analysis of Two Nationwide Cohorts [39]

Tiansheng Wang | John Buse | Corinne Keet
Alexander Keil | Richard Wyss | Virginia Pate
Michele Jonsson Funk, FISPE | Michael Kosorok (United States)

2:15 PM

Risk of Hepatic Events Associated with Sodium-glucose cotransporter-2 Inhibitors in Patients with Type 2 Diabetes: A Nationwide Cohort Study [40]

Sungho Bea | Han Eol Jeong | Sohee Park | Yoosoo Chang
Dong Hyun Sinn | Oriana Hoi Yun Yu | Ju-Young Shin
(Republic of Korea)

2:30 PM

Incretin-based Drugs and the Incidence of Prostate Cancer Among Patients with Type 2 Diabetes [41]

Sally Lu | Hui Yin | Oriana Hoi Yun Yu
Laurent Azoulay (Canada)

2:45 PM

Association of Glucagon-like peptide-1 Receptor Agonists with Serious Liver Events: Scandinavian Cohort Study [42]

Arvid Engström | Victor Wintzell | Mads Melbye
Henrik Svanström | Björn Eliasson | Soffia Gudbjörnsdottir
Kristian Hveem | Christian Jonasson (Sweden)

From Motherhood to Childhood, Moody to Healthy – Congress Hall D5

1:30 PM

Use of Selective Serotonin Reuptake Inhibitors During Pregnancy and the Risk of Preterm Birth [43]

Guy Amit | Alice Tang | Chen Yanover | Maytal Bivas-Benita
Pinchas Akiva | Irena Girshovitz | Brian Le
Tomiko Oskotsky (Israel)

1:45 PM

Lisdexamfetamine in Early Pregnancy and Risk of Major Congenital Malformations [44]

Jacqueline Cohen | Carolyn Cesta | Øystein Karlstad
Johan Reutfors | Kari Furu (Norway)

2:00 PM

Psychostimulant Use During Pregnancy and the Risk of Neurodevelopmental Disorders in Children [45]

Elizabeth Suarez | Brian Bateman
Sonia Hernandez-Diaz FISPE | Loreen Straub | Yanmin Zhu
Helen Mogun | Krista Huybrechts FISPE (United States)

2:15 PM

Antidepressant Treatment in Pregnancy and Maternal Mental Health in the Postpartum Year: A Danish Registry Linkage Study in Pregnant Women with Obsessive-compulsive Disorder [46]

Nhung Trinh | Birgitte Dige Semark | Trine Munk-Olsen
Xiaoqin Liu | Liselotte Vogdrup Petersen
Angela Lupattelli (Norway)

MAIN CONFERENCE

Program Schedule

2:30 PM

Topiramate During Pregnancy and the Risk of Neurodevelopmental Disorders in Children [47]

Sonia Hernandez-Diaz FISPE | Loreen Straub
Brian Bateman | Elizabeth Suarez | Yanmin Zhu
Helen Mogun | Page Pennell | Krista Huybrechts, FISPE
(United States)

2:45 PM

Association of Prenatal Antidepressant Exposure with Trajectories and Acceleration of Body Mass Index in Children from 6 Week to 8 Years of Age [48]

Angela Lupattelli | Michele Pedroncelli | Sina Rostami
Nhung Trinh (Norway)

Challenges in Healthy Aging – C1M0

1:30 PM

Serious Hypoglycemia and the Risk of Dementia: A Population-based Cohort Study Using Exposure Density Sampling [49]

Wajid Alkabbani | Colleen Maxwell | Ruth Ann Marrie
Suzanne Tyas | Iliana Lega | John-Michael Gamble (Canada)

1:45 PM

Evaluation of Fall-related Injuries Following a Potential Calcium Channel Blocker — Loop Diuretic Prescribing Cascade [50]

Scott Vouri | Grace (Hsin Min) Wang | Earl Morris
Laurence Solberg | Michael Daniels | Carl Pepine
Todd Manini | Daniel Malone (United States)

2:00 PM

Translation of a Medicare Claims-based Frailty Index from International Classification of Diseases 9th Revision to 10th Revision [51]

Emilie Duchesneau | Shahar Shmuel | Keturah Faurot
Jihye Park | Musty Allison | Virginia Pate | Alan Kinlaw
Til Stürmer FISPE (United States)

2:15 PM

Tobacco Smoking, Intensity, and Duration are Associated with Frailty Among People with HIV [52]

Stephanie Ruderman | Heidi Crane | Allison Webel
Annette Fitzpatrick | Michelle Odden | Paul Crane
Amanda Willig | Robin Nance (United States)

2:30 PM

Impact of Different Poststroke Antihypertensive Regimens on Cardiovascular Outcomes and Mortality in People with Dementia: Four Continents for Dementia (4C4D) Study [53]

Jenni Ilomaki | Xiwen Simon Qin | Celine SL Chui
Gang Fang | Wallis Lau | Stephen J. Wood | Stella Kim
Miriam TY Leung (Australia)

2:45 PM

Frailty-gradient Risk of Mortality Comparing Primary Endocrine Therapy and Surgery in Treating Women with Early Breast Cancer [54]

Yubo Wang | Douglas Steinke, FISPE | Sean Gavan
Li-Chia Chen (United Kingdom)

Moving from Trials to Real-World Evidence, Back and Forth – Congress Hall D4

1:30 PM

Using Bias Correction Methods with Hybrid Randomized Controlled Trial (RCT) Plus Real World (RW) Controls to Replicate Results of a Phase I/II RCT of Baricitinib for Rheumatoid Arthritis (RA) [55]

Anita Loughlin | Kristin Sheffield | Oksana Pugach
Mingyang Shan | Douglas Faries | Paul Lakin
Samantha Kerti | Zhanglin Cui (United States)

1:45 PM

Better Analysis of RCTs [56]

Tim Feeney | Stephen Cole (United States)

2:00 PM

Risk Ratios versus Hazard Ratios in Comparative Effectiveness Research: An Illustration Using Clinical Trial Data [57]

Chase Latour | I-Hsuan Su | Megan Delgado | Virginia Pate
Charles Poole | Jessie Edwards | Til Stürmer, FISPE
Jennifer Lund, FISPE (United States)

2:15 PM

Differential Misclassification of Overdose Safety in a Prominent Comparative Effectiveness RCT Comparing Buprenorphine and Naltrexone for Opioid Dependence [58]

Nabarun Dasgupta | Elizabeth Ajazi | Todd Schwartz
Stephen Marshall (United States)

MAIN CONFERENCE

Program Schedule

F R I

2:30 PM

Predicting Treatment Effects of a New Drug in a Target Population Based on Randomized Controlled Trial Results [59]

HoJin Shin | Shirley Wang, FISPE | Dae Kim
Mufaddal Mahesri | Lily Bessette | Joshua Gagne, FISPE
Sebastian Schneeweiss, FISPE | Mehdi Najafzadeh
(United States)

2:45 PM

How Choosing the Risk Ratio or the Risk Difference Changes Sufficient Adjustment Sets for External Validity [60]

Michael Webster-Clark | Alexander Keil (Canada)

Medicating for Two: Pregnancy, Maternal, and Infant Outcomes – C1M2

1:30 PM

Does Treating Genital Herpes Infection During Pregnancy Reduce the Risk of Preterm Delivery? A Prospective Cohort Study of 89,000 Pregnant Women [61]

DeKun Li | Jeannette Ferber | Roxana Odouli
Piero Garzaro | Lyndsay Avalos | Charles Quesenberry
(United States)

1:45 PM

Prenatal Antibiotic Exposure and Subsequent Infections in Infancy: A Register-based Cohort Study in Sweden with Sibling Analysis [62]

Aya Nakitanda | Helle Kieler | Ingvild Odsbu | Samuel Rhedin
Catarina Almqvist | Björn Pasternak | Laura Pazzagli (Sweden)

2:00 PM

Evaluating the Safety of Antiemetic Combination Use on Pregnancy Loss [63]

Thuy Thai | Joshua Brown | Stephan Schmidt
Judith Maro | Sonja Rasmussen | Almut Winterstein, FISPE
(United States)

2:15 PM

COVID-19 Vaccines During Pregnancy and Birth Defects: Preliminary Data from V-Safe COVID-19 Vaccine Pregnancy Registry, United States 2021 [64]

Jennita Reefhuis | Lauren Zauche | Sabrina Madni
Janet Cragan | Cynthia Moore | Regina Simeone
John Nahabedian | Emily Petersen (United States)

2:30 PM

Initiation of Atenolol versus Methyldopa During Pregnancy and the Risk of Intrauterine Growth Restriction/small for Gestational Age [65]

Brian Bateman | Yanmin Zhu | Krista Huybrechts, FISPE
Sonia Hernandez-Diaz, FISPE | Lockwood Taylor
Rita Ouellet-Hellstrom | Yong Ma
Yandong Qiang (United States)

2:45 PM

Characteristics and Medication Use Patterns of Pregnancies with COVID-19 in the Sentinel System [66]

Mayura Shinde | Jennifer Lyons | Susan Andrade
Austin Cosgrove | Jolene Damon
Elizabeth Messenger-Jones | Danijela Stojanovic
Ben Wong (United States)

3:00 - 3:30 PM

BREAK/POSTERS/EXHIBITS – HALL C

3:30 - 5:00 PM

**CONCURRENT SESSIONS:
SYMPOSIA & WORKSHOPS**

Considerations of Misclassification and Confounding on COVID-19 Vaccines Effectiveness Studies – A Vaccine SIG Endorsed Symposium [67] – Congress Hall D2

John Seeger, FISPE | Michele Jonsson Funk, FISPE
J. Bradley Layton, FISPE | Tainya Clarke (United States)

Advanced Methods for Covariate Balancing: Going Beyond Propensity Score Matching and Weighting Using Optimization Techniques [68] – Room C1M0

Stephen Johnston | Pranjal Tewari | Paul Coplan, FISPE
(United States)

Methods and Considerations for Hypothesis-free Signal Detection Studies Accommodating Various Types of Medications, Populations, and Regions [69] – Room C1M1

Miyuki Hsing-Chun Hsieh | Edward Lai | Andrew Bate
Nicole Pratt | Nam-Kyong Choi | Judith Maro
Lars Christian Lund | Sengwee Toh (Taiwan)

MAIN CONFERENCE

Program Schedule

Meeting the Need for Research on Drug Safety During Lactation: An Overview of Approaches [70] – Congress Hall D5
 Kristin Palmsten | Bandoli Gretchen | Christina Chambers
 Hedvig Nordeng, FISPE | Shinya Ito | Marie Teil
 Lynne Yao (*United States*)

It Takes a Village: Strategic Global Collaborations to Advance RWE within ISPE [71] – C1M5
 Helga Gardarsdottir, FISPE | Shirley Wang, FISPE
 Susana Perez-Gutthann, FISPE | Carla Rodriguez-Watson
 Olaf Klungel, FISPE | Donna Rivera, FISPE (*Netherlands*)

5:00 - 5:15 PM

BREAK

5:15 - 6:45 PM

CONCURRENT SESSIONS:
ORAL PRESENTATIONS

Methods – Comparators, Controls, and Unmeasured Confounding – Room C1M5

5:15 PM
Using Active Comparators in Self-controlled Case Series: An Application to Two Studies in the Clinical Practice Research Datalink [72]
 Anna Schultze | Jeremy Brown | John Logie
 Marianne Cunnington | Stephen Evans | Ian Douglas
 Nicholas Galwey (*United Kingdom*)

5:30 PM
Negative Control Outcomes to Assess the Comparability of Biologics versus Small-molecule Therapeutics for Osteoporosis: Considerations for Differential Non-adherence [73]
 Lydia Feinstein | Alexander Breskin | Peter S. Samai
 M. Alan Brookhart (*United States*)

5:45 PM
Evaluation of Methods for Unmeasured Confounding Control in Pharmacoepidemiology Using Healthcare Databases: An Empirical Study Concerning Drugs Inducing Prematurity [74]
 Chi Hong Duong | Romain Demailly | Sylvie Escolano
 Anne Thiébaud | Pascale Tubert-Bitter | Ismaïl Ahmed
 (*France*)

6:00 PM
Alternative Analytic and Matching Approaches for the Prevalent New-user Design: A Simulation Study [75]
 Michael Webster-Clark | Panagiotis Mavros | Elizabeth Garry
 Til Stürmer | Shahar Shmuel | Jessica Young
 Cynthia Girman, FISPE (*Canada*)

6:15 PM
Proton Pump Inhibitors and Myocardial Infarction: An Application of Active Comparators in a Self-controlled Case Series [76]
 Angel Wong | Celine SL Chui | Ka Shing Cheung
 Jeremy Brown | Ian Douglas | Ian Wong | Esther W. Chan
 (*United Kingdom*)

6:30 PM
Advantages of Splitting Switchers and New Users in the Prevalent New User Design [77]
 Jessica Young | Michael Webster-Clark | Panagiotis Mavros
 Til Stürmer, FISPE | Elizabeth Garry | Shahar Shmuel
 Cynthia Girman, FISPE (*United States*)

Pharmacoepidemiologic Methods and SARS-CoV-2 – Congress Hall D4

5:15 PM
Influence of Incomplete Death Information on Cumulative Risk Estimates in United States Claims Data [78]
 Julie Barberio | Timothy Lash | Ashley Miami
 Rachel Patzer | Christopher Kim | M. Alan Brookhart
 David Gilbertson | Brian Bradbury (*United States*)

5:30 PM
Estimating Real-World Outcomes Under a Rapidly Evolving Treatment Paradigm: Dexamethasone and Inpatient Mortality Among US Hospitalized COVID-19 Patients [79]
 Elizabeth Garry | Imaani Easthausen | Sarah Vititoe
 Andrew Weckstein | Aloka Chakravarty | Tamar Lasky
 Marie Bradley | Silvia Perez-Vilar (*United States*)

5:45 PM
Adjusting for Calendar Time in Analyses of COVID-19 Vaccine Safety and Effectiveness: A Simulation Study [80]
 Lars Christian Lund | Jesper Hallas, FISPE | Henrik Stovring
 (*Denmark*)

MAIN CONFERENCE

Program Schedule

F R I

6:00 PM

Evaluating the Comparative Effectiveness and Safety of Repurposed Drugs for COVID-19 [81]
Eng Hooi (Cheryl) Tan | Dalia Dawoud | Faaizah Arshad
Jennifer Lane | James Weaver | Talita Duarte-Salles
Scott DuVall | Thomas Falconer (United Kingdom)

6:15 PM

Adjusting for Data Observation Delay in near Real-time Safety Surveillance of COVID-19 Vaccines Using Administrative Claims Databases [82]
Yoganand Chillarige | Mao Hu | Yuhui Feng | Xiangyu Shi
Cindy Zhou | Hui-Lee Wong | Yixin Jiao | Patricia Lloyd
(United States)

6:30 PM

Near Real Time Safety Surveillance of COVID-19 Vaccines in the UK [83]
Katherine Donegan | Jemma Walker | Nick Andrews
(United Kingdom)

Drug Utilization Studies in Cardiovascular Disease and Diabetes – Congress Hall D5

5:15 PM

UK Trends in Prescribing Preferences for Antidiabetic Medications Among Type 2 Diabetes Patients with and without Chronic Kidney Disease, 2006-2020 [84]
Julia Liaw | Meera Harhay | Soko Setoguchi, FISPE
Tobias Gerhard, FISPE | Chintan Dave (United States)

5:30 PM

Contemporary Trends in the Utilization of Second-line Pharmacological Therapies for Type 2 Diabetes in the United States [85]
Devin Abrahami | Elvira D'Andrea | Seoyoung Kim
Julie Paik | Deborah Wexler | Elisabetta Patorno
(United States)

5:45 PM

Sex Disparities in Treatment Patterns After Metformin Initiation Among Patients with Type 2 Diabetes Mellitus [86]
Monika Oktora | Stijn De Vos | Sieta de Vries | Eelko Hak
Petra Denig, FISPE (Netherlands)

6:00 PM

Continued Potassium Supplementation Use Following Loop Diuretic Discontinuation in Older Adults: An Evaluation of a "Prescribing Cascade Relic" [87]
Grace (Hsin Min) Wang | Steven Smith | Earl Morris
Scott Vouri (United States)

6:15 PM

Trends and Prescription Patterns of Medications for Secondary Stroke Prevention in Denmark, 2013-2018 [88]
Nils Skajaa | Devin Abrahami | Kasper Adelborg
Henrik Toft Sørensen | Julie Lauffenburger | Elvira D'Andrea
Lee Schwamm | Elisabetta Patorno (Denmark)

6:30 PM

The Potential Impact of the Supplemental Nutrition Assistance Program (SNAP) on Adherence to Antihypertensive Medications [89]
Macarius Donneyong (United States)

Pediatric Medicine Use: Safe Kids in an Uncertain Landscape – Room C1M0

5:15 PM

Trends in High-risk Prescribing to US Pediatric Dental Patients, 2012-2019 [90]
Katherine Kim | Tumader Khouja | Charlesnika Evans
Gregory Calip | Jacqueline Burgette | Walid Gellad
Katie Suda (United States)

5:30 PM

Identifying Acute Neuropsychiatric Events in Children and Adolescents [91]
James Antoon | James Feinstein | Carlos Grijalva
Yuwei Zhu | Emily Dickenson | Justine Stassun
Jakobi Johnson | Mert Sekmen (United States)

5:45 PM

Comprehensive Assessment of Paediatric SARS-CoV-2 Infection: A Danish Population-based Cohort Study [92]
Helene Kildegaard | Lars Christian Lund | Mikkel Hoejlund
Lone Graff Stensballe | Anton Pottegård (Denmark)

MAIN CONFERENCE

Program Schedule

6:00 PM

Inappropriate Antibiotic Prescriptions and the Risk of Adverse Drug Events Among Children Treated for Common Infections [93]

Anne Butler | Derek Brown | Michael Durkin
John Sahrman | Katelin Nickel | Caroline O'Neil
Margaret Olsen | David Hyun (*United States*)

6:15 PM

KiDSafe – Improving Medication Safety for Children and Adolescents: Implementation and Evaluation of a New Form of Care [94]

Irmgard Toni | Jochem König | Dorothée Malonga Makosi
Michael S. Urschitz | Wolfgang Rascher | Antje Neubert
(*Germany*)

6:30 PM

Comparative Safety of Tozinameran in Children versus Adolescents: An Analysis of First Pharmacovigilance Data [95]

Francois Montastruc | Clément Karsenty
Durrieu Geneviève | Clara Flumian | Laurent Chouchana
Camille Brehin (*France*)

Smörgåsbord – Room C1M1

5:15 PM

Association Between Children Prescription Drug Costs for New Medications and Their Parent's Adherence to Chronic Medication [96]

Julie Lauffenburger | Renee Barlev | Niteesh Choudhry
(*United States*)

5:30 PM

The Impact of Using Pictorial Aids in Caregivers' Understanding of Patient Information Leaflets of Pediatric Pain Medications: A Quasi-experimental Study [97]

Aljoharah Algabbani | Khalid Alzahrani | Sarah Sayed
Meshael Alrasheed | Deema Sorani | Omar Almohammed
Amani Alqahtani (*Saudi Arabia*)

5:45 PM

Does Left Atrial Dilation Predict Atrial Fibrillation Severity and Post-ablation Outcomes Among Individuals with Atrial Fibrillation? [98]

Paul Coplan, FISPE | Amit Doshi | Liat Tsoref
Yariv Avraham Amos | Mati Amit | Charlene Wong
Guy Cafri | Rahul Khanna (*United States*)

6:00 PM

Patient Groups in Rheumatoid Arthritis Identified by Deep Learning Respond Differently to Biologic or Targeted Synthetic Disease Modifying Antirheumatic Drugs [99]

Theresa Burkard | Maria Kalweit | Andrea Burden
Thomas Hügler (*Switzerland*)

6:15 PM

Anticoagulant Therapy and Risk of Kidney Disease – A Nationwide Cohort Study [100]

Ane Emilie Friis Vestergaard | Christian Christiansen
Simon Jensen | Kasper Adelborg | Henrik Birn
Uffe Heide-Jørgensen (*Denmark*)

6:30 PM

Costs Associated with Healthcare Resources Utilization Among Empagliflozin vs GLP-1RA Initiators in Routine Clinical Care in Denmark [101]

Reimar Thomsen | Lotte Brix Christensen | Johnny Kahlert
Jakob Knudsen | Anastasia Ustyugova
Susanne Sandgaard | Pia Holmgaard | Lars Ehlers (*Denmark*)

5:15 - 6:45 PM

LIGHTNING FORUM SESSION 1 – ROOM C1M2

Cancer

5:15 PM

Risk of Myasthenia Gravis with Tyrosine Kinase Inhibitors: A Disproportionality Analysis from Vigibase and AERS Databases [102]

Luis Velez-Nandayapa | Amit Saxena | Miguel Izquierdo
Maria Nicolaidis | Pierre de Zeeuw | Alicia Rossiter
Johannes Eisinger | Christiane Michel (*Switzerland*)

5:20 PM

Breast Cancer and Subsequent Risk of Type 2 Diabetes Mellitus: A Systematic Review and Meta-Analysis [105]

Nanna Jordt | Kasper Kjærgaard | Reimar Thomsen
Signe Borgquist | Deirdre Cronin-Fenton (*Denmark*)

5:25 PM

Risk of Pancreatitis and Pancreatic Carcinoma for Anti-diabetic Medications: Evidence Synthesis from Disproportionality Analysis [103]

Asif Muhammed | Christy Thomas | Krishna Undela (*India*)

MAIN CONFERENCE

Program Schedule

F R I

5:30 PM

Cardiovascular Risk Among Adolescents and Young Adults Initiating Cardiotoxic Cancer Chemotherapy and Concurrent QTc Interval-prolonging Antidepressants [107]
Oluwadamilola Onasanya | Susan DosReis, FISPE
Eberechukwu Onukwugha | Wendy Camelo Castillo
(United States)

5:35 PM

Cancer Panel Discussion

Drug Utilization Research

5:45 PM

Longer-term Effectiveness of Home Blood Pressure Self-monitoring Plus Self-titration of Antihypertensive Medication for Poorly Controlled Hypertension in Primary Care: An Extension of the ADAMPA Trial [108]
Gabriel Sanfelix-Gimeno | Patricia Martínez-Ibáñez
Irene Marco-Moreno | Celia Robles-Cabaniñas
Eugenia Avelino-Hidalgo | Laura Bellot-Pujalte
Ignacio Barreira-Franch | Lucía Martínez-Ibáñez (Spain)

5:50 PM

The Impact of COVID-19 Pandemic on Drug Utilization Patterns: A Population-based Cohort Study in Manitoba, Canada [111]
Laila Aboulatta | Payam Peymani | Christine Vaccaro
Christine Leong | Kaarina Kowalec | Joseph Delaney
Jamie Falk | Silvia Alessi-Severini (Canada)

5:55 PM

Morbidity Consequences of Misuse of Psychoactive Prescription Drugs in Portugal: The MisuMedPT Project [106]
Ana Araujo | Rita Casal | João Goulão | Ana Martins
(Portugal)

6:00 PM

Global Trends in Antidepressant, Atypical Antipsychotic, and Benzodiazepine Use: A Cross-sectional Analysis of 64 Countries [113]
Orges Alabaku | Katie Suda | Simone Vigod | Mina Tadrous
(United States)

6:05 PM

Drug Utilization Research Panel Discussion

Diabetes

6:15 PM

Effectiveness and Safety of Empagliflozin in Routine Care: Results from the Empagliflozin Comparative Effectiveness and Safety (EMPRISE) Study [110]
Phyo Htoo | Helen Tesfaye | Julie Paik | Deborah Wexler
Mehdi Najafzadeh | Robert Glynn | Anouk Deruaz-Luyet
Soulmaz Farsani (United States)

6:20 PM

Association Between Glycemic Control and Risk of Venous Thromboembolism in Diabetic Patients: A Nested Case-control Study [112]
Sarah Charlier | Christian Meier | Susan Jick
Christoph Meier | Claudia Becker (Switzerland)

6:25 PM

Diabetes Severity and the Risks of COVID-19 Infection and Severe COVID-19 Outcomes [109]
Sascha Dublin | James Floyd | Rod Walker | Jennifer Kuntz
Susan Shortreed | Stephen Fortmann | Elizabeth Bayliss
Laura Harrington (United States)

6:30 PM

Liraglutide and Unexpected Psychiatric Adverse Events in Patients with Obesity: A Pharmacovigilance Study with Machine Learning Approach [104]
Ji-Hwan Bae | Hyesung Lee | Sungho Bea | Ju-Young Shin
(Republic of Korea)

6:35 PM

Diabetes Panel Discussion

MAIN CONFERENCE Program Schedule

7:00 - 8:00 PM

ISPE SPECIAL INTEREST GROUP MEETINGS

Open to all attendees.

MiPal – Congress Hall D2

Vaccine – Congress Hall D5

Rare Disease – Conference Room C1M0

Drug-Drug Interaction – Conference Room C1M1

Pediatric – Conference Room C1M4

Geriatric Pharmacoepidemiology – Meeting Room 18

Cancer – Meeting Room 19

Adherence – Meeting Room 20

Biologics – Conference Room B5M1

Medical Device – Conference Room B5M2

Brace – Conference Room B5M3

Digital Epi – Conference Room B5M4

CER – Conference Room B4M2

Genomics and Precision Medicine –
Conference Room B4M4

Drug Utilization Research – Conference Room C1M5

8:30 - 11 PM

STUDENTS/EARLY CAREER PROFESSIONALS MEET & GREET –

Hosted by the ISPE Student Council

Midsommar Biergarten og Rooftop Bar, Nørrebrogade
18 B, 2200 Copenhagen
www.midsommar.dk

Midsommar Biergarten og Rooftop Bar is a 15-minute taxi ride from the Bella Sky Hotel. No ISPE transportation is available for this event; attendees must make their own way to the venue.

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MAIN CONFERENCE Program Schedule

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S A T U R D A Y , A U G U S T 2 7

7:00 AM - 6:00 PM

SPEAKER READY ROOM / MEETING ROOM 21

Only required if you need to upload your presentation, or update/replace an already-uploaded presentation. Please complete uploads 24-hours in advance of your session.

7:00 AM - 6:00 PM

REGISTRATION / HALL F6-F7 LOBBY

7:00 AM - 6:00 PM

LACTATION ROOM / MEETING ROOM 28

Sponsored by EPI Excellence, LLC

7:00 - 8:00 AM

COFFEE WITH EXHIBITORS / HALL C

7:00 - 8:00 AM

REGIONAL INTEREST GROUPS

Open to all attendees.

Africa – Meeting Room 20

Latin America – Meeting Room 18

7:00 - 8:00 AM

Poster Session B set-up – *Hall C*

Spotlight Poster Session set-up – *Hall E South*

8:00 AM - 6:00 PM

EXHIBITS/POSTER SESSION B – HALL C

8:00 - 9:30 AM

CONCURRENT SESSIONS:

ORAL PRESENTATIONS

Methods for Generating RWE Through Emulation of Target Trials – Room C1M5

8:00 AM

One Design to Rule Them All: The Clone-Censor-Weight Design as a General Framework for Epidemiologic Studies [114]

Alexander Breskin (*United States*)

8:15 AM

Effect of Different Durations of Treatment with Antihypertensive Drugs with Anticholinergic Effects on the Risk of Dementia: A Target Trial Emulation Study [115]

Jaume Aguado | Lia Gutierrez | Kenneth Rothman
Xabier Garcia de Albeniz (*United States*)

8:30 AM

Evaluation Metrics for Data-driven Propensity Score Estimation: A Simulation Study [116]

Yuchen Guo | Daniel Prieto-Alhambra | Victoria Y. Strauss
Sara Khalid (*United Kingdom*)

8:45 AM

Emulating a Sequence of Target Trials to Avoid Immortal Time Bias in Pregnancy Studies — an Application to Antibiotic Initiation and Preterm Delivery [117]

Ellen Caniglia | Rebecca Zash | Christina Fennell
Modiegi Diseko | Gloria Mayondi | Jonathan Heintz
Mompoti Mmalane | Joseph Makhema (*United States*)

9:00 AM

Comparing the Effects of Neoadjuvant Versus Adjuvant Chemotherapy in Stage II-III, Triple-negative Breast Cancer: Illustration of Trial Emulation Using the Clone-Censor-Weight Method [118]

I-Hsuan Su | Charles Gaber | Stephanie Downs-Canner
Emilie Duchesneau | Jennifer Lund, FISPE (*United States*)

9:15 AM

Emulating Stratified Randomized Trials by Propensity Score Methods [119]

Phyo Htoo | Robert Glynn | Shirley Wang, FISPE
Julie Paik | Sebastian Schneeweiss, FISPE
Elisabetta Patorno (*United States*)

Program Schedule

Drug Utilization Potpourri – Congress Hall D2

8:00 AM

Method of Hormonal Contraception and Protective Effects Against Ectopic Pregnancy: A Population-based Register Study [120]

Marie Linder | Carolyn Cesta | Helena Kopp Kallner
Silvia Segovia Chacón | Sofie Graner (Sweden)

8:15 AM

The Characteristics of Gabapentinoid Users with Chronic Non-cancer Pain in the Primary Care of United Kingdom [121]

Xinchun GU | Teng-Chou Chen | Douglas Steinke, FISPE
Li-Chia Chen (United Kingdom)

8:30 AM

Sedative Load Before and After Entry to Residential Aged Care [122]

Gillian Caughey | Catherine Lang | Janet Sluggett
Steve Wesselingh | Maria Inacio (Australia)

8:45 AM

Prescription Patterns in Patients with Incident Trigeminal Neuralgia [123]

Pilar Hernandez-Con | Haesuk Park | Michael Maguire
Shailina Keshwani | Juan Hincapie-Castillo (United States)

9:00 AM

Non-adherence to Chronic Medications Used in COPD and Its Association with Adverse Events: A Longitudinal, Population-based Study [124]

Daniela Weir | Kay James | Kednapa Thavorn
Sara Guilcher | Salmaan Kanji | Sunita Mulpuru | Chris Bai
Walter Wodchis (Netherlands)

9:15 AM

South Peace Polypharmacy Reduction Project: Impact Evaluations of Medication Reviews and Online Workshops in Rural British Columbia [125]

Colin Dormuth | Greg Carney | Lina Al-Sakran | Anat Fisher
Malcolm Maclure (Canada)

Opioids and Addiction – The Other Pandemic? – Congress Hall D5

8:00 AM

Trajectories of Use in Elderly Incident Benzodiazepine Users of Norway [126]

Kristian Svendsen (Norway)

8:15 AM

Patterns of Buprenorphine Initiation Treatment for Opioid Use Disorder and Association with Opioid-related Overdose Deaths [127]

Svetla Slavova | Feitong Lei | Daniela Moga | Emily Slade
Lindsey Hammerslag | Nabarun Dasgupta | Michelle Lofwall
Patricia Freeman (United States)

8:30 AM

Secular Trends of Dispensed Opioid Prescriptions in Catalonia, Spain, 2007-19: A Population-based Cohort Study of over 5 Million Individuals [128]

Junqing Xie | Victoria Y. Strauss | Gary S. Collins
Sara Khalid | Antonella Delmestri | Aleksandra Turkiewicz
Martin Englund | Mina Tadrous (United Kingdom)

8:45 AM

Association of Opioid Dose Reduction with Opioid Overdose and Opioid Use Disorder Among Patients on High-dose Long-term Opioid Therapy in North Carolina [129]

Bethany DiPrete | Shabbar Ranapurwala
Courtney Maierhofer | Naoko Fulcher | Paul Chelminski
Christopher Ringwalt | Timothy Ives | Nabarun Dasgupta
(United States)

9:00 AM

Geographic Variation of High-risk Prescription Opioid Use Measures Among Disabled Medicare Beneficiaries, 2011-2018 [130]

Motomori Lewis | Lili Zhou | Walid Gellad
Juan Hincapie-Castillo | Diana Wilkie | Richard Segal
Debbie Wilson | Weihsuan Jenny Lo-Ciganic (United States)

9:15 AM

The Association Between Trajectories of Prescription Opioid Use and Opioid Overdose Risk Among Nonmetastatic Breast Cancer Survivors [131]

Weihsuan Jenny Lo-Ciganic | Juan Hincapie-Castillo
Ching-Yuan Chang | Bobby Jones | Haesuk Park
Coy Heldermon | Vakaramoko Diaby | Debbie Wilson
(United States)

MAIN CONFERENCE

Program Schedule

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Across the Globe: Injury and Neurologic Pharmacoepidemiology – Room C1M0

8:00 AM

β 2-adrenoceptor Agonists and Risk of Parkinson's Disease: Nested Case-control Study of People with Asthma or Chronic Obstructive Pulmonary Disease [132]

Anne Paakinaho | Miia Tiihonen | Heikki Koskela
Marjaana Koponen | Jari Tiihonen | Sirpa Hartikainen
Anna-Maija Tolppanen (Finland)

8:15 AM

Trends in the Use of Non-prescription Medications for Intentional Self-poisoning: A Review of Data from the United States Poison Control Centers [133]

Silvia Perez-Vilar | Jummai Apata | Dinci Pennap
Andrew Mosholder (United States)

8:30 AM

Dosing Profiles of Opioid and Benzodiazepine Use Associated with Risk of Injurious Falls Among US Medicare Beneficiaries: Group-based Multi-trajectory Models [134]

Juan Hincapie-Castillo | Walid Gellad | Bobby Jones
Jeannie Lee | James Huang | Ching-Yuan Chang
Debbie Wilson | Gary Reisfield (United States)

8:45 AM

Bacillus Calmette-Guérin Therapy for Bladder Cancer and Risk of Alzheimer's Disease in Denmark [135]

Signe Sørup | Trine Frøslev | Mette Nørgaard
Jørgen Bjerregaard Jensen (Denmark)

9:00 AM

Effect of Reductions in Opioid Prescribing on Opioid Use Disorder and Fatal Overdose in the United States: A Dynamic Markov Model [136]

G. Caleb Alexander | Jeromie Ballreich | Omar Mansour
David Dowdy (United States)

9:15 AM

Fatal Overdoses in a Cohort of Chronic Pain Patients [137]

Aleksi Hamina | Ingvild Odsbu | Vidar Hjellvik |
Linn Gjersing | Torgeir Lid | Thomas Clausen
Svetlana Skurtveit (Norway)

Safety First! – Room C1M1

8:00 AM

Use of Antipsychotics and the Risk of Acute Respiratory Failure [138]

Onyekachukwu Iloh | Susan DosReis, FISPE (United States)

8:15 AM

Evaluating the Long-term Effect of Allopurinol Use in Gout Using Marginal Structural Models: A Primary Care Electronic Health Records Study [139]

Trishna Rathod-Mistry | Edward Roddy | Kelvin Jordan
Christian Mallen | Milisa Blagojevic-Bucknall (United Kingdom)

8:30 AM

Association Between Fluoroquinolones and Uveitis, Retinal Detachment and Aortic Aneurysm or Dissection: An Application of Self-controlled Study Designs with Active Comparators [140]

Jeremy Brown | Kevin Wing | Stephen Evans
Clémence Leyrat | Kathryn Mansfield | Liam Smeeth
Angel Wong | David Yorston (United Kingdom)

8:45 AM

Death, Cardiac Event and Acute Liver Injury Associated with Bedaquiline or Delamanid in Patients with Multidrug Resistant Tuberculosis: A Nationwide Cohort Study [141]

Han Eol Jeong | Ju Hwan Kim | Hyesung Lee | In-Sun Oh
Sungho Bea | Ju-Young Shin (South Korea)

9:00 AM

Risk of Depressive Disorders Associated with Medical Cannabis Authorization:

A Propensity Score Matched Cohort Study [142]

Jerry Liwono Yana | Jason Dyck | Dean Eurich
Arsène Zongo (Canada)

9:15 AM

Risk of Mortality Associated with Pimavanserin Compared with Atypical Antipsychotics in Patients with Parkinson's Disease-related Psychosis [143]

J. Bradley Layton, FISPE | Lisa McQuay | Joan Forns
Heather Danysh | Colleen Dempsey | Mary Anthony
Mary Ellen Turner (United States)

MAIN CONFERENCE

Program Schedule

Disease Epidemiology Potpourri – Room C1M2

8:00 AM

Inhaled Corticosteroids and COVID-19 Risk and Outcomes—Findings from a Population-based Cohort within the SCIFI-PEARL Project [144]

Brian Kirui | Marina Labor | Fredrik Nyberg, FISPE
Lowie Vanfleteren (Sweden)

8:15 AM

Risk Factors for Mortality and Intensive Care Requirements Among Pediatric Patients Hospitalized with COVID-19 in the United States [145]

Nuvan Rathnayaka | Alexander Breskin | Angela Cook
Catherine Wiener | M. Alan Brookhart (United States)

8:30 AM

Temporal Trends, In-hospital Outcomes and Comorbidity Profile in US Asthma Hospitalizations Between 2004 and 2017 [146]

Salwa Zghebi | Mohamed Mohamed | Mamas Mamas
Evangelos Kontopantelis (United Kingdom)

8:45 AM

Healthcare Costs and Disease Duration Associated with Mild, Moderate and Severe COVID-19: A Payer Perspective [147]

Chantal Holy | Brandon Patterson | Fayolah Richards
Antoine El khoury | Jill Ruppenkamp | Ronita Debnath
Jessica deMartino | Brahim Bookhart (United States)

9:00 AM

Clustering of HbA1c Longitudinal Trajectories in Type 2 Diabetes Mellitus (T2DM) [148]

Adrian Martinez de la Torre
Maria Luisa Marques de Sá Faquetti | Fernando Perez-Cruz
Stefan Weiler | Andrea Burden (Switzerland)

9:15 AM

Women's Mortality Following Childbirths Affected by Vaginal Bleeding Due to Threatened Miscarriage: A Danish Cohort Study with up to 40 Years of Follow-up [149]

Elena Dudukina | Erzsebet Horvath-Puho
Henrik Toft Sørensen | Vera Ehrenstein (Denmark)

9:30 - 10:00 AM

BREAK/POSTERS/EXHIBITS – HALL C

10:00 - 11:30 AM

PLENARY SESSION

Updates from the COVID-19 Pharmacoepidemiological Battlefield: Recent Victories and Battles Ahead – Congress Hall D4

In this session, our four esteemed speakers will both look back over the many contributions from the pharmacoepidemiological society to the handling of the COVID-19 pandemic, as well as outline both learnings and likely challenges that lies ahead. Specifically, we will discuss the value of coordinated global collaborations in addressing urgent safety issues, what methodological insights we should take from these recent years, what regulators have learned and will expect from the pharmacoepidemiological society in the future, and what areas of the pandemic that will likely provide the study questions of the future.

Anton Pottegård

Professor, University of Southern Denmark Odense C, Denmark

Daniel Prieto-Alhambra, FISPE

Professor of Pharmaco- and Device Epidemiology,
University of Oxford

J. Bradley Layton, FISPE

Director, Epidemiology, RTI Health Solutions

Miriam Sturkenboom, FISPE

Prof. Dr., University Medical Center Utrecht

Catherine Cohet, PhD

Pharmacoepidemiology/RWE Senior Specialist,
European Medicines Agency

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11:30 AM - 1:00 PM

LUNCH/POSTER SESSION B/EXHIBITS – HALL C

11:30 AM - 1:00 PM

ISPE COMMITTEE MEETINGS

Open to all attendees; lunch available.

Finance – Meeting Room 18

Membership – Meeting Room 19

11:45 AM - 12:45 PM

**SPOTLIGHT POSTER SESSION B –
HALL E SOUTH**

Databases

Digital Epidemiology

Drug Utilization Research

Drug-Drug Interaction

Genomics

Geriatrics

MAIN CONFERENCE

Program Schedule

1:00 - 2:30 PM

CONCURRENT SESSIONS: ORAL PRESENTATIONS

Methods: Machines Making Predictions – Congress Hall D4

1:00 PM

Comparative Evaluation of Automated Approaches for Confounder Selection in Ultra High-dimensional Data with Rare Outcomes [151]

Richard Wyss | Mark van der Laan | Susan Gruber | Xu Shi Hana Lee | Sarah Dutcher | Sengwee Toh
Jennifer Nelson (United States)

1:15 PM

Fracture Risk Estimation in Post-menopausal Women: A Comparison of Machine Learning Methods and Software Systems [152]

David Pritchard | Matthew Phelan | M. Alan Brookhart (United States)

1:30 PM

A New Artificial Intelligence Guided Method for Identifying Add-on and Switch in Secondary Data Sources: A Case Study on Antiseizure Medications in Danish Registries [153]

Maurizio Sessa (Denmark)

1:45 PM

Claims-based Model to Predict Obesity in Older Patients [154]

Karine Suissa | Zhigang Lu | Lily Bessette
Cassandra York | Richard Wyss | Joshua Lin (United States)

2:00 PM

Development of a Multivariate Prediction Model to Identify Possible Signal Triggering Reports from Spontaneous Individual Case Safety Reports [155]

Florence van Hunsel | Helen Gosselt | Liza Bazelmans
Thomas Lieber | Linda Harmark (Netherlands)

2:15 PM

Predicting Wilson Disease Progression Using Machine Learning with Real-World Electronic Health Records [156]

Caihua Liang | Scott Kelly | Rongjun Shen | Ling Li
Kasia Lobello | Steven Arkin | Kui Huang | Xiaofeng Zhou (United States)

Study Design Approaches to Assessing Thrombosis Risk – Congress Hall D2

1:00 PM

Risk of Venous Thromboembolism in Patients Receiving Targeted Anti-cancer Therapy – A Nationwide Cohort Study [157]

Erzsebet Horvath-Puho | Florian Moik | Cihan Ay
John-Bjarne Hansen | Frits Mulder | Nick van Es
Henrik Toft Sørensen (Denmark)

1:15 PM

Arterial and Venous Thrombotic Events in Patients with COVID-19 Compared to Influenza [158]

Noelle Cocoros | Sarah Dutcher | John Connolly
Silvia Perez-Vilar | Dena Carbonari | Terese Defor
Djeneba Audrey Djibo | Laura Harrington (United States)

1:30 PM

Synergistic Effects of PM2.5 and Use of Corticosteroids on Cardiovascular and Thromboembolic Events Among Older Adults: Evidence of Environment-Drug Interaction [159]

Kevin Josey | Rachel Nethery | Benjamin Bates,
Aayush Visaria | Poonam Gandhi | Jung Hyun Kim
Soko Setoguchi, FISPE (United States)

1:45 PM

Association Between Phentermine and Risk of Major Adverse Cardiovascular Events: A Suite of Self-Controlled and Comparative Cohort Studies to Conquer Confounding [160]

Amir Sarayani | Christian Hampp, FISPE | William T. Donahoo
Joshua Brown | Almut Winterstein, FISPE (United States)

2:00 PM

Use of Chlorprothixene and the Risk of Diabetes and Major Adverse Cardiovascular Events: A Nation-wide Cohort Study [161]

Rikke Wesselhoeft | Mikkel Hoejlund | Christina Wagner
Kjeld Andersen | Anders Fink-Jensen
Jesper Hallas, FISPE (Denmark)

2:15 PM

Use of Combined Oral Contraceptives and Risk of Venous Thromboembolism: A Nested Case-control Analysis in German Claims Data [162]

Tania Schink | Christina Princk | Malte Braitmaier
Ulrike Haug (Germany)

MAIN CONFERENCE

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What's the Risk? Cancer Risk & Common Medications – Congress Hall D5

1:00 PM

5-alpha Reductase Inhibitor Use and Risk of Colorectal Cancer in Men with Benign Prostatic Hyperplasia: A Population-based Cohort Study [163]

Niamh Doherty | Christopher Cardwell | Peter Murchie
Christopher Hill | Laurent Azoulay | Blánaid Hicks
(United Kingdom)

1:15 PM

Parity, Use of Statins and Low-dose Aspirin, and Breast Cancer Risk—Data from Two Large Cohort Studies [164]

Julie Schmidt | Agnès Fournier | Manon Cairat
Aurélie Mailhac | Henrik Toft Sørensen | Marc Gunter
Deirdre Cronin-Fenton (Denmark)

1:30 PM

Statins and Breast Cancer Recurrence: A Danish Nationwide Cohort Study with Up to 23 Years of Follow-up [165]

Elisabeth Solmunde | Rikke N. Pedersen | Lene Mellempkjær
Søren Friis | Bent Ejlersen | Thomas P. Ahern
Mette Nørgaard | Deirdre Cronin-Fenton (Denmark)

1:45 PM

The Association Between Menopausal Hormone Therapy and Gastric and Colorectal Cancer Risk in Korean Women: A Nationwide Population-based Cohort Study [166]

Ji-Eun Kim | Chaewon Baek | Aesun Shin
Seokyoung Hahn | Hee-Kyung Park | Ji-Yeob Choi
(South Korea)

2:00 PM

Sodium-glucose Co-transporter 2 Inhibitors and the Risk of Early Bladder Cancer Events [167]

Devin Abrahami | Helen Tesfaye | Hui Yin | Seanna Vine
Blánaid Hicks | Oriana Yu | Robert Platt
Sebastian Schneeweiss, FISPE (United States)

2:15 PM

Thiazide Diuretics and Risk of Colorectal Cancer [168]

Julie Rouette | Emily McDonald | Tibor Schuster
Ilan Matok | James Brophy | Laurent Azoulay (Canada)

Psychotropic Use Around the World – Room C1M0

1:00 PM

Antidepressant Use Among Children and Adolescents Across the Scandinavian Countries [169]

Lotte Rasmussen | Peter Jensen | Johan Reutfors
Lena Brandt | Kari Furu | Svetlana Skurtveit | Randi Selmer
Per Damkier (Denmark)

1:15 PM

Attention Deficit Hyperactivity Disorder Medication Consumption in 64 Countries from 2015 to 2019: A Longitudinal Study [170]

Adrienne Chan | Tian-Tian Ma | Wallis Lau | Patrick Ip
David Coghill | Le GAO | Yogini Jani | Yingfen Hsia
(Hong Kong)

1:30 PM

Patterns of ADHD Medicine Use: A Population-based Study Among Australian Children and Adults (2013-2020) [171]

Claudia Bruno | Alys Havard | Malcolm Gillies
David Coghill | Jonathan Brett | Adam Guastella
Sallie-Anne Pearson | Helga Zoega (Australia)

1:45 PM

An Overview of Psychotropic Pharmacotherapy at Time of Death by Suicide: An Australian-wide Case Series Study Using Administrative and Coronial Data [172]

Kate Chitty | Nicholas Buckley | Jessy Lim | Zein Ali
Jennifer Schumann | Rose Cairns | Benjamin Daniels
David Preen (Australia)

2:00 PM

Prescription of Psychotropic Medications in Patients with Cancer: A Population-based Study in Hong Kong [173]

Chun SIng Lam | Chui Ping Lee | Joey Wing Yan Chan
Yin Ting Cheung (Hong Kong)

2:15 PM

Antidepressant Adherence Patterns over Time Among Adults with Depression—an Application of Group-based Trajectory Modeling Using Commercial Claims Data from 2007-2015 [174]

Jannat Saini | Danya Qato | Susan DosReis, FISPE
(United States)

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Posters

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

M. Alan Brookhart, PhD

The effect of remdesivir for the treatment of COVID-19 on mortality among hospitalized patients

Alexander Breskin, PhD, MPH

In-hospital treatment patterns among patients hospitalized with COVID-19 in the United States

Nuvan Rathnayaka, PhD

Podium Presentations

Friday, August 26

1:30 - 3:00 p.m. CEST The impact of parametric assumptions on the bias-variance tradeoff for causal analysis of time-to-event outcomes

Presented by Andrew Allmon, DrPH

5:15 - 6:45 p.m. CEST Negative control outcomes to assess the comparability of biologics versus small-molecule therapeutics for osteoporosis: considerations for differential non-adherence

Presented by Lydia Feinstein, PhD

Saturday, August 27

8:30 - 10:00 a.m. CEST One design to rule them all: The clone-censor-weight design as a general framework for epidemiologic studies

Presented by Alexander Breskin, PhD, MPH

8:30 - 10:00 a.m. CEST Risk factors for mortality and intensive care requirements among pediatric patients hospitalized with COVID-19 in the United States

Presented by Nuvan Rathnayaka, PhD

1:00 - 2:30 p.m. CEST Fracture risk estimation in post-menopausal women: a comparison of machine learning methods and software systems

Presented by David Pritchard, PhD, MS



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Mending Hearts and Brains – Room C1M1

1:00 PM

Comparative Effectiveness of Direct Oral Anticoagulants versus Warfarin Among Nursing Home Residents with Atrial Fibrillation [175]

Hemalkumar Mehta | Huijun An | Jodi Segal, FISPE
James Goodwin | G. Caleb Alexander (United States)

1:15 PM

The Effectiveness and Safety of Extended Anticoagulant Treatment in Patients with Venous Thromboembolism [176]

Nazleen Khan | Geetha Iyer | Helen Tesfaye | Gregory Brill
Katsiaryna Bykov (United States)

1:30 PM

Using Real-World Data to Assess Comparative Effectiveness and Safety of Apixaban and Rivaroxaban in Patients with Nonvalvular Atrial Fibrillation in the UK [177]

Liza Gibbs | Priya Govil | Seamus Kent | Stephen Duffield
Shaun Rowark | Manuj Sharma | Ayad Ali | Amanda Patrick
(United States)

1:45 PM

Prophylactic Anticoagulation with Low Molecular Weight Heparin in COVID-19: Cohort Studies in Denmark and Sweden [178]

Lars Christian Lund | Pontus Hedberg
Anne Helms Andreasen | Janne Petersen | Tonny Petersen
Anton Pottegård | Jacob Bodilsen | Pontus Naucner (Denmark)

2:00 PM

Risk of Ischemic Stroke Associated with DOAC Discontinuation on Patients with Non-valvular Atrial Fibrillation [179]

Tobias Alvaro Thomsen | Jorge Mesa Guadalupe
Lucía Cea Soriano | Consuelo Huerta | Airam De Burgos (Spain)

2:15 PM

High-intensity versus Low- or Moderate-intensity Statin Treatment for Patients with Ischemic Stroke: Nationwide Cohort Study [180]

Frederikke Bach | Nils Skajaa | Buket Öztürk Esen
Cecilia Fuglsang | Erzsebet Horvath-Puho
Henrik Toft Sørensen | Kasper Adelborg (Denmark)

1:00 - 2:30 PM

LIGHTNING FORUM SESSION 2 - ROOM C1M2

Vaccines

1:00 PM

Risk of Appendicitis After mRNA COVID-19 Vaccination: A Population-based Cohort Study [191]
Helene Kildegaard | Louise Ladebo | Jacob Harbo Andersen
Peter Jensen | Lotte Rasmussen | Per Damkier
Anton Pottegård (Denmark)

1:05 PM

Impact of Individual Case Reports for COVID-19 Vaccines on the Ability to Detect Future Safety Signals with Other Medicinal Products [192]
Sara Hedfors Vidlin | Oskar Gauffin | Daniele Sartori
Niklas Noren (Sweden)

1:10 PM

The Impact of Data Truncation on Rates of Vaccine-associated Adverse Events Utilizing Open and Closed Claims: Lessons from Post-Marketing Safety Surveillance of the SARS-CoV-2 mRNA-1273 Vaccine [186]
Christopher Bush | Daina Esposito | Deesha Patel
Alice Gelman | Sahar Syed | Priyadarshani Dharia
Katie Mues | David Martin (United States)

1:15 PM

The Comparative Risk of Thrombosis with Thrombocytopenia Associated with Different COVID-19 Vaccines: International Network Cohort Study Including 5 European Countries and the US [182]
Xintong Li | Edward Burn | Talita Duarte-Salles | Can Yin
Christian Reich | Antonella Delmestri | Katia Verhamme
Peter Rijnbeek (United Kingdom)

1:20 PM

Vaccines Panel Discussion

MAIN CONFERENCE

Program Schedule

Biologics/Biosimilars

1:30 PM

Predictors of Effectiveness of First-line Biologic Disease Modifying Antirheumatic Drug(s) (bDMARD) or Targeted Synthetic DMARD (tsDMARD) Treatment with a Tumor Necrosis Factor Inhibitor in Patients with Rheumatoid Arthritis [189]

Alexander Liede | Whitney Krueger | Linyan Li
Yuhang Liu | Yi Pan | Michelle Brauer | Seoyoung Kim
Earl Steinberg (*Ireland*)

1:35 PM

Effect Modification of Biologic Survival by Patient Characteristics: A Step Towards Precision Medicine in the Treatment of Psoriasis [184]

Zenas Yiu | Gabrielle Becher | Brian Kirby | Philip Laws Nick Reynolds | Catherine Smith | Richard Warren
Christopher Griffiths (*United Kingdom*)

1:40 PM

Application of a Systems Biology Approach to Address Confounding by Indication for Immune-mediated Disorders in Spontaneous Reports Data: A Case Study of Vedolizumab-associated Pancreatitis in Inflammatory Bowel Disease [187]

Jodie Hillen | Katherine Duszynski | Ty Stanford
Michael Ward | Elizabeth Roughead | Lisa Kalisch
Nicole Pratt (*Australia*)

1:45 PM

Discontinuation of Infliximab Treatment in IBD Patients: A Comparison Between Patients Who Re-transitioned to Originator and Those Who Remained on Biosimilar [185]

Rosanne Meijboom | Helga Gardarsdottir, FISPE
Matthijs Becker | Kris Movig | Johan Kuijvenhoven
Toine Egberts | Thijs Giezen (*Netherlands*)

1:50 PM

Biologics/Biosimilars Panel Discussion

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

2:00 PM

Mortality Among Parkinson's Disease Patients Treated with Pimavanserin or Atypical Antipsychotics: An Observational Study in Medicare [188]

Sandia Akhtar | Andrew Mosholder | Yong Ma
Gerald Podskalny | Yuhui Feng | Hai Lyu | Jiemin Liao
Yuguin Wei (*United States*)

2:05 PM

Post-market Safety Communication for New Drugs Approved in Australia 2010-2016 [190]

Barbara Mintzes | Alice Bhasale | Lucy Perry | Eliza McEwin
Annim Mohammad | Ashleigh Hooimeyer | Atse Huisman
(*Australia*)

2:10 PM

Hydroxyzine Initiation Following Drug Safety Advisories on Cardiac Arrhythmias in the UK and Canada: A Longitudinal Cohort Study [181]

Richard Morrow | Barbara Mintzes | Patrick Souverein
Christine Hallgreen | Bilal Ahmed | Elizabeth Roughead
Marie Louise De Bruin | Sarah Kristiansen (*Canada*)

2:15 PM

Duration of the Evaluation of Additional Risk Minimization Measures: The Need for Speed [183]

Sharon Essink | Inge Zomerdijk | Sabine Straus
Marie Louise De Bruin (*Netherlands*)

2:20 PM

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

MAIN CONFERENCE

Program Schedule

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2:40 - 3:50 PM

ANNUAL MEETING OF ISPE MEMBERS & AWARDS CEREMONY – CONGRESS HALL D4

Call to Order & President's Address
Vin Lo Re, FISPE, *ISPE President*

Financial Report
Wei Zhou, FISPE, *Vice President/Finance*

Strategic Plan 2020-2024 Update
Tobias Gerhard, FISPE,
Chair, Strategic Planning Committee

New Business

Awards Ceremony

ISPE Board Transition

RETIRING BOARD MEMBERS & OFFICERS
Olaf Klungel, FISPE | Fredrik Nyberg, FISPE
Lisa Pont, FISPE | Jennita Reefhuis
Mary Beth Ritchey, FISPE | Wei Zhou, FISPE

INDUCTION OF NEW DIRECTORS
Ursula Kirchmayer, FISPE
Government/Regulator (Europe/Africa)

Andrea Margulis, FISPE
Industry/Service Provider (Europe/Africa)

Gillian Caughey
Academic (Asia/Pacific)

Efe Eworuke
Government/Regulator (Americas)

Jessica Franklin
Industry/Service Provider (Americas)

INSTALLATION OF 2022-2023 OFFICERS
Tobias Gerhard, FISPE, *President*
Caitlin Knox, *Vice President/Finance*
Vin Lo Re, FISPE, *Immediate Past President*
Lisa Pont, FISPE, *President-Elect*

3:50 - 4:15 PM

BREAK/POSTERS/EXHIBITS – HALL C

4:15 - 5:45 PM

CONCURRENT SESSIONS: SYMPOSIA & WORKSHOPS

HARmonized Protocol to Enhance Reproducibility (HARPER): An ISPE-ISPOR Joint Task Force of the RWE Initiative [200] – Room C1M5
Shirley Wang, FISPE | Donna Rivera, FISPE | William Crown
Peter Arlett | Wim Goettsch (*United States*)

Cloning, Censoring, and Weighting—Oh My! Applications of Target Trial Emulation for Evaluating Cancer Interventions When Study Eligibility, Intervention Initiation, and Start of Follow-up are Not Aligned [201] – Congress Hall D2
Jennifer Lund, FISPE | Xabier Garcia de Albeniz
Camille Maringe | Charles Gaber | Richard Wyss,
Maribel Salas, FISPE | Armen Ghazarian (*United States*)

COVID-19 Vaccine Safety Monitoring: Opportunities, Challenges and Lessons Learned for Pharmacoepidemiology [202] – Congress Hall D5
Alicia Gilseman, FISPE | Miriam Sturkenboom, FISPE
Cynthia De Luise | Catherine Cohet | Jeffrey Brown
Susana Perez-Gutthann, FISPE | Patricia Lloyd | Joseph Kim
(*United States*)

Drug Safety on the Cutting Edge: What are the Implications of EMA's To-be-released Risk Minimisation Guidance on Pharmacoepidemiological Methods and Practice in Developed and Developing Countries? [203] – Conference Room C1M0
Meredith Smith, FISPE | Priya Bahri | Elaine Morrato
Parthasarathi Gurumurthy (*United States*)

Real-World Evidence Studies in the Post-COVID-19 Era: Methodological Considerations for Pandemic Related Disruptions [204] – C1M1
Anne Butler | Mehmet Burcu | Helga Gardarsdottir, FISPE
G. Caleb Alexander (*United States*)

MAIN CONFERENCE

Program Schedule

4:15 - 5:45 PM

LATE BREAKERS –

CONFERENCE ROOM C1M2

4:15 PM

Alternative Approaches to Defining COVID-related Inpatient Encounters in IBM® MarketScan® Data [194]

Kathleen Andersen | Andy Surinach | Qiao Mu
Tamuno Alfred | Deepa Malhotra | Leah McGrath
Jennifer Nguyen | Jennifer Judy (United States)

4:30 PM

Use of the New ICD-10-CM Diagnosis Code for Post-COVID-19 Condition in Routine Clinical Practice in the United States [195]

Leah McGrath | Amie Scott | Andy Surinach
Richard Chambers | Michael Benigno | Deepa Malhotra
(United States)

4:45 PM

Rapid Surveillance on the Use of Neutralising Monoclonal Antibodies and Antivirals in Patients with COVID-19 in Scotland Using Administrative and Purposely Collected Data [196]

Tanja Mueller | Euan Proud | Holly Tibble | Elliott Hall
Amanj Kurdi | Marion Bennie (United Kingdom)

5:00 PM

Increasing Use of Antidepressants, Hypnotics and Psychostimulants During the COVID-19 Pandemic Among Danish Children, Adolescents, and Young Adults [197]

Mette Bliddal | Lotte Rasmussen | Jacob Harbo Andersen
Anton Pottegård | Trine Munk-Olsen | Helene Kildegaard
Rikke Wesselhoeft (Denmark)

5:15 PM

Female Preconception Vaccination Against COVID-19 and Spontaneous Abortion in a Prospective Preconception Cohort Study [198]

Jennifer Yland | Amelia Wesselink | Krista Huybrechts, FISPE
Sonia Hernandez-Diaz, FISPE | Lauren Wise (United States)

5:30 PM

Comparative Effectiveness of Sotrovimab and Molnupiravir for Prevention of Severe COVID-19 Outcomes in Non-hospitalised Patients: An Observational Cohort Study Using the OpenSAFELY Platform [199]

Bang Zheng | Amelia Green | John Tazare | Stephen Evans
Ian Douglas | Brian MacKenna | Ben Goldacre
Laurie Tomlinson (United Kingdom)

6:00 - 7:00 PM

COUNCIL MEETINGS

Academic – Conference Room C1M0

Student – C1M1

7:00 - 11:00 PM

Social Evening at the Langelinie Pavillon

Badge or guest ticket required for entry.

Located at Langelinie 10, DK-2100 Copenhagen

Shuttle from Bella Center Entrance 6
starting at 6:00 pm

MAIN CONFERENCE Program Schedule

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S U N D A Y , A U G U S T 2 8

7:00 AM - 3:30 PM

SPEAKER READY ROOM / MEETING ROOM 21

Only required if you need to upload your presentation, or update/replace an already-uploaded presentation. Please complete uploads 24-hours in advance of your session.

7:00 AM - 4:30 PM

REGISTRATION / HALL F6-F7 LOBBY

7:30 AM - 4:30 PM

LACTATION ROOM / MEETING ROOM 28

Sponsored by EPI Excellence, LLC

7:00 - 8:00 AM

COFFEE WITH EXHIBITORS / HALL C

7:00 - 8:00 AM

Poster Session C set-up – Hall C
Spotlight Poster Session set-up – Hall E South

8:00 AM - 3:15 PM

POSTERS – HALL C

8:00 AM - 4:30 PM

EXHIBITS – HALL C

8:30 - 10:00 AM

CONCURRENT SESSIONS: ORAL PRESENTATIONS

Methods: Validation – Congress Hall D5

8:30 AM

Validation of an International Classification of Disease (ICD) 10 Algorithm for Hypoglycemia in Administrative Claims Data [205]

Goua Her | Sara Dejene | Jea Young Min | Virginia Pate
Michele Jonsson Funk, FISPE | James Flory (United States)

8:45 AM

Evaluation of Mortality Data Sources Compared to the National Death Index in the Healthcore Integrated Research Database [206]

Aziza Jamal-allial | Todd Sponholtz | Shiva K Vojjala
Anahit Papazian | Biruk Eshete
Seyed Hamidreza Mahmoudpour | Patrice Verpillat
Daniel Beachler (United States)

9:00 AM

Adaptability of High Dimensional Propensity Score Procedure in the Transition from ICD-9 to ICD-10 in the US Healthcare System [207]

Amir Sarayani | Joshua Brown | Christian Hampp, FISPE
William T. Donahoo | Almut Winterstein, FISPE (United States)

9:15 AM

Reproducibly Estimating Drug Exposure from Free-text Prescriptions [208]

William Dixon | Belay Yimer | David Selby | Meghna Jani
Mark Lunt | Goran Nenadic (United Kingdom)

9:30 AM

A Bootstrap Approach for Validating Groups Identified by Latent Class Growth Models [209]

Marc Simard | Miceline Mésidor | Caroline Sirois
Denis Talbot (Canada)

9:45 AM

Can Administrative Claims Data Be Used to Determine Pre-treatment HbA1c Among Adults with Type 2 Diabetes? [210]

Jenna Wong | Xiaojuan Li | David Arterburn
Dongdong Li Elizabeth | Messenger-Jones | Rui Wang
Sengwee Toh (United States)

Program Schedule

Examining Equity: Who? Where and What? – Congress Hall D2

8:30 AM

Inequalities in the Incidence and Management of Non-valvular Atrial Fibrillation in England, 2009 to 2019: Cohort Study Using Electronic Health Records from General Practices [212]

Alyaa Ajabnoor | Salwa Zghebi | Rosa Parisi
Darren Ashcroft | Martin Rutter | Tim Doran
Matthew Carr | Mamas Mamas (*United Kingdom*)

8:45 AM

Racial Disparities in Clinical Trial Participation: Evidence from Real-World Oncology Data [213]

Harlan Pittell | Gregory Calip | Amy Pierre
Jenny Guadamuz (*United States*)

9:00 AM

Socioeconomic Inequalities in COVID-19 Vaccination and Infection Among Adults Living in Urban Areas of Catalonia, Spain: A Population-based Cohort Study [214]

Elena Roel | Berta Raventós | Edward Burn
Andrea Pistillo | Daniel Prieto-Alhambra
Talita Duarte-Salles (*Spain*)

9:15 AM

Geographic Variation and Racial Disparities in Novel Glucose-lowering Drugs Adoption Among US Medicare Beneficiaries with Type 2 Diabetes [215]

Wei-Han Chen | Yujia Li | John M. Allen | Hui Shao
William Donahoo | Steven Smith | Serena Jingchuan Guo
(*United States*)

9:30 AM

The Association of Ethnicity and Social Deprivation and Choice of Second-line Antidiabetic Treatment in People with Type 2 Diabetes: A Cross-sectional Study [216]

Patrick Bidulka | Rohini Mathur | David Lugo-Palacios
Stephen O'Neill | Anirban Basu | Richard Silverwood
Paul Charlton | Andrew Briggs (*United Kingdom*)

9:45 AM

Differences in Opioid Use After Hip Fracture by Race and Post-acute Care Use Among US Older Adults [217]

Kaley Hayes | Meghan Cupp | Abednego Commey
Francesca Beaudoin | Richa Joshi | Andrew Zullo
(*United States*)

Pandemic Prescription Patterns (Plus Pneumonia!) – Congress Hall D4

8:30 AM

Does COVID-19 Pandemic Impacted on Quality of Antibiotic Use in the Community? An Interrupted Time-series Analysis [218]

Carla Torre | Antonio Teixeira Rodrigues
Mariana Dominques | José Guerreiro | João Rocha
Bruno Sepodes (*Portugal*)

8:45 AM

Systemic Corticosteroids for COVID-19 in US Outpatient Settings [219]

Marie Bradley | David Graham | Efe Eworuke | Hana Lee
Sandia Akhtar | Hai Lyu | Kushal Naik | Yoganand Chillarige
(*United States*)

9:00 AM

Utilization of Broad- Versus Narrow-spectrum Antibiotics for the Treatment of Outpatient Community-acquired Pneumonia [220]

Katelin Nickel | Anne Butler | Michael Durkin
Margaret Olsen | John Sahrman | Caroline O'Neil
(*United States*)

9:15 AM

Impact of COVID-19 Pandemic on the Prescription Trends of Antiseizure Medications [221]

Alekhyia Lavu | Donica Janzen | Laila Aboulatta
Payam Peymani | Brianne Desrochers | Silvia Alessi-Severini
Sherif Eltonsy (*Canada*)

9:30 AM

The Effect of the COVID-19 Pandemic on Medicines Utilisation in England [222]

Danielle Robinson | Jonathan Pearson-Stuttard
Benjamin Bray (*United Kingdom*)

9:45 AM

Impact of COVID-19 on Psychotropic Medication Use Among Children and Adolescents Receiving Mental Health Services [223]

Alejandro Amill-Rosario | Haeyoung Lee
Chengchen Zhang | Susan DosReis, FISPE (*United States*)

MAIN CONFERENCE

Program Schedule

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Around the World with Real-World Evidence – Room C1M0

8:30 AM

HIV Pre-exposure Prophylaxis (PrEP) Effectiveness in the Real World: A Nested Case-control Study Among 46,706 Men at High Risk of HIV Infection in France [224]
Hugo Jourdain | Sophie Billioti de Gage | David Desplas
Rosemary Dray-Spira (France)

8:45 AM

Use of Central Nervous System Drugs in Combination with Selective Serotonin Reuptake Treatment: A Bayesian Screening Study for Risk of Suicidal Behavior [225]
Zheng Chang | Tyra Lagerberg | Arvid Sjölander
Robert Gibbons | Patrick Quinn | Brian D'Onofrio
Clara Hellner | Paul Lichtenstein (Sweden)

9:00 AM

Long-acting Injectable Antipsychotics and Risk of Treatment Failure in a Population-based Cohort [226]
Donica Janzen | James Bolton | Christine Leong
I fan Kuo | Silvia Alessi-Severini (Canada)

9:15 AM

The Effect of Remdesivir for the Treatment of COVID-19 on Mortality Among Hospitalized Patients [227]
Alexander Breskin | Catherine Wiener | M. Alan Brookhart
(United States)

9:30 AM

Association Between Very High PD-L1 Expression versus High PD-L1 Expression in Patients Receiving Pembrolizumab as First-line Treatment for Advanced Non-small Cell Lung Cancer [228]
Syed Mohsin Mahmood Shah | Melina Marmarelis
Ronac Mamtani | Rebecca Hubbard | Sean Hennessy
(United States)

9:45 AM

Does Hydroxychloroquine Prevent Cardiovascular Events in Systemic Lupus Erythematosus Patients? [229]
Lamiae Grimaldi | Tom Duchemin | Philippe Attias
Yann Hamon | Jacques Benichou | Yola Moride
Lucien Abenheim (France)

SGLT2s and Cardiovascular Endpoints – Room C1M1

8:30 AM

Sodium-glucose Co-transporter 2 Inhibitor Treatment and Risk of Atrial Fibrillation: Scandinavian Cohort Study [230]
Arvid Engström | Victor Wintzell | Mads Melbye
Anders Hviid | Björn Eliasson | Soffia Gudbjörnsdottir
Kristian Hveem | Christian Jonasson (Sweden)

8:45 AM

Cardiovascular Outcomes in Patients with Type 2 Diabetes Who Added Either GLP1 Receptor Agonists or DPP4 Inhibitors to SGLT2 Inhibitor Therapy [231]
Katsiaryna Bykov | Seoyoung Kim | Chintan Dave
Raisa Levin | Deborah Wexler | Elisabetta Patorno
(United States)

9:00 AM

Cardiovascular Effectiveness of Sodium—Glucose Cotransporter 2 Inhibitors (SGLT-2i) and Glucagon-like Peptide 1 Receptor Agonists (GLP-1 RA) in Routine Care of Frail People with Type 2 Diabetes [232]
Alexander Kutz | Chandrasekar Gopalakrishnan
Dae Hyun Kim | Elisabetta Patorno (United States)

9:15 AM

Cardiovascular Effectiveness of SGLT2 Inhibitors: Head-to-head Comparisons [233]
Devin Abrahami | Elvira D'Andrea | Julie Paik
Deborah Wexler | Brendan Everett | Seoyoung Kim
Elisabetta Patorno (United States)

9:30 AM

Cardiovascular Effectiveness of Empagliflozin vs Glucagon-like peptide-1 Receptor Agonists or Liraglutide in the EMPRISE Study [234]
Phyo Htoo | Helen Tesfaye | Julie Paik | Deborah Wexler
Mehdi Najafzadeh | Robert Glynn | Anouk Deruaz-Luyet
Soulmaz Farsani (United States)

9:45 AM

Using Iterative Causal Forest to Identify Heterogeneous Treatment Effects: Sodium-glucose Cotransporter-2 inhibitors versus Glucagon-like Peptide-1 Receptor Agonists on Hospitalization for Heart Failure [235]
Tiansheng Wang | Alexander Keil | Siyeon Kim
Richard Wyss | Phyo Htoo | Michele Jonsson Funk, FISPE
John Buse | Michael Kosorok (United States)

Program Schedule

Welcoming Novel Methods in Pregnancy Research – Room C1M2

8:30 AM

Associations of Prenatal Exposure to Antibiotics and Paracetamol with Trajectories of Wheezing up to 2 Years of Age [236]

Marleen Van Gelder | Michelle G.A. Clevis | Sharon Essink
Jolt Roukema | Nel Roeleveld | Chris Verhaak
Peter Merkus (Netherlands)

8:45 AM

Development and Validation of Claims-based Algorithms for Estimating Gestational Age of Spontaneous Abortion and Termination [237]

Krista Huybrechts, FISPE | Yanmin Zhu
Sonia Hernandez-Diaz, FISPE | Brian Bateman
Kathryn Gray | Loreen Straub | Lockwood Taylor
Rita Ouellet-Hellstrom (United States)

9:00 AM

Estimating the Association Between Initial Postpartum Discharge Adgent Prescription Dose and Subsequent Opioid Use:

The Role of Different Modeling Strategies [238]
Andrew Wiese | Carlos Grijalva | Margaret adgent
Sarah Osmundson | Amelie Pham | Sharon Phillips
Ed Mitchel | Andrew Spieker (United States)

9:15 AM

Hierarchical Clustering Analysis to Inform Classification of Congenital Malformations for Surveillance of Medication Safety in Pregnancy [239]

Loreen Straub | Sonia Hernandez-Diaz, FISPE
Shirley Wang, FISPE | Kathryn Gray | Lewis Holmes
Brian Bateman | Helen Mogun | Krista Huybrechts, FISPE
(United States)

9:30 AM

A Novel Framework to Assess Reproductive Toxicity: Pregnancy Outcomes Intensive Monitoring (PRIM) [240]

Lisa Prach | Bitu Rezaallah | Valentine Jehl (Switzerland)

9:45 AM

Quantification of Medication-mediated Effects on Pregnancy Outcome in Women with Rheumatic Conditions [241]

Gretchen Bandoli | Kristin Palmsten | Chelsey Smith
Christina Chambers (United States)

10:00 - 10:30 AM

BREAK/POSTERS/EXHIBITS – HALL C

10:30 AM - 12:00 PM

CONCURRENT SESSIONS: SYMPOSIA & WORKSHOPS

Shaping the Future of Pharmacoepidemiology [242] – Meeting Room C1M5

Vicki Osborne | Deborah Layton, FISPE | Amie Goodin
Almut Winterstein, FISPE | Andrew Bate | Catherine Cohet
Xavier Kurz | Lisa Pont, FISPE | David Moeny
Olaf Klungel, FISPE | Simone Pinheiro | John Seeger, FISPE
K. Arnold Chan, FISPE | Stanley Edlavitch, FISPE
Hugh Tilson, FISPE | Joshua Brown (United Kingdom)

What Do Real World Data Validation Best Practices Look Like? Operationalizing Guidance for Real-World Studies Intended for Decision-making [243] – Congress Hall D2

Ulka Campbell | Sangmi Kim | Sengwee Toh
Seamus Kent | Jeffrey Brown | Carla Rodriguez-Watson
(United States)

Updating the Public on COVID-19 Vaccine Safety – Considerations for

Pharmacoepidemiologists [244] – Congress Hall D5

Mathias Møllebæk | Priya Bahri | Nabarun Dasgupta
Barbara Mintzes | Anton Pottegård | Peter Mol (Denmark)

Emulation Differences versus Bias: Implications of Large-scale Emulation of Randomized Clinical Trials Using Clinical Practice Data (RCT-DUPLICATE) [245] – Conference

Room C1M0

Shirley Wang, FISPE | Sebastian Schneeweiss, FISPE
Peter Arlett | Hans-Georg Eichler | Melvin Olson
(United States)

COVID-19 Vaccine Use During Pregnancy: Accelerating Innovative Evidence Generation Platforms to Meet Current and Future Challenges [246] – Meeting Room C1M1

Kourtney Davis, FISPE | Diego Wyszynski
Wilhelmine Meeraus | Lydie Marcelon | Nicole Baker
Emily Yost (United States)

MAIN CONFERENCE Program Schedule

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12:00 - 1:30 PM

LUNCH/POSTER SESSION C/EXHIBITS – HALL C

12:00 - 1:30 PM

ISPE BOARD OF DIRECTORS' LUNCH –
MEETING ROOM 19

Open to all ISPE members; please contact
info@pharmacoepi.org if you are interested in
attending this meeting.

12:15 - 1:15 PM

SPOTLIGHT POSTER SESSION C – HALL E SOUTH

Health Equity

Medical Devices

Medications in Pregnancy and Lactation

Pediatrics

Rare Diseases

Vaccines



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challenges with
real-world data and
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expertise

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IBM Watson Health®



Program Schedule

1:30 - 3:00 PM

CONCURRENT SESSIONS: ORAL PRESENTATIONS

Novel Approaches to Pharmacovigilance – Room C1M5

1:30 PM

Surveillance of Antidepressant Safety (SADS):
Comparison of Signal Detection of Serious Medical
Events Using Tree-based Scan Statistics and
Repeated Cohort Studies [247]

Mia Aakjær | Murat Kulahci | Marie Louise De Bruin
Abdul Rauf Khan | Morten Andersen (Denmark)

1:45 PM

Myocarditis and Pericarditis Associated with
SARS-CoV-2 Vaccines in Four European Countries
Using Large Electronic Health Care Data Sources:
A Population-based Descriptive Cohort and a
Nested Self-controlled Risk Interval Study [248]

Judit Riera Arnau | Sophie Bots | Anna Schultze
Davide Messina | Svetlana Belitser | Carlos Duran
Ema Alsina | Ian Douglas (Spain)

2:00 PM

Screening for Statin-related Prescribing
Cascades Using High-throughput Sequence
Symmetry Analysis [249]

Scott Vouri | Earl Morris | Marta Walsh
Leonie Hochleitner | Matthew Muschett | Jessica Agalliu
Alyssa Dempsey | Stephan Schmidt (United States)

2:15 PM

Detecting Adverse Drug Events in Dermatology
Through Natural Language Processing of
Physician Notes [250]

Lawrence Rasouliyan | Vikas Kumar | Veysel Kocaman
David Talby (United States)

2:30 PM

Preliminary Results from HERO-together:
A Post-emergency Use Authorization Observational
Cohort Study to Evaluate the Safety of the Pfizer-
BioNTech COVID-19 Vaccine in US Healthcare
Workers and Community Members [251]

Emily O'Brien | Cherise Wong | Jack Shostak | Laura Webb
Lauren Cohen | Heather Rubino | Patrick Caubel
Amy Abernethy (United States)

2:45 PM

Use of Anxiolytic, Hypnotic and Antidepressant
Drugs After Dispensation of a Levonorgestrel
52 mg Intra-uterine System Compared to a
19.5 mg Intra-uterine System:

A Nationwide Matched-cohort Study [252]

Noemie Roland | Bérangère Baricault | Jeremie Botton
Lise Duranteau | Rosemary Dray-Spira | Alain Weill
Mahmoud Zureik (France)

Fractures and Osteoporosis Medication – Congress Hall D2

1:30 PM

Concurrent Use of Prescription Opioids with
Other Medications and Risk of Fall and Fracture in
Rheumatoid Arthritis Patients [253]

Nazleen Khan | Katsiaryna Bykov | Jeffrey Katz
Robert Glynn | Seanna Vine | Seoyoung Kim (United States)

1:45 PM

Effectiveness of Osteoporosis Medications on
the Risk of Fracture: A French Population-based
Cohort Study [254]

Pauline Bosco-Levy | James O'Kelly | Karine Briot
Nadia Mehsen-Cetre | Alban Fabre | Régis Lassalle
Abdelillah Abouelfath | Angela Grelaud (France)

2:00 PM

A Translational Approach to Study Drug-Drug
Interaction with Hormonal Contraceptives: From
Pharmacoepidemiology to Mechanistic Modelling [255]

Amir Sarayani | Brian Cicali | Stephan Schmidt
Joshua Brown | Almut Winterstein, FISPE (United States)

2:15 PM

Comparison of Denosumab versus Bisphosphonates
on Progression-free and Overall Survival in Newly
Diagnosed Multiple Myeloma: A New User, Active
Comparator Analysis of Real-World Data [256]

Jenny Guadamuz | Mustafa Ascha
Ghulam Rehman Mohyuddin | Brian C.-H. Chiu
Pritesh R. Patel | Karen Sweiss, | Rebecca Rohrer
Amy Pierre (United States)

2:30 PM

The Difference Between Pregabalin and
Gabapentin in the Risk of Fragility Fractures –
A Nationwide High-dimensional Propensity Score
Matched Cohort Study [257]

Daniel Henriksen | Emilie Jørgensen | Per Damkier
Jesper Hallas, FISPE (Denmark)

MAIN CONFERENCE

Program Schedule

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U
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2:45 PM

Treatment Heterogeneity in Comparative Effectiveness of Teriparatide vs Bisphosphonates: Multi-database Cohort Study [258]

Alexandros Rekkas | Annika Joedicke | David van Klaveren
Daniel Prieto-Alhambra | Peter Rijnbeek (*Netherlands*)

Use it or Lose Out: Trends in Anti-cancer and Biologic Utilization – Congress Hall D5

1:30 PM

Utilization Patterns of Systemic Immunomodulating Drugs in Patients with Atopic Dermatitis in Clinical Practice [259]

Maria Schneeweiss | Priyanka Anand
Sebastian Schneeweiss, FISPE (*United States*)

1:45 PM

Trends in Access to Essential Cancer Medicines in Low and Middle Income Countries, 2015-2020 [260]

Dima Qato | Andrew Shooshtari | Jonathan Cohen
Prashant Yadav
(*United States*)

2:00 PM

End-of-life Endocrine Treatment of Older Hormone Receptor-positive Metastatic Breast Cancer Patients: A Nationwide Swedish Retrospective Cohort Study [261]

Máté Szilcz | Jonas Wastesson | Henrik Lindman
Kristina Johnell (*Sweden*)

2:15 PM

Real-World Treatment Patterns Before and After Receiving PD-L1 Test Results in Patients with Advanced Non-small Cell Lung Cancer (aNSCLC) [262]

Wenzhen Ge | Scott Antonia | Ning Wu
Jean-Francois Pouliot | Hilary Dietz | Jessica Jalbert
Ruben GW Quek | James Harnett (*United States*)

2:30 PM

Triptan Consumption Before and After the Initiation of an Anti-CGRP mAb: A Descriptive Drug Utilization Study in Tuscany Region, Italy [263]

Giulia Hyeraci | Olga Paoletti | Luigi Francesco Iannone
Rosa Gini | Francesco De Cesaris | Silvia Benemei
Pierangelo Geppetti | Giuseppe Roberto (*Italy*)

2:45 PM

The Association Between Trajectories of Adherence to Endocrine Therapy and the Risk of Breast Cancer Recurrence Among Nonmetastatic Breast Cancer Survivors [264]

Juan Hincapie-Castillo | Weihsuan Jenny Lo-Ciganic
Ching-Yuan Chang | Bobby Jones | Haesuk Park
Coy Heldermon | Vakaramoko Diaby | Debbie Wilson
(*United States*)

Safety Issues Concerning DM and Antidiabetic Drugs – Room C1M0

1:30 PM

Long-acting Insulin Analogues versus Neutral Protamine Hagedorn Insulin and the Risk of Severe Hypoglycemia Among Patients in Type 2 Diabetes in the United Kingdom [267]

Vanessa Brunetti | Kristian Filion | Oriana Hoi Yun Yu,
Robert Platt (*Canada*)

1:45 PM

Dipeptidyl peptidase-4 Inhibitors and the Risk of Acute Liver Injury Among Patients with Type 2 Diabetes [268]

Richeek Pradhan | Hui Yin | Oriana Hoi Yun Yu
Laurent Azoulay (*Canada*)

2:00 PM

The Comparative Safety of Individual SGLT2 Inhibitors and the Risk of Diabetic Ketoacidosis [269]

Devin Abrahami | Elvira D'Andrea | Seoyoung Kim
Deborah Wexler | Julie Paik | Elisabetta Patorno
(*United States*)

2:15 PM

Risk of New-onset Type 2 Diabetes in Antidepressant Users: A Population-based Cohort Study in Denmark [270]

Reeha Sharon | Morten Andersen | Theis Lange (*Denmark*)

2:30 PM

Risk of Hypoglycemia with Sodium Glucose cotransporter-2 Inhibitors vs Alternative Glucose Lowering Medications in Patients with and without Baseline Use of Insulin or Sulfonylurea [265]

Phyo Htoo | Deborah Wexler | Seoyoung Kim | Julie Paik
Ethan Alt | Dae Kim | Elisabetta Patorno (*United States*)

2:45 PM

Concomitant Use of Sulfonylureas and Warfarin and the Risk of Severe Hypoglycemia: A Population-based Cohort Study [266]

Jenny Dimakos | Ying Cui | Robert Platt | Christel Renoux
Kristian Filion | Antonios Douros (*Canada*)

Program Schedule

Evaluating the Vaccines Against the Nasty Bugs: Safety First Round II – Room C1M1

1:30 PM

COVID-19 Vaccination During Pregnancy and Risk of Preterm Birth, Small-for-gestational-age Birth, and Stillbirth [271]

Deshayne Fell | Sheryll Dimanlig-Cruz | Annette Regan
Siri Haberg | Christopher Gravel | Laura Oakley
Gillian Alton | Tavleen Dhinsa (Canada)

1:45 PM

Risk of Myocarditis and Pericarditis Following BNT162b2 and mRNA-1273 COVID-19 Vaccination [272]

Nicola Klein | Kristin Goddard | Edwin Lewis
Bruce Fireman | Ousseny Zerbo | Thomas Boyce
Kayla Hansen | James Donahue (United States)

2:00 PM

COVID-19 Vaccination and Acute Neurological Events in England: A Self-controlled Case Series Using the OpenSAFELY Platform [273]

Anna Schultze | Jemma Walker | John Tazare
Arina Tamborska | Bhagteshwar Singh | Katherine Donegan
Julia Stowe | Caroline Morton (United Kingdom)

2:15 PM

Assessment of the Risk of Myocardial Infarction, Stroke, and Pulmonary Embolism Following Different COVID-19 Vaccines in Adults Under 75 Years of Age in France [274]

Stephane Le Vu | Jeremie Botton | Marie-Joëlle Jabagi
Marion Bertrand | Bérangère Baricault | Jérôme Drouin
Alain Weill | Paddy Farrington (France)

2:30 PM

Genetic Risk and Incident Venous Thromboembolism in Middle-aged and Older Adults Following COVID-19 Vaccination [275]

Junqing Xie | Victoria Y. Strauss | Albert Prats-Urbe
Dipender Gill | Roger Paredes | Daniel Prieto-Alhambra
(United Kingdom)

2:45 PM

mRNA COVID-19 Vaccination Early in Pregnancy and Risk of Spontaneous Abortion in an International Pregnancy Registry [276]

Omar Mansour | Diego Wyszynski
Sonia Hernandez-Diaz, FISPE (United States)

1:30 - 3:00 PM

LIGHTNING SESSION 3 – ROOM C1M2

Informatics

1:30 PM

The Impact of Electronic Health Record Discontinuity on Prediction Modeling [282]

Lily Bessette | Joshua Lin | Shreyas Kar | Richard Wyss
Aaron Kesselheim (United States)

1:35 PM

Target Fishing and Drug Repurposing for Pancreatic Ductal Adenocarcinoma: An Integrated Bioinformatic and Computational Approach [277]

Gouri Nair | Aina Shaju | Subeesh Kulangara Viswam (India)

1:40 PM

Using Network Analysis Modularity to Represent Health Code Systems in Machine Learning Models [281]

Mohsen Askar | Kristian Svendsen | Lars Småbrekke
Lars Ailo Bongo (Norway)

1:45 PM

Web and Social Media Listening Using AI/NLP for COVID-19 Vaccine Safety Monitoring [287]

Alena Khromava | Chathuri Daluwatte | Yuning Chen
Laurence Serradell | Anne-Laure Chabanon
Anthony Chan-Ou-Teung | Kiran Mahadeshwar
Cliona Molony (Canada)

1:50 PM

Informatics Panel Discussion

Disease Epidemiology

2:00 PM

Temporal Changes in Incidence of Acute Pyelonephritis: A 19-year Population-based Danish Cohort Study [278]

Lise Svingel | Christian Christiansen | Kirstine Søggaard
Henrik Birn | Mette Nørgaard (Denmark)

2:05 PM

Predicting Risks of Intracranial Bleeding in Older Adults with Atrial Fibrillation to Aid Prescribing Decisions [283]

Lily Bessette | Joshua Lin | Daniel Singer | Dae Kim
(United States)

MAIN CONFERENCE Program Schedule

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2:10 PM

Estimating the Incidence of Co-occurring Thrombosis and Thrombocytopenia in a Healthcare Database [279]

Yanfang Liu | Choo Hua Goh | Dereck Shen
Kuan-Chih Huang | Hong Qiu | Man Luo | Zhangjing Chen
Chao-Hsiun Tang (United States)

2:15 PM

Individualized Treatment Rule Identification in Heart Failure Patients Using Precision-medicine Methods [286]

Arti Virkud | Jessie Edwards | Michele Jonsson Funk, FISPE
Emily Gower | Michael Kosorok | Patricia Chang
Abhi Kshirsagar (United States)

2:20 PM

Disease Epidemiology Panel Discussion

Pregnancy and Lactation

2:30 PM

Exposure to Known or Suspected Teratogenic Drugs Prior to Conception in a Commercially Insured Population of Pregnant Women [284]

Ryan Seals | Alicynne Glazier-Essalmi | Florence Wang
(United States)

2:35 PM

Antibiotic Use in Early Pregnancy and Risk of Gestational Diabetes Mellitus: A Nationwide Cohort Study of 3 Million Pregnancies [285]

Yunha Noh | Eun-young Choi | Ahhyung Choi
Seung-Ah Choe | Ju-Young Shin (South Korea)

2:40 PM

Associations of Prenatal Depression and Selective Serotonin Reuptake Inhibitor (SSRI) Treatment with Early Child Development [280]

Lyndsay Avalos | Nerissa Nance | Ayesha Sujan
Kathryn Ridout | DeKun Li | Charles Quesenberry
Meghan Davignon | Lisa Croen (United States)

Program Schedule

2:45 PM

Associations of Prenatal Exposure to Non-steroidal Anti-inflammatory Drugs with Preterm Birth and Small-for-gestational Age Among Women with Autoimmune Disorders [463]

Erin Delker | Christina Chambers | Diana Johnson
Gretchen Bandoli (*United States*)

2:50 PM

Pregnancy and Lactation Panel Discussion

3:00 - 3:15 PM

BREAK/EXHIBITS/POSTERS - Hall C

3:15 - 4:45 PM

HOT TOPIC SESSION

How Can We Mitigate Publication of Poorly Conducted RWE Studies? Keynote Session – Congress Hall D4

The growing acceptance of RWE in clinical and regulatory decision-making as well as the increasing availability of healthcare data coupled with automated analytic approaches have contributed to a marked expansion of RWE studies. Commensurate with this, there has been increasing concern about inappropriate applications of RWE, violating causal inference principles with inappropriate use of data and methods. At the height of the 2020s COVID-19 pandemic, urgency for data elucidating the effects of various COVID-19 treatments may have created additional pressure to relax standards regarding the level and rigor of scientific review, resulting in "pandemic-related research waste", including two papers published in, and then retracted from, *NEJM* and *The Lancet*. This symposium will discuss ways that we as pharmacoepidemiologists can contribute to better governance of RWE studies, including appropriate study conduct, transparency, publication and peer review.

SPEAKERS

Almut Winterstein, FISPE

Distinguished Professor, University of Florida

Vera Ehrenstein, MPH, DSc, *Aarhus University*

Jeffrey Brown, PhD, *Chief Scientific Officer, TriNetX*

Til Stürmer, FISPE

*Nancy A. Dreyer Distinguished Professor and Chair,
University of North Carolina at Chapel Hill*

Meredith Smith, FISPE, *AstraZeneca*

4:45 - 5:30 PM

THE FINAL WORD – CONGRESS HALL D4

38th ICPE Awards

Anton Pottegård

Chair, ICPE 2022 Scientific Program Committee

Jesper Hallas, FISPE

Co-Chair, ICPE 2022 Scientific Program Committee

Review of Abstract Admission Categories

Newcomer Track

Moderator Subcommittee

Spotlight Poster Sessions

Spotlight Poster Awards

Wendy Camelo Castillo

Chair, Spotlight Poster Sessions

ADJOURNMENT OF THE ICPE 2022

Anton Pottegård

Chair, ICPE 2022 Scientific Program Committee

Jesper Hallas, FISPE

Co-Chair, ICPE 2022 Scientific Program Committee

5:45 - 6:45 PM

2023 SCIENTIFIC PROGRAM COMMITTEE – MEETING ROOM 20

Open to all attendees.

FUTURE MEETINGS

14th Asian Conference on Pharmacoepidemiology (ACPE)

Tainan, Taiwan | October 21-23, 2022

Soto Setoguchi

Program Chair

Mid-Year Meeting, Reykjavík

Iceland | April 23-25, 2023

Helga Gardarsdottir, FISPE

Program Chair

39th ICPE: Halifax

Nova Scotia, Canada | August 23-27, 2023

Robert Platt

Chair, ICPE 2023 Scientific Program Committee

Posters

G U I D E L I N E S

OVERVIEW

Poster sessions are intended to give presenters an opportunity to discuss informally their research with colleagues interested in their research. The purpose of the posters is to visually stimulate interest in the research, to present sufficient information for viewers to understand the methods, results, and significance of the research, and to promote conversations and networking among conference participants.

Neither ISPE nor the Bella Convention Center will be responsible for any material left on display overnight or is lost or damaged.

POSTER SESSIONS EXPLAINED

There are two separate and distinct Spotlight and General poster sessions each day at the Bella Convention Center. The Spotlight Poster Session is scheduled for **Hall E South**. The General Poster Session is scheduled for **Hall C**. Each day is allocated a Session and scheduled at the following times:

Session A: Friday, August 26 | 8 AM - 6 PM

Session B: Saturday, August 27 | 8 AM - 6 PM

Session C: Sunday, August 28 | 8 AM - 1:30 PM

SETUP/TAKE DOWN

7:00am-8:00am; all posters must be in place by 8:00am. The poster area must be cleared of tubes, obstacles, trip hazards, and other materials.

All posters for a specific day's session must be removed at the end the session, by 7:00pm on Friday and Saturday, and by 3:00pm on Sunday. Posters not removed by these times will be assumed to be abandoned and will be discarded.

DISCUSSION TIME

General Session

Presenting Authors must be at their posters at the following times for discussion:

Friday (Session A): 12:00 - 1:30 PM

Saturday (Session B): 11:30 AM - 1:00 PM

Sunday (Session C): 12:00 - 1:30 PM

Spotlight Poster

Presenting Authors must be at their posters at the following times for discussion:

Friday (Session A): 12:15 - 1:15 PM

Saturday (Session B): 11:45 AM - 12:45 PM

Sunday (Session C): 12:15 - 1:15 PM

Spotlight Sessions

Organized by ISPE Special Interest Groups (SIGs). Spotlight sessions showcase select posters and give presenters the opportunity to share and discuss their work with an audience. When the spotlight session chair and audience stop at your poster, please give a brief, 3-minute, presentation and be prepared to answer questions about your research.

Spotlight posters are organized in the following topic areas:

Friday (Session A)

Adherence | ASPEN | Biologics | BRACE
Cancer | Comparative Effectiveness Research

Saturday (Session B)

Databases | Digital Epidemiology | Drug Utilization Research
Drug-Drug Interaction | Genomics | Geriatrics

Sunday (Session C)

Health Equity | Medical Devices | Medications in Pregnancy and Lactation | Pediatrics | Rare Diseases | Vaccines

Spotlight Session Prizes

A group of judges will select the best posters of each Spotlight Session. The best presenters will receive an invitation to display their posters for the duration of the conference. The winners will be announced at The Final Word session on Sunday, August 28.

Numbering System

Each poster board will be numbered. Presenters should attach their posters to the board number corresponding to the number assigned to their poster listed in this program. The poster board number is the first number listed. The publication number, for use in locating abstracts in the program book, is listed after the abstract title.

Example

97 – Characteristics of Patients with Depression Who Initiate Antidepressant and Benzodiazepine Therapy Simultaneously, Compared with Antidepressant Monotherapy [176]

Greta A. Bushnell | Alice White | Til Stürmer | Bradley Gaynes
Virginia Pate | Deborah Azrael | Matthew Miller (United States)

Key: **97** – Poster Board Number [176] – Publication Number

Poster Session A

SPOTLIGHT POSTERS

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CANCER	65
COMPARATIVE EFFECTIVENESS RESEARCH (CER)	65

BENEFIT-RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE)	66
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PREGNANCY AND LACTATION	81
RARE DISEASE	85
SAFETY END POINTS	86

Poster Session A

FRIDAY, AUGUST 26 | 8 AM - 6 PM

SPOTLIGHT POSTERS

ADHERENCE

A – Primary Hydroxychloroquine Adherence in Lupus Pregnancy [291]

Julia F Simard | Emily F. Liu | Eliza Chakravarty
Amadeia Rector | Miranda Cantu | Daniel Kuo | Gary Shaw
Maurice Druzin | Michael Weisman | Monique Hedderson
(United States)

B – Impact of the COVID-19 Pandemic on Timeliness of Denosumab Dispensations: An Interrupted Time Series Analysis [292]

Anna M. Rzepka | Tara Gomes | Angela M. Cheung
Sandra Kim | Maha Chaudhry
Suzanne M. M. Cadarette (Canada)

C – Trends in Opioid New Users and Subsequent Long-Term Use Among Patients with Rheumatic and Musculoskeletal Diseases Between 2006-2020 [293]

Meghna Jani | Joyce (Yun-Ting) Huang | David A. Jenkins
Belay Yimer | Jose Benitez-Aurioles | Niels Peek
Mark Lunt | William Dixon (United Kingdom)

D – Changes in Medication Use Before and After Bariatric Surgery in Older Adults [294]

Scott M. Vouri | Ching-Yu Wang | Leonie Hochleitner
(United States)

E – Antidepressant Continuation and Adherence in Pregnancy and Risk of Antenatal Hospital Admission for Depression and/or Anxiety [295]

Angela Lupattelli | Anna Cantarutti | Giovanni Corrao,
Chiara Gatti (Norway)

F – ADHD Medication Use Trajectories Among Pregnant Women with ADHD in Norway and Sweden [296]

Chaitra Srinivas | Øystein Karlstad | Hein Stigum
Kari Furu | Carolyn Cesta | Johan Reutfors
Jacqueline Cohen (Norway)

ASPEN

G – Thiazide Diuretics and the Risk of Skin Cancer: A Meta-Analysis of Observational Studies [297]

Tien Hoang Tran | Seung-Kwon Myung
Thao Thi Kim Trinh (Vietnam)

H – Incidence and Prevalence of Prescription Opioid Use During Australian COVID-19 Restrictions [298]

Monica Jung | Dickson Lukose | Suzanne Nielsen
J. Simon Bell | Geoffrey Webb | Jenni Ilomaki (Australia)

I – Impact of Clinical Pharmacist Interventions on Patients' Quality of Life (QoL) and Influencing Risk Factors Associated with Poor QoL in Systemic Lupus Erythematosus Disorder Patients [299]

Sujit Kumar Sah | Ramesh Madhan
Subramanian Ramaswamy (India)

J – Economic Evaluation of Sacubitril/Valsartan for the Treatment of Chronic Heart Failure with Reduced Ejection Fraction (HFrEF) in Indonesia [300]

Erna Kristin | Dwi - Endarti | Ratih Puspita Febrinasari
Dwi Aris Agung Nugrahaningsih | Woro Rukmi Pratiwi
Sudi Indrajaya (Indonesia)

K – Risk of Mortality with Early-Stage Nonadherence to the Regimen in Patients with Drug-Susceptible Tuberculosis: A Nationwide Linkage Database [301]

Hyesung Lee | Sungho Bea | Ju Hwan Kim | Bin Hong
Ju-Young Shin (Republic of Korea)

L – Comparative Cardiovascular Events Associated with Denosumab vs Zoledronate in The Elderly: A 5-Year Follow-Up Propensity Score Matching Cohort [302]

Kaicheng Chang | Fang-Yi Li | Shih-Chieh Shao
Hui-Yu Chen (Taiwan)

Poster Session A

M – Association of Sacubitril/Valsartan with Hypoacusis Unveiled Through Disproportionality Analysis in US FDA Adverse Event Reporting System (FAERS) [303]

Pudi Chiranjeevi | Saraswathy G. R.
Subeesh Kulangara Viswam | Ann Mary Swaroop (India)

N – Triazole Anti-fungals Associated with Acute Pancreatitis: A Disproportionality Analysis in a Spontaneous Reporting Database [304]

Lipin Lukose | Aina Shaju | Mohammed Asif
Subeesh Kulangara Viswam (India)

BIOLOGICS

O – Depression, Anxiety and Adjustment Disorder Among Patients with Psoriasis Receiving Systemic Agents: A Retrospective Cohort Study in Quebec, Canada [305]

Raymond Milan | Jacques Lelorier | Marie-Josée Brouillette
Anne Holbrook | Ivan V. Litvinov | Elham Rahme (Canada)

P – Inpatient Constipation Among Migraine Patients Treated with Preventive Medications in a United States Electronic Health Record Database [306]

Andrea K. Chomistek | Veena Hoffman | Karminder Gill
Robert Urman | Stephen M. Ezzy | Li Zhou | Andrew Park
Brett Loop | Sandra Lopez-Leon | Peter Mcallister
Florence Wang (United States)

Q – Effect Modification by Indications to the Risks of Major Thromboembolic Adverse Events in Patients Receiving Intravitreal Anti-Vascular Endothelial Growth Factor Treatment – A Population-based Retrospective Cohort Study [307]

Wanju Annabelle Lee | Shih-Chieh Shao | Tzu-Chi Liao
Swu-Jane Lin | Chi-Chun Lai | Edward Lai (Taiwan)

R – Mandatory Non-Medical Switching Policy from Originator to Biosimilar Infliximab in Patients with Inflammatory Bowel Disease in British Columbia: A Cohort Study [308]

Anat Fisher | Jason D. Kim | Colin Dormuth (Canada)

S – TNF-Alpha Inhibitors Biosimilar Use in France: A 207,118 Patients Longitudinal Study [309]

Hugo Jourdain | Mahmoud Zureik | Léa Hoisnard
Emilie Sbidian (France)

T – Predictors of Treatment Changes in Patients with Rheumatoid Arthritis Using Machine Learning [310]

Alexander Liede | Whitney Krueger | Linyan Li
Yuhang Liu | Yi Pan | Michelle Brauer | Seoyoung Kim
Earl Steinberg (Ireland)

U – Drug Utilization of Biologic Therapy in Crohn's Disease and Ulcerative Colitis: A Population-based Danish Cohort Study 2015-2020 [311]

Kristoffer Jarlov Jensen | Camilla B. Jensen
Christina Wennerström | Kari Stougaard Jacobsen
Johan Burisch | Janne Petersen (Denmark)

BENEFIT-RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE)

V – Regulatory Benefit-Risk Assessment of Oncology Drugs: A Systematic Review of FDA and EMA Approvals [312]

Tommi Tervonen | Cathy Anne Pinto | Maria E. Dudek
Shahrul Mt-Isa | Xinyue Liu | Oswaldo Bracco
Zaneta Balantac | Harrison Clarke (United Kingdom)

W – Benefit Risk Contextualisation of COVID-19 Vaccines in the EU [313]

Xavier Kurz | Catherine Cohet | Chantal Quinten
Geert Molenberghs | Niel Hens | Steven Abrams
Lander Willem | Jonas Crevecoeur | Neilshan Loedy
Johan Verbeeck (Netherlands)

X – Structured Benefit-Risk for Enoxaparin Based on Real-World Evidence Data in the Context of Its Label Extension for Treatment of Deep Vein Thrombosis and Pulmonary Embolism and Prevention of Its Recurrence in Active Cancer Patients [314]

Marie-Laure Kürzinger | Chantal El-Haddad
Tatiana Gouin-Soboleva | Zita Fazekas | Denis Granados
Elizabeth Benito Garcia | Yasmina Djoudi (France)

Y – An Approach to Personalized Assessment of Drug Efficacy Using Likelihood Ratios [315]

Colin Dormuth (Canada)

Poster Session A

CANCER

Z – Incidence of Opportunistic Infections Among Patients with Multiple Myeloma: Real-World Evidence from a Large US National Claims Database [316]

Alexi Archambault | Martha Makaratz | Karen Rodriguez Lorenc | Glenn Kroog | Christian Hampf
(United States)

AA – Proton Pump Inhibitors and Colorectal Cancer Mortality: A Population-based Nationwide Cohort Study [317]

Jannik Wheler | Deirdre Cronin-Fenton | Anders Kjærsgaard
Timothy Lash | Rune Erichsen | Veronika Fedirko (Denmark)

AB – Risk of Venous Thromboembolism Events in Prostate Cancer Patients [318]

Lu Wang | Mitchell M. Conover | James Weaver
J. Kellogg Parsons | Sabine D. Brookman-May | Dina Gifkins
(United States)

AC – 5-Alpha Reductase Inhibitor Use and Risk of Kidney and Bladder Cancer in Men with Benign Prostatic Hyperplasia: A Population-based Cohort Study [319]

Niamh Doherty | Christopher Cardwell | Peter Murchie
Christopher Hill | Laurent Azoulay | Blánaid Hicks
(United Kingdom)

AD – Effects of Endocrine Therapy on Cardiovascular Diseases and Type 2 Diabetes Among Breast Cancer Patients: The National Health Insurance Service Database of Korea [320]

Ji-Eun Kim | Jaseung Choi | Jooyong Park | Wonshik Han
Daehee Kang | Ji-Yeob Choi (South Korea)

AE – Use of Selective Serotonin Reuptake Inhibitors (SSRI) and Risk of Breast Cancer [321]

Tomas Log | Marit Waaseth (Norway)

AF – Hypothesis-Free Screening for Carcinogenic Effects of Drugs [322]

Anton Pottegård | Kasper Bruun Kristensen | Søren Friis
Lars Christian Lund | Jesper Hallas | Christopher Cardwell
Bettina K. Andreassen | Laurel A. Habel (Denmark)

AG – Mineralocorticoid Receptor Antagonists and Prostate Cancer Risk in Patients with Heart Failure [323]

Chengsheng Ju | Wallis Lau | Li Wei (United Kingdom)

COMPARATIVE EFFECTIVENESS RESEARCH (CER)

AH – Antipsychotic Polytherapy Versus Monotherapy in Specific Dose Categories in the Maintenance Treatment of Schizophrenia [324]

Heidi Taipale | Antti Taskanen | Jari Tiihonen (Finland)

AI – Comparative Risk of Opioid Overdose with Concomitant Use of Prescription Opioids and Skeletal Muscle Relaxants [325]

Nazleen Khan | Katsiaryna Bykov | Michael Barnett
Robert Glynn | Seanna Vine | Joshua J. Gagne (United States)

AJ – Association of Mortality by Statin Intensity in Chronic Liver Disease Patients with Atherosclerotic Cardiovascular Disease: A Nationwide Cohort Study [326]

Sungho Bea | In-Sun Oh | Ju Hwan Kim | Dong Hyun Sinn
Yoosoo Chang | Seungho Ryu | Ju-Young Shin
(Republic of Korea)

AK – Macrolide Treatment Failure Due to Drug-Drug Interactions: Real-World Evidence to Evaluate a Pharmacological Hypothesis [327]

Brian Cicali | Stephan Schmidt | Markus Zeitlinger
Joshua Brown (United States)

AL – Real World Effects of Oral Anticoagulants in AF: A Cohort Study with Validation Against Results from a Randomised Controlled Trial [328]

Emma M L Powell | Ian Douglas | Kevin Wing
Usha Gungabissoon | Liam Smeeth (United Kingdom)

AM – Comparative Effectiveness of Ticagrelor, Prasugrel, and Clopidogrel for Secondary Prophylaxis in Acute Coronary Syndrome [329]

Joel F. Farley | Arun Kumar | Pamela Lutsey
Wendy St. Peter | Jon Schommer | Jeremy Van'T Hof
Abhijeet Rajpurohit (United States)

AN – Real-World Evidence for the Effectiveness of Vitamin D Supplementation in the Reduction of Total and Cause-specific Mortality. Results from Half a Million Participants of the UK Biobank Cohort Study [330]

Sha Sha | Hermann Brenner | Ben Schoettker
Thi Mai Ngoc Nguyen | Sabine Kuznia | Tobias Niedermaier
Anna Zhu (Germany)

AO – A Real-World Assessment of Sex Differences in the Comparative Safety and Effectiveness of Direct-Acting Oral Anticoagulants Versus Warfarin [331]

Meijia Shao | Ai Ni | Macarius Donneyong (United States)

Poster Session A

BENEFIT-RISK ASSESSMENT, COMMUNICATION, AND EVALUATION (BRACE) —

1 – Pharmacoevidence and Benefit/Risk Management Strategies in Clinical Trials with Cell-based Combination Products [332]

Marina A. Malikova (*United States*)

2 – Application of The BRACE Framework for Benefit-Risk Assessment, Communication, and Evaluation of Pexidartinib [333]

Eric Wang | Charles Dharmani | Maribel Salas (*United States*)

3 – Estimates of Dietary Exposure to Antibiotics Among a Community Population in East China [334]

Yingying Wang | Yurong Li | Jinxin Zang | Xiaolian Dong | Bingbing Zhu | Na Wang | Lufang Jiang, | Feng Jiang | Xinping Zhao | Qingwu Jiang | Chaowei Fu (*China*)

4 – Evaluation of Consumers' Knowledge, Beliefs and Risk Assessment Regarding Protein [335]

Paraskevi Basdeki | Eirini-Georgia Deligiannidou | Diamanto Lazari | Christos Kontogiorgis (*Greece*)

5 – Guidance for Pediatric Use in Prescription Information for Novel Medicinal Products in the EU and the US [336]

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Poster Session A

228 – Characteristics of Linked and Unlinked Mother-infant in the Healthcare Integrated Research Database [559]

Aziza Jamal-Allial | Maria Guzman | Christopher L. Crowe
Kerrin Gallagher | Brett Doherty | Sarah Hoffman
Ramya Avula | Geetika Kalloo | Biruk Eshete (*United States*)

229 – Impact of COVID-19 on Obstetric and Gynecologic Healthcare Utilization in a Large US-claims Database [560]

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Brett Doherty | Kerrin Gallagher | Aziza Jamal-Allial
Geetika Kalloo (*United States*)

230 – Design Considerations for Using the Tree-based Scan Statistic in Surveillance of Maternal Outcomes Following Medication Use During Pregnancy [561]

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Danijela Stojanovic | Jane Liedtka | Abby F. Anderson
Di Zhang | Yueqin Zhao | Monica Munoz | Wei Liu
Inna Dashevsky | Talia Menzin | Elizabeth Messenger-Jones
Elizabeth Siranosian | Judith Maro (*United States*)

231 – Distribution of Gestational Age by Maternal and Infant Characteristics in US Birth Certificate Data: Toward Informing Gestational Age Assumptions When Clinical Estimates are Not Available [562]

Andrea Margulis | Brian Calingaert | Alison Tse Kawa
Elena Rivero-Ferrer | Mary Anthony (*Spain*)

232 – Trends in Antiemetic Medication Use in Pregnancy in An Integrated Health System in the US, 2010–2021 [563]

Sascha Dublin | Paige D. Wartko | Umesh Singh
Anna Howe | Susan Shortreed | Stephanie D'souza
Sharon Fuller | Rita M. Mangione-Smith (*United States*)

233 – COVID-19 Disease and Medications in Pregnancy: Pooled Analysis of International Network of Obstetric Survey Systems (INOSS) Population-based Studies [564]

Odette De Bruin | Hilde Engjom | Nicola Vousden
Marian Knight | Serena Donati | Miriam Sturkenboom
Kitty Wm Bloemenkamp (*Netherlands*)

234 – Characteristics of Women with COVID-19 During Pregnancy in a US Health Insurance Claims Database [565]

Laura A. Yochum | Katherine C. Hughes | Michael Miller
Michael C. Doherty | Ritika Pandey | Robert Gately
Monica Bertoia (*United States*)

235 – Dilemma of Belimumab Therapy (Dis) Continuation During Pregnancy: Results of a Retrospective Study in EudraVigilance [566]

Nafise Ghalandari | Hubertina Johanna Maria Josephina Crijns
Radboud Dolhain | Mieke Hazes | Eugene Van Puijenbroek
(*Netherlands*)

236 – Reported Congenital Malformations After Exposure to Non-TNF-A Inhibitors: A Retrospective Comparative Study in EudraVigilance Database [567]

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Jorieke Bergman | Radboud Dolhain
Eugene Van Puijenbroek | Mieke Hazes (*Netherlands*)

237 – A Landscape Analysis of Post-marketing Studies Registered in EU PAS Register and Clinicaltrials.gov Focusing on Pregnancy Outcomes or Breastfeeding Effects: A Contribution from the ConcePTION Project [568]

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Deborah Layton | Georgios Poulentzas
Panagiotis Nikolaos Lalagkas | Christos Kontogiorgis
Miriam Sturkenboom (*United Kingdom*)

238 – Uses of Antiepileptic Drugs Among Pregnant Women with Epilepsy and Risk of Adverse Obstetric Outcomes; A Group-based Trajectory Analysis [569]

Yi-Chin Lin | Chih-Wan Lin | Shih-Tsung Huang
Fei-Yuan Hsiao (*Taiwan*)

239 – Maternal and Infant Morbidity in Relation to Caesarean Section in a Large Commercially Insured Population in the US in 2019 and 2020 [570]

Brett Doherty | Stephanie A. Lynch | Aneesh Naavaal
Chrissie Li | Kimberly Cole | Leslie Macphee
Leslie Banning | Anup Sharma | Michael Grabner
Eric Stanek | Tiffany Inglis (*United States*)

240 – Congenital Malformations Among Offspring of Women with Type 1 Diabetes Using Insulin Pump: A Prospective Cohort Study [571]

Ida H. Thorius, Lise Lotte N Husemoen | Rikke B. Nordsborg
Amra C. Alibegovic | Mari-Anne Gall | Janne Petersen
Elisabeth Mathiesen (*Denmark*)

241 – Proton Pump Inhibitors Use and Risk of Preeclampsia: A Meta-Analysis of Pharmacoepidemiological Studies [572]

Mohammad Salman Hussain | Ambrish Singh | Benny Antony
Jitka Klugarova | M. Hassan Murad | Aarthi S. Jayraj
Alena Langaufová | Miloslav Klugar (*Czech Republic*)

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242 – Levothyroxine Use and the Risk of Pregnancy Loss Among Pregnant Women with Subclinical Hypothyroidism: An Observational Study Emulating a Target Trial [573]

Sonia M. Grandi | Ya-Hui Yu | Pauline Reynier | Robert Platt
Oriana Hoi Yun Yu | Kristian Filion (Canada)

243 – Antidepressant Use Patterns During Pregnancy and Birth Outcomes Among Pre-conception Antidepressant Users [574]

Lyndsay Avalos | Nerissa Nance | Sylvia E Badon
Kathryn Ridout | Jennifer Ahern | Dekun Li
Charles Quesenberry (United States)

244 – Neonatal and Maternal Outcomes Following Exposure to Non-Steroidal Anti-Inflammatory Drugs During Early Pregnancy: A Nationwide Cohort Study [575]

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Ahhyung Choi | Dong Keon Yon | Ju-Young Shin (South Korea)

245 – Characterization of Pregnancy Data Reported by Health Care Professionals Versus Patients in International Case Safety Reports – A ConcePTION Study [576]

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Eugene Van Puijenbroek (Netherlands)

246 – Vaccination Use Among Pregnant Women 2016-2021: An Analysis Using Healthcare Claims [577]

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Charles Coombs (United States)

247 – Adverse Fetal Outcomes Associated with Gabapentin Use in Pregnancy: A Population-based Cohort Study and Meta-Analysis [578]

Brianne Desrochers | Alekhya Lavu | Eunice Valencia
Christine Vaccar | Sherif Eltonsy (Canada)

248 – Adverse Birth Outcomes Associated with Drug Use in Pregnancy at a Referral Teaching Hospital in Kenya [579]

Nelly Muthee | Margaret N. Oluka | Faith A. Okalebo
(United States)

249 – Use of Selective Serotonin Reuptake Inhibitors During Pregnancy and the Risk of Child's Neurodevelopmental Disorders [580]

Guy Amit | Chen Yanover | Maytal Bivas-Benita
Irena Girshovitz | Pinchas Akiva | Tal Helbitz
Vered Bar (Israel)

250 – Impact of COVID-19 on Pregnancy Complications and Outcomes in the Healthcare Integrated Research Database [581]

Geetika Kalloo | Maria Guzman | Christopher L. Crowe
Brett Doherty | Kerrin Gallagher | Aziza Jamal-Allial
Sarah Hoffman (United States)

251 – Utilization of Biologics Before, During and After Pregnancy Among Patients with Autoimmune Conditions [582]

Celeste Ewig | Nicole Smolinski | Yanning Wang
Thuy Thai | Amir Sarayani | Sebastian Jugl
Sonja Rasmussen | Almut Winterstein (United States)

RARE DISEASE

252 – Sarcoidosis in Patients After Solid Organ Transplantation Treated with mTOR Inhibitors Versus Calcineurin Inhibitors [583]

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Henrik Toft Sørensen | Erzsebet Horvath-Puho (Denmark)

253 – The Burden of AADC Deficiency on Patients, Caregivers, and Healthcare Systems: A Systematic Literature Review [584]

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Kasia Szczepanska | Gregory Fuest | Alexis Russell (Denmark)

254 – Epidemiology of Palmoplantar Pustulosis in Urban China and a Systematic Review [585]

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Phillippe Gustovic | Wei Jiang | Jeff Szer (United States)

256 – Treatment Patterns for Depression and Anxiety Among Patients with Progressive Supranuclear Palsy (PSP) [587]

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Nelson Pace (United States)

257 – Predictors of Loss of Ambulation in Duchenne Muscular Dystrophy: A Literature Review [588]

Anne Broe | Katharina Buesch | Nermina Ferizovic
Erik Landfeldt (Denmark)

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258 – Prevalence of Postural Orthostatic Tachycardia Syndrome (POTS) in the US [589]

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Scott Mellis | Mohamed Hussein (United States)

259 – Marketing Authorisation Pathways and Clinical Evidence Supporting Approval of Orphan Medicinal Products in EU Between January 2015 and October 2021 [590]

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Ertugrul Corap (Denmark)

260 – The Development of a Conceptual Model to Describe the Health-related Quality of Life Impacts of Living with Friedreich Ataxia [591]

Christina Qian | Katharina Buesch | Andrea Bever
Jessica Dunne | Shelagh Szabo (Canada)

261 – Outcome Measures Relevant for Assessing Health Related Quality of Life and Utility in Friedreich Ataxia [592]

Christina Qian | Katharina Buesch | Tina Li | Andrea Bever
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262 – Frequency of Sleep Disorders and Insomnia in Patients with Wilson Disease Identified in Electronic Health Records [593]

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(United States)

263 – Clinical Evaluation of Code-based Algorithms to Identify Pulmonary Arterial Hypertension Patients in Coded Healthcare Databases [594]

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Monika Brand | Roham T. Zamanian (Switzerland)

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Jayeta Chakrabarti | Keith Wilner | Cynthia De Luise
Patrick J. Arena (United States)

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266 – The Effect of Antibiotics Prescription and Length of Hospitalization on Mortality in Patients with Sepsis [597]

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267 – Effect of Cardiovascular Disease and Diuretic Use on Amputation Risk with Sodium-Glucose Cotransporter 2 Inhibitors in Patients with Type 2 Diabetes [598]

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268 – Is Statin Use Associated with an Increased Risk of Adrenal Insufficiency? A Nested Matched Case-control Study [599]

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Fabrice Jollant | Emilie Hucteau | Papa-Yatma Diop
Antoine Pariente | Emmanuel Oger (France)

270 – Real-World Safety of Factor Xa Inhibitors and Warfarin in Obese and Morbidly Obese Nonvalvular Atrial Fibrillation (NVAf) Patients Using a University Health Center Electronic Medical Record Database in the United States (US) [601]

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Diego F. Cuadros | Alex C. Lin | Jeff J. Guo (United States)

271 – Comparative Safety of Beta-Blocker and Calcium Channel Blockers in Patients with Chronic Obstructive Pulmonary Disease and Atrial Fibrillation: A National Population Cohort Study in Taiwan [602]

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Ching-Lan Cheng (Taiwan)

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Li Wei | Ruth Brauer (*United Kingdom*)

273 – Risk of Clostridium Difficile Infection Associated with Used of Proton Pump Inhibitors and Histamine-2 Receptor Antagonists in Taiwan Hospitalized Patients [604]

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274 – A Study of Statins and the Risk of Venous Thromboembolism [605]

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Howard J. Cabral (*United States*)

275 – Evaluation of a Web-based Application Monitoring Thiopurine Therapy in the Veterans Health Administration (VHA) [606]

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Francesca Cunningham (*United States*)

276 – Use of Sodium-Glucose Cotransporter-2 Inhibitors (SGLT2i) and Risk of Parkinson's Disease [607]

Miyuki Hsing-Chun Hsieh | Edward Lai (*Taiwan*)

277 – "Take Up to Eight Tablets Per Day": The Impact of Incorporating the Uncertainty of Free-text Medication Instructions for Drug Exposure Data Preparation [608]

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Goran Nenadic | William Dixon (*United Kingdom*)

278 – Diabetes Mellitus, Antidiabetic Use and the Risk of Treated Depression in the UK [609]

Claudia Becker | Delia Bornand | Susan Jick
Christoph Meier (*Switzerland*)

279 – Use of Oral Contraceptives or Hormone Therapy and Risk of COVID-19 Infection or Hospitalization: A Multisite Cohort Study [610]

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Elizabeth Bayliss | Stephen Fortmann | Susan Shortreed
Rod Walker | James Floyd | Jennifer Kuntz | Sharon Fuller
Ladia Albertson-Junkans | Mi Lee
Lisa Temposky (*United States*)

280 – Warfarin and Sulfonylureas in Individuals with Type 2 Diabetes and Risk of Bleeding: A UK Population-based Cohort Study [611]

Hassan Hasan Alwafi | Abdallah Naser (*Saudi Arabia*)

281 – Leuprolide and Fracture Risk in Patients with Central Precocious Puberty [612]

Yandong Qiang | Talia Menzin | Christian Hampp
Hye Seung Lee | Shannon Sullivan | Yueqin Zhao
Ting-Ying Huang (*United States*)

282 – Aromatase Inhibitors and the Incidence of Parkinson's Disease: Population-based Cohort Study [613]

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Laurent Azoulay | Jean-Louis Montrastruc
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283 – Association Between Concomitant Use of Direct Oral Anticoagulants and Statins and Major Bleeding in Patients with Non-valvular Atrial Fibrillation [614]

Airam De Burgos Gonzalez | Lucía Cea Soriano
Consuelo Huerta (*Spain*)

284 – Evaluate the Risk of Cardiovascular Event in Rheumatoid Arthritis Patient Receiving Tofacitinib and TNF Inhibitors in Taiwan [615]

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285 – Associations of Thiazide Use with Skin Cancers: A Systematic Review and Meta-Analysis [616]

Yi-Hung Chen | Shih-Chieh Shao | Edward Lai
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286 – Risk of Adverse Events Associated with Novel Oral Anticoagulant (Apixaban): A Systematic Review and Meta-Analysis [617]

Amar Ashok Maske | Christy Thomas
Krishna Undela (*India*)

287 – A Replication of the Incidence Rate Estimates of Selected Adverse Events of Special Interest (AESIs) from the vACCine COVID-19 monitoring readinESS (ACCESS) in the EU with US Real World Data [618]

Stephen Schachterle | Ling Li | Rongjun Shen
Charles Wentworth | Jill Dreyfus | Scott Kelly
Ann Madsen | Xiaofeng Zhou (*United States*)

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288 – Cardiovascular Efficacy and Safety of Incretin Mimetics and Sodium-Glucose Co-Transporter 2 Inhibitors as Add-on to Metformin Monotherapy in Patients with Type 2 Diabetes Mellitus: A Systematic Review and Meta-Analysis of RCTs [619]
Gifty Lawrance | Christy Thomas | Krishna Undela (*India*)

289 – To Use Antipsychotics or Not to Use Antipsychotics? A Population-based Nested Case-control Study in Patients with Hospital-acquired Delirium After Discharge [620]
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290 – Risk of Intentional Self Harm and Suicide Among 5-Alpha Reductase Inhibitor Users and Alpha-Blocker Users [621]
Sandia Akhtar | Dinci Pennap | Adebola Ajao | Elena Boley Sai Dharmarajan | Kushal Naik | Natasha Flowers Michael Wernecke | Jeffrey Kelman | Andrew Mosholder David Graham | Thomas E. Macurdy (*United States*)

291 – Acute Myocardial Infarction, Stroke, and MACE in COPD Patients Treated with Acclidinium and Other Inhaled Bronchodilators [622]
Nuria Saigi-Morgui | Cristina Rebordosa | Estel Plana Annalisa Rubino | Jaume Aguado | David Martinez Alejandra Lei | Sami Daoud | Peter McMahon Susana Perez-Gutthann | Elena Rivero-Ferrer (*Spain*)

292 – Atypical Antipsychotic Use and Mortality Risk in Parkinson's Disease [623]
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293 – Opioid-Induced Nausea – A Population-based Active-comparator Symmetry Analysis [624]
Daniel Henriksen | Kamilla Caspersen | Lars Christian Lund Per Damkier | Jesper Hallas (*Denmark*)

294 – Association Between Initiation of Medical Therapy and Hypo- or Hyperthyroidism – A Population-based Symmetry Analysis Screening Study [625]
Daniel Henriksen | Lars Folkestad | Sara Ali | Per Damkier Jesper Hallas (*Denmark*)

295 – Exposure to Tricyclic and Selective Serotonin Reuptake Inhibitor Antidepressants and the Risk of Hip Fracture: An Updated US-based Case-control Study [626]
Caitlin Dodd | Sara Burns | April Duddy Marten Van Den Berg | Tiffany Siu Woodworth (*United States*)

296 – Risk of Cardiovascular Events in Patients with Rheumatoid Arthritis Treated with Tofacitinib vs Select TNF Inhibitors: Assessing the Concordance of Trial Findings Using Real-World Data [627]
Gulce Askin | Amanda Kong | Julia Pitino Dionna Attinson | Tancy Zhang | Jennifer Polinski Ryan Kilpatrick | Dongmu Zhang | Whitney Krueger (*United States*)

297 – Flecainide and Risk of Skin Cancer: A Large Population-based Case-control Study in Spain and Denmark [628]
Carlen Reyes | Luz Maria M. León-Muñoz Andrea Pistillo | Sigrún Alba Jóhannesdóttir Schmidt Kasper Bruun Kristensen | Anton Pottegård Consuelo Huerta | Talita Duarte-Salles Diana Puente (*Spain*)

298 – Predicting Individual Risk of Muscle Disorders in Patients Eligible for Statin Treatment: Derivation and External Validation of STRATIFY-StatinMD Prediction Model [629]
Ting Cai | Constantinos Koshariaris | Jennifer A. Hirst F. D. Richard Hobbs | James P. Sheppard (*United Kingdom*)

299 – Identifying Hospitalizations for Heart Failure in Healthcare Databases: Algorithm Development and Validation [630]
Yu-Ru Liu | Chih-Fan Yeh | Tsung-Yu Ko | Chi-Chuan Wang Fang-Ju Lin (*Taiwan*)

300 – Peptidomimetic Structure of Dipeptidyl Peptidase-4 Inhibitors and the Risk of Sulfonylurea-induced Severe Hypoglycemia: A Population-based Cohort Study [631]
Jenny Dimakos | Ying Cui | Robert Platt | Christel Renoux Kristian Fillion | Antonios Douros (*Canada*)

301 – Buprenorphine and Tramadol Prescriptions in Major Depressive Disorder Settings [632]
Onyekachukwu Illoh | Eberchukwu Onukwughra Julia F. Slejko (*United States*)

302 – Risk of Malignancy in Patients with Rheumatoid Arthritis Treated with Tofacitinib vs Select TNF Inhibitors: Assessing the Concordance of Trial Findings Using Real-World Data [633]
Gulce Askin | Amanda Kong | Julia Pitino | Dionna Attinson Tancy Zhang | Jennifer Polinski | Ryan Kilpatrick Dongmu Zhang | Whitney Krueger (*United States*)

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SATURDAY, AUGUST 27 | 8 AM - 6 PM

SPOTLIGHT POSTERS

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A – Identification and Classification of Asthma Patients Using a Computerized Database - Data from a Large Israeli Health Maintenance Organization [634]

Vered Rosenberg | Gabriel Chodick | Neville Berkman (*Israel*)

B – Quality of Life in Patients with Post-COVID-19 Syndrome: Combining Data from Electronic Health Records and Questionnaires [635]

Rinske Van Den Hoek | Karin Hek, Eelko Hak | Isabelle Bos
Lisa Bosman | Robert Verheij | Tim Olde Hartman
Lilian Peters | Jean Muris | Sjoukje Van Der Bij
Liset Van Dijk (*Netherlands*)

C – The Impact of COVID-19 on Population-level Drug Utilisation of Alendronate in Five European Databases [637]

Eng Hooi (Cheryl) Tan | Danielle E Robinson
Annika Joedicke | Maria Sanchez-Santos | Mees Mosseveld
Katrine Bødkergaard Nielsen | Carlen Reyes
Annemarie Voss | Ettore Marconi | Francesco Lapi
Jonas Reinold | Katia M Verhamme | Lars Pedersen
Marcel De Wilde | Marc Far Ruiz | María Aragón
Pauline Bosco-Levy | Régis Lassalle
Daniel Prieto-Alhambra (*United Kingdom*)

D – The Impact of Longitudinal Data-completeness of Electronic Health Record (EHR) Data on Prediction Performance of Clinical Risk Scores [662]

Joshua Lin | Yinzhu Jin | Sebastian Schneeweiss
Dave Merola (*United States*)

E – Changes in Sensitivity and Positive Predictive Value in Phenotype Algorithms for Myocardial Infarction and Ischemic Stroke Over Time in Multiple Observational Databases [663]

Joel N Swerdel | Patrick Ryan (*United States*)

F – Time Trends in Performance of Different Mortality Data Sources Compared to the National Death Index in the Healthcare Integrated Research Database [664]

Todd Sponholtz | Aziza Jamal-Allial | Shiva K Vojjala
Anahit Papazian | Biruk Eshete | Seyed Hamidreza
Mahmoudpour | Patrice Verpillat | Daniel Beachler
(*United States*)

G – Selection of Censoring Schemes for Analyzing Overall Survival in Real-World Data with Linked Mortality Information [665]

Wei-Chun Hsu | Aaron Crowley | Susan Oliveria
Craig Parzynski (*United States*)

H – Concordance of Efficacy Data Collected in a Clinical Trial Setting Versus a Registry Study Setting: Example of Use of Real-World Data to Support Drug Regulatory Approval of Abatacept for Acute Graft Versus Host Disease Prophylaxis [666]

Christopher Bond | Tzuyung Douglas Kou | Leslie Kean
Linda J. Burns | Karissa Lozenski | Roxanne Kapikian
Xiao-Ying Tang | Mei-Jie Zhang | Michael Hemmer
Sean Connolly | Martin Polinsky | Brian Gavin
Andres Gomez | Marcelo Pasquini (*United States*)

DIGITAL EPIDEMIOLOGY

I – New Tools for Pharmacoepidemiological Studies: Developing a Lightweight Modular Analytics Framework Based on a Nordic Common Data Model (NCDM) and a General Model of Person-Time-Event Data [659]

Morten Andersen | Reeha Sharon | Sarah Kristiansen
Mia Aakjær (*Denmark*)

J – Machine Learning to Automate Data Extraction for Systematic Literature Reviews [660]

Antonia Panayi | Juan M Ortiz | Katherine Ward | Antonio
Santiago Ibanez Lopez | Andrew Xia | Regina Barzilay
(*Switzerland*)

Poster Session B

K – Predicting Early Readmission and Death After Hospitalization for Chronic Obstructive Pulmonary Disease Exacerbation Using Machine Learning [661]

Chih-Ying Wu | Chien-Ning Hsu | Charlotte Wang
Jung-Yien Chien | Chi-Chuan Wang | Fang-Ju Lin (Taiwan)

L – Identifying Protective Drugs for Parkinson's Disease: Large Screening of The French National Healthcare Database with Signal Detection Machine Learning Algorithms [670]

Émeline Courtois | Thi Thu Ha Nguyen | Agnès Fournier
Sylvie Escolano | Laure Carcaillon-Bentata
Pascale Tubert-Bitter | Alexis Elbaz | Anne Thiébaud
Ismail Ahmed (France)

M – Development of a Tool for Visualizing Patient Journeys Using Disease Blogs on the Internet [671]

Shinichi Matsuda | Takumi Ohtomo | Masaru Okuyama
Hiraku Miyake (Japan)

DRUG UTILIZATION RESEARCH

N – Respiratory Drugs and Antibiotics Use Before and During COVID-19 in Asthma and COPD Patients: A Quasi-Experimental Study [638]

Laila Nabil Mahmoud Helmy Aboulatta | Emily M. Barr
Christine Leong | Kaarina Kowalec | Joseph Delaney
Jamie Falk | Silvia Alessi-Severini | Sherif Eltonsy (Canada)

O – Variation in The Impact of a Policy to Restrict Coverage of Lidocaine 5% Plasters in Ireland [639]

Frank Moriarty | Molly Mattsson (Ireland)

P – In-Hospital Treatment Patterns Among Patients Hospitalized with COVID-19 in the United States [640]

Nuvan Rathnayaka | Catherine Wiener | Alexander Breskin
Angela Cook | M. Alan Brookhart (United States)

Q – Utilization of Antipsychotics for Delirium After Hospitalization for COVID-19 and Other Infections [641]

Lily Bessette | Yichi Zhang | Cassandra York | Joshua Lin
(United States)

R – Agreement and Correlation Between Different Topical Corticosteroid Potency Classification Systems [642]

Mina Tadrous | Alexa C Bowie | Alexander Egeberg
Jane Harvey | Stephanie Lax | Jacob Thyssen
Aaron M. Drucker (Canada)

S – Use of Methotrexate in Girls and Women of Childbearing Age and Occurrence of Methotrexate-Exposed Pregnancies in Germany [643]

Nadine Wentzell | Bianca Kollhorst | Ulrike Haug (Germany)

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

Courtney Maierhofer | Shabbar Ranapurwala
Bethany Diprete | Naoko Fulcher | Christopher Ringwalt
Paul Chelminski | Timothy Ives | Nabarun Dasgupta
Vivian Go | Brian Pence (United States)

U – Statin-Related Adverse Drug Reactions in UK Primary Care Consultations: A Retrospective Cohort Study to Evaluate the Risk of Cardiovascular Events and All-cause Mortality [645]

Widya Norma Insani | Cate Whittlesea | Chengsheng Ju
Kenneth Man | Hassan Hasan Alwafi | Alaa Alsharif
Sarah Chapman | Li Wei (United Kingdom)

Poster Session B

DRUG-DRUG INTERACTION

V – Polypharmacy and Potential Drug Interactions in the Brazilian Amazon: A Cross-Sectional Population-based Study, 2019 [646]

Tais Freire Galvao | Gustavo Magno B Tiguman
Tayanny Margarida M. Almeida Biase | Marcus Silva (Brazil)

X – Age and Sex Differences in Polypharmacy Patterns in New Users of Metformin: A UK-based Descriptive Study [647]

Maria Luisa Marques De Sa Faquetti | Theresa Burkard
Adrian Martinez De La Torre | Andrea Burden (Switzerland)

Y – The Impact of Polypharmacy on Antidepressant Discontinuation in Comorbid Depression and Type 2 Diabetes: A UK Primary Care Record Cohort Study [648]

Annie Jeffery | Kate Walters | David Osborn | Ian Wong
Joseph F. F. Hayes (United Kingdom)

Z – Polypharmacy Trends Among US Middle-aged Adults from 2007 to 2020 [649]

April Duddy | Lu Zhang | Tiffany Siu Woodworth
(United States)

AA – Adverse Events of Myopathy After Comedication of Statin-Contraindicated Drugs: Case/Noncase Study Using Korea Adverse Event Reporting System (KAERS) Database, 2016-2020 [672]

Sewon Park | Min-Ju Koo | Sun-Young Jung (South Korea)

AB – Concomitant Use of Sodium-Glucose Co-transporter 2 Inhibitors and Statins and the Risk of Myotoxicity - A Pharmacovigilance Study [673]

Antonios Douros, | Christopher Gravel | Daniel Krewski
Donald Mattison (Canada)

AC – A Population Based Assessment of Concomitant Use of Sulfonylureas and Beta-Blockers and the Risk of Severe Hypoglycemia [674]

Jenny Dimakos | Ying Cui | Robert Platt | Kristian Filion
Christel Renoux | Antonios Douros (Canada)

GENOMICS

AD – KRAS.PG12 Mutated Advanced Non-Small Cell Lung Cancer: Characteristics and Outcomes from a Danish Nationwide Retrospective Observational Study [636]

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Byung-Joo Park | Nam-Kyong Choi (South Korea)

320 – Association Between Oral Corticosteroid Prescribing Patterns and Appropriate Fracture Preventive Care in People with Atopic Eczema in the UK [994]

Julian Matthewman | Mina Tadrous | Kathryn Mansfield
Deva Thiruchelvam | Donald Redelmeier | Angela M. Cheung
Iliana Lega | Daniel Prieto-Alhambra | Lawrence Cunliffe
Sinéad Langan | Aaron M. Drucker (United Kingdom)

321 – A Retrospective Analysis of Adverse Drug Events Leading to Hospitalization or Prolonged Hospitalization in Saudi Arabia Using the Saudi Food and Drug Authority (SFDA) Spontaneous Reporting System [995]

Eman Khalid Alqadheeb | Fotoun Alblowi
Rayan Ibrahim Alolayet | Asma Al-Sadaawi
Muhanad Alharbi | Mobarak Alshahrani (Saudi Arabia)

322 – Pharmacovigilance Education in Pharmacy Programs' Curricula in Saudi Arabia [996]

Mona Y Alsheikh, | Ahmed I Fathelrahman
Thamir M. Alshammari (Saudi Arabia)

323 – Lot-Specific Monitoring of Insulin Lispro Safety Following Changes in the Purification Process [998]

Ayad K. Ali | John D. Ayres (United States)

324 – Factors Associated with Compliance to the Hepatotoxicity Risk Management Guide in Primary Care Facilities in Casablanca, Morocco [999]

Boubacar Traore | Samira Nani | Samira Hassoune (Mali)

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SUNDAY, AUGUST 28 | 8 AM - 1:30 PM

SPOTLIGHT POSTERS

HEALTH EQUITY

A – Effect of The Refitted CKD-EPI Race-Free Formula to Estimate Glomerular Filtration Rate on The Chronic Kidney Disease Prevalence and Mortality in The Danish Population [1000]

Uffe Heide-Jørgensen | Søren Vestergaard | Henrik Birn
Christian Christiansen (Denmark)

B – Description of Concurrent CKD and HF by Race and Ethnicity Distribution in the US [1001]

Daniel Fernandez Llana | Claudia Cabrera Moksnes
Nitin Shivappa (United Kingdom)

C – A Dashboard to Visualize the Geographic Distribution of Incidence and Prevalence of Diseases by Race and Ethnicity in the United States Using Real-World Data [1002]

Brian Dreyfus | Siva Rayavaram | Leticia Ferri | Lorena Kuri
(United States)

D – State-By-State Analysis of Medicaid Barriers to Medication for Opioid Use Disorder (MOUD) Access [1003]

Sophia L Balkovski | Catherine Psaras | Marissa Seamans
(United States)

E – The Association Between Race, Social Determinants of Health, and Treatment for Major Depressive Disorder (MDD) in a Real-World Cohort [1004]

Jessica Paulus | Xi Qian | Pam Kumparatana
Veena Hoffman | Zhaohui Su | Carl Marci (United States)

F – Rural-Urban Disparities in COVID-19 Related Mortality Across US Counties by Racial and Ethnic Composition [1005]

Wenxi Huang | Inmaculada Hernandez | Shangbin Tang
Nico Gabriel | Nasser Sharareh | Nimish Patel
Lucas A Berenbrok | Sean Dickson | Serena Jingchuan Guo
(United States)

G – Impact of Contextual-Level Social Determinants of Health on Novel Antidiabetic Drug Adoption in Patients with Type 2 Diabetes [1006]

Yujia Li | Hui Hu | Yi Zheng | Jie Xu | Wei-Han Chen
Ning Liu | Jiang Bian | Serena Jingchuan Guo (United States)

H – Racial Differences in US COVID-19 Testing, Positivity, Hospitalization, and Mortality [1007]

Sruthi Adimadhyam | Adebola Ajao | Maria Kempner
Hye Seung Lee | Caroline Jjingo | Jane Baumblatt
Danijela Stojanovic | Yueqin Zhao | Joy Kolonoski
Efe Eworuke (United States)

MEDICAL DEVICES

I – Development of a Python Notebook to Automate Predictive Modeling: Total Knee Arthroplasty Case Study [1008]

Chantal Holy | Harshita Vemu | Saurabh Menon
Julia Hwang | Yifan Zhang | Jill Ruppenkamp | Paul Coplan
(United States)

J – Differences in Outcomes Among Patients with Atrial Fibrillation Undergoing Catheter Ablation with Versus Without Intracardiac Echocardiography Use [1009]

Rahul Khanna | Rhea C. Pimentel | Neloufar Rahai
Sonia Maccioni (United States)

K – Catheter Ablation Procedure Using Advanced Porous Tip Contact-Force Sensing Radiofrequency Catheter: Impact on Healthcare Utilization Among Patients with Persistent Atrial Fibrillation [1010]

Rahul Khanna | Amit Doshi | Sonia Maccioni
Meghana Sariki (United States)

L – Clinical and Economic Burden Associated with Uncontrolled Surgical Bleeding: A Retrospective Database Analysis [1011]

Stephen S Johnston | Pranjal Tewari | Mosadoluwa Afolabi
Walter Danker (United States)

Poster Session C

M – Comparison of Outcomes for Major Contemporary Endograft Devices Used for Endovascular Repair of Intact Abdominal Aortic Aneurysms [1012]

Michael O. Falster | Sarah K. Garland | Louisa Jorm
C. Barry Beiles | Anthony J. Freeman | Art Sedrakyan
Oluwadamisola Sotade | Ramon L. Varcoe (Australia)

N – Do Methods Matter in Diagnostic Yield Assessment in Bronchoscopy?

A Simulation-based Analysis [1013]

Meijia Zhou | Anil Vachani | Fabien Maldonado
Balaji Laxmanan | Iftekhar Kalsekar | Philippe Szapary
Lisa Dooley | Septimiu Murgu (United States)

O – Association Between Use of Levonorgestrel-releasing and Copper Intrauterine Devices and The Risk for IUD Expulsion in Routine Clinical Practice: Results from EURAS-LCS12 [1014]

Lisa Eggebrecht | Anja Bauerfeind | Tanja Boehnke
Camille Cellier | Jens Lange | Klaas Heinemann (Germany)

P – Evaluating Implementation of HPV Self-collection for Cervical Cancer Screening Among Low-income, Under-screened Women in the US [1015]

Elyse M. Miller (United States)

PEDIATRICS

Q – Trends in The Incidence of Varicella Cases with Complications Among Korean Children During 2010-2020 After the Universal One-Dose Varicella Vaccination Program [1016]

Hyunjeong Cho | Bongkyoo Choi | Eunbi Sun
Seoyoung Jeon | Seonghee Ann (Republic of Korea)

R – Risk of Infection in Children with Psoriasis Receiving Treatment with Ustekinumab, Etanercept, or Methotrexate [1017]

Maria Schneeweiss | Timothy J Savage | Richard Wyss
Julien Kirchgesner | Yinzhu Jin | Cassandra York
Joseph F. Merola | Sebastian Schneeweiss | Robert Glynn
(United States)

S – Off-Label Use of Drugs in Paediatric (Specialised) Outpatient Clinics – What Has Changed Between 2009 and 2019? [1018]

Irmgard Toni | Jutta Hupfer | Christine Gerber
Wolfgang Rascher | Antje Neubert (Germany)

T – Association Between Prenatal Antipsychotic Exposure and The Risk of Attention-Deficit/Hyperactivity Disorder and Autism Spectrum Disorder:

A Systematic Review and Meta-Analysis [1019]

Zixuan Wang | Kirstie Wong | Ian Wong | Kenneth Man
(United Kingdom)

U – Outpatient Antibiotic Prescribing in Early Life: A Population-based Study Comparing Birth Cohorts from Denmark and Germany [1020]

Ulrike Haug | Oliver Scholle | Lotte Rasmussen
Mette Reilev | Jost Viebrock (Germany)

V – Trends in Psychotropic Prescriptions Dispensed to US Children Early in the COVID-19 Pandemic [1021]

Greta A Bushnell | Jenny Sun | Wendy Camelo Castillo
Angela Czaja | Susan Dosreis | Tobias Gerhard
Florentia Kaguelidou | Haeyoung Lee
Sangita Pudasainee-Kapri | Sudha Raman
O'mareen Spence | Durrieu Geneviève | Daniel B Horton
(United States)

X – Association Between Antihistamine Exposure and Newly Diagnosed Juvenile Idiopathic Arthritis: A Nationwide Analysis [1022]

Daniel B. Horton | Tania J. Atanassova | Cecilia Huang
Joanna Madej | Sarah E. Mcguire | Tobias Gerhard
Brian L Strom (United States)

Y – Use of Valganciclovir/Ganciclovir [(v)GCV] for Treatment of Congenital Cytomegalovirus (cCMV) Infection in the United States: Evidence from The Sentinel Distributed Database, 2008-2020 [1023]

Ashish Rai | Emmanuel Ojo | Takashi Komatsu
Mayura Shinde | Danijela Stojanovic | Adebola Ajao
Hengrui Sun | Amy Bishara | Joy Kolonoski
Ann McMahon | Prabha Viswanathan (United States)

Poster Session C

MEDICATIONS IN PREGNANCY AND LACTATION

Z – COVID-19 Infection and Medication Use in Pregnancy (CONSIGN) – A Multinational Drug Utilisation Study Using Linked Healthcare Data [1024]

Eimir Hurley | Beatriz Poblador-Plou
Gabriel Sanfelix-Gimeno | Francisco Sanchez-Saez
Isabel Hurtado | Clara Rodriguez-Bernal | Sue Jordan
Daniel Thayer | Ieuan Scanlon | Carys Jones
Claudia C. Bartolini | Rosa Gini | Giorgio Limoncella
Miriam Sturkenboom | Hedvig Nordeng (Norway)

AA – Emulation of a Target Trial of Metformin in Pregnancy in Women with Pre-Gestational Type 2 Diabetes Mellitus [1025]

Jennifer Yland | Krista Huybrechts | Amelia Wesselink
Lauren Wise | Sonia Hernandez-Diaz (United States)

AB – National Trends and Utilization Patterns of Benzodiazepines and Z-Hypnotics Among 2,883,162 Pregnant Women in Taiwan: An Interrupted Time Series Analysis [1026]

Lin-Chieh Meng | Chih-Wan Lin | Shih-Tsung Huang
Fei-Yuan Hsiao (Taiwan)

AC – Intrauterine Exposure to SSRI Antidepressants and Risk of Emotional Disorder till Age 22: A Danish National Register Study [1027]

Ardesheer Talati | Mette Bliddal | Rikke Wesselhoeft
Katrine Strandberg-Larsen | Myrna Weissman
Jay Gingrich | Anton Pottegård (United States)

AD – Association of Maternal Levothyroxine Use During Pregnancy with Offspring Birth and Neurodevelopmental Outcomes [1028]

Mengqin Ge | Edmund C. Cheung | Kenneth Man
Patrick Ip | Wing Cheong Leung | Gloria Li | Annie Kung
Ching-Lung Cheung | Ian Wong (Hong Kong)

AE – Application of Claims-based Algorithms to Ascertain Gestational Age Among Multiple Pregnancy Outcomes [1029]

Jennifer Judy | Deepa Malhotra | Amy Law | David Oliveri
Jennifer Nguyen | Kimberly Shea (United States)

RARE DISEASES

AF – Development and Testing of Diagnostic Algorithms for Identifying Subjects with Acromegaly in Administrative Claims Databases [1030]

Salvatore Crisafulli | Andrea Fontana | Valentina Ientile
Luca L'abbate | Isabela Alexandra Chiorean
Francesco Barone-Adesi | Gianluca Trifiro (Italy)

AG – A Population-based Study on the Prevalence of Diagnosed Primary Immune Thrombocytopenia in the United States, 2016-2021 [1031]

Sherry Xiao | Sara Burns | Stephen Schachterle
Lawrence Charnas | David Readett (United States)

AH – Algorithm to Identify Patients with Hypereosinophilic Syndrome (HES) in Electronic Health Record Databases [1032]

Sandra Joksaitė | Gemma Requena | Nicholas Galwey
Rupert Jakes | Melissa Van Dyke (United Kingdom)

AI – Risk of Hospitalization for Vaso-Occlusive Episode in Patients with Sickle-Cell Disease After Out-patient Exposure to Systemic Corticosteroids [1033]

Margaux Lafaurie | Ondine Walter | Pierre Cougoul
Julien Maquet | Pablo Bartolucci | Maryse Lapeyre-Mestre
Guillaume Moulis (France)

AJ – The Use of United States Administrative Claims Data to Study Patients with Friedreich Ataxia: The Impact of Specific and Non-Specific Coding Periods [1034]

Christina Qian | Katharina Buesch | Lauren Powell
Karissa Johnston (Canada)

AK – An Innovative Way to Generate Blinded Data in Single Arm Clinical Trials [1035]

Cynthia Girman | Katherine Brind'amour PhD
Susan Hartmaier PhD | Xinruo Zhang | Emma Rosen
David A. Weinstein MD MSc (United States)

Poster Session C

AL – Use of Provider Notes in Novel Identification of Cancer at the Gastroesophageal Junction [1036]

Katherine Gilpin | Gulce Askin | Clark Jackson
David Hallett | Wendy Sebbly | Leon Raskin (*United States*)

AM – Natural History of Wilson's Disease in the United States Using Optum® Electronic Health Records [1037]

Scott Kelly | Karla Therese Sy | Kennedy Cook
Steven Arkin | Jose Francisco Cara | Marko Pregel
Kasia Lobello | Shawkat Hassan | Rongjun Shen
Xiaofeng Zhou | Caihua Liang | Kui Huang (*United States*)

VACCINES

AN – Characteristics Associated with Residual Risk of COVID-19 Hospitalisation After a Complete Vaccination Schedule in 28 Million People in France [1038]

Laura Semenzato | Jeremie Botton | Jérôme Drouin
Bérangère Baricault | Marion Bertrand
Marie-Joelle Jabagi | François Cuenot | Kim Bouillon
Stephane Le Vu | Rosemary Dray-Spira | Alain Weill
Mahmoud Zureik (*France*)

AR – Changing Characteristics Over Time of Individuals Receiving COVID-19 Vaccines in Denmark: A Population-based Descriptive Study of Vaccine Uptake [1042]

Mette Reilev | Morten Olesen | Helene Kildegaard
Henrik Støvring | Jacob Harbo Andersen | Jesper Hallas
Lars Christian Lund | Louise Ladebo | Martin Ernst
Per Damkier | Peter Jensen | Anton Pottegård
Lotte Rasmussen (*Denmark*)

AO – Heterogeneity Across European Electronic Healthcare Data Sources: Identification of Adverse Events of Special Interest (AESI) and Impact in Multi-Databases Assessment – An ACCESS Study [1039]

Corinne Willame | Caitlin Dodd | Carlos Duran
Daniel Weibel | Olaf H Klungel | Miriam Sturkenboom
Roel Elbers | Rosa Gini | Elisa Barbieri | Nicolas H Thurin
Tania Schink | Felipe Villalobos | Ainara Mira-Iglesias
Patrick Souverein | Mar Martin-Perez | Régis Lassalle
Cécile Droz-Perroteau | Jérémy Jové | Consuelo Huerta
Airam De Burgos Gonzalez | Veronica Bryant
Patricia García-Poza | Maria Martinez-Gonzalez (*Belgium*)

AS – Clinical Outcomes and Safety of Live-Attenuated Vaccines in Children Exposed to Biologics Response Modifiers in Utero [1043]

Ousseny Zerbo | Kristin Goddard | Edwin Lewis
Darios Getahun | Kristin Palmsten | Candace C Fuller
Bradley Crane | James Donahue | Matthew F Daley
Lisa A Jackson | Nicola Klein | Shararareh Modarresi
(*United States*)

AP – Cohort Monitoring of 29 Adverse Events of Special Interest Prior to and After COVID-19 Vaccination in Four Large European Data Sources [1040]

Miriam Sturkenboom | Davide Messina | Olga Paoletti
Airam De Burgos Gonzalez | Patricia García-Poza
Consuelo Huerta | Ana Llorente | Olaf H Klungel
Mar Martin-Perez | Maria Martinez-Gonzalez
Ivonne Martin | Jetty Overbeek | Marc Padros-Goossens
Patrick Souverein | Karin Swart, Daniel Weibel | Rosa Gini
(*Netherlands*)

AT – Post-Emergency Use Authorization (EUA) Active Safety Surveillance Study Among Individuals in the Veterans Affairs Health System Receiving Pfizer-BioNTech Coronavirus Disease 2019 (COVID-19) Vaccine [1044]

Kofi Asomaning | Mei Sheng Duh | Maral Dersarkissian
Cynthia De Luise | Catherine Nguyen | Mu Cheng
Angela Lax | Suna Park | Mianzhao Guo | Mingfang Zhang
Pierre Cremieux | Yinong Young-Xu (*United States*)

AQ – Vaccination and Acute Flares in Rheumatoid Arthritis: A Nationwide Case-crossover Study Using the French SNDS Health Care Databases [1041]

Lamiae Grimaldi | Yann Hamon | Tom Duchemin
Philippe Attias | Jacques Benichou | Lucien Abenheim
Yola Moride (*France*)

AU – Real-World Effectiveness of mRNA COVID-19 Vaccines Among Elderly US Nursing Home Residents [1045]

Hector Izurieta | Yun Lu | Arnstein Lindaas
Kathryn Matuska | Xiangyu Shi | Mikhail Menis
Whitney Steele | Michael Wernecke | Yoganand Chillarige
Hui-Lee Wong | Jeffrey Kelman | Richard A. Forshee
(*United States*)

Poster Session C

BIOSIMILARS

1 – Developing and Testing of Diagnostic Algorithms for the Identification of Inflammatory Bowel Diseases Using a Claims Database from Southern Italy [1046]

Elena Sofia Fiore | Ylenia Ingrassiotta | Valentina Isgrò
Valentina Ientile | Saveria S Foti | Luca L'abbate
Andrea Fontana | Michele Tari | Angela Alibrandi
Gianluca Trifiro (*Italy*)

2 – Rheumatoid Arthritis, Psoriasis and Other Auto Immune Diseases – Prescribing Patterns and Characteristics of Patients Undergoing Biological Therapy in Portugal (2020) [1047]

Claudia Furtado | Isabel Tovar | Cristina Gaspar
(*United States*)

3 – Trends in The Use of Biologics for Treatment of Plaque Psoriasis in the Real-World Setting [1048]

Lawrence Rasouliyan | Amanda G. Althoff | Vikas Kumar
Carla Zema | Stacey Long | Mitesh B. Rao (*United States*)

4 – Comparative Risk of Herpes Zoster and Postherpetic Neuralgia in Patients with Psoriasis Receiving IL-17 Inhibitor and IL-12/23 Inhibitor Versus Traditional Systemic Immunosuppressants [1049]

Edward Lai | Chaw-Ning Lee | Miyuki Hsing-Chun Hsieh
Che-Yu Chen | Chao-Chun Yang | Tzu-Chi Liao (*Taiwan*)

5 – Evaluation of The Effectiveness and Safety of Biological Disease-Modifying Drugs for the Treatment of Ankylosing Spondylitis in the Unified Health System [1050]

Francisco De Assis Acurcio | Bárbara Santos
Gerusa A. Oliveira | Luíla C Henriques | Marina Morgado
Natália Dias Brandão | Isabella C. Ferreira
Fernanda De Frias Campos | Juliana Álvares-Teodoro (*Brazil*)

6 – Evaluation of The Rate of Discontinuation of Treatment with Biological Drugs in Patients with Ankylosing Spondylitis: Pre-Pandemic and Pandemic Period [1051]

Francisco De Assis Acurcio | Fernanda De Frias Campos
Bárbara Santos | Isabella C. Ferreira | Luíla C. Henriques
Gerusa A. Oliveira | Natália Dias Brandão | Marina Morgado
Juliana Álvares-Teodoro (*Brazil*)

7 – Evaluation of the Use Profile of Biological Medicines and Synthetic Target-Specific Medicines for the Treatment of Rheumatoid Arthritis in the Sus in the State of Minas Gerais, Brazil [1052]

Francisco De Assis Acurcio | Isabella C. Ferreira
Bárbara Santos | Fernanda De Frias Campos
Gerusa A. Oliveira | Natália Dias Brandão | Marina Morgado
Luíla C. Henriques | Juliana Álvares-Teodoro (*Brazil*)

8 – Brodalumab Assessment of Hazards: A Multinational Safety (BRAHMS) Study of a Biological Anti-Psoriatic Drug Across Six European Countries [1053]

Mette Reilev | Peter Jensen | Henrik Støvring
Lise Skov Ranch | Rosa Gini | Claudia C. Bartolini
Gianluca Trifiro | Ursula Kirchmayer
Alessandro Cesare Rosa | Valeria Belleudi | Ulrike Haug
Sarina Schwarz | Wiebke Schaefer | Ron Herings
Elisabeth Smits | Jetty Overbeek | Emily Holthuis
Kari Furu | Karin Gembert | David Hägg
Michele Tari | Valentina Ientile | Ylenia Ingrassiotta | Alexander Egeberg
Jesper Hallas (*Denmark*)

9 – Traceability of Insulin Glargine's Innovator and Its Biosimilar Products Adverse Drug Events Reports in Saudi Arabia [1054]

Fares Alrubaish | Solaiman Alhawas | Abdulrahman Alnuaim
Nouf Alfadel | Fawaz F Alharbi (*Saudi Arabia*)

10 – Exploring The Relationship Between Utilization Patterns of Biologic Disease-Modifying Anti-Rheumatic Drugs and Disease Activity in Rheumatoid Arthritis Patients [1055]

Irma Convertino | Massimiliano Cazzato | Silvia Tillati
Sabrina Giometto | Rosa Gini | Giulia Valdiserra
Emiliano Cappello | Sara Ferraro | Marco Bonaso
Claudia C. Bartolini | Olga Paoletti | Valentina Lorenzoni
Matteo Filippi | Giuseppe Turchetti | Michele Cristofano
Corrado Blandizzi | Marta Mosca | Ersilia Lucenteforte
Marco Tuccori (*Italy*)

11 – The Risk of Serious Infection in Crohn's Disease Patients Treated with Biologics: An External Comparator Cohort Study [1056]

Nai-Yu Chen | Chiao-Hsiung Chuang | Yu-Ching Chang
Ching-Lan Cheng (*Taiwan*)

Poster Session C

12 – A Regulatory Overview of Biosimilars Across Selected Countries [1057]

Luciane Lopes | Gustavo M Santos | Svetlana Doubova
Lisa Pont | Efe Eworuke | Martín Cañás | Marco Tuccori
Lily Iracema Gordillo Alas | Angela Acosta Santamaria
Gustavo H. Marin | José Crisóstomo Landeros
Flavia C. Albuquerque | Golnoosh Alipour Haris
Martin A. Urtasun | Boya Lin | Juan Roldán-Saelzer
Patricia Carmona-Sepulveda | Dino Viveros
Felipe D. Vera | Irma Convertino Marco Bonaso
Claudia Garcia Serpa Osorio-De-Castro | Ursula Kirchmayer
Mariama G. Falcao | Fernanda Lacerda L Machado
Lourdes Abigail Orellana Tablas
Saul Eduardo Contreras Sanchez
Manuel Machado Beltrán (Brazil)

13 – Real-World Effectiveness and Persistence of Methotrexate Versus Adalimumab: A Comparative Study from The British Association of Dermatologists Biologics and Immunomodulators Register (BADBIR) [1058]

Oras Alabas | Kayleigh Mason | Zenas Yiu | Richard Warren
Mark Lunt | Catherine Smith | Christopher Griffiths
(United Kingdom)

14 – Recent Biosimilar Uptake in the United States [1059]

Elizabeth Dee | Caitlin Elliott | Shangzhi Gao | Caitlin Dodd
Tiffany Siu Woodworth (United States)

15 – Assessment of the Issues on Understanding and Use of Biologics in Clinical Practice and Their Regulations [1060]

Imelda G. Peña | Bryan Paul I. Bulatao (Philippines)



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Poster Session C

DISEASE EPIDEMIOLOGY/ CLINICAL COURSE

16 – Long-Term Health Events and Healthcare Utilization After COVID-19 Hospitalization Among Children and Adults Insured by Medicaid, North Carolina, United States, 2020-2021 [1061]

Rachel Sendor | Sharon Peacock Hinton | Til Stürmer
Michele Jonsson Funk (*United States*)

17 – Association Between Tumor Location and Pathological Stage in Patients with Resectable Low Rectal Cancer: Evidence from 20-Years of Data in China [1062]

Qingqing Hu | Zheng Kuo Md | Yuting Yao | Yuan Zhou
Enda Yu Md | Zheng Lou Md | Guanyu Yu Md
Leqi Zhou Md | Yongjing Zhang | Hong Qiu Md, PhD
Wei Zhang (*China*)

18 – A Scoping Review of Drug Exposures and The Development of Parkinson's Disease [1063]

Takahiro Itaya | Brendan Hallam | Mine Orlu
Anette Schrag | Irene Petersen | Kate Walters
(*United Kingdom*)

20 – Treatment-Resistant Depression and Labor Market Affiliation in the Danish Welfare Society: A Register-based Study [1065]

Frederikke H. Gronemann | Thomas Lund | Louise Lindholdt
Kathrine Bang Madsen | Martin Balslev Jørgensen
Merete Nordentoft | Merete Osler (*Denmark*)

21 – Long-Term Clinical and Health Outcomes Following COVID-19 Disease: An Umbrella Review [1066]

Hu Li | Jin Xia | Dimitri Bennett | Fatima Roque
Rujuta Phadke | Ana Bárbara Tavares | Mugdha Gokhale
Fidelia Ida | Jinnie J. Rhee | Montse Soriano Gabarro
(*United States*)

22 – Incident Dementia Identified by Redeemed Prescriptions Recorded in The Danish National Prescription Registry [1067]

Cecilia Fuglsang | Nils Skajaa | Péter Szentkúti
Erzsebet Horvath-Puho | Henrik Toft Sørensen
Victor Henderson (*Denmark*)

23 – Comorbidity, Trauma and Mortality in Children and Young Adults Using ADHD Medications in Quebec Between 2000 and 2020 [1068]

Carlotta Lunghi | Helen-Maria Vasiliadis | Elham Rahme
Louis Rochette | Martin Gignac | Victoria Massamba
Fatoumata Binta Diallo | Alvine Fansi | Samuele Cortese
Alain Lesage (*Italy*)

24 – Comparison of Methods to Quantify Uncertainties in Averaging Incidence Estimates: An Illustration of Approximating Lyme Borreliosis (LB) Incidence in High-Risk Regions in Europe [1069]

Thao Mp Tran | Leah Burn | Maxim Blum | James H. Stark
(*Belgium*)

25 – Nursing Home Facility Characteristics and Occurrence of Severe COVID-19 Outcomes Among US Medicare Beneficiaries Ages 65 and Older in the Vaccine Era [1070]

Hector Izurieta | Mikhail Menis | Yun Lu | David Graham
Yixin Jiao | Heng-Ming Sung | Yue Wu | Yoganand Chillarige
Michael Wernecke | Jeffrey Kelman | Richard A. Forshee
(*United States*)

26 – Identification of Drugs Associated with Lower Risk of Parkinson's Disease Using Systematic Screening Approach in a Nationwide Nested Case-control Study [1071]

Anna-Maija Tolppanen | Marjaana Koponen | Anne Paakinaho
Julian Lin | Sirpa Hartikainen (*Finland*)

27 – Prevalence and Predictors of COVID-19 Associated Mucormycosis: A Systematic Review and Meta-Analysis [1072]

Asha K Rajan | Muhammed Rashid | Dhruv Patel
Viji Chandran | Sreedharan Nair | Vishal Shanbhag
Girish Thunga (*India*)

28 – Kidney Function Before and After Acute Kidney Injury: A Nationwide Population-based Cohort Study [1073]

Simon Jensen | Uffe Heide-Jørgensen | Søren Vestergaard
Henrik Gammelager | Henrik Birn | Dorothea Nitsch
Christian Christiansen (*Denmark*)

29 – The Impact of Antidepressant Treatment on Insulin Commencement in Type 2 Diabetes: A UK Electronic Health Record Nested Case-control Study [1074]

Annie Jeffery | Kate Walters | David Osborn | Ian Wong
Joseph F. F. Hayes (*United Kingdom*)

30 – Quality Assessment of Latest National Comprehensive Cancer Network Guidelines Using The AGREE-II Instrument and RIGHT Statement [1075]

G. Nethravathi | Pravalika Mudimala | Christy Thomas
Krishna Undela (*India*)

Poster Session C

31 – Antihypertensive Prescription and Blood Pressure Patterns in Patients with Chronic Kidney Disease at a Nephrology Outpatient Clinic in Lagos University Teaching Hospital, Idi-Araba [1076]

Ifedolapo Adesola Adejumo | Babawale Bello
Sunday O. Olayemi (Nigeria)

32 – Return-To-Work in Premenopausal Breast Cancer Patients Prescribed Taxane-based Chemotherapy. a Population-based Cohort Study Investigating the Impact of 26 Single Nucleotide Polymorphisms [1077]

Cathrine Hjorth | Per Damkier | Tore B Stage
Søren Feddersen | Stephen Hamilton-Dutoit | Bent Ejlersen
Timothy Lash | Henrik Bøggild | Henrik Toft Sørensen
Deirdre Cronin-Fenton (Denmark)

33 – Antiplatelet Drugs and Breast Cancer Risk in a Large Nationwide Danish Case-control Study [1078]

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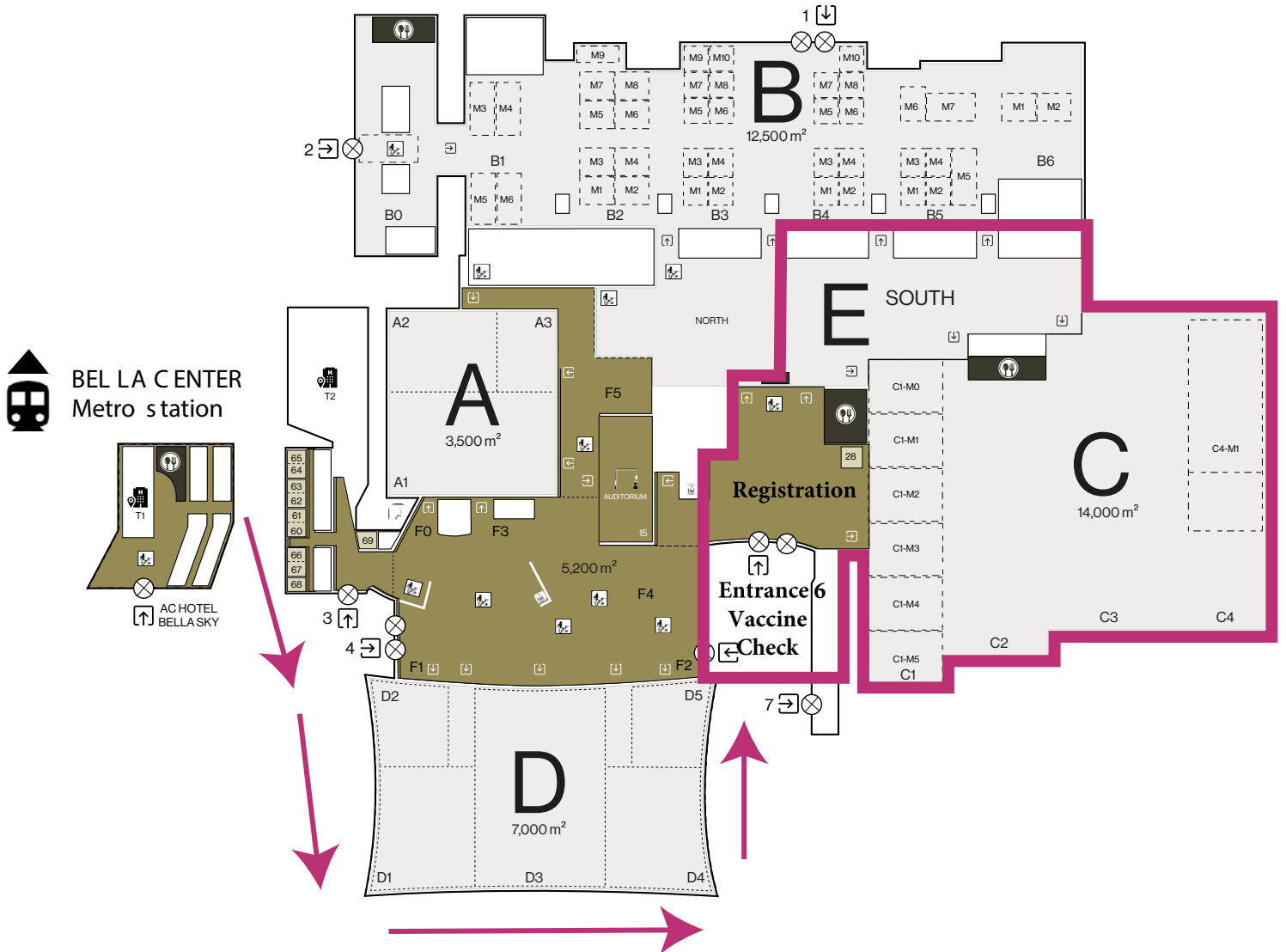
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