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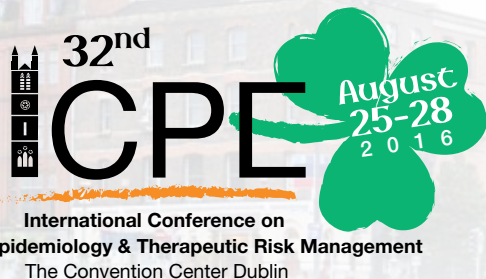
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- ▶ Center for Drug Safety & Pharmaceutical Health Services Research Graduate Program, University of Maryland School of Pharmacy, USA
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- ▶ Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida, USA
- ▶ Department of Pharmacy Systems, Outcomes and Policy, University of Illinois at Chicago, USA
- ▶ Department of Pharmacy Practice, KMCH College of Pharmacy, Coimbatore, India
- ▶ Harvard University School of Public Health, USA
- ▶ Health Outcomes and Pharmacy Practice, The University of Texas at Austin, USA
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- ▶ Graduate Department of Pharmaceutical Sciences, Leslie Dan Faculty of Pharmacy, University of Toronto, Canada
- ▶ Pharmacoepidemiology and Pharmacoeconomics, University of Rhode Island, USA
- ▶ Pharmacoepidemiology Program, Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, USA
- ▶ Program for Clinical Pharmacy and Pharmaceutical Sciences, National Chen-Kung University, Taiwan
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# ABSTRACT REVIEWERS

Heshu Abdullah-Koolmees  
 John Acquavella, FISPE  
 Michael Adena  
 Syed Ahmad, FISPE  
 Fariba Ahmadizar  
 Onyinye Akunne  
 Silvia Alessi-Severini  
 G. Caleb Alexander  
 Fawaz Alharbi  
 Ayad Ali  
 M Sanni Ali  
 Ziyad Almalki  
 Adel Alrwisan  
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 Keith Altman  
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 Colin Anderson-Smits  
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 David Brown  
 Joshua Brown

Suvapun Bunniran  
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 Johanita Burger  
 Greta Bushnell  
 Anne Butler  
 Melissa Butler  
 Suzanne Cadarette  
 Bing Cai  
 John Cai  
 Mona Cai  
 Gloria Caldwell  
 Gregory Calip  
 Wendy Camelo Castillo  
 Wendy Carman  
 Deborah Casso  
 Ola Caster  
 Gillian Caughey  
 Lucia Cea Soriano  
 Karynsa Cetin  
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 Christina Chambers  
 Julie Chandler  
 T Craig Cheetham  
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 Chih-Ying Chen  
 Jing Chen  
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 Nabarun Dasgupta  
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 Madlen Gazarian  
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 Sonia Hernández-Díaz, FISPE  
 Ulrik Hesse  
 Laura Hester  
 Juan Hincapie Castillo  
 Jarno Hoekman  
 Sarah Hoffman  
 Veena Hoffman  
 Ken Hornbuckle, FISPE  
 Hsing-Chun Hsieh  
 Jason Hsu  
 Jason Hu  
 Wei Hua  
 Kui Huang  
 Ting-Ying Huang  
 Wan-Ting Huang  
 Adriana Hung  
 Krista Huybrechts, FISPE  
 Luisa Ibanez  
 Maria Inacio  
 Muhammad Shahid Iqbal  
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 Lyna Irawati  
 Syed Islam  
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 Nakyung Jeon  
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 Catherine Johannes  
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 Karim Johnson  
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 Michele Jonsson Funk  
 Juhaeri Juhaeri  
 Linda Kalilani  
 Sigal Kaplan  
 Katherine Kelley  
 Nicole Kellier-Steele  
 Judy Kelly  
 Judith Kempf

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Farhad Khan  
 Dae Kim  
 Ju Hyeun Kim  
 Alan Kinlaw  
 Victor Kiri  
 Kristin Kistler  
 Adi Kil-Drori  
 Olaf Klungel  
 Caitlin Knox  
 Oleksii Korzh  
 Erna Kristin  
 Whitney Krueger  
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 Hiraku Kumamaru  
 Jennifer Kuntz  
 I Fan Kuo  
 Natalia Kutishenko  
 Jean-Philippe Lafrance  
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 Shusen Liu  
 Wei Liu  
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 Anke-Hilse Maitland-van der Zee  
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 Ahmed Saeed

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 Jenny Shen  
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 Xue Song  
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 Yoshinori Takeuchi  
 Sunning Tao  
 Katja Taxis  
 Martina Teichert  
 Bharat Thakrar  
 Trenque Thierry  
 Bathsheba Thomas

## ABSTRACT REVIEWERS (Cont.)

Darren Toh  
Fadia Tohme-Shaya  
Sylvie Tomczyk  
Emese Toth  
Gianluca Trifirò  
Md Jamal Uddin  
Anan Udombhornprabha  
Christine Ulbricht  
Marianne Ulcickas Yood, FISPE  
Krishna Undela  
Hisashi Urushihara  
Carla Van Bennekom  
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Cunlin Wang  
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Shirley Wang  
Tongtong Wang  
Wei Wang  
Ye Wang  
Grace Wangge  
Daniala Weir  
Lisa Weiss  
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Bjorn Wettermark  
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James Wilson  
Barbara Wimmer  
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Robert Wise, FISPE  
Yun Sum Wong  
Mollie Wood  
Kimberley Woodcroft  
Alison Wright  
Chuntao Wu  
Jasmanda Hsiao-Hui Wu, FISPE  
Richard Wyss  
Fenglong Xie  
Wanning Xu  
Fei Xue  
Takuhiro Yamaguchi  
Huiying Yang  
Mo Yang  
Yea-Huei Kao Yang, FISPE  
Wai Ping Yang  
Xibiao Ye

Yizhou Ye  
Mellissa Yong  
Hongbo Yuan  
Zhong Yuan  
Emre Yucel  
Huifeng Yun  
Akeem Yusuf  
Jie Zhang  
Wei Zhou  
Yanmin Zhu  
Inge Zomerdijk

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**ISPE'S 2017  
MID-YEAR MEETING**  
April 1-4, 2017 | Royal College of Physicians  
London, United Kingdom

**ISPE**  
INTERNATIONAL SOCIETY FOR  
PHARMACOEPIDEMIOLOGY

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International Conference on  
Pharmacoepidemiology & Therapeutic Risk Management  
The Convention Center Dublin

ISPE gratefully acknowledges the generous support of the organizations, institutions and programs listed below. Their contributions helped the Society enhance the scientific program content and increase attendance at the 32nd ICPE.

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- Analysis Group
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- Boehringer Ingelheim
- Clinical Practice Research Datalink (CPRD)
- Department of Clinical Epidemiology, Aarhus University Hospital
- Digital Health Labs
- Dove Medical Press
- Drug Safety Research Unit
- EPID Research
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- London School of Hygiene and Tropical Medicine
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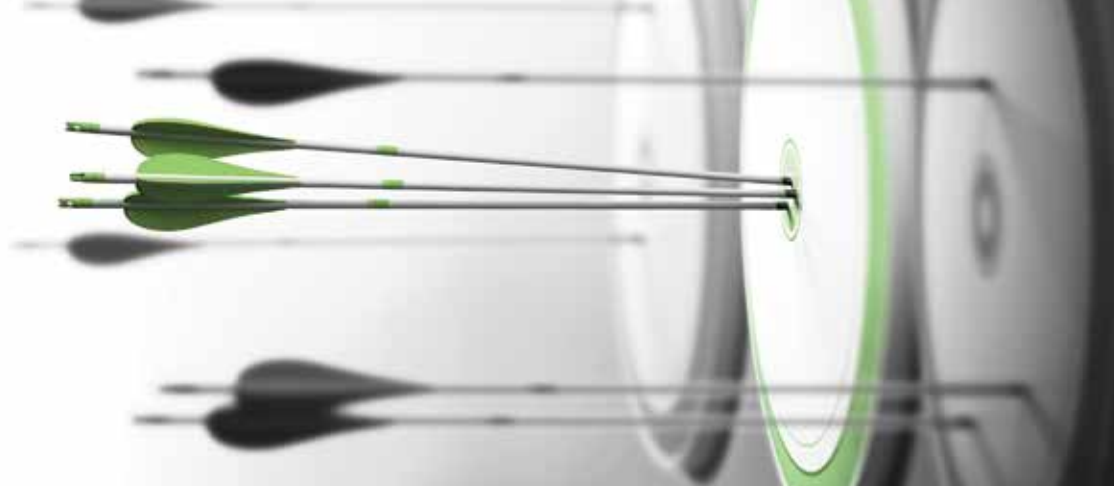
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\* As of August 4, 2016

## Badges

All attendees at the 2016 ICPE must wear their badges to all events and conference-related functions including the Welcome Reception/Academic Showcase, scientific sessions, exhibit/poster hall, and social event. Badges will be included in the registration material. In some cases, tickets for admission will be required; e.g., courses and guests.



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## EVIDERA PRESENTATIONS AT ICPE

### Pre-Conference Course

Selection of Databases for Pharmacoepidemiology Research

*Reynolds M*

### Symposium

Who to Ask and How? Preference-Based Methods for Benefit-Risk Assessment?

*Marsh K, Hillege HL, Ataher Q, Tervonen T*

### Workshop

What's in a Code? Algorithm Validation in Drug Safety Studies

*Nordstrom BL, Weiss S, Lanes S, Wang C*

### Oral Presentation

Development and Validation of an Algorithm for Identifying Pediatric Patients with Type 2 Diabetes in Claims Data

*Teltsch D, Swain RS, Farsani SF, Brodovicz KG, Kaspers S, Huse S, Sicignano N, Cristaldi C, Nordstrom BL, Bartels DB*

**PLUS 5 Posters!**



Wednesday, August 24, 2016

| 7:00am   | 8:00am | 9:00am | 10:00am | 11:00am | 12:00pm                             | 1:00pm | 2:00pm   | 3:00pm | 4:00pm | 5:00pm | 6:00pm | 7:00pm |  |
|--|--------|--------|---------|---------|-------------------------------------|--------|--|--------|--------|--------|--------|--------|--|
| 7:30am - 5:00pm<br>Speakers' Ready Room (Liffey Mtg Rm 4)  |        |        |         |         |                                     |        |  |        |        |        |        |        |  |
| 7:30am - 6:00pm<br>Registration (Ground Foyer)   |        |        |         |         |                                     |        |  |        |        |        |        |        |  |
| 8:00am - 6:00pm   All Day Session (lunch included)<br>Pharmacogenomics in the Real World (Liffey 2A) |        |        |         |         |                                     |        |  |        |        |        |        |        |  |
| 8:30am - 12:30pm   Educational Sessions  |        |        |         |         | 12:30 - 2:00pm<br>Lunch on Your Own |        | 2:00 - 6:00pm   Educational Sessions   |        |        |        |        |        |  |
| Adherence to Pharmacotherapy (Wicklow Mtg Rm 1)  |        |        |         |         |                                     |        | Applying Benefit Risk Assessment (Liffey Mtg Rm 3)                             |        |        |        |        |        |  |
| Introduction to Pharmacoepidemiology (Wicklow Hall 1)  |        |        |         |         |                                     |        | Comparative Effectiveness Research (Wicklow Mtg Rm 4)                          |        |        |        |        |        |  |
| Introduction to Therapeutic Risk Management Program Evaluation (Liffey Mtg Rm 3)                     |        |        |         |         |                                     |        | Intermediate Database Utilization Workshop (Wicklow Mtg Rm 3)                  |        |        |        |        |        |  |
| Medical Device Epidemiology (Wicklow Mtg Rm 4)   |        |        |         |         |                                     |        | ISPE Newcomers/Early Stage Investigators Workshop (Wicklow Hall 1)             |        |        |        |        |        |  |
| Pediatric Pharmacoepidemiology (Wicklow Mtg Rm 3)  |        |        |         |         |                                     |        | Practical Skills in Protocol Writing & Computer Programming (Wicklow Mtg Rm 1) |        |        |        |        |        |  |
| 9:00am - 5:00pm<br>ISPE Board of Directors Meeting (Spencer Hotel)                                   |        |        |         |         |                                     |        |  |        |        |        |        |        |  |

Thursday, August 25, 2016

| 7:00am  | 8:00am | 9:00am | 10:00am | 11:00am | 12:00pm   | 1:00pm | 2:00pm  | 3:00pm | 4:00pm | 5:00pm | 6:00pm   | 7:00pm |
|---|--------|--------|---------|---------|---|--------|---|--------|--------|--------|--|--------|
| 7:30am - 5:00pm<br>Speakers' Ready Room (Liffey Mtg Rm 4)                               |        |        |         |         |   |        |   |        |        |        |  |        |
| 7:30am - 6:30pm<br>Registration Open (Ground Foyer)                                     |        |        |         |         |   |        |   |        |        |        |  |        |
| 8:30am - 12:30pm   Educational Sessions   |        |        |         |         | 12:30 - 2:00pm<br>Lunch on Your Own   |        | 2:00 - 6:00pm   Educational Sessions  |        |        |        | 6:00 - 7:30pm<br>Welcome Reception/<br>International Chapter & Academic Showcase (3rd floor) |        |
| Introduction to Drug Utilization (Wicklow Mtg Rm 3)                                     |        |        |         |         |   |        | Advanced Drug Utilization Workshop (Liffey Mtg Rm 1)                                  |        |        |        | 7:30 - 9:30pm<br>Students/<br>Early Career Professionals Meet & Greet (Ely Bar & Brasserie)  |        |
| Intermediate Pharmacoepidemiology - Dealing With Unmeasured Covariates (Wicklow Hall 1) |        |        |         |         | 12:30 - 2:00pm<br>New Member/<br>New Investigator Luncheon<br>By Invitation Only (The Liffey) |        | Advanced Topics in Pharmacoepidemiology (Liffey Hall 1)                               |        |        |        |  |        |
| Modern Pregnancy Pharmacoepidemiology (Wicklow Mtg Rm 5)                                |        |        |         |         |   |        | Epidemiology of Vaccine Safety (Wicklow Mtg Rm 5)                                     |        |        |        |  |        |
| Pharmacovigilance & Signal Detection (Liffey Mtg Rm 1)                                  |        |        |         |         |   |        | Field Studies to Add Value in Pharmacoepi (Liffey Mtg Rm 5)                           |        |        |        |  |        |
| Propensity Scores in Pharmacoepidemiology (Liffey Mtg Rm 2)                             |        |        |         |         |   |        | Pharmacoepidemiologic Considerations for Biologics and Biosimilars (Wicklow Mtg Rm 3) |        |        |        |  |        |
| Registries and Prospective Cohort Studies (Liffey Mtg Rm 5)                             |        |        |         |         |   |        | Regulatory Pharmacoepi (Wicklow Hall 1)   |        |        |        |  |        |

Friday, August 26, 2016

| 7:00am   | 8:00am | 9:00am  | 10:00am  | 11:00am  | 12:00pm  | 1:00pm   | 2:00pm   | 3:00pm  | 4:00pm  | 5:00pm  | 6:00pm                        | 7:00pm   |  |
|--|--------|---|--|--|--|--|--|---|---|---|-------------------------------|--|--|
| 7:00am - 5:00pm<br>Speakers' Ready Room (Liffey Mtg Rm 4)                      |        |   | 10:00-10:30am<br>Break/<br>Posters/<br>Exhibits<br>(The Forum) |  | 12:15 - 1:15pm<br>Spotlight<br>Poster<br>Session<br>(3rd floor; lunch available) |  | 3:00-3:30pm<br>Break/<br>Posters/<br>Exhibits<br>(The Forum) |   | 5:00 - 6:30pm<br>Symposia & Workshops                               |   | 6:30 - 7:15pm<br>SIGs         |  |  |
| 7:00am - 6:00pm<br>Registration Open (Ground Foyer)                            |        |   |  |  |  |  |  |   | Catch the Wave: Diffusion of Methodological Innovation (Auditorium) |   | Adherence (Wicklow Mtg Rm 2B) |  |  |
| 7:00 - 8:00am<br>Cross-National Comparison of Drug Utilization (Liffey Brdm 3) |        | 8:00am - 6:00pm<br>Exhibits/Posters (The Forum)   |  |  |  |  |  |   |   | AsPEN (Wicklow Mtg Rm 3)  |                               |  |  |
| 7:00 - 8:00am<br>Poster Session A Set-Up (The Forum & 3rd Floor)               |        | 8:00 - 8:30am<br>Welcome (The Auditorium)<br>-Mary Ritchey<br>-Kathleen E. Bennett<br>-Sonia Hernández-Díaz |  | 10:30am - Noon<br>Concurrent Sessions                                    |  | Noon - 1:30pm<br>Lunch/<br>Poster Session A/<br>Exhibits (The Forum) |  | 1:30 - 3:00pm<br>Concurrent Sessions                                |   | Biologics (Wicklow Mtg Rm 2A)   |                               |  |  |
| 7:00 - 8:00am<br>ASPEN SIG (Liffey Brdm 1)                                     |        | 8:30 - 10:00am<br>Plenary Session:<br>Representative Sampling in Pharmacoepidemiology (The Auditorium)      |  | Meascán de Meds: Utilization and Trends (The Liffey A)                   |  | Lunch Roundtable Discussions (Liffey Mtg Rm 1)                       |  | Bittersweet: Trends and Treatments in Diabetes (The Liffey A)       |   | Patient Engagement in Observational Pharmacoepidmiology Research (The Liffey B)                 |                               | 7:15 - 9:00pm<br>PDS Editorial Board-By Invitation (Spencer Hotel) |  |
| 7:00 - 8:00am<br>Coffee & Tea (The Forum)                                      |        |   |  | Adverse Events of Cardiovascular Treatment: Head to Toe (Wicklow Hall 2) |  | Membership Committee (Wicklow Mtg Rm 3)                              |  | Cancer: Around the World in Databases (The Liffey B)                |   | Impact of Pharmacovigilance (The Liffey A)  |                               | BRACE (EcoCam)   |  |
|  |        |   |  | Pregnancy and Beyond (Liffey Hall 2)                                     |  | Fellowship & Awards Committee (Wicklow Mtg Rm 5)                     |  | Playing Catch-up in Pediatric Pharmacoepidemiology (Wicklow Hall 2) |   | Big Data, Big Picture - Data Visualization of Health (Wicklow Hall 2)                           |                               | CER (Wicklow Mtg Rm 4)   |  |
|  |        |   |  | Keeping an "I" in Opioid Use (Liffey Hall 1)                             |  | Finance Committee (Wicklow Mtg Rm 2A)                                |  | Patients, Prescriptions, Policy & Pennies (Liffey Hall 2)           |   | Drug Utilization in Older Populations (Liffey Hall 2)   |                               | Databases (Liffey Mtg Rm 1)  |  |
|  |        |   |  | Data Lost and Found (The Auditorium)                                     |  | Public Policy Committee (Wicklow Mtg Rm 2B)                          |  | Adherence: Staying the Course (Liffey Hall 1)                       |   | Drug Utilisation in Older Populations (Liffey Hall 2)   |                               | Drug Utilization/ HSR (Wicklow Mtg Rm 1)                           |  |
|  |        |   |  |  |  | Student Council (Wicklow Mtg Rm 1)                                   |  | Study Design Considerations to Address Confounding (The Auditorium) |   | Does Randomization Work? Selection Bias in Pragmatic Randomized Clinical Trials (Liffey Hall 1) |                               | Medical Devices (Liffey Brdm 3)                                    |  |
|  |        |   |  |  |  |  |  |   |   | Validation Using U.S. Medicare Administrative Claims Data (Liffey Mtg Rm 2)                     |                               | Medications in Pregnancy (Liffey Mtg Rm 3)                         |  |
|  |        |   |  |  |  |  |  |   |   |   |                               | Oncology (Liffey Brdm 1)   |  |
|  |        |   |  |  |  |  |  |   |   |   |                               | Molecular Epi. (Liffey Mtg Rm 5)                                   |  |
|  |        |   |  |  |  |  |  |   |   |   |                               | Pediatrics (Wicklow Mtg Rm 5)                                      |  |
|  |        |   |  |  |  |  |  |   |   |   |                               | Vaccines (Liffey Mtg Rm 2)   |  |

# MEETING-A-GLANCE

## Saturday, August 27

| 7:00am  | 8:00am  | 9:00am  | 10:00am  | 11:00am | 12:00pm   | 1:00pm   | 2:00pm  | 3:00pm   | 4:00pm | 5:00pm  | 6:00pm | 7:00pm  |  |   |
|---|---|---|--|---------|---|--|---|--|--------|---|--------|---|--|---|
| 7:00am - 5:00pm<br>Speakers' Ready Room (Liffey Mtg Rm 4)               |   |   |  |         |   |  |   |  |        |   |        |   |  |   |
| 7:00am - 6:00pm<br>Registration Open (Ground Foyer)                     |   |   |  |         | 11:45am - 12:45pm<br>Spotlight Poster Session (3rd Floor; lunch available)  |  |   |  |        | 4:00 - 5:30pm<br><b>Symposia &amp; Workshops</b><br>Using "Big Data" in Early Safety Evidence Gathering (The Liffey A)<br>Optimal Use of Data from United Kingdom Electronic Health Records (The Liffey B)<br>What's in a Code? Algorithm Validation in Drug Safety Studies (Wicklow Hall 2)<br>Epidemiological Approach to Rare Disease Research (Liffey Hall 2)<br>Evidence Synthesis in Drug Safety Evaluation and Regulation (Liffey Hall 1)<br>Effectiveness and Safety of Biosimilar Medicines (Liffey Mtg Rm 2)<br>Perspectives from Causal Inference in the Era of Big (Healthcare) Data (The Auditorium) |        | 5:30- 6:15pm<br><b>Council Meetings Academic</b> (Liffey Mtg Rm 1)<br>Government/Regulatory (Wicklow Mtg Rm 3)<br>Industry/Service Provider (Wicklow Mtg Rm 4)<br>Student Council & Chapters (Wicklow Mtg Rm 5) |  | 7:30 - 11:30pm<br><b>Social Event at Guinness Storehouse</b><br>(Shuttle bus to the Storehouse from the Convention Centre and to ISPE meeting hotels from the Storehouse) |
| 7:00 - 8:00am<br><b>Poster Session B Set-Up</b> (The Forum & 3rd Floor) | 8:00am - 6:00pm<br>Exhibits/Posters (The Forum)   |   | 10:00 - 11:30am<br><b>Plenary Session: Patient Voice in Clinical and Pharmacoepidemiologic Research</b> (The Auditorium) |         | 11:30am - 1:00pm<br><b>Lunch/Poster Session B/Exhibits</b> (The Forum)  | 1:00 - 2:30pm<br><b>Concurrent Sessions</b><br>CV Effectiveness: How to Fix a Broken Heart (The Liffey A)<br>Antipsychotic Use Across the Life Span (The Liffey B)<br>To Take or Not to Take? (Wicklow Hall 2)<br>Drug-Induced Kidney and Liver Injury (Liffey Hall 2)<br>Biologics: "Miracle Drug" (Liffey Hall 1)<br>A Methods Coddle (The Auditorium) | 2:35 - 3:30pm<br><b>Annual Meeting of ISPE Members and Awards Ceremony</b> (The Auditorium) | 3:30-4:00pm<br><b>Break/Posters/Exhibits</b> (The Forum) |        |   |        |   |  |   |
| 7:00 - 8:00am<br>Coffee & Tea (The Forum)                               | 8:00 - 9:30am<br><b>Concurrent Sessions</b><br>Psychotropics in Pregnancy (The Liffey A)<br>Pay Attention to Pain: ADHD and Pain Treatment DUS (The Liffey B)<br>Psychotropic Trends on Populations from a Multinational Perspective (Wicklow Hall 2)<br>A Sticky Subject: Diabetes Safety (Liffey Hall 2)<br>Broken & Torn (Liffey Hall 1)<br>Identification and Validation of Outcomes (The Auditorium) | 9:30-10:00am<br><b>Break/Posters/Exhibits</b> (The Forum) |  |         | 11:30am - 1:00pm<br>Education Committee Meeting (Wicklow Mtg Rm 3)<br>Development Committee (Wicklow Mtg Rm 4)<br>Publications & Communications Committee (Wicklow Mtg Rm 2A)<br>Bylaws Committee Meeting (Wicklow Mtg Rm 2B) |  |   |  |        |   |        |   |  |   |

## Sunday, August 28, 2016

| 7:00am  | 8:00am   | 9:00am   | 10:00am   | 11:00am | 12:00pm   | 1:00pm   | 2:00pm                                     | 3:00pm | 4:00pm | 5:00pm  | 6:00pm | 7:00pm  |   |  |
|---|--|--|---|---------|---|--|--|--------|--------|---|--------|---|---|--|
| 7:00am - 3:30pm<br>Speakers' Ready Room (Liffey Mtg Rm 4)               |  |  |   |         |   |  |  |        |        |   |        |   |   |  |
| 7:00am - 4:30pm<br>Registration Open (Ground Foyer)                     |  |  |   |         | 12:15 - 1:15pm<br>Spotlight Poster Session (3rd Floor; lunch available) |  |  |        |        | 3:15 - 4:45pm<br><b>Concurrent Sessions</b><br>Practice of Epidemiology in Pregnancy Studies (The Liffey A)<br>Disease Burden from Clinical Databases (The Liffey B)<br>CV Adverse Events: Affairs of the Heart (Wicklow Hall 2)<br>Adverse Outcomes of Glucocorticoid and Immunomodulator Use (Liffey Hall 2)<br>Thin Blood: Anticoagulants (Liffey Hall 1)<br>Is It Safe Enough? (The Auditorium) |        | 4:45 - 5:30pm<br><b>The Final Word</b><br>•Spotlight Poster Awards<br>•2017 Meetings<br><b>Adjournment</b> (The Auditorium) | 5:45 - 6:30pm<br><b>2017 ICPE Scientific Program Committee Meeting</b> (EcoCem) |  |
| 7:00 - 8:00am<br><b>Poster Session C Set-Up</b> (The Forum & 3rd Floor) | 8:00am - 1:45pm<br>Exhibits/Posters (The Forum)  |  | 10:30am - Noon<br><b>Plenary Session: Multiple Database Study Design</b> (The Auditorium) |         | 11:30am - 1:30pm<br><b>Lunch/Poster Session C/Exhibits</b> (The Forum)  | 1:30 - 3:00pm<br><b>Symposia &amp; Workshops</b><br>Pharmacoepidemiology and Risk Management Planning (The Liffey A)<br>Clinical and Analytic Considerations in Observational Database Studies (The Liffey B)<br>Transitioning to ICD-10 (Wicklow Hall 2)<br>Preference-Based Methods for Benefit-Risk Assessment (Liffey Hall 2)<br>Implications for Patients, Industry and Regulators (Liffey Hall 1)<br>Pattern Discovery in Observational Health Data (The Auditorium) | 3:00-3:15pm<br><b>Break</b> (Ground Foyer) |        |        |   |        |   |   |  |
| 7:00 - 8:00am<br>Coffee & Tea (The Forum)                               | 8:30 - 10:00am<br><b>Concurrent Sessions</b><br>From Eve to... (The Liffey A)<br>My Achy Breaky Heart: Diabetes and CVD (The Liffey B)<br>Keeping Up - A Potpourri (Wicklow Hall 2)<br>Adverse Outcomes and Infectious Diseases (Liffey Hall 2)<br>Vaccines: Hit Me with Your Best Shot (Liffey Hall 1)<br>Analytic Approaches for Controlling Confounding and Exposure Misclassification (The Auditorium) | 10:00-10:30am<br><b>Break/Posters/Exhibits</b> (The Forum) |   |         |   |  |  |        |        |   |        |   |   |  |

4:00-6:00pm

**Registration (Ground Foyer)**

If you will attend a course on Wednesday, we highly recommend that you register on Tuesday evening to avoid delays.

7:30am-5:00pm

**Speaker Ready Room**  
(Liffey Meeting Room 4)

7:30am-6:00pm

**Registration (Ground Foyer)**  
(Individuals attending a morning pre-conference course should arrive by 7:30am to register.)

9:00am-5:00pm

**ISPE Board of Directors Meeting**  
(Spencer Hotel)  
Open to ISPE members; members may contact info@pharmacoepi.org if they would like to attend.

- • • • •
- **For additional**
- **information about**
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- • • • •

**EDUCATIONAL SESSIONS: ALL DAY COURSE** (Ticket required)

8:00am-6:00pm

**Pharmacogenomics in the Real World 2.0** (Liffey Meeting Room 2A)

**Content**

This course will focus on the essentials every pharmacoepidemiologist should know about real world applications of pharmacogenomics including precision medicine, companion diagnostics, the biomarker development pipeline, common genomic observational designs, and the intersection of big data with pharmacogenomics. This course has expanded to include a broader definition of genomic and other biomarkers, including both germ line and somatic changes. There will be short pre-course orientating videos on the ISPE website that will cover basic definitions and concepts in preparation for the main course, allowing the main course to focus more on practical applications. A variety of instructional techniques (including didactic teaching, scenario-based advanced and basic break-out sessions, small group round-table discussions, bring your own question/ask the expert sessions, and an interactive debate) will be used to keep attendees engaged throughout the day-long course.

**Course Directors**

**Amalia M Issa**, University of the Sciences in Philadelphia  
**Anke-Hilse Maitland van der Zee**, Utrecht University

**Course Faculty**

**Gillian Bartlett**, McGill University  
**Bruce Carleton**, University of British Columbia  
**Marissa Dolled-Filhart**, Merck Research Laboratories  
**Alexander Doney**, University of Dundee  
**Kelly Filipksi**, National Cancer Institute  
**Andrew Freedman**, National Cancer Institute  
**Stephen Kimmel**, University of Pennsylvania  
**Geoffrey Liu**, University of Toronto  
**Colin Palmer**, University of Dundee  
**David Pulford**, GlaxoSmithKline  
**Wei Zhou, MD**, Merck Research Laboratories

**HALF-DAY MORNING COURSES** (Ticket required)

8:30am-12:30pm

**Pediatric Pharmacoepidemiology** (Wicklow Meeting Room 3)

**Content**

The increasing use of medications by children and the history of excluding children from clinical trials have created the need for pediatric pharmacoepidemiology, a sub-specialty within pharmacoepidemiology. Unique challenges in studying children, accessing data, defining outcomes, and designing pediatric studies will be discussed. This half-day course will introduce participants who have a good understanding of pharmacoepidemiology to the specific methodologic issues arising in pediatric pharmacoepidemiology and operational approaches used to study medications in children.

**Course Faculty**

**Tamar Lasky, FISPE**, MIE Resources  
**Ann W McMahon**, U.S. Food and Drug Administration  
**Rachel E Sobel, FISPE**, Pfizer Inc.  
**Susan dosReis**, University of Maryland School of Pharmacy Department of Pharmaceutical Health Services Research

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## HALF-DAY MORNING COURSES (CONT.)

8:30am–12:30pm

### Introduction to Pharmacoepidemiology (Wicklow Hall 1)

#### Content

This half-day course will provide participants with a short introduction to the basic principles and concepts of pharmacoepidemiology. The course includes lectures on cohort studies, case-control studies, and bias & confounding.

#### Course Faculty

**Almut Winterstein, FISPE**, University of Florida College of Pharmacy  
**Jennifer Lund**, Gillings School of Global Public Health, University of North Carolina at Chapel Hill  
**Tobias Gerhard, FISPE**, Ernest Mario School of Pharmacy, Rutgers University

### Medical Device Epidemiology (Wicklow Meeting Room 4)

#### Content

This course provides a foundation for medical device epidemiology and its application to the real world. The course will incorporate didactic lectures and interactive case studies that highlight novel medical devices and combination products.

#### Course Faculty

**Colin Anderson-Smits**, U.S Food and Drug Administration  
**Kourtney Davis**, GlaxoSmithKline PLC  
**Chantal Holy**, Johnson and Johnson  
**Katherine Etter**, Johnson and Johnson  
**Jessica Jalbert**, LA-SER Group & Weill Cornell Medical College  
**Mary E Ritchey**, RTI Health Solutions  
**Michael Steinbuch, FISPE**, Procter and Gamble

### Introduction to the Evaluation of Therapeutic Risk Management Programs (Liffey Meeting Room 3)

#### Content

This course presents an overview of European and US risk management principles, with a focus on methods and examples for evaluating the effectiveness of risk minimization measures. The didactic section includes speakers from European and US regulatory, industry and research communities to present background, trends in regulatory requirements, and examples of effective evaluation techniques. The workshop section asks participants to work in groups to develop an evaluation plan for one of two health outcomes of interest for a hypothetical product. The groups present their plans from this case study to the “regulatory panel (faculty)” for feedback and discussion.

#### Course Faculty

**Gerald Dal Pan**, Center for Drug Evaluation and Research, U.S. Food and Drug Administration  
**Almath Spooner**, Health Products Regulatory Authority, Ireland and Vice Chair EMA's PRAC  
**Elaine Morrato**, Colorado School of Public Health  
**Meredith Smith**, Global Patient Safety at Amgen  
**Judith Jones, FISPE**, The Degge Group, Ltd  
**Lesley Wise**, Takeda Development Centre Europe Ltd  
**Alicia Gilsonan**, RTI Health Solutions



## HALF-DAY MORNING COURSES (CONT.)

### Adherence to Pharmacotherapy (Wicklow Meeting Room 1)

#### Content

This course will provide an overview of measurement issues to be considered when designing and conducting an adherence study. The course will cover the following topics:

- Description of different constructs of adherence that can be measured: initiation implementation and persistence.
- Selection of measurement techniques according to the construct being measured.
- Strengths and limitations of commonly used techniques: self-reports, medical/pharmacy electronic data and microelectronic monitoring data, among others.
- Discussion of analysis issues: choice of the duration of an adherence interval, taking multiple drug regimens and switches into account, various approaches to summarizing adherence data from the different techniques, and linking adherence data to relevant outcomes.

#### Course Faculty

**Robert Gross, FISPE**, University of Pennsylvania  
Perelman School of Medicine

**Jacqueline Hugtenburg**, Department of Clinical  
Pharmacology and Pharmacy, VU University  
Medical Center, Amsterdam, Netherlands

**Niteesh Choudhry**, Harvard Medical School;  
Center for Healthcare Delivery Sciences,  
Brigham and Women's Hospital

**Jean-Pierre Grégoire, FISPE**, Laval University,  
Québec City, Canada

**Petra Denig**, University Medical Center  
Groningen, The Netherlands

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*Lilly*

Hong Hu, Research Advisor,  
Lilly Research Laboratories

**HALF-DAY AFTERNOON COURSES** *(Ticket required)*

12:30–2:00pm

**Lunch on Your Own**

2:00–6:00pm

**ISPE Newcomers/Early Stage Investigators Workshop** *(Wicklow Hall 1)*

**Content**

This course is aimed at early stage pharmacoepidemiologists who have been in the field for less than 3 years. Participation will lead to enhancement in skills (i.e., development of mentor-mentee relationships, research presentation, and manuscript writing) that are crucial to early success in pharmacoepidemiology. We will also discuss important aspects of early stage professional development in careers in government/regulatory science, academia, and industry.

**Course Faculty**

- Vincent Lo Re III, FISPE**, Center for Pharmacoepidemiology Research & Training, University of Pennsylvania
- Caitlin Knox**, Quintiles
- Tarek Hammad, FISPE**, Merck Research Laboratories
- Sengwee Darren Toh**, Harvard Medical School & Harvard Pilgrim Health Care Institute
- Stella Blackburn, FISPE**, Quintiles
- Irene Petersen, FISPE**, Institute of Epidemiology & Health, University College London
- Quazi Ataher**, Pfizer

**Comparative Effectiveness Research: CER and its Role in Adaptive Licensing** *(Wicklow Meeting Room 4)*

**Content**

Increasingly, regulators are moving towards adaptive licensing, which is the progressive approval or authorization of a medical product characterized by iterative phases of data gathering and regulatory evaluation. Rigorous comparative effectiveness research, which involves generating “real world” evidence about the benefits and risks of medical products, can play a key role in informing adaptive licensing decisions. This year’s course will start with an overview of methodological aspects related to CER and then will narrow the focus to how evidence from comparative effectiveness research can support adaptive licensing.

**Course Faculty**

- Joshua Gagne**, Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women’s Hospital and Harvard Medical School
- Olaf Klungel**, Division of Pharmacoepidemiology & Clinical Pharmacology, University of Utrecht
- Danica Marinac-Dabic, FISPE**, Division of Epidemiology, Center for Devices and Radiological Health, U.S. Food and Drug Administration

**Intermediate Database Utilization Workshop: Using Pharmacoepidemiology Database Resources to Address Drug Safety Research** *(Wicklow Meeting Room 3)*

**Content**

This highly interactive workshop will involve participants in the following topics:

- Examine the use of database resources in pharmacoepidemiology research;
- Define the different types of data resources available for pharmacoepidemiology and the selection criteria to select the most appropriate resource, workshop will strengthen the concepts discussed through participant interaction;
- Assess the quality of electronic medical record data
- Conduct validation studies through a variety of approaches
- Examine characteristics of available resources for data linkage between pharmacoepidemiology resources particularly to patient registry data resources

**Course Faculty**

- Gillian Hall, FISPE**
- Matthew Reynolds**, Evidera
- Brian Sauer**, University of Utah
- Elieen Ming**, Epi Excellence
- Fergus Caskey**, North Bristol, NHS Trust

HALF-DAY AFTERNOON COURSES (CONT.)

**Applying Benefit-Risk Assessment in the Context of Regulatory Submission of New Molecular Entities**

(Liffey Meeting Room 3)

**Content**

- Presentation of Benefit-Risk and patient preference information for regulatory interactions, especially new molecular submissions
- Overview of expectations for developing and presenting the structure and content of Benefit-Risk information
- Quantitative methods for Benefit-Risk assessment
- When and how to use patient preference information to inform regulatory decision-making

**Course Faculty**

**Tarek A Hammad, FISPE**, Merck Research Laboratories  
**Juhaeri Juhaeri**, Sanofi  
**Brett Hauber**, RTI Health Solutions  
**Rebecca Noel**, Eli Lilly and Company

**Practical Skills in Protocol Writing and Computer Programming Relevant to Pharmacoepidemiology**

(Wicklow Meeting Room 1)

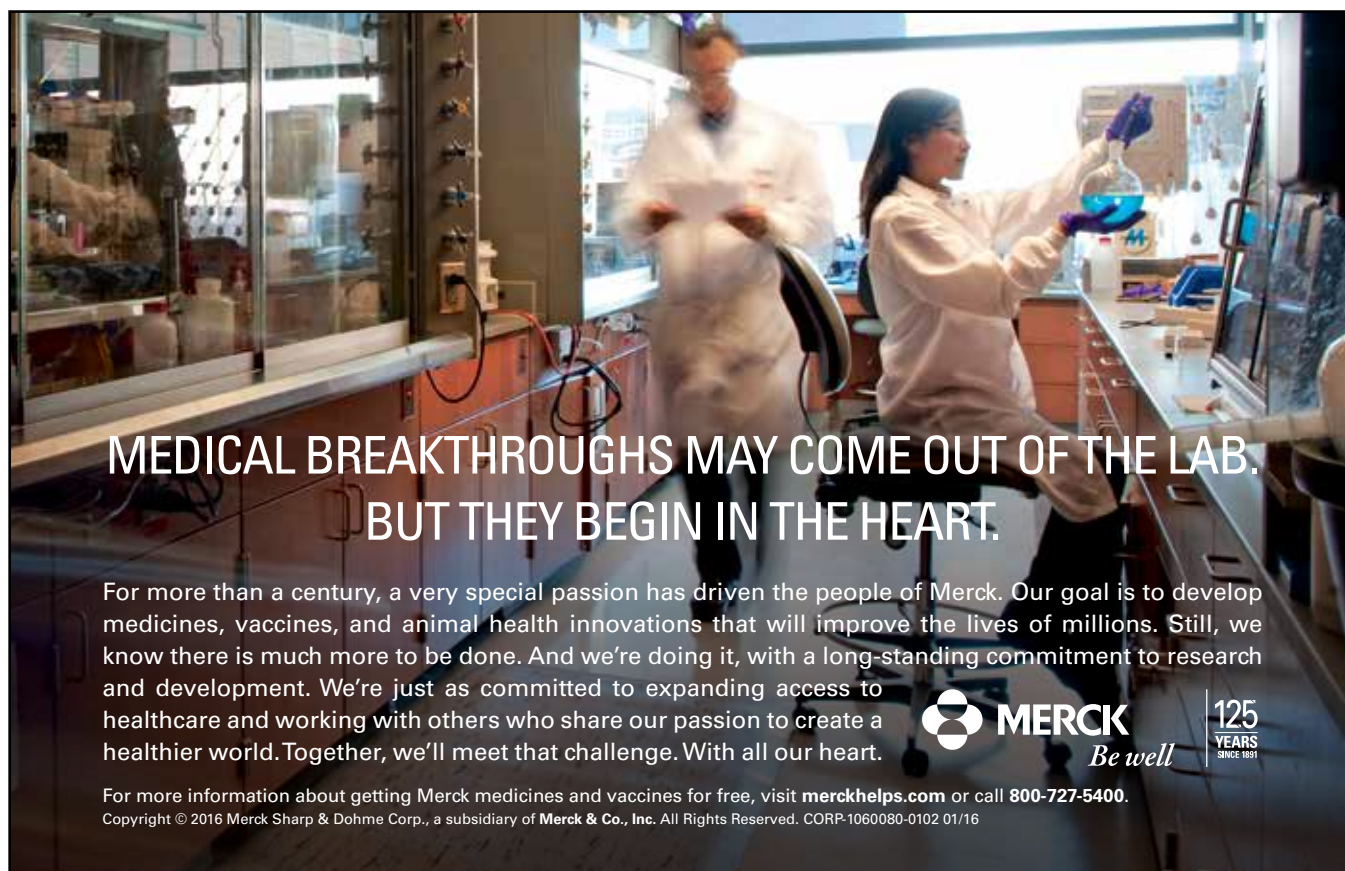
**Content**

Pharmacoepidemiologic studies that involve the use of electronic healthcare data have complex and unique characteristics that must be taken into consideration when executing the studies. This highly interactive course will engage participants in the following topics:

1. Pre-specifying study components in a protocol, including design, analysis, conduct, and reporting of the study, along with a science-based rationale for the choices pertaining to these components.
2. Translating elements of the study protocol into SAS programming

**Course Faculty**

**Christian Hampp**, U. S. Food and Drug Administration, Center for Drug Evaluation and Research, Office of Pharmacovigilance and Epidemiology, Office of Surveillance and Epidemiology, Division of Epidemiology II  
**Jessica Jalbert**, LASER Analytica, Weill Cornell Medical College  
**Chih-Ying (Natasha) Pratt**, U. S. Food and Drug Administration, Center for Drug Evaluation and Research, Office of Pharmacovigilance and Epidemiology, Office of Surveillance and Epidemiology, Division of Epidemiology II  
**Nicole Pratt**, Quality Use of Medicines and Pharmacy Research Centre, Sansom Institute, School of Pharmacy and Medical Sciences, University of South Australia  
**Soko Setoguchi, FISPE**, Duke Clinical Research Institute



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7:30am–5:00pm  
**Speakers' Ready Room**  
 (Liffey Meeting Room 4)

7:30am–6:30pm  
**Registration**  
 (Ground Foyer)

**EDUCATIONAL SESSIONS:  
 HALF-DAY MORNING COURSES** *(Ticket required)*

8:30am–12:30pm  
**Introduction to Drug Utilization Research** *(Wicklow Meeting Room 3)*

**Content**

This educational session provides an overview of drug utilisation research and presents essential methods used. The session includes interaction with participants, question, and answer sessions and discussion during and at the end of each presentation. At the end of the session, the participant will be exposed to:

- Description of the theoretical framework and practical applications of different methods illustrated using selected examples
- Classification systems used in drug utilisation monitoring and research
- Limitations of data sources and methods
- Interpretation of aggregate and individual-based data, variation and change
- Importance of drug utilisation research for public health and implications for policy decisions

**Course Faculty**

**Katja Taxis**, University of Groningen, The Netherlands

**Hanne Strom**, WHO Collaborating Centre for Drug Statistics Methodology, Norwegian Institute of Public Health, Oslo, Norway

**Björn Wettermark**, Centre for Pharmacoepidemiology, Karolinska Institute, Stockholm, Sweden

**Andrew Gilbert, FISPE**, University of South Australia, Adelaide, Australia



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**HALF-DAY MORNING COURSES (Cont.)** *(Ticket required)*

8:30am–12:30pm

**Intermediate Pharmacoepidemiology -- Dealing With Unmeasured Covariates** (Wicklow Hall 1)

**Content**

Covariates are often poorly measured or not measured at all. Unmeasured confounders produce bias, and they lead to divergent results in studies that ought to be near replicates of one another. Unmeasured intermediates can lead to “effects” that run contrary to simple biological cause. This course will classify the options for dealing with unmeasured covariates in study design and analysis. Students will see and be able to discuss examples of self-controlled case series and matched designs, propensity-balancing for proxy-variable control, and instrumental variable analyses.

**Course Faculty**

**Alexander M Walker, FISPE**, World Health Information Science Consultants

**Propensity Scores in Pharmacoepidemiology** (Liffey Meeting Room 2)

**Content**

Issues of bias and confounding relate to study design and analysis in the setting of non-random treatment assignment where compared subjects might differ substantially with respect to comorbidities. Failing to address a lack of balance in the covariates between treated and comparison groups can produce confounded estimates of treatment effect. Faculty will explain how propensity scores can be used to mitigate confounding through standard observational approaches (restriction, stratification, matching, regression, or weighting). The advantages and disadvantages of standard adjustment relative to propensity score-based methods will be discussed. Details of propensity score methodology (variable selection, use, and diagnostics) will also be discussed.

**Course Faculty**

**John Seeger, FISPE**, Optum  
**Jeremy Rassen**, Aetion

**Pharmacovigilance & Signal Detection** (Liffey Meeting Room 1)

**Content**

This half-day course will introduce participants to the principles of surveillance in pharmacovigilance with a focus on quantitative aspects and recent advances in the field. The course will cover classical pharmacovigilance signal detection using spontaneous adverse event reports, quantitative signal detection methods for electronic medical record and claims data, and international initiatives, including the EU-ADR project and the US FDA’s Sentinel program, aimed at using routinely collected electronic healthcare data to conduct signal detection and prospective medical product safety monitoring. The course will involve lectures with ample opportunities for questions and discussion. Use of social media for signal detection will also be discussed.

**Course Faculty**

**Andrew Bate**, Pfizer Ltd  
**Gianluca Trifirò**, University of Messina & Erasmus University Medical Center  
**Joshua Gagne**, Division of Pharmacoepidemiology and Pharmacoconomics, Department of Medicine, Brigham and Women’s Hospital and Harvard Medical School  
**Stephen Evans, FISPE**, London School of Hygiene & Tropical Medicine

**Registries and Prospective Cohort Studies** (Liffey Meeting Room 5)

**Content**

This course will provide an overview of the theory and practice, including field methods, for the design, execution and interpretation of registries and prospective studies. Topics include regulatory, methodological and logistical challenges and how studies are evaluated for specific purposes. Special applications relating to pregnancy registries, emerging therapies and Post-Authorization Safety Studies will be reviewed, as well as current guides to quality for prospective studies. An interactive case study will be presented to allow attendees to engage in critical reflection.

**Course Faculty**

**Nancy A Dreyer, FISPE**, Quintiles  
**Christina D Mack**, Quintiles  
**Sonia Hernández-Díaz, FISPE**, Department of Epidemiology, Harvard T.H. Chan School of Public Health  
**Deborah Layton**, Drug Safety Research Unit, Portsmouth University

**HALF-DAY MORNING COURSES (Cont.)**

8:30am–12:30pm

**Modern Pregnancy Pharmacoepidemiology: Methodological Challenges in Exposure Measurement and Implications for Study Design and Analysis** (Wicklow Meeting Room 5)

**Content**

In this half day course, we will discuss study design and analysis aspects related to exposure in studies of drug utilization and drug safety in pregnancy. The course format will consist of four short methods-focused presentations by faculty with Q&A along with two break-out sessions giving participants the opportunity to discuss and report back on the assigned readings, and a short faculty-moderated session wrap-up.

The content of this course has changed from last year's. While in 2015 the course provided an overview of issues that are particular to pregnancy safety research, this year the focus will be on specific challenges related to exposure measurement. Some of the topics to be covered include defining the etiologically relevant time window (including issues related to LMP estimation and differential opportunity for exposure), how to define exposure (e.g., number of prescriptions, days supply overlap, patient recall, drug class or individual drugs), how to define the comparator group (e.g., unexposed with same condition, active comparator, exposed during a different time window in pregnancy), dose-response analyses, value of positive controls (i.e., assess known associations between the exposure and an outcome), and sensitivity analysis evaluating potential bias associated with exposure misclassification. Advantages and disadvantages of different approaches will be discussed.

**Course Faculty**

**Andrea Margulis**, RTI Health Solutions  
**Brian Bateman**, Brigham and Women's Hospital, Massachusetts General Hospital, Harvard Medical School

**Krista Huybrechts, FISPE**, Brigham and Women's Hospital and Harvard Medical School

**Helle Kieler**, Karolinska Institutet

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**EDUCATIONAL SESSIONS:  
HALF-DAY AFTERNOON COURSES** (Registration required)

12:30-2:00pm

**Lunch on  
Your Own**

12:30-2:00pm

**New Member/  
New Investigator  
Luncheon**

(The Liffey)

Ticket Required.  
By Invitation Only.

2:00-6:00pm

**Advanced Topics in Pharmacoepidemiology** (Liffey Hall 1)

**Course Instructors/Presentations:**

**Kenneth J Rothman, FISPE**, RTI Health Solutions:  
*The Significance of the ASA Statement on  
Significance and P-Values*

**Robert Glynn**, Brigham and Women's Hospital and  
Harvard Medical School: *Competing Risks in  
Pharmacoepidemiology*

**Heather Whitaker**, The Open University: *Advances  
in the Self-controlled Case Series Method*

**Suzanne Cadarette**, University of Toronto:  
*Diffusion of Methods Innovation in  
Pharmacoepidemiology*

**Advanced Drug Utilization Research** (Liffey Meeting Room 1)

**Content**

This interactive educational program includes presentations, question and answer sessions and a final discussion with the faculty panel. The session will involve participants in the:

- Use of drug utilisation information from administrative health data to improve medicines use
- Use of prescribing quality indicators to assess prescribing
- Application of principles derived from Health Services and Implementation Research to the design of a clinical intervention
- Methods for evaluating the effect of clinical or policy interventions
- Interpretation of the evaluation data and dissemination of results

**Course Faculty**

**Petra Denig**, University of Groningen

**Eimir Hurley**, Trinity College Dublin

**Libby Roughead, FISPE**, School of Pharmacy and Medical Sciences, University of South Australia

**Lisa Pont, FISPE**, Australian Institute of Health Innovation, Macquarie University

**Pharmacoepidemiologic Considerations for Biologics and Biosimilars**

(Wicklow Meeting Room 3)

**Content**

This interactive workshop will involve participants in the following topics:

- Update on the current landscape of biologics and biosimilars
- Review regulatory guidelines, particularly focused on postmarketing, pharmacovigilance, and risk management requirements for biologics and biosimilars
- Understand challenges and methodological considerations when conducting post-marketing studies of biologics and biosimilars.
- Discuss primary data collection and use of multiple data sources for evaluating comparative safety and effectiveness of biologics and biosimilars

**Course Faculty**

**Nancy A Dreyer, FISPE**, Quintiles Real World & Late Phase Research and University of North Carolina

**Thijs Giezen**, Foundation Pharmacy for Hospitals in Haarlem, Haarlem, the Netherlands; Expert at the Medicines Evaluation Board in the Netherlands; Member of the EMA Biosimilars Working Party

**Gianluca Trifirò**, University of Messina and Erasmus Medical Center

**Brian D Bradbury**, Amgen, Inc. and University of California Los Angeles School of Public Health

**Jaclyn L F Bosco**, Quintiles Real World & Late Phase Research and Boston University School of Public Health

**HALF-DAY AFTERNOON COURSES (Cont.)**

2:00–6:00pm

**Epidemiology of Vaccine Safety** (Wicklow Meeting Room 5)

**Content**

This half-day course aims to establish an understanding of some of the ways in which vaccine safety is monitored after licensure, including passive surveillance methods, common observational vaccine-safety study designs and methods, active safety surveillance using sequential analysis, and investigation of signals that arise from active surveillance. The course will involve lectures with ample opportunities for audience participation (questions and discussion).

**Course Faculty**

**S Rizwan Ahmad, FISPE**, Georgetown University  
**Robert T Chen, FISPE**, Centers for Disease Control and Prevention  
**Steven Bailey**, Pfizer  
**Patricia Saddier**, Merck  
**Martin Kuldorff**, Harvard Pilgrim Health Institute  
**Katherine Yih**, Harvard Pilgrim Health Institute

**Using Field Studies to Value-add in Pharmacoepidemiology** (Liffey Meeting Room 5)

**Content**

This course provides basic theory and practical tips in conducting pharmacoepidemiologic studies when required information is not captured in databases or when large databases are not available. Common study designs used to collect data through observation, medical records or questionnaires will be presented and the strengths and limitations of working without large databases discussed. Hands on experience via a workshop will expose course participants to different study designs and rich discussions on how to answer relevant questions about safety and utilization of medicines in primary and secondary care settings using field studies.

**Course Faculty**

**Veronika Wirtz**, Boston University School of Public Health  
**Katja Taxis**, University of Groningen  
**Annie Fourrier-Reglat**, University Bordeaux  
**Lisa Pont, FISPE**, Australian Institute of Health Innovation, Macquarie University

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## HALF-DAY AFTERNOON COURSES (Cont.) *(Ticket required)*

2:00–6:00pm

### Regulatory Pharmacoeppi (Wicklow Hall 1)

#### Content

- Understand the intent and structure of regulation to protect the Public Health.
- Appreciate the challenges of decision making with weak data.
- Know about practical approaches typically chosen by regulators.
- Recognize the challenges epidemiology faces to provide sufficient information for public health decision making.
- Gain an overview of worldwide challenges for drug regulatory agencies and variation in approaches.
- Know about current strategies to strengthen regulation in the face of these challenges.

#### Course Faculty

**Gerald Dal Pan**, Center for Drug Evaluation and Research, Food and Drug Administration  
**June Raine**, Medicines and Healthcare Regulatory Products Agency  
**Stephen JW Evans, FISPE**, London School of Hygiene and Tropical Medicine

6:00–7:00pm

### Welcome Reception/International Chapter & Academic Showcase (3rd Floor)

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- **Kathleen Bennett**, Chair, 2016 Local Host Committee
- **Mary E Ritchey**, Chair, 2016 Scientific Program Committee
- **Sonia Hernández-Díaz, FISPE**, ISPE President

#### International Chapter & Academic Showcase Participants

- Center for Drug Safety & Effectiveness, Johns Hopkins University
- Department of Pharmaceutical Outcomes & Policy, College of Pharmacy, University of Florida
- Division of Pharmacoepidemiology & Pharmacoeconomics, Brigham and Women's Hospital & Harvard Medical School
- ISPE Gulf Chapter
- ISPE Latin-America Chapter
- ISPE Student Council & Student Chapters
- London School of Hygiene and Tropical Medicine
- Pharmacoepidemiology Program, Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill
- PhD in Pharmacoepidemiology, RCSI Population Health
- Postgraduate Programme in Pharmacovigilance, Drug Safety Research Unit
- Rutgers, the State University of New Jersey
- School of Pharmacy at University College Cork
- University of Illinois at Chicago
- University of Rhode Island

7:30-9:30pm

### Students/Early Career Professionals Meet & Greet (Ely Bar & Brasserie)

- Registration required -- limited capacity. Organized by the Student Council. Please contact [SISPEchair@gmail.com](mailto:SISPEchair@gmail.com) for more information, and to RSVP.

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7:00–8:00am

## Coffee & Tea (The Forum)

## Poster Session A Set-Up (The Forum & 3rd Floor)

## Guidelines for Cross-National Comparison of Drug Utilization (Liffey Boardroom 3)

*Open to all who are interested.*

This special session will present the draft guideline, produced by a group of experts from IMI-Protect, EuroDURG and WHO CC for Pharmaceutical Policy and Regulation. The project was selected and funded by the ISPE Strategic Planning Committee under the Society's Call for Manuscripts Initiative.

Based on a literature search, a review template for CNC DU studies was built to address the main methodological issues, (standardize the information extraction, assess the risk of bias in the exposure estimation of each country or region compared, and evaluate the validity of the comparison between countries or regions). The information gathered was used to develop good practice guidelines for designing, conducting, analyzing and reporting CNC DU studies.

The project leaders will present the results and discuss with the audience whether the following areas were well addressed: reliability and validity of population coverage; drug coverage; drug terminology issues; biases affecting accuracy and precision of exposure estimates. Comments will be collected and embedded in a final draft of the guidelines.

Next steps will be discussed to ensure that standardized guidelines will enhance the validity and reliability of CNC DU studies, and facilitate their peer review, correct interpretation of CNC DU studies, and adequate translation into pharmaceutical policy decision-making. The final draft of the guidelines will be submitted to the ISPE membership for comments consistent with the ISPE Policy Manual and sent to the ISPE Board for action.

7:00am–5:00pm

## Speakers' Ready Room (Liffey Meeting Room 4)

7:00–8:00am

## Project on SCAN (AsPEN SIG) (Liffey Boardroom 1)

*Open to all who are interested.*

7:00am–6:00pm

## Registration (Ground Foyer)

7:30-8:15am

## Chapter Meetings

- **FarmacoEpiEnRed** (Wicklow Meeting Room 3)
- **Latin America** (Wicklow Meeting Room 4)
- **Gulf Region** (Wicklow Meeting Room 5)

8:00am-6:00pm

## Exhibits/Posters (The Forum)

8:00-8:30am

## WELCOME (The Auditorium)

- ▶ **Mary E Ritchey**, Chair, 2016 Scientific Committee
- ▶ **Kathleen E Bennett**, Chair, 2016 Local Host Committee
- ▶ **Sonia Hernández-Díaz**, FISPE, President, ISPE

8:30-10:00am

## PLENARY SESSION (The Auditorium)

### Representative Sampling in Pharmacoepidemiology: A Hot Topic or Hot Air?

Speakers:

- ▶ **Charlie Poole**, University of North Carolina, Chapel Hill
- ▶ **Stephen JW Evans**, FISPE, London School of Hygiene and Tropical Medicine
- ▶ **Xavier Kurz**, European Medicines Agency

Moderator:

- ▶ **Jessica Franklin**, Harvard Medical School and Brigham and Women's Hospital

A recent, highly publicized paper, "Perils and potentials of self-selected entry to epidemiological studies and surveys," published in the Journal of the Royal Statistical Society, put forth the argument that all epidemiologic studies should be based on representative samples of a specific patient population. For example, in a study of diabetes treatments, the target population might be all adult type 2 diabetes patients in the United States, and a representative sample could be formed either by randomly selecting patients from the target population into the study or by using a different sampling method, accompanied by sampling weights to adjust estimates for non-random sampling.

While representative sampling is the norm in fields such as survey research, where the focus is on estimating measures that characterize a specific population, it is almost never used in research aiming to estimate causal effects, including both randomized trials and observational studies of treatments. Some argue that without representativeness the effects estimated from such studies are applicable only to the patients directly in the study and cannot be extrapolated to other populations, rendering the research essentially useless. Under this view, most pharmacoepidemiology studies conducted to date are invalid. This contentious issue is stirring an important debate in the research community, as evidenced by the more than 30 comments that were published alongside the paper.

This session will explore the role of representative sampling in pharmacoepidemiology from different perspectives. Dr. Poole will present background on representative sampling, its main methods, and practical issues in its application to pharmacoepidemiology, providing a pharmacoepidemiologist's viewpoint. Dr. Evans will provide a statistician's perspective, challenging several of the epidemiologists' viewpoints. Dr. Kurz will share the views and experience of regulators.

10:00-10:30am

**Break/Posters/  
Exhibits** (The Auditorium)

10:30am-noon **CONCURRENT SESSIONS: CONTRIBUTED PAPERS**

## Meascàn de Meds: Utilization and Trends (The Liffey A)

Moderators: Gianluca Trifirò & Björn Wettermark

10:30am

▶ **Time-Trends and Predictors of Oral Disease Modifying Drug Treatment for Multiple Sclerosis [1]**

Rishi J Desai, Mufaddal Mahesri, Eimir Hurley, Joshua J Gagne, Angela Tong, Tanuja Chinis, Sarah Minden, Olga S Matlin, William H Shrank, Niteesh Choudhry. (United States)

10:45am

▶ **Drug Utilization Patterns in Relapsing-Remitting Multiple Sclerosis: A Population-Based Cohort Study [2]**

Irene Eriksson, Thomas Cars, Fredrik Piehl, Rickard Malmström, Björn Wettermark, Mia von Euler. (Sweden)

11:00am

▶ **Psoriasis Patients New to Specialist Care in Sweden 2007-2009: A Two-Year Follow-Up of Treatment Allocation [3]**

David Hägg, Marie Eriksson, Marcus Schmitt-Egenolf, Anders Sundström. (Sweden)

11:15am

▶ **Cardiovascular Medication Utilization by Educational Level Among Heart Failure Patients: A Population-Based Cohort Study in the Lazio Region, Italy [4]**

Anna Maria Bargagli, Silvia Cascini, Claudia Marino, Marina Davoli, Nera Agabiti. (Italy)

11:30am

▶ **Influenza Vaccination Uptake Among Adult Asthma Patients in the United States [5]**

Sascha van Boemmel-Wegmann, Haesuk Park. (United States)

11:45am

▶ **The Impact of a Blood Glucose Test Strip Quantity Limit Policy on Clinical Outcomes [6]**

Diana Martins, Mina Tadrous, Michael Paterson, Baiju R Shah, Muhammad M Mamdani, Jack V Tu, Anna Chu, David N Juurlink, Samantha Singh, Tara Gomes. (Canada)

## BRACE Yourself (The Liffey B)

Moderators: Elizabeth Andrews, FISPE & Inge Zomerdijk

10:30am

▶ **Risk Minimization Evaluation in a Distributed Data Network – An IMEDS Evaluation Pilot Assessment of the 2010 Class Label Change for Proton Pump Inhibitors [7]**

Rachel E Sobel, Andrew Bate, James Marshall, Gregory Daniel, Troy McCall, Jeffery Brown, Robert F Reynolds. (United States)

10:45am

▶ **The Impact Of Risk Minimisation Measures On The Incidence And Prevalence Of Use Of Strontium Ranelate At The Population Level: Preliminary Results Of A Multi-National Cohort Study Including 5 European Countries [8]**

Klara Berencsi, Cristina Reyes Reyes, Lars Pedersen, Preciosa Coloma, Francesco Lapi, Monica Simonetti, Peter Rijnbeek, Miriam C Sturkenboom, Daniel Prieto-Alhambra. (United Kingdom)

11:00am

▶ **Evaluating Patient Knowledge of Risks and Safe Use of Xarelto (Rivaroxaban) [9]**

Laurie J Zografos, Kiliana Suzart, Andrea Horvat-Broecker, Montse Soriano-Gabarró, Dan L Wolin, Brian Calingaert, Eric K Davenport, Kelly A Hollis, Elizabeth Andrews. (United States)

11:15am

▶ **An Association Between Beliefs About Medicines and Drug Non-Adherence in Patients with Chronic Diseases in China [10]**

Li Wei, Sarah Chapman, Xiaomei Li, Xin Li, Ruoling Chen, Angel Chater, Rob Horne. (United Kingdom)

11:30am

▶ **Improving Medicines Management at Patients Hospital Discharge [11]**

Alice V Gilbert, Michael S Roberts, Desmond B Williams, Bhavini Patel, Joanna Wallace, Andrew L Gilbert. (Australia)

11:45am

▶ **Everyone Isn't Average: Quantifying Heterogeneity in Crohn's Disease Patients' Benefit-Risk Tradeoff Preferences [12]**

Meenakshi Bewtra, F Reed Johnson, Shelby Reed, Frank I Scott, James D Lewis. (United States)

## 10:30am-Noon CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Diabetes: Adverse Events of Cardiovascular Treatment: Head to Toe (Wicklow Hall 2)

Moderators: Deb Casso & Yea-Huei Kao Yang, FISPE

10:30am

▶ **Clinical Outcomes Of Concomitant Use Of Warfarin And Selective Serotonin Reuptake Inhibitors [13]**

Yaa-Hui Dong, Katsiaryna Bykov, Niteesh K Choudhry, Macarius M Donneyong, Krista F Huybrechts, Raisa Levin, Sebastian Schneeweiss, Joshua J Gagne. (United States)

10:45am

▶ **Propranolol Use and Survival from Breast Cancer: A Pooled Analysis of 133,251 Breast Cancer Patients from the European Cancer Pharmacoeconomics Network [14]**

Chris Cardwell, Anton Pottegård, Evelien Vaes, Hans Garmo, Chris Brown, Pauline Vissers, Michael O'Rorke, Kala Visvanathan, Deirdre Cronin-Fenton, Harlinde De Schutter, Mats Lambe, Des Powe, Myrthe van Herk-Sukel, Anna Gavin, Søren Friis, Linda Sharp, Kathleen Bennett. (United Kingdom)

11:00am

▶ **Statins and Reduced Risk of Liver Cancer: Evidence for Confounding [15]**

Laurel A Habel, Ninah Achacoso, Bruce Fireman, Gary D Friedman. (United States)

11:15am

▶ **Acute Liver Injuries and Antiarrhythmic Drugs: A Case-Referent Study from the PGRx Surveillance System on Medicine Use [16]**

Lamiae Grimaldi-Bensouda, Jacques Benichou, Michel Rossignol, Dominique Larrey, Lucien Abenheim, Thierry Poynard. (United Kingdom)

11:30am

▶ **Association of Idiopathic Inflammatory Myositis with Statin Exposure: A Population Based Case Control Study [17]**

Gillian E Caughey, Genevieve M Gabb, Saffron Ronson, Michael Ward, Catherine L Hill, Vidya Limaye. (Australia)

11:45am

▶ **Confounding of the Association Between Statins and Parkinson Disease: Review and Meta-Analysis [18]**

Katsiaryna Bykov, Kazuki Yoshida, Marc G Weiskopf, Joshua J Gagne. (United States)

### Pregnancy and Beyond (Liffey Hall 2)

Moderators: Sara Ephross & Kathryn Rough

10:30am

▶ **Ondansetron Use Among Pregnancies Identified In The Sentinel Distributed Database [19]**

Lockwood G Taylor, Patty Greene, Steven T Bird, Marsha E Reichman, Leyla Sahin, Melissa S Tassinari, Susan E Andrade, Katherine Haffenreffer, Darren Toh. (United States)

10:45am

▶ **Use Of Antibiotics During Pregnancy And The Risk Of Spontaneous Abortion [20]**

Flory T Muanda, Odile Sheehy, Anick Bérard. (Canada)

11:00am

▶ **Pregnancy Outcomes in Women with Chronic Hypertension Initiated on Labetalol versus Methyldopa [21]**

Brian T Bateman, Krista F Huybrechts, Jacqueline Cohen, Helen Mogun, Rishi J Desai, Elisabetta Patorno, Sonia Hernández-Díaz. (United States)

11:15am

▶ **Risk Comparison for Prenatal Use of Different Analgesics and Selected Birth Defects [22]**

Julia D Interrante, Elizabeth C Ailes, Jennifer N Lind, Marlene Anderka, Marcia L Feldkamp, Martha M Werler, Suzanne M Gilboa, Margaret A Honein, Cheryl S Broussard. (United States)

11:30am

▶ **High Exposure to Phthalates from Medications and Male Genital Malformations [23]**

Katherine E Kelley, Sonia Hernández-Díaz, Russ Hauser, Allen A Mitchell. (United States)

11:45am

▶ **Language Development in 3 Year Old Children After Prenatal Exposure to Opioids [24]**

Eva Skovlund, Marte Handal, Randi M Selmer, Ragnhild E Brandlistuen, Svetlana Skurtveit. (Norway)

## 10:30am-Noon CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Keeping an "I" in Opioid Use (Liffey Hall 1)

Moderators: Paul Coplan & Eileen Ming

10:30am

▶ **Serious Opioid Toxicity in Children with Non-Cancer Pain: A Retrospective Cohort Study [25]**

Cecilia P Chung, S Todd Callahan, William O Cooper, William D Dupont, Katherine T Murray, Kathi Hall, Judith A Dudley, C Michael Stein, Wayne A Ray. (United States)

10:45am

▶ **Long-Acting Oxycodone Co-Prescribing Among US Nursing Home Residents [26]**

Kevin M Fain, G Caleb Alexander, Carlos Castillo-Salgado, David D Dore. (United States)

11:00am

▶ **Doctor/Pharmacy Shopping Measures for Opioid Analgesics and Diagnosed Abuse and Addiction in a US Administrative Database [27]**

Daina B Esposito, M Soledad Cepeda, Ruihua Yin, Howard Chicoat, Paul Coplan, Stephan Lanes. (United States)

11:15am

▶ **The Role of Socioeconomic Status in Regional Variation of Opioid Utilisation in the Greater London Area [28]**

Ji Hye Bing, Teng-Chou Chen, Li-Chia Chen, Roger Knaggs. (United Kingdom)

11:30am

▶ **Opioid Tolerance Prior to Initiation of High-Dose Oxycodone in Commercially-Insured Adults in the US, 2010-2014 [29]**

Jessica C Young, Jennifer L Lund, Nabarun Dasgupta, Michele Jonsson Funk. (United States)

11:45am

▶ **The Preventable Risk of Fentanyl Prescribing [30]**

Shawn C Bugden, Kevin J Friesen, Cornelius Woelk. (Canada)

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## 1:30-3:00pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Data Lost and Found (The Auditorium)

Moderators: **Til Stürmer, FISPE & Marie Linder**

10:30am

- ▶ **Effects of Expanding the Look-Back Period to All Available Data in the Assessment of Covariates [31]**

Sonja S Nakasian, Jeremy Rassen, Jessica M Franklin. (United States)

10:45am

- ▶ **Classifying Patient Histories in Medicare Claims: Fixed vs. All-Available Lookbacks [32]**

Mitchell M Conover, Til Stürmer, Charles Poole, Robert J Glynn, Ross J Simpson, Jr., Michele Jonsson Funk. (United States)

11:00am

- ▶ **Recency of Comorbid Diseases and One-Year Mortality: A Registry-Based Cohort Study in Denmark [33]**

Morten Madsen, Vera Ehrenstein, Henrik T Sørensen. (Denmark)

11:15am

- ▶ **Avoiding Pitfalls When Combining Multiple Imputation and Propensity Scores [34]**

Emily Granger, Mark Lunt, Jamie C Sergeant. (United Kingdom)

11:30am

- ▶ **Generalizing Randomized Clinical Trials: Challenges Due to Missing Data on the Target Population [35]**

Jin-Liern Hong, Michele Jonsson Funk, Robert LoCasale, Sara Dempster, Stephen R Cole, Til Stürmer. (United States)

11:45am

- ▶ **Confounding by Healthcare System Characteristics in Comparative Effectiveness Research [36]**

Jessica M Franklin, Macarius M Donneyong, Rishi J Desai, Mehul D Patel, Panagiotis Mavros, Leona Markson, Caroline McKay, Sebastian Schneeweiss. (United States)

Noon -1:30pm

### Lunch/Poster Session A/Exhibits (The Forum)

### Lunch/Roundtable Discussions (Liffey Meeting Room 1)

#### Roundtable Discussions

*To foster the ability of the more junior participants to network and first-timers to meet others attending the ICPE, ISPE is hosting several informal lunchtime discussion roundtables on Friday and Saturday. The facilitators are listed below. There will be NO formal presentations made at the roundtables. The objectives are discussion, information exchange, and networking. Seating is limited; first-come, first-served.*

- **Gianluca Trifirò**  
*Role and Responsibilities of Pharmacoepidemiologists in Academia*
- **Kate Lapane, FISPE**  
*Medication Issues in Vulnerable Populations*
- **Stella Blackburn, FISPE**  
*Adaptive Pathways*

Noon-1:30pm

### ISPE Committee/Council Meetings

(Open to all participants; Lunch available.)

- **Membership Committee** (Wicklow Meeting Room 3)
- **Global Development Committee** (Wicklow Meeting Room 4)
- **Fellowship & Awards Committee** (Wicklow Meeting Room 5)
- **Finance Committee** (Wicklow Meeting Room 2a)
- **Public Policy Committee** (Wicklow Meeting Room 2b)
- **Student Council** (*open to all students*) (Wicklow Meeting Room 1)

12:15-1:15pm

### Spotlight Poster Session (3rd Floor; Lunch available)

- Adherence
- Databases
- Devices
- Pediatrics

## 1:30-3:00pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Bittersweet: Trends and Treatments in Diabetes (The Liffey A)

Moderators: Ken Hornbuckle, FISPE & Rosa Gini

1:30pm

► **Preferential Prescribing of Linagliptin to Patients with Renal or Cardiac Disorders in Japan [39]**

Soulmaz Fazeli Farsani, Atsushi Taniguchi, Rie Ikeda, Kimberly G Brodovicz, Dorothee B Bartels. (Germany)

1:45pm

► **Estimated Life Expectancy and Cause-Specific Mortality in White, South Asian and Black Patients with Type 2 Diabetes [38]**

Alison K Wright, Evangelos Kontopantelis, Martin K Rutter, Darren M Ashcroft. (United Kingdom)

2:00pm

► **Trends In Incidence, Prevalence And Prescribing In Type 2 Diabetes Mellitus [37]**

Manuj Sharma, Irwin Nazareth, Irene Petersen. (United Kingdom)

2:15pm

► **Augmentation Patterns Amongst Metformin Initiators with Type 2 Diabetes Mellitus (T2DM) [40]**

Chandrasekar Gopalakrishnan, Sebastian Schneeweiss, John D Seeger, Jun Liu, Elisabetta Patorno. (United States)

2:30pm

► **Trends Of Use Of Non-Insulin Antidiabetic Drugs Between 2006-2013 In France [41]**

Mickael Arnaud, Julien Bezin, Bernard Bégaud, Antoine Pariente, Francesco Salvo. (France)

2:45pm

► **Antidepressants and the Risk of Type 2 Diabetes Mellitus Among Publicly-Insured U.S. Youth [42]**

Mehmet Burcu, Julie M Zito, Susan dosReis, Fadia T Shaya, Daniel J Safer. (United States)



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## 1:30-3:00pm CONCURRENT ORAL PRESENTATION SESSIONS

### Cancer: Around the World in Databases (The Liffey B)

Moderators: Jason C Hsu & James Kaye

1:30pm

▶ **Predictors of Induction Chemoimmunotherapy Among Older US Adults with Follicular Lymphoma [43]**

Laura L Hester, Steven I Park, Jennifer L Lund. (United States)

1:45pm

▶ **Validation of Claims-Based Definitions of Incident Colorectal Cancer (CRC) in a North Carolina (NC) Medicare Population [44]**

Monica E D'Arcy, Til Stürmer, Anne Marie Meyer, Michele Jonsson-Funk, Robert Sandler, John Baron, Melissa Troester, Jennifer Lund. (United States)

2:00pm

▶ **Clinical Outcomes of Stage II and III Breast Cancer Patients in Denmark [45]**

Deirdre Cronin-Fenton, Anders Kjærsgaard, Mette Nørgaard, Justyna Amelio, Alex Liede, Rohini K Hernandez, Henrik T Sørensen. (Denmark)

2:15pm

▶ **Post-Diagnostic Statin Use and Breast Cancer Survival: A Nationwide Cohort Study in Scotland [46]**

Úna C Mc Menamin, Chris R Cardwell, Carmel M Hughes, Liam J Murray. (United Kingdom)

2:30pm

▶ **Low-Dose Aspirin and Survival Benefit in Gastrointestinal Malignancies [47]**

Martine A Frouws, Esther Bastiaannet, Ruth E Langley, John WK Chia, Myrthe PP Van Herk-Sukel, Hein Putter, Cornelis JH Van de Velde, Johanneke EA Portielje, Gerrit-Jan Liefers. (Netherlands)

2:45pm

▶ **Initiation and Adherence with Bone-Targeting Agents in US Men with Bone Metastases from Prostate Cancer [48]**

Anne M Butler, Karynsa Cetin, Rohini K Hernandez, Robert A Overman, Jungin Kim, B Diane Reams, Bradford R Hirsch, Amy P Abernethy, Alexander Liede, M Alan Brookhart. (United States)



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## 1:30-3:00pm CONCURRENT ORAL PRESENTATION SESSIONS

### Playing Catch-up in Pediatric Pharmacoepidemiology (Wicklow Hall 2)

Moderators: Susan Oliveria, FISPE & Sudha Raman

1:30pm

- ▶ **Birth Cohort Effects on Overall and Subtype-Specific Antibiotic Use Among Infants Born in Denmark 2004-2012 [49]**  
Alan C Kinlaw, Henrik T Sørensen, Jennifer L Lund, Lars Pedersen, Julie L Daniels, Michael D Kappelman, Til Stürmer. (United States)

1:45pm

- ▶ **Development and Validation of an Algorithm for Identifying Pediatric Patients with Type 2 Diabetes in Claims Data [50]**  
Dana Y Teltsch, Richard S Swain, Soulmaz Fazeli Farsani, Kimberly G Brodovicz, Stefan Kaspers, Samuel Huse, Nicholas Sicignano, Beth L Nordstrom, Dorothee B Bartels. (United States)

2:00pm

- ▶ **Suicide Trends and Risk Factors in Youth Aged 10-19 Years, Texas, USA [51]**  
Deanna A Oleske, Denise M Oleske, Sharon M Derrick, Merrill O Hines. (United States)

2:15pm

- ▶ **ADHD Treatment and Diagnosis – Importance of Relative Age in Grade in Norway [52]**  
Øystein Karlstad, Kari Furu, Siri E Håberg, Inger Johanne Bakken. (Norway)

2:30pm

- ▶ **Safety of Stimulants in Children with Epilepsy: A Retrospective Cohort Study [53]**  
Xinyue Liu, Paul Carney, Regina Bussing, Richard Segal, Linda Cottler, Almut Winterstein. (United States)

2:45pm

- ▶ **Comparative Effectiveness Of NSAID Treatment Versus No Treatment For PDA In Preterm Infants [54]**  
Jonathan L Slaughter, Patricia B Reagan, Thomas B Newman, Mark A Klebanoff. (United States)

### Patients, Prescriptions, Policy & Pennies (Liffey Hall 2)

Moderator: David Martin

1:30pm

- ▶ **Potential Impact of Proposed Limits on Clinical Data Collected from Primary Care for a National Research Database [55]**  
Wilhelmine Meeraus, Jennifer Campbell, Daniel Dedman, Arlene Gallagher, Antonis Kousoulis, Tarita Murray-Thomas, Jessie Oyinlola, Helen Strongman, Rachael Williams, Tim Williams. (United Kingdom)

1:45pm

- ▶ **The Impact of State Chemotherapy Parity Laws on Use and Spending for Oral Chemotherapy [56]**  
Stacie B Dusetzina, Haiden A Huskamp, Aaron N Winn, Ethan M Basch, Nancy L Keating. (United States)

2:00pm

- ▶ **Disclosure of Industry Payments to Prescribers: Industry Payments Might Be a Factor Impacting Generic Drug Prescribing [57]**  
Jingjing Qian, Richard Hansen, Daniel Surry, Jennifer Howard, Zippora Kiptanui, Ilene Harris. (United States)

2:15pm

- ▶ **What has Been Achieved Five Years After Approval of New Drugs with the Requirement to Set up Patient Registries? A Follow-Up Study [58]**  
Carla J Jonker, Marijke HM van den Berg, Arno W Hoes, Peter M Mol. (Netherlands)

2:30pm

- ▶ **Between Risk Management and Pharmacoepidemiology: Where Do Post-Authorisation Safety Studies Stand Today? [59]**  
Mariana F Almas, Pierre Engel, Marieke L De Bruin, Kathryn Starzyk, Blackburn Stella, Dreyer A Nancy. (United Kingdom)

2:45pm

- ▶ **The Availability of Pharmacies and Pharmacy Services in the United States: 2007-2015 [60]**  
Dima Qato, Shannon Zenk, Jocelyn Wilder, Rachel Harrington, Darrel Gaskin, Caleb Alexander. (United States)

## 1:30-3:00pm CONCURRENT ORAL PRESENTATION SESSIONS

### Adherence: Staying the Course

(Liffey Hall 1)

Moderators: **Julie Lauffenburger & Robert Vander Stichele**

1:30pm

▶ **Longitudinal Asthma Management Profiles: Visualisation of Patient Histories Using Multiple Data Sources [61]**

Eric H Van Ganse, Sandrine Herbage, Alexandra L Dima, Marijn de Bruin, Nathalie Texier, Flore Jacoud, Maeva Nolin, Laurent Laforest, The ASTROLAB Group. (France)

1:45pm

▶ **Determinants of Antihypertensive Adherence Trajectories Among Older US Adults in the First Year After Initiation [62]**

Jennifer Jones, Carri Casteel, Yvonne Golightly, Laura Loehr, Virginia Pate, Steve Marshall, Til Stürmer. (United States)

2:00pm

▶ **Impact of Statin-Related Media Coverage on the Use of Statins: An Interrupted Time Series Analysis Using UK Primary Care Data [63]**

Anthony Matthews, Emily Herrett, Antonio Gasparrini, Tjeerd Van Staa, Ben Goldacre, Laim Smeeth, Krishnan Bhaskaran. (United Kingdom)

2:15pm

▶ **Changes in Statin Adherence in Response to a Myocardial Infarction: The Impact of a Stressful Life Event on Medication Taking Behavior [64]**

Ryan P Hickson, Izabela E Annis, Ley A Killeya-Jones, Gang Fang. (United States)

2:30pm

▶ **Comparative Adherence of Overactive Bladder Agents Among Older Patients [65]**

Samantha Singh, Wayne Khuu, Mina Tadrous, Diana Martins, Muhammad Mamdani, Dean Elterman, Tara Gomes. (Canada)

2:45pm

▶ **Self-Reported Adherence to Different Classes of Antiretroviral Medication as a Predictor of HIV Viral Suppression [66]**

Joseph A Delaney, Robin M Nance, Mari Kitahara, Joseph Eron, Greer Burkeholder, James Willig, Michael Mugavero, Chris Mathewa, Michael Saag, Katerina Christopoulous, Ken Mayer, Susan Heckbert, Heidi M Crane. (United States)

### Study Design Considerations to Address Confounding

(The Auditorium)

Moderators: **Darren Toh & Rob Heerdink**

1:30pm

▶ **Instrumental Variable Analysis Using Pooled Data in Pharmacoepidemiology: A Simulation Study [67]**

Md Jamal Uddin, M Abdul Baker Chowdhury. (Bangladesh)  
*Andrew McAfee Award for the Best Abstract Submitted by a Researcher or Student living in a Developing Country*

1:45pm

▶ **A Reference-Likelihood Alternative to Inverse Probability of Treatment Weighting [68]**

Colin Dormuth. (Canada)

2:00pm

▶ **Variation in Propensity-Adjusted Marginal Estimates of Treatment Effect [69]**

Jessica M Franklin, Wesley Eddings, Robert J Glynn, Sebastian Schneeweiss. (United States)

2:15pm

▶ **The Impact of Study Design and Analysis on “Measurable” and “Un-Measurable” Patient Characteristics in Observational Studies of Glucose-Lowering Drugs in Type 2 Diabetes Mellitus (T2DM) [70]**

Elisabetta Paterno, Chandrasekar Gopalakrishnan, Jessica Franklin, Kimberly Brodovicz, John Seeger, Dorothee Bartels, Jun Liu, Sebastian Schneeweiss. (United States)

2:30pm

▶ **Calendar Time as an Instrumental Variable in Assessing the Risk of Heart Failure with Antihyperglycemic Drugs [71]**

Mugdha Gokhale, John B Buse, Christina Mack, Til Stürmer. (United States)

2:45pm

▶ **Propensity Score Trimming to Identify the Target Population for Comparative Effectiveness Research [72]**

Robert J Glynn, Til Stürmer. (United States)

3:00-3:30pm

### Break/Posters/Exhibits (The Forum)

3:30-5:00pm

## PLENARY SESSION

### Real World Effectiveness: How Effective is It? (The Auditorium)

Speakers:

- ▶ **Sarah Garner**  
National Institute for Health and Care Excellence
- ▶ **Elizabeth B Andrews, FISPE**  
RTI-Health Solutions
- ▶ **Tjeerd van Staa**  
Health eResearch Centre, Farr Institute for Health Informatics Research  
University of Manchester

Moderator:

- ▶ **Almath Spooner**  
EMA's PRAC, Health Products Regulatory Authority, Ireland

Health organisations, decision makers and regulators sometimes require information on real world effectiveness of medicines after authorization (post-authorisation effectiveness studies, PAES). When evaluating real world effectiveness, observational evidence may be required as randomised controlled trials are inappropriate, impossible or inadequate. Delivering timely decision relevant data is essential; however, because of the potential for bias, it has been suggested that observational studies are only suitable for the study of adverse (non-predictable) effects of drugs and not for measuring their intended effects. Much ongoing research is focused on determining the value of observational studies in effectiveness evaluation and the inference that can be drawn from such analyses. The IMI 'GetReal' initiative ([www.imi-getreal.eu](http://www.imi-getreal.eu)) is one example that aims to show how robust new methods of RWE collection and synthesis could be adopted earlier in pharmaceutical R&D and the healthcare decision making process.

This plenary session will focus on the real world effectiveness from different perspectives (decision makers, academics, regulators) and the challenges that are encountered as well as offering thoughts on the how research could and should evolve.

Specific topics covered during this session include:

- Breadth/types of research aims/objectives across perspectives/countries
- Timely and relevant data for decision makers/regulators etc.
- Generating or retrieving data for effectiveness research (e.g. claims data for outcomes research, electronic health records)
- Methodological considerations of bias and confounding

5:00-6:30pm

## SYMPOSIA AND WORKSHOPS

### Catch the Wave: Diffusion of Methodological Innovation in Pharmacoepidemiology [73] (The Auditorium)

- ▶ Suzanne M Cadarette, Robert W Platt, Joann K Ban, Giulia P Consiglio, Mina Tadrous, Malcolm K Maclure. (Canada)

### Patient Engagement in Observational Pharmacoepidmiology Research: Where are We, Where do We Need to be and What are the Steps for Getting There? [74] (The Liffey B)

- ▶ Robert F Reynolds, Anne Trontell, Zhanna Jumadilova, Louis Fiore, Liam Smeeth. (United States)

### Impact of Pharmacovigilance: From PRAC Strategy to Demonstrable Better Health Protection [75] (The Liffey A)

- ▶ Peter Arlett, Marieke De Bruin, Robert Reynolds, Gerald Dal Pan, Saad Shakir, Almath Spooner, Xavier Kurz, June M Raine. (United Kingdom)

### Big Data, Big Picture - Data Visualization of Health [76] (Wicklow Hall 2)

- ▶ Alison Bourke, Patrick B Ryan, Noémie Elhadad, Adam Perer. (United Kingdom)

### Drug Utilisation In Older Populations: The Irish View On Knowing Right From Wrong [77] (Liffey Hall 2)

(Sponsored by the Drug Utilization Research Special Interest Group)

- ▶ Lisa G Pont, Katja Taxis, Veronika Wirtz, Paul Gallagher, Stephen Byrne, Annie Fourrier-Reglat. (Australia)

### Does Randomization Work? Selection Bias in Pragmatic Randomized Clinical Trials and Unblinded Observational Studies [78] (Liffey Hall 1)

(Sponsored by the CER Special Interest Group)

- ▶ Cynthia J Girman, Kourtney J Davis, Liam Smeeth, Sarah Garner, Mary E Ritchey, Corrine De Vries, Andrew W Roddam. (United States)

### Exploring Innovative Methods to Conduct Validation Using United States Medicare Administrative Claims Data [79] (Liffey Meeting Room 2)

- ▶ Elizabeth Andrews, Til Stürmer, Leah J McGrath, Michele Jonsson Funk, Jennifer L Lund, Catherine B Johannes, Alicia W Gilsenan, Christopher Powers. (United States)

6:30-7:15pm

### Special Interest Group (SIG) Meetings (Open to all participants)

- **Adherence** (Wicklow Meeting Room 2B)
- **AsPEN** (Wicklow Meeting Room 3)
- **Biologics & Biosimilars** (Wicklow Meeting Room 2A)
- **BRACE** (EcoCem)
- **Comparative Effectiveness Research** (Wicklow Meeting Room 4)
- **Database** (Liffey Meeting Room 1)
- **Drug Utilization/Health Services Research** (Wicklow Meeting Room 1)
- **Medical Devices** (Liffey Boardroom 3)
- **Medications in Pregnancy** (Liffey Meeting Room 3)
- **Molecular Epi./Biomarkers/ Pharmacogenetics** (Liffey Meeting Room 5)
- **Oncology** (Liffey Boardroom 1)
- **Pediatrics** (Wicklow Meeting Room 5)
- **Vaccines** (Liffey Meeting Room 2)

7:15-9:00pm

### PDS Editorial Board (Spencer Hotel) (By Invitation Only)

7:00-8:00am

**Coffee & Tea**  
(The Forum)

**Poster Session B**  
**Set-up**

(The Forum &  
3rd Floor)

7:00am-5:00pm

**Speakers' Ready**  
**Room**

(Liffey Meeting  
Room 4)

7:00am-6:00pm

**Registration**  
(Ground Foyer)

8:00am-6:00pm

**Exhibits/Posters**  
(The Forum)

## 8:00-9:30am CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Psychotropics in Pregnancy (The Liffey A)

Moderators: Janet Hardy & Caitlin Knox

8:00am

- ▶ **Antidepressant Medication and the Risk of Pregnancy-Induced Hypertension [402]**  
Loes F ter Heijne, Neily Zakayah, Jens HJ Bos, Eelko Hak, Catharina CM Schuilting-Veninga. (Netherlands)

8:15am

- ▶ **Gestational Exposure to SSRIs and Risk of Preeclampsia in Pregnancy: A Study from the Norwegian Mother and Child Cohort Study Accounting for Time-Varying Severity of Depressive and Anxiety Symptoms [403]**  
Angela Lupattelli, Mollie Wood, Olav Spigset, Kate Lapane, Hedvig Nordeng. (Norway)

8:30am

- ▶ **Continuation of Atypical Antipsychotic Medications During Pregnancy and the Risk of Gestational Diabetes [404]**  
Yoonyoung Park, Sonia Hernández-Díaz, , Brian T Bateman, Jacqueline Cohen, Elisabetta Patorno, Helen Mogun, Krista F Huybrechts. (United States)

8:45am

- ▶ **Is There a Dose-Response Relation Between the Use of Lithium in Early Pregnancy and the Risk of Cardiac Malformations? [405]**  
Elisabetta Patorno, Krista Huybrechts, Brian Bateman, Helen Mogun, Rishi Desai, Sonia Hernández-Díaz. (United States)

9:00am

- ▶ **Associations Between Treatment with Selective Serotonin Reuptakeinhibitors (SSRIs) Before and After Pregnancy [406]**  
Irene Petersen, Cormac Sammon, Kate Walters, Michael Sharpe, Jane Walker, Sarah Hardoon. (United Kingdom)

9:15am

- ▶ **Risk Of Neurodevelopmental Disorders Following Prenatal Valproate Exposure: An Observational Cohort Study Using The Health Improvement Network [407]**  
Cormac J Sammon, Rachel L McCrea, David P Osborn, Stephen JW Evans, Phillip J Cowen, Irwin Nazareth, Irene Petersen. (United Kingdom)



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8:00-9:30am **CONCURRENT SESSIONS: CONTRIBUTED PAPERS**

**Pay Attention to Pain: ADHD and Pain Treatment DUS** (The Liffey B)

Moderators: **Judith Jones, FISPE & Mina Tadrous**

8:00am

▶ **Frequency and Predictors of Analgesic Prescribing in US Nursing Home Residents with Persistent Pain [408]**

Kevin M Fain, G Caleb Alexander, David D Dore, Carlos Castillo-Salgado. (United States)

8:15am

▶ **Prevalence and Trends of Analgesic Medication Utilisation in Patients Undergoing Total Joint Replacement Surgery [409]**

Maria CS Inacio, Kara Cashman, Nicole L Pratt, Marianne H Gilliam, Stephen E Graves, Elizabeth E Roughead. (Australia)

8:30am

▶ **Global Utilization of Attention Deficit Hyperactivity Disorder Medications – Preliminary Results [410]**

Sudha R Raman, Kenneth KC Man, Anick Berard, Takoua Boukhris, Yea-Huei Kao Yang, Kiyoshi Kubota, Hidefumi Nakamura, Chien-Chou Su, Miriam CJM Sturkenboom, Ian CK Wong. (United States)

8:45am

▶ **Prescribing Trends of Attention-Deficit Hyperactivity Disorder (ADHD) Medications in UK Primary Care, 1995-2015 [411]**

Christel Renoux, Ju-Young Shin, Sophie Dell'Aniello, Emma Fergusson, Samy Suissa, CNODES Canadian Network for Observational Drug Effect Studies. (Canada)

9:00am

▶ **Drug Utilization of Lisdexamfetamine Dimesylate in European Countries [412]**

Birgit Ehlken, Dorothea von Bredow, William A Blumentals, Barbara Thun, Jacco Keja, Tricia Maxwell. (Germany)

9:15am

▶ **Treatment Patterns in Adults with Newly Treated Attention Deficit/Hyperactivity Disorder [413]**

Yanmin Zhu, Wei Liu, Yan Li, Paul S Kubilis, Almut G Winterstein. (United States) (Netherlands)

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## 8:00-9:30am CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Psychotropic Trends on Populations from a Multinational Perspective (Wicklow Hall 2)

Moderators: Yola Moride, FISPE & Maire O'Dwyer

8:00am

- ▶ **Psychotropic Medicine Use in Australia (2006 to 2014); Annual Incidence, Prevalence and Patterns of Use [414]**  
Jonathan Brett, Benjamin J Daniels, Emily Karanges, Sallie-Ann Pearson, Carl Schneider. (Australia)

8:15am

- ▶ **Incidence of Mood and Anxiety Disorders and Psychotropic Use in Spouses of Dementia Patients: A Population-Based Study [415]**  
I Fan Kuo, Andrew Basham, Heather Prior, Silvia Alessi-Severini, James Bolton, Alan Katz, Shahin Shooshtari. (Canada)

8:30am

- ▶ **Sustained Use of Benzodiazepines and High Dose Escalation in a Canadian Population [416]**  
Silvia Alessi-Severini, James M Bolton, Murray W Enns, Matthew E Dahl, Dan Chateau, David M Collins, Jitender Sareen. (Canada)

8:45am

- ▶ **Antidepressant and Benzodiazepine Co-Initiation and Subsequent Long-Term Benzodiazepine Use in Adults with Depression, United States 2001-2014 [417]**  
Greta A Bushnell, Til Stürmer, Bradley N Gaynes, Virginia Pate, Matthew Miller. (United States)

9:00am

- ▶ **Benzodiazepines and Mortality: A Marginal Structural Model (MSM) Application in Claims Data [418]**  
Krista F Huybrechts, Shirley Wang, Robert Glynn, Raisa Levin, Elisabetta Patorno. (United States)

9:15am

- ▶ **Impact of Paliperidone Palmitate versus Oral Atypical Antipsychotics on Healthcare Resource Use and Costs in Veterans with Schizophrenia with Limited Antipsychotic Exposure in the Prior 12 Months [419]**  
Patrick Lefebvre, Erik Muser, Kruti Joshi, Maral DerSarkissian, Rachel Bhak, Andrew Kageleiry, Mei S Duh, Brian Shiner, Yinong Young-Xu. (United States)

### A Sticky Subject: Diabetes Safety (Liffey Hall 2)

Moderators: James Lewis, FISPE & Christian Hampp

8:00am

- ▶ **Final Results of a Large Multi-National Postmarketing Safety Study Evaluating Use of the Oral Anti-Diabetic Drug Saxagliptin and Risk of Five Outcomes [420]**  
Vincent Lo Re III, Dena M Carbonari, Craig W Newcomb, M Elle Saine, Jason A Roy, Serena Cardillo, Kevin Haynes, Stephen E Kimmel, Peter P Reese, David J Margolis, Andrea J Apter, K Rajender Reddy, Harshvinder Bhullar, Arlene M Gallagher, Daina B Esposito, Brian L Strom. (United States)

8:15am

- ▶ **Use of Incretin Agents and Risk of Acute and Chronic Pancreatitis: A Population-Based Cohort Study [421]**  
Lotte M Knapen, Ronaldus GPJ de Jong, Johanna HM Driessen, Yolande C Keulemans, Nielka P van Erp, Marie L de Bruin, Hubert GM Leufkens, Sander Croes, Frank de Vries. (Netherlands)

8:30am

- ▶ **Use of Non-Insulin Blood Glucose Lowering Drugs and the Risk of Acute Pancreatitis [422]**  
Gwen MC Masclee, Ingrid Leal, Lorenza Scotti, Giorgia De Berardis, Irene Bezemer, Miguel Gil, Anita McGrogan, Niklas Schmedt, John D Seeger, Gianluca Trifirò, Serena Pecchioli, Manel Pladevall-Vila, Mark M Smits, Peter Rijnbeek, Miriam CJM Sturkenboom, Silvana A Romio. (Netherlands)

8:45am

- ▶ **Metformin and Cancer Risk in Type 2 Diabetes: An Application of Marginal Structural Models with Inverse Probability of Treatment Weights in the Clinical Practice Research Datalink [423]**  
Ruth E Farmer, Deborah Ford, Liam Smeeth, Nishi Chaturvedi, Richard Kaplan, Krishnan Bhaskaran. (United Kingdom)

9:00am

- ▶ **Impact of Glycaemic Control on Risk of Infections in 69 318 Patients with Type 2 Diabetes: A Population-Based Cohort Study [424]**  
Anil Mor, Olaf M Dekkers, Jens S Nielsen, Henning Beck-Nielsen, Henrik T Sørensen, Reimar W Thomsen. (Denmark)

9:15am

- ▶ **Estimated Effects of Treatment Changes on Emergency Care Utilization in a Cohort of Patients with Type 1 Diabetes [425]**  
Richard S Swain, G Caleb Alexander, Dana Y Teltsch, MAJ Christina L Cristaldi, Janet T Holbrook, Jodi B Segal. (United States)

## 8:00-9:30am CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Broken & Torn (Liffey Hall 1)

Moderators: Daniel Prieto-Alhambra & Andrew Roddam

8:00am

- ▶ **35-Year Trends in First-Time Hospitalizations for Hip Fracture and Subsequent 0-30 and 31-365 Days Mortality: 1980-2014 [426]**

Alma B Pedersen, Vera Ehrenstein, Szimonetta Szepliget, Astrid Lunde, Anna Westerlund, Ylva Trolle Lagerros, Grethe S Tell, Henrik Toft Sørensen. (Denmark)

8:15am

- ▶ **Association of Gout Diagnosis with Increased Risk of Joint Replacement: A Population-Based Cohort Study of Older Adults [427]**

Sylvie Perreault, Alyssa B Klein, Robert Morlock. (Canada)

8:30am

- ▶ **Validation of Fracture Risk Assessment Tool Using Real-World Data [428]**

Inbal Goldshtein, Yariv Gerber, Sophia Ish-Shalom, Moshe Leshno. (Israel)

8:45am

- ▶ **Total Hip and Knee Replacement Among Incident Osteoarthritis and Rheumatoid Arthritis Patients Within the UK Clinical Practice Research Datalink (CPRD) Compared to Hospital Episode Statistics (HES): A Validation Study [429]**

Samuel Hawley, Antonella Delmestri, Andrew Judge, Christopher J Edwards, Cyrus Cooper, Nigel K Arden, Daniel Prieto-Alhambra. (United Kingdom)

9:00am

- ▶ **Modular versus Monobloc Neck Stems Primary Total Hip Arthroplasty Survivorship. Result of a Prospective Series of 324,108 THA at 6-Years Follow-Up [430]**

Sandrine Colas, Assia Allalou, Rosemary Dray-Spira, Mahmoud Zureik. (France)

9:15am

- ▶ **Incidence and Trends in ACL Reconstruction Among Commercially-Insured Individuals in the United States, 2002-2013 [431]**

Mackenzie M Herzog, Stephen W Marshall, Virginia Pate, Jennifer L Lund, Jeffrey T Spang. (United States)

### Identification and Validation of Outcomes (Liffey Meeting Room 2)

Moderators: Helga Gardarsdottir & Richard Wyss

8:00am

- ▶ **A Comparison of Methods for Estimating Values for Sparse and Irregularly Spaced Continuous Outcome Measures in Electronic Health Record (EHR) Data [432]**

Therese M Sheppard, William G Dixon, Robyn Tamblyn. (United Kingdom)

8:15am

- ▶ **A Comparison Of Structured Data Query Methods Versus Natural Language Processing To Identify Metastatic Melanoma Cases From Electronic Health Records [433]**

Paul R Dexter, Jinghua He, Lawrence Mark, David Haggstrom, Charity Hilton, Joel Martin, Jarod Baker, Jon Duke, Siu L Hui, Xiaochun Li. (United States)

8:30am

- ▶ **Additive versus Multiplicative Survival Models: Prediction and Understanding of Effect Modification [434]**

Shirley V Wang, Jessica M Franklin. (United States)

8:45am

- ▶ **Validity of Cardiac Examination, Procedure, and Surgery Codes in the Danish National Patient Registry [435]**

Kasper Adelborg, Jens Sundbøll, Troels Munch, Trine Frøslev, Henrik T Sørensen, Hans E Bøtker, Morten Schmidt. (Denmark)

9:00am

- ▶ **Validity of Cardiovascular Diagnoses in the Danish National Patient Registry [436]**

Jens Sundbøll, Kasper Adelborg, Troels Munch, Trine Frøslev, Henrik T Sørensen, Hans E Bøtker, Morten Schmidt. (Denmark)

9:15am

- ▶ **Validation of Cardiovascular Events and Covariates in CPRD GOLD Using Questionnaires to General Practitioners (GPS) [437]**

Andrea V Margulis, Cristina Varas-Lorenzo, Christine L Bui, Lisa J McQuay, Ryan Ziemiecki, Maria Reynolds, Cristina Rebordosa, Manel Pladevall-Vila, Joan Fortuny, Elena Rivero-Ferrer, Estel Plana, Willem Jan Atsma, Kwame Appenteng, Billy Franks, Stefan de Vogel, Milbhor D'Silva, Susana Perez-Gutthann, Alejandro Arana. (Spain)

9:30-10:00am

### Break/Posters/Exhibits (The Forum)

10:00-11:30am

## PLENARY SESSION

### Patient Voice in Clinical and Pharmacoepidemiologic Research (The Auditorium)

Speakers:

- ▶ **Derick Mitchell**, *Science and Industry (IPPOSI)*
- ▶ **Rachel Lynch**, *Fibrolreland*
- ▶ **Irene Petersen**, **FISPE**, *University College London and Aarhus University*
- ▶ **Cindy Girman**, **FISPE**, *CERobs Consulting, LLC and UNC Chapel Hill*

Moderator:

- ▶ **Ken Hornbuckle**, **FISPE**, *Eli Lilly and Company*

This plenary session will focus on current efforts to include the patients' voice in clinical and pharmacoepidemiologic research. Speakers will be asked to comment on patient engagement as it relates to benefit-risk, safety and pharmacoepidemiology studies. Specific topics covered during this session include:

- Evolving paradigm (including, how should pharmacoepidemiologists leverage patients' voice in their research and how to increase patient awareness of the importance of the health data for research)
- Patient engagement in study development (including, refinement of study objectives, selection of study design, outcome definitions and recruitment strategy) and implementation
- Patient engagement in interpretation, communication and dissemination of study findings

11:30am-1:00pm

### Lunch/Poster Session B/Exhibits (The Forum)

### Roundtable Discussions (Liffey Meeting Room 1)

To foster the ability of the more junior participants to network and first-timers to meet others attending the ICPE, ISPE is hosting several informal lunchtime discussion roundtables on Friday and Saturday. The facilitators are listed below. There will be NO formal presentations made at the roundtables. The objectives are discussion, information exchange, and networking. Seating is limited; first-come, first-served.

- **Libby Roughead**, **FISPE**, *Building Sustainable Research Collaborations*
- **Thomas MacDonald**, **FISPE**, *Experimental Medicine*
- **Ryan Kilpatrick**, *Positioning Epidemiologists for Success in Working for or with Biopharma*

11:30am-1:00pm

### ISPE Committee Meetings

(Open to all participants; Lunch available.)

- **Education Committee** (Wicklow Meeting Room 3)
- **Publications Committee** (Wicklow Meeting Room 2a)
- **Development Committee** (Wicklow Meeting Room 4)
- **Bylaws Committee** (Wicklow Meeting Room 2b)

11:45am-12:45pm

### Spotlight Poster Session

(3rd Floor; Lunch available)

- AsPEN
- DUR
- BRACE
- Medicines in Pregnancy

1:00-2:30pm

## CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### CV Effectiveness: How to Fix a Broken Heart (The Liffey A)

Moderator: **Montserrat Soriano-Gabarro**

1:00pm

- ▶ **Calcium Intake and 10 Year Risk of Incident Coronary Artery Calcification in the Multi-Ethnic Study of Atherosclerosis [438]**  
Bridget Kruszka, Ka He, Joseph A Delaney, Gregory L Burke, Alvaro Alonso, Diane Bild, Matthew J Budoff, Erin D Michos, John JB Anderson. (United States)

1:15pm

- ▶ **Model Observational Bridging Study on the Effectiveness of Ezetimibe Upon Cardiovascular Outcomes [439]**  
Jean Dallongeville, Denis Getsios, Jean Ferrières, Lucien Abenham, Michel Rossignol Rossignol, Lamiae Grimaldi-Bensouda, Billy Amzal. (United Kingdom)

1:30pm

- ▶ **Clinical Impact of an Interaction Between Clopidogrel and Selective Serotonin Reuptake Inhibitors [440]**  
Katsiaryna Bykov, Sebastian Schneeweiss, Macarius M Donneyong, Yaa-Hui Dong, Niteesh K Choudhry, Joshua J Gagne. (United States)

1:45pm

- ▶ **Effectiveness of Recommended Drug Classes in Secondary Prevention of Acute Coronary Syndrome in France [441]**  
Julien Bezin, Rolf Groenwold, Sanni Ali, Régis Lassalle, Anthonius de Boer, Nicholas Moore, Olaf Klungel, Antoine Pariente. (France)

2:00pm

- ▶ **Treatment with Carvedilol, Bisoprolol or Metoprolol Tartrate and the Risk of Mortality and Hospital Readmission Among Older Adults with Heart Failure [442]**  
Sylvie Perreault, Simon de Denus, Michel White, Brian White-Guay, Marc Dorais, Marie-Pierre Dubé, Jean-Lucien Rouleau. (Canada)

2:15pm

- ▶ **Real-Life Statin Use and LDL-Cholesterol Reduction in a General Population: A Retrospective Study of Primary Care Electronic Medical Records [443]**  
Maria Garcia-Gil, Marc Comas-Cufí, Elí León-Paz, Lia Alves-Cabratosa, Anna Ponjoan, Ruth Martí, Jordi Blanch, Rafel Ramos. (Spain)

## 1:00-2:30pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Antipsychotic Use Across the Life Span (The Liffey B)

Moderators: **Wendy Camelo Castillo & Deborah Layton**

1:00pm

- ▶ **Psychotropic Medications and the Risk of Neonatal Withdrawal [444]**  
Krista F Huybrechts, Brian T Bateman, Sonia Hernández-Díaz, , Rishi J Desai, Kathryn Rough, Helen Mogun, Elisabetta Patorno. (United States)

1:15pm

- ▶ **Channeling Bias in a Comparative Effectiveness Study of a Newly Launched Antipsychotic [445]**  
Jessica J Jalbert, Christiane Gasse, Sumeet Bakshi, Yann Hamon, Kristel Van Impe, Pierre Cherubin, Ludger Hargarter, Andreas Schreiner, Joris Diels, Billy Amzal. (United States)

1:30pm

- ▶ **Mortality Risk of Second-Generation Antipsychotic (SGA) Augmentation for Adult Depression [446]**  
Tobias Gerhard, T Scott Stroup, Christoph Correll, Brian L Strom, Cecilia Huang, Zhiqiang Tan, Stephen Crystal, Mark Olfson. (United States)

1:45pm

- ▶ **Comparative Safety of Antipsychotic Medications in Hospitalized Myocardial Infarction Patients [447]**  
Yoonyoung Park, Brian T Bateman, Dae Kim, Sonia Hernández-Díaz, , Elisabetta Patorno, Robert J Glynn, Helen Mogun, Krista F Huybrechts. (United States)

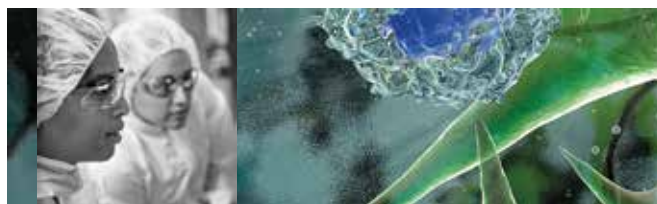
2:00pm

- ▶ **Examining the Impact of UK Drug Safety Warnings on Antipsychotic Drug Prescribing to Older People with Dementia [448]**  
Susan J Stocks, Roger T Webb, Evangelos Kontopantelis, Alistair Burns, Darren M Ashcroft. (United Kingdom)

2:15pm

- ▶ **Antipsychotic Use, Frailty and Health Outcomes Among Residents of Assisted Living [449]**  
Kathryn Stock, Colleen J Maxwell, Joseph E Amuah, Kate Lapane, Suzanne L Tyas, Susan E Bronskill, Andrew M Morris, Chaim M Bell, David B Hogan. (Canada)

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## 1:00-2:30pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### To Take or Not to Take? (Wicklow Hall 2)

Moderators: **Katja Taxis & Zhen-Fang Lin**

1:00pm

▶ **Medication Taking Behaviour and Adverse Health Outcomes in Community Dwelling Older Patients [450]**

Caitriona Cahir, Tom Fahey, Conor Teljeur, Kathleen Bennett. (Ireland)

1:15pm

▶ **Adherence to Anti-Hypertensive Medication in the Elderly: A Prospective Cohort Study [451]**

Paul Dillon, Paul Gallagher, Susan Smith, David Williams, Derek Stewart, Gráinne Cousins. (Ireland)

1:30pm

▶ **Too Many, Too Few, Or Too Unsafe? Impact Of Inappropriate Prescribing On Mortality, And Hospitalisation In Community-Dwelling Adults, Aged 80 And Older [452]**

Maarten Wauters, Monique Elseviers, Bert Vaes, Jan Degryse, Robert Vander Stichele, Thierry Christiaens, Majda Azermai. (Belgium)

1:45pm

▶ **Is Hospitalisation Associated with the Unintentional Discontinuation of Appropriate Long-Term Medication in the GP Prescribing Record Post Discharge? [453]**

Patrick Redmond, Ron McDowell, Tamasine Grimes, Fiona Boland, Atieh Zarabzadeh, Ronan McDonnell, Carmel Hughes, Tom Fahey. (Ireland)

2:00pm

▶ **Reducing Patients' Cumulative Exposure to Anticholinergic and Sedative Medication With Medication Reviews: A Randomized Controlled Trial [454]**

Helene G van der Meer, Hans Wouters, Niesko Pras, Katja Taxis. (Netherlands)

2:15pm

▶ **Treatment Association with Preventable Hospitalizations in Older Adults with Serious Mental Illness [455]**

Ting-Ying Huang, Linda Simoni-Wastila. (United States)

### Drug-Induced Kidney and Liver Injury (Liffey Hall 2)

Moderators: **Judy Kelly & Susana Perez-Gutthann, FISPE**

1:00pm

▶ **Acetaminophen Overdose-Related Morbidity and Mortality in Canada [456]**

Samina Aziz, Andrew Slot, Vincent Punch, Lucye Galand, Steven McFaul, Lisa Lange, Marc Berthiaume. (Canada)

1:15pm

▶ **Comparative Hepatotoxicity of Echinocandins in Hospitalized Patients (pts): A Retrospective Cohort Study [457]**

Francis Vekeman, Lisa S Weiss, Jalal Aram, Raluca Ionescu-Iltu, Shahrzad Moosavi, Yongling Xiao, Wendy Y Cheng, Rachel Bhak, Margaret Tawadrous, Mei Sheng Duh. (Canada)

1:30pm

▶ **Detection and Quantification of Flucloraxacillin-Induced Liver Injury: A Population-Based Cohort Study [458]**

Kevin Wing, Krishnan Bhaskaran, Louise Peeling, Adrian Root, Liam Smeeth, Tjeerd P van Staa, Olaf H Klungel, Robert F Reynolds, Ian Douglas. (United Kingdom)

1:45pm

▶ **Diagnosis-Based Cohort Augmentation Using Laboratory (lab) Data in the FDA Sentinel Initiative: The Case of Chronic Kidney Disease (CKD) [459]**

David Smith, Susan Shetterly, James Flory, Joshua Gagne, Kevin Haynes, Lisa J Herrinton, Christine Lu, Elisabetta Patorno, Marsha Raebel. (United States)

2:00pm

▶ **Development of Risk Model to Predict Drug Induced Acute Kidney Injury in Hospitalized Patients [460]**

Nakyung Jeon, Ben Staley, Carl Henriksen, Gigi Lipori, Almut G Winterstein. (United States)

*Student Award Recipient – Second Best Abstract Submitted by a Student/Post-Doc*

2:15pm

▶ **Evaluation of the Risk of Acute Kidney Injury (AKI) Associated With Vancomycin Plus Piperacillin-Tazobactam (VPT) Compared With Vancomycin Plus Cefepime (VC) [461]**

Nakyung Jeon, Ben Staley, Kenneth P Klinker, Aakash B Ghandi, Almut G Winterstein. (United States)

## 1:00-2:30pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Biologics: "Miracle Drug" (Liffey Hall 1)

Moderators: **Mary Anthony & Timothy Beukelman**

1:00pm

- ▶ **The Risk of Hospitalized Infection Associated with New Use of Abatacept versus TNF Inhibitors in Juvenile Idiopathic Arthritis [462]**  
Timothy Beukelman, Fenglong Xie, Melissa M Mannion, Lang Chen, Jie Zhang, John Baddley, Kenneth G Saag, Jeffrey R Curtis. (United States)

1:15pm

- ▶ **In Search of Predictors of Erythropoiesis-Stimulating Agents (ESAs) Resistance: A Population-Based Study [463]**  
Ylenia Ingrassiotta, Francesco Giorgianni, Ilaria Marcianò, Jenny Bolcato, Roberta Pirolo, Alessandro Chinellato, Achille P Caputi, Gianluca Trifirò. (Italy)

1:30pm

- ▶ **Comparative Effectiveness and Safety of Erythropoiesis-Stimulating Agents (Biosimilars versus Originators) in Clinical Practice: A Population-Based Cohort Study [464]**  
Francesco Trotta, Valeria Belleudi, Fusco Danilo, Laura Amato, Alessandra Mecozzi, Flavia Mayer, Massimo Sansone, Marina Davoli, Antonio Addis. (Italy)

1:45pm

- ▶ **Comparative Safety and Effectiveness of Denosumab versus Zoledronic Acid in Patients with Osteoporosis: A Cohort Study [465]**  
Nam-Kyong Choi, Daniel H Solomon, Theodore N Tsacogianis, Joan E Landon, Hong Ji Song, Seouyoung C Kim. (United States)

2:00pm

- ▶ **A Real World Comparison of Methods for Assessing Dosing Patterns of Biologic Therapies for Psoriasis [466]**  
Ireny YK Iskandar, Richard B Warren, Ian Evans, Kathleen McElhone, Caroline M Owen, A David Burden, Catherine H Smith, Nick J Reynolds, Christopher EM Griffiths, Darren M Ashcroft. (United Kingdom)

2:15 pm

- ▶ **Trends in the Utilization of Biologics for Inflammatory Bowel Disease in the United States [467]**  
Chao Chen, Abraham Hartzema. (United States)

### A Methods Coddle (The Auditorium)

Moderators: **Robert Platt & Edmore Chamapiwa**

1:00pm

- ▶ **Baseline and Time-Varying Determinants of Statin Adherence [468]**  
Chintan Dave, Abraham Hartzema, Haesuk Park, Almut Winterstein. (United States)

1:15pm

- ▶ **Determining Prescription Durations from the Parametric Waiting Time Distribution [469]**  
Henrik Støvring, Anton Pottegård, Jesper Hallas. (Denmark)

1:30pm

- ▶ **Assessing and Reducing the Impact of Drug Exposure Measurement Errors Due to Non-Adherence: A Simulation Study [470]**  
Yishu Wang, Michal Abrahamowicz. (Canada)

1:45pm

- ▶ **Performance of the Propensity Score in the Presence of Nondifferential Exposure Misclassification: A Simulation Study [471]**  
Mollie E Wood, Stavroula Chrysanthopoulou, Hedvig Nordeng, Kate Lapane. (Norway)

2:00pm

- ▶ **Exposure Misclassification and Inverse Probability Weighting: A Plasmode Simulation [472]**  
Mitchell M Conover, Kenneth J Rothman, Til Stürmer, Charles Poole, Michele Jonsson Funk. (United States)

2:15pm

- ▶ **Evaluation of the Two-Stage Residual Inclusion Method for Instrumental Variable Estimation in Survival Analysis: A Simulation Study [473]**  
Bianca Kollhorst, Michal Abrahamowicz, Iris Pigeot. (Germany)

2:35-3:30pm (Open to all participants) (The Auditorium)



## ANNUAL MEETING OF ISPE MEMBERS & AWARDS CEREMONY

### ANNUAL MEETING

#### Call to Order & Presidential Address

- ▶ **Sonia Hernández-Díaz, FISPE, ISPE President**

#### Financial Report

- ▶ **Alison Bourke, FISPE, Vice President, Finance**

### AWARDS CEREMONY

#### The Ronald D. Mann Best Paper Awards for Manuscripts Published in *Pharmacoepidemiology and Drug Safety (PDS)* 2015, Volume 24:

##### First Prize

**Domperidone, Cytochrome P450 3A4 Isoenzyme Inhibitors and Ventricular Arrhythmia: A Nationwide Case-Crossover Study. *Pharmacoepidemiol Drug Saf* 2015; 24; pages 841-848**  
Hung-Lin Chen and Fei-Yuan Hsiao

##### Honorable Mentions

**Alcohol Misuse, Genetics, and Major Bleeding Among Warfarin Therapy Patients in a Community Setting. *Pharmacoepidemiol Drug Saf* 2015; 24; pages 619-627**

Joshua A Roth, Katharine Bradley, Kenneth E Thummel, David L Veenstra and Denise Boudreau

**Exposure to Systemic Antibacterial Medications During Pregnancy and Risk of Childhood Cancer. *Pharmacoepidemiol Drug Saf* 2015; 24; 821-829**

Natalie C Momen, Jørn Olsen, Mika Gissler, Helle Kieler, Bengt Haglund and Jiong Li

##### Presenters

- **Brian L Strom, FISPE, Editor-In-Chief**
- **Sean Hennessy, FISPE, Regional Editor for the Americas**
- **Hubert G M Leufkens, FISPE, Regional Editor for Europe**
- **Byung Joo Park, FISPE, Regional Editor for Asia-Pacific and ROW**

#### 32<sup>nd</sup> ICPE

- **Mary E Ritchey, Chair, 2016 Scientific Program Committee**
- **Kathleen E Bennett, Local Host Committee**
- **Lisa Gai Pont, FISPE, Spotlight Poster Sessions**
- **J Bradley Layton, Spotlight Poster Sessions**
- **Vincent Lo Re, FISPE, Newcomer Track**
- **Kristen B Bibeau, Luncheon Roundtable Discussions**
- **Jessica Jalbert, Luncheon Roundtable Discussions**

#### The Andrew McAfee Award

*(Best abstract submitted by a researcher or student residing in a developing country)*

- **Md Jamal Uddin, Shahjalal University of Science & Technology**

#### The John Snow Award

*(Best abstract submitted by a female researcher or student living in a developing country)*

- **Sze Ling Celine Chui, The University of Hong Kong**

#### Student Awards

--*Third Best Abstract*: **Xiaojuan Li, University of North Carolina at Chapel Hill**

--*Second Best Abstract*: **Nakyung Jeon, University of Florida**

#### The Stanley A. Edlavitch Award & Oral Presentation

*(Best abstract submitted by a student/post-doc)*

- **Rebecca Burne, McGill University**
- New Statistical Methods for Using Validation Subsamples to Adjust for Time-Dependent Unmeasured Confounders in Marginal Structural Cox Models [474]**  
Rebecca Burne, Michal Abrahamowicz. (Canada)

#### Induction of ISPE Fellows (FISPE)

- **John F Acquavella**
- **Krista F Huybrechts**
- **Tamar Lasky**
- **Danica Marinac-Dabic**
- **Irene Petersen**
- **Maribel Salas**
- **Rachel E Sobel**
- **Jasmanda H Wu**

### BOARD TRANSITION

#### Retiring Board Members & Officers

- **Rhonda L Bohn, FISPE**
- **Jennifer B Christian, FISPE**
- **Yea-Huei Kao Yang, FISPE**
- **Alison Bourke, FISPE, Vice President Finance**
- **John Seeger, FISPE, Immediate Past President**

#### Induction of New Board Members

- **Dorothee B Bartels, Industry/Service Provider (Europe/Africa)**
- **Lisa Gai Pont, FISPE, Academic (Asia/Pacific)**
- **Jennita Reefhuis, Government/Regulatory (Americas)**
- **June Raine, Government/Regulatory (Europe/Africa)**
- **Rachel E Sobel, FISPE, Industry/Service Provider (Americas)**

#### Installation of 2016-2017 Officers

- **Tobias Gerhard, FISPE, Vice President Finance**
- **Jesper Hallas, FISPE, President Elect**
- **Sonia Hernández-Díaz, FISPE, Immediate Past President**
- **Kiyoshi Kubota, FISPE, President**

#### Adjournment

3:30-4:00pm

**Break/Posters/Exhibits** (The Forum)

4:00-5:30pm

## SYMPOSIA AND WORKSHOPS

### Perspectives from Causal Inference in the Era of Big (Healthcare) Data [475] (The Auditorium)

- ▶ Susan Gruber, Michele Jonsson Funk, Robert Platt, James M Robins, Mireille Schnitzer, Til Stürmer, Alexander M Walker. (United States)

### Making Optimal Use of Routinely Collected Data from United Kingdom Electronic Health Records [476]

(The Liffey B)

- ▶ Ian J Douglas, Stephen J Evans, Laurie Tomlinson, Rohini Mathur, Krishnan Bhaskaran, Caroline Minassian, Sara Thomas, Rachel Williams, Wilhelmine Meeraus, Jenni Quint, Janet Valentine, Liam Smeeth. (United Kingdom)

### Using “Big Data” in Early Safety Evidence Gathering and Targeted Surveillance for Newly Launched Medicines: Is It the Right Time Now? [477] (The Liffey A)

- ▶ Hu Li, Andrew Bate, Joshua Gagne, Jim Slattery, Ken Hornbuckle, Stephen Motsko. (United States)

### What’s in a Code? Algorithm Validation in Drug Safety Studies [478] (Wicklow Hall 2)

- ▶ Beth L Nordstrom, Sheila Weiss, Stephan Lanes, Cunlin Wang. (United States)

### The Epidemiological Approach to Rare Disease Research: Challenges and Opportunities [479] (Liffey Hall 2)

- ▶ Mary E Ritchey, Jessica J Jalbert, Alicia Gilsenan, Theodore Lystig, Michael Peng, Tzuyung D Kou, William Blumentals. (United States)

### The Role of Evidence Synthesis in Drug Safety Evaluation and Regulation [480] (Liffey Hall 1)

- ▶ Simone Pinheiro, Wei Liu, Michael Nguyen, Marc Poitras, Yoshiaki Uyama, Peter Arlett. (United States)

### A Discussion of Data Requirements and Methodologic Considerations for Evaluating the Real-World Effectiveness and Safety of Biosimilar Medicines [481]

(Liffey Meeting Room 2)

#### (Sponsored by the Biologics & Biosimilars Special Interest Group)

- ▶ Veronique Kugener, Michael Kelsh, Brian Bradbury, Thijs Giezen, Jaclyn Bosco, Gianluca Trifirò, Amanda Golembesky. (United States)

5:30-6:15pm

### ISPE Council Meetings

(Open to all participants.)

- **Academic Council** (Liffey Meeting Room 1)
- **Government/Regulatory Council** (Wicklow Meeting Room 3)
- **Industry/Service Providers Council** (Wicklow Meeting Room 4)
- **Student Council & Chapters** (Wicklow Meeting Room 5)

7:30-11:30pm

### Social Event (Guinness Storehouse)



Located in the heart of the St James’s Gate Brewery is the Guinness Storehouse. Home to the black stuff since 1759, this massive seven-storey building, a former Guinness® fermentation plant, has been remodelled into the shape of a giant pint of Guinness®. A visit will teach you everything you ever wanted to know about

this world famous beer. The highlight for many visitors is the Gravity Bar®, symbolically the “Head of the Pint”, where visitors can enjoy unparalleled panoramic views of Dublin city – views that are all the better with a pint in hand.

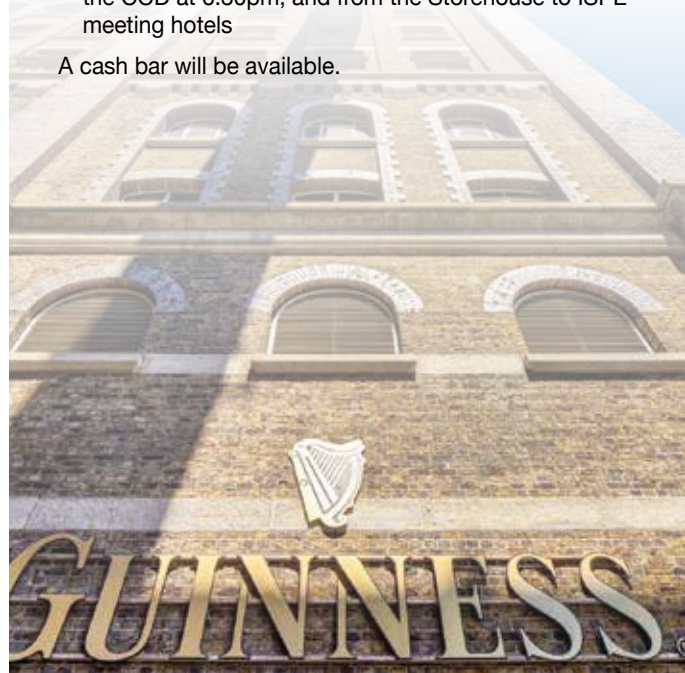
**A FACT:** Guinness is the perfect diet drink. A pint of the good stuff contains only 198 calories. That’s less than most light beers, wine, orange juice or even low fat milk.

**TONIGHT,** the Guinness Storehouse will host ISPE. Join us for entertainment, food, dancing and a pint of the black stuff.

Full ICPE registration includes:

- Admission to the Storehouse by badge or ticket (guests)
- Food
- Entertainment
- Transportation. Buses will shuttle between the CCD and the Storehouse, with the first bus departing from the CCD at 6:30pm; and from the Storehouse to ISPE meeting hotels

A cash bar will be available.



7:00-8:00am

**Coffee & Tea**  
(The Forum)

**Poster Session C  
Set-up**

(The Forum &  
3rd Floor)

7:00am-4:30pm

**Registration**  
(Ground Foyer)

7:30am-3:30pm

**Speakers'  
Ready Room**  
(Liffey Meeting  
Room 4)

8:00am-1:45pm

**Exhibits/Posters**  
(The Forum)

8:30-10:00am **CONCURRENT SESSIONS: CONTRIBUTED PAPERS**

**From Eve to... (The Liffey A)**

Moderators: **Andrew Margulis & Colin Anderson-Smits**

8:30am

▶ **Effect of Concomitant Use of Tamoxifen and Selective Serotonin Reuptake Inhibitors on Mortality [791]**

Macarius M Donneyong, Katsiaryna Bykov, Pauline Bosco-Levy, Yaa-Hui Dong, Gagne Joshua. (United States)

8:45am

▶ **The Effect of BMI on Unintended Pregnancy Rates Amongst Users of Combined Oral Contraceptives [792]**

Anja Bauerfeind, Clare Barnett, Do Minh Thai, Klaas Heinemann. (Germany)

9:00am

▶ **Unwanted Pregnancies in Women Using Intrauterine Devices: Final Results from the EURAS-IUD 5-Years Study [793]**

Klaas Heinemann, Sabine Moehner, Suzanne Reed, Thai Do Minh. (Germany)

9:15am

▶ **Intrauterine Devices and the Risk of Uterine Perforations: Final Results from the EURAS-IUD 5-Years Study [794]**

Klaas Heinemann, Sabine Moehner, Thai Do Minh, Suzanne Reed. (Germany)

9:30am

▶ **Comparative Risk of Serious Infections During Pregnancy in Patients Treated with Immunomodulatory Agents [795]**

Rishi J Desai, Brian T Bateman, Krista F Huybrechts, Elisabetta Patorno, Sonia Hernández-Díaz, Yoonyoung Park, Helen Mogun, Seoyoung C Kim. (United States)

9:45am

▶ **Venous Thromboembolism Risk Following New Use of NSAIDs in U.S. Women [796]**

Tracy L Kinsey, Robert J Glynn, Michele Jonsson Funk, Charles Poole, Ross J Simpson, Jr., Til Stürmer. (United States)



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## 8:30-10:00am CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### My Achy Breaky Heart: Diabetes and CVD (The Liffey B)

Moderators: Cynthia Girman, FISPE & Gillian Caughey

8:30am

▶ **Relationship Between Glycaemic Burden and Micro- and Macrovascular Complications in Patients with Type 2 Diabetes Mellitus [797]**

Jetty A Overbeek, Rients PT van Wijngaarden, Joris Diels, Agata Schubert, Huub Straatman, Hervé Besson, Ewout W Steyerberg, Michiel Hemels, Giel Nijpels, Ron MC Herings. (United States)

8:45am

▶ **Comparative Effects of Second Line Antidiabetic Agents Added to Metformin on Patient Centered Outcomes: A Retrospective Cohort Study [798]**

James H Flory, Alvin I Mushlin, Ankit Shah, John Cuddeback, Christopher Rowan. (United States)

9:00am

▶ **Changes in Diabetes Therapy One Year Before and After Discharge from a Heart Failure Hospitalization Among Patients with Type II Diabetes [1096]**

Ghadeer K Dawwas, Haesuk Park. (United States)

9:15am

▶ **Magnitude of HbA1c Reduction and Attainment of Early Glycemic Control Predict Cardiovascular Outcomes and Mortality: A Population-Based Cohort Study of 24,752 People with Type 2 Diabetes Initiating First Metformin Therapy [800]**

Reimar W Thomsen, Lisbeth M Baggesen, Søren P Johnsen, Lars Pedersen, Helene Nørrelund, Esben S Buhl, Christiane L Haase, Elisabeth Svensson. (Denmark)

9:30am

▶ **Risk of Acute Myocardial Infarction Associated with Non-Insulin Blood Glucose Lowering Drugs. Results from the SAFEGUARD Project [801]**

Ingrid Leal, Gwen Muscle, Lorenza Scotti, Giorgia De Berardis, Irene Bezemer, Miguel Gil, Elisa Martin, Anita McGregor, Niklas Schmedt, John D Seeger, Gianluca Trifirò, Serena Pecchioli, Cristina Varas-Lorenzo, Mark M Smits, Peter Rijnbeek, Miriam Sturkenboom, Silvana Romio. (Netherlands)

9:45am

▶ **Risk of Congestive Heart Failure (CHF) Associated with Vildagliptin: Pan-European Non-Interventional Safety Study [802]**

Rachael Williams, Raymond Schlienger. (United Kingdom)

### Keeping Up - A Potpourri (Wicklow Hall 2)

Moderators: TBA

8:30am

▶ **Risk of Erectile Dysfunction Associated with Use of 5-Alpha Reductase Inhibitors for Benign Prostatic Hyperplasia or Alopecia [803]**

Katrina Wilcox Hagberg, Hozefa A Divan, Rebecca Persson, J Curtis Nickel, Susan S Jick. (United States)

8:45am

▶ **Risk of Breast Cancer in Risperidone Users: A Nationwide Cohort Study [804]**

Johan Reutfors, Louise Wingård, Lena Brandt, Yiting Wang, Hong Qiu, Helle Kieler, Shahram Bahmanyar. (Sweden)

9:00am

▶ **Prescription Opioid Use and Infection-Related Hospitalization in Hemodialysis Patients [805]**

Abhijit V Kshirsagar, Xiaojuan Li, Magdalene Assimon, M Alan Brookhart. (United States)

*Student Award Recipient – Third Best Abstract Submitted by a Student/Post-Doc*

9:15am

▶ **Seasonality of Guillain-Barré Syndrome in the United Kingdom from April 2005 to March 2015 [806]**

Tom Cattaert, Germano LC Ferreira, Kaatje Bollaerts, Thomas Verstraeten. (Belgium)

9:30am

▶ **Trends in Specialty Drug Spending and Use in Commercial Health Plans in the United States: 2003-2014 [807]**

Stacie B Dusetzina. (United States)

9:45am

▶ **Identifying Incident Uterine Fibroids Using Electronic Medical Record Data [808]**

Onchee Yu, Susan Reed, Renate Schulze-Rath, Jane Grafton, Kelly Hansen, Delia Scholes. (United States)

## 8:30-10:00am CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Adverse Outcomes and Infectious Diseases (Liffey Hall 2)

Moderators: Emily Brouwer & Yared Santa-Ana Tellez

8:30am

▶ **The Association Between Lansoprazole and Tuberculosis Disease; a Primary Care Based Cohort Study [809]**

Ian J Douglas, Laurie Tomlinson, Tom Yates, Krishnan Bhaskaran, Sinead Langan, Sara Thomas, Liam Smeeth. (United Kingdom)

8:45am

▶ **Do Proton Pump Inhibitors Impact Clinical Outcomes in Staphylococcus Aureus Bacteremia? [810]**

Aisling R Caffrey, Tristan T Timbrook, George Sakoulas, Kerry L LaPlante. (United States)

9:00am

▶ **Opioid Analgesic Use as a Risk Factor for Laboratory-Confirmed Invasive Pneumococcal Diseases: A Nested Case-Control Study [811]**

Andrew D Wiese, Marie R Griffin, William Schaffner, C Michael Stein, Edward F Mitchel, Jr., Carlos G Grijalva. (United States)

9:15am

▶ **Hepatitis C Virus Infection Increases Risk of Developing Chronic Kidney Disease [812]**

Chao Chen, Wei Wang, Robert L Cook, Haesuk Park. (United States)

9:30am

▶ **Risk of Hepatic Decompensation with Cumulative Mitochondrial Toxic Nucleoside Analogue Use in HIV/Hepatitis C Coinfection [813]**

Vincent Lo Re III, Bret Zeldow, Michael J Kallan, Janet P Tate, Dena M Carbonari, Jay R Kostman, Robert Gross, Amy C Justice, Jason A Roy. (United States)

9:45am

▶ **Slow Efavirenz Metabolism Alleles Are Associated with Antiretroviral Failure in Botswana [814]**

Robert Gross, Scarlett L Bellamy, Bakgaki Ratshaa, Xiaoyan Han, Marijana Vujkovic, Richard Aplenc, Andrew P Steenhoff, Mosepele Mosepele, Athena Zuppa, Brian L Strom, Gregory P Bisson. (United States)



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## 8:30-10:00am CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Vaccines: Hit Me with Your Best Shot (Liffey Hall 1)

Moderator: Catherine Cohet

8:30am

- Narcolepsy Incidence Rates in the SOMNIA (Systematic Observational Method for Narcolepsy and Influenza Immunization) Study [815]**  
 Caitlin N Dodd, Maria de Ridder, Daniel Weibel, Frank DeStefano, Tom Shimabukuro, Bruce Carleton, Silvia Perez-Vilar, Angela Gentile, Norberto Giglio, Maria Giner-Soriano, Lisen Arnheim Dalstrom, Wan-Ting Huang, Larry Svenson, Lars Pedersen, Jan Bonhoeffer, Miriam Sturkenboom, Steve Black. (Netherlands)

8:45am

- Assessing Quadrivalent HPV Vaccine Safety Using the Self-Controlled Tree-Temporal Scan Statistic [816]**  
 W Katherine Yih, Judith C Maro, Michael D Nguyen, Adamma Mba-Jonas, Meghan A Baker, Carolyn Balsbaugh, David V Cole, Inna Dashevsky, Martin Kulldorff. (United States)

9:00am

- Human Papillomavirus Vaccination and Risk of Autoimmune Diseases: A Large Cohort Study of Over 2 Million Young Girls in France [817]**  
 Christophe Chaignot, Sara Miranda, Cedric Collin, Rosemary Dray-Spira, Alain Weill, Mahmoud Zureik. (France)

9:15am

- Effectiveness of the Quadrivalent Human Papillomavirus Vaccine (QHPV) Against Anogenital Warts (AGWs) in Manitoba, Canada: A Population-Based Study [818]**  
 Karla Willows, Songul Bozat-Emre, Erich Kliewer, Salah Mahmud. (Canada)

9:30am

- Long Term Effectiveness of Herpes Zoster Vaccine Among Patients with Autoimmune and Inflammatory Diseases [819]**  
 Huifeng Yun, Fenglong Xie, John W Baddley, Kevin L Winthrop, Kenneth G Saag, Jeffrey R Curtis. (United States)

9:45am

- New Methods to Estimate Vaccination Coverage from Health Care Databases [820]**  
 Kaatje Bollaerts, Tom Cattaert, Toon Braeye, Klára Berensci, Marius Gheorge, Vincent Bauchau, Miriam Sturkenboom, Hanne-Dorthe Emborg. (Belgium)

### Analytic Approaches for Controlling and Exposure Misclassification (The Auditorium)

Moderators: Suzanne Cadarette & Mollie Wood

8:30am

- Multi-State Models – A Complimentary Approach to Group Based Trajectory Models [821]**  
 Aaron N Winn, Stacie B Dusetzina. (United States)

8:45am

- Covariate Adjustment of Cumulative Incidence Functions for Competing Risks Data Using Inverse Probability of Treatment Weighting [822]**  
 Anke Neumann, Cécile Billionnet. (France)

9:00am

- Propensity Score Methods for Subgroup Analyses: Investigating Covariate Balance [823]**  
 Phyo T Htoo, Caroline J Mariano, Sharon Peacock-Hinton, Katie Reeder-Hayes, Michele Jonsson Funk, Til Stürmer, Jennifer L Lund. (United States)

9:15am

- Adjustment for Unobserved Confounders in Health Administrative Databases [824]**  
 Bernard Silenou Chawo, Marta Avalos Fernandez, Antoine Pariente, Héléne Jacqmin Gadda. (France)

9:30am

- The Impact of Censoring on Discontinuation When Modeling the Disease Risk Score [825]**  
 Justin Bohn, Richard Wyss, Joshua Gagne. (United States)

9:45am

- Survival Bias in Exposure Crossover Studies [826]**  
 Thy Do, Emil Scosyrev. (United States)

10:00-10:30am

### Break/Posters/Exhibits (The Forum)

10:30am-Noon **PLENARY SESSION**

**Multiple Database Study Design and Inference (The Auditorium)**

Speakers:

- ▶ **Miriam Sturkenboom, FISPE**,  
Erasmus University Medical Center
- ▶ **Olaf Klungel**  
University Medical Centre Utrecht
- ▶ **Tobias Gerhard, FISPE**  
Rutgers University
- ▶ **Andrew Bate (Chair)**  
Pfizer Ltd

Across the globe important experience has been gained with multi-database initiatives such as OMOP, Mini-Sentinel, CNODES, PROTECT, EU-ADR, and ASPEN. These initiatives used different approaches. In this symposium we will discuss the lessons learnt from these initiatives —from the perspectives of data, analysis, and interpretation— aiming to elicit common themes, and examining to what extent discrepancies in findings and lessons learnt can be attributed to differences in approach.

**Miriam Sturkenboom: The Data - What Data Sets to Include in a Multiple Country/Site Study?**

Several multi-country/site initiatives have been launched over the past decade with the

expectation of greater precision and/or validity for drug-effect studies. Debate is still ongoing on whether to use all available databases or to select certain databases. When multiple databases are analyzed together the question remains whether and under what circumstances a common data model (CDM) is preferred. When using CDMs, which models are available and what are their pros and cons (e.g. Jerboa, OMOP CDM, IMEDS, EMIF, etc)?

**Olaf Klungel: Analytic Strategy - How to Decide What Methods to Employ and How Many?**

When conducting drug-effect hypothesis testing studies multiple choices have to be made on design and analysis. During the past decades these choices have become less based on one specific design and analysis based on the hypothesized mechanism of action of a drug, including exposure-time-event relationship. More and more, sensitivity analyses on various methodological parameters are becoming common practice. Should sensitivity analysis always be conducted on all parameters and should it include the whole range of possible values, or should these be informed by certain plausible ranges, and how to decide on these ranges?

**Tobias Gerhard: Output - Interpretation of Studies - The Impact of a Priori Versus Post-Hoc Decisions**

When drug-effect studies are conducted in multiple databases it is not straightforward to decide on consistency of results. When should results across multiple databases be considered similar and when not? Is a frequentist approach sufficient to test heterogeneity or should Bayesian approaches be applied?



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Noon-1: 30pm

**Lunch/Poster Session C/ Exhibits**  
(The Forum)

**ISPE Board of Directors Luncheon**

(Liffey Meeting Room 1)

Open to ISPE members; members may contact [info@pharmacoepi.org](mailto:info@pharmacoepi.org) if they would like to attend.

12:15-1:15pm

**Spotlight Poster Session**  
(3rd Floor; Lunch available)

- Vaccines
- CER
- Biologics

1:30-3:00pm

## SYMPOSIA AND WORKSHOPS

**Pattern Discovery in Observational Health Data - What We Did Not Know to Look For [827]** (The Auditorium)

- ▶ Meredith Y Smith, Tarek Hammad, Rebecca Noel, Paul Huckle, Francesco Pignatti, Declan Noone. (United States)

**Clinical And Analytic Considerations In The Selection And Evaluation Of Comparators In Observational Database Studies [828]** (The Liffey B)

- ▶ Patrick B Ryan, Saad Shakir, David Madigan. (United States)

**Pharmacoepidemiology and Risk Management Planning: Essential Enablers for Development of Innovative Medicines [829]**

(The Liffey A)

- ▶ Peter R Arlett, June Munro Raine, Almath Spooner, Sebastian Schneeweiss, Eva Flahavan. (United Kingdom)

**Transitioning to ICD-10: International Lessons Learned and Strategies for Moving Forward [830]** (Wicklow Hall 2)

- ▶ Joshua J Gagne, Lisa M Lix, Sengwee Toh, David D Dore, Manel Pladevall-Vila. (United States)

**Who to Ask and How? Preference-Based Methods for Benefit-Risk Assessment [831]** (Liffey Hall 2)

- ▶ Kevin Marsh, Hans L Hillege, Quazi Ataher, Tommi Tervonen. (United Kingdom)

**The Agony and the Ecstasy: The Creation of the Revised ICH M4E Benefit-Risk Assessment Guideline and Practical Implications for Patients, Industry and Regulators [832]**

(Liffey Hall 1)

- ▶ Meredith Y Smith, Tarek Hammad, Rebecca Noel, Paul Huckle, Francesco Pignatti, Declan Noone. (United States)

3:00-3:15pm

**Break/Posters/Exhibits** (The Forum)

3:15-4:45pm

## CONCURRENT SESSIONS: CONTRIBUTED PAPERS

**Practice of Epidemiology in Pregnancy Studies** (The Liffey A)

Moderator: **Christina Chambers**

3:15pm

- ▶ **Validity of a Web-Based Questionnaire to Assess Perinatal Outcome [833]**  
Marleen MHJ van Gelder, Saskia Vorstenbosch, Lineke Derks, Bernke te Winkel, Eugène P Puijenbroek, Nel Roeleveld. (Netherlands)

3:30pm

- ▶ **Consistency of Measures of Asthma Symptom Control Collected During Pregnancy vs. Retrospectively at 6 Months Post-Partum [834]**  
Christina D Chambers, Ronghui Xu, Mofei Li, Diana L Johnson, Yunjun Luo. (United States)

3:45pm

- ▶ **Comparison of Electronic Healthcare Data and Prospective Face-to-Face Studies for Evaluating Neurodevelopmental Disorders Following In-Utero Medication Exposures [835]**  
Rachel Charlton, Anita McGrogan, Julia Snowball, Laura Yates, Amanda Wood, Jill Clayton-Smith, Henry Smithson, Jonathan Richardson, Neil McHugh, Simon Thomas, Gus Baker, Rebecca Bromley. (United Kingdom)

4:00pm

- ▶ **Bias from Restricting to Live Births in a Study of Prescription Drug Use and Pregnancy Complications: A Simulation [836]**  
Elizabeth A Suarez, Suzanne N Landi, Mitchell M Conover, Michele Jonsson Funk. (United States)

4:15pm

- ▶ **Utilization Patterns of Drugs or Biologics with Pregnancy Exposure Registries in Pregnant and Matched Non-Pregnant Women in the Sentinel Database [837]**  
Steven T Bird, Lockwood Taylor, Christian Hampp, Leyla Sachin, Darren Toh, Susan Andrade, Katie Haffenreffer, Marsha Reichman, Kate Gelperin. (United States)

4:30pm

- ▶ **Oral Contraceptive Induced Hypertension and Subsequent Pre-Eclampsia: A Retrospective Cohort Study [838]**  
Brian J Cleary, Maeve Eogan, Sharon Sheehan. (Ireland)

## 3:15-4:45pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Disease Burden from Clinical Databases (The Liffey B)

Moderators: Shahram Bahmanyar & Daniel Mines

3:15pm

- ▶ **Time Trends Of Idiopathic Pulmonary Fibrosis (IPF) in the United Kingdom (UK) from 1999 to 2013 Using the Clinical Practice Research Datalink (CPRD) [839]**  
Mellissa Yong, Jenny Chia, David Oliveri, Hubert Chen, Dorothy Cheung, Matt Cohen, Pavel Napalkov. (United States)

3:30pm

- ▶ **The Impact and Longevity of Measles-Associated Immune Suppression [840]**  
Caitlin N Dodd, Kartini Gadroen, Gwen Masclee, Maria de Ridder, Daniel Weibel, David van de Vijver, Rik de Swart. (Netherlands)

3:45pm

- ▶ **Blood Pressure and Risk of Dementia in a Cohort of 2.6 Million People Over Two Decades [172]**  
Nawab Qizilbash, John Gregson, Michelle E Johnson, Neil Pearce, Ian Douglas, Kevin Wing, Stephen JW Evans, Stuart J Pocock. (United Kingdom)

4:00pm

- ▶ **Epidemiological Assessment of Real-World Treatment Patterns in Advanced Pancreatic Neuroendocrine Tumors in the Era of Targeted Therapy: Perspectives from an Academic Tertiary Center and Community Oncology Practices [842]**  
Lynn Huynh, Maurice Herring, Mei S Duh, Francis Vekeman, Audrey Tiew, Maureen P Neary, Emily Bergsland. (United States)

4:15pm

- ▶ **10-Year Landmark Survival and Characteristics of Advanced Non-Small Cell Lung Cancer (aNSCLC) Long-Term Survivors [843]**  
Ben Lyons, Joe Simpson, Margaret E McCusker, Alan B Sandler. (United States)

4:30pm

- ▶ **Reoperation Due to Surgical Bleeding in Breast Cancer Patients and Breast Cancer Recurrence: A Danish Population-Based Cohort Study [844]**  
Rikke N Pedersen, Krishnan Bhaskaran, Uffe Heide-Jørgensen, Mette Nørgaard, Peer M Christiansen, Niels Kroman, Henrik T Sørensen, Deirdre P Cronin-Fenton. (Denmark)



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## 3:15-4:45pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### CV Adverse Events: Affairs of the Heart (Wicklow Hall 2)

Moderator: Nancy Santanello, FISPE & J Bradley Layton

3:15pm

▶ **Opioid Use Prior to Incident Myocardial Infarction and Subsequent Risk of Ischemic Stroke, Venous Thromboembolism, and Death [845]**

Troels Munch, Erzsébet Horváth-Puho, Kasper Adelborg, Lars Pedersen, Morten Schmidt, Henrik T Sørensen. (Denmark)

3:30pm

▶ **Long Acting Bronchodilators and Risk of Myocardial Infarction in Patients with Chronic Obstructive Pulmonary Disease and Who Are at High Risk for Cardiovascular Disease: A Quasi-Cohort Approach [846]**

Sunning Tao, Samy Suissa, Sophie Dell'Aniello, Pierre Ernst. (Canada)

3:45pm

▶ **Association of Proton Pump Inhibitor Use and Acute Myocardial Infarction Among Privately Insured Adults, 2001-2014 [847]**

Suzanne N Landi, Jennifer L Lund, Virginia Pate, Robert S Sandler. (United States)

4:00pm

▶ **Incidence of Cardiovascular Events in New Users of Overactive Bladder Medications in Denmark [848]**

Jesper Hallas, Andrea V Margulis, Anton Pottegård, Nina Kristiansen, Christine L Bui, Whitney Krueger, Willem Jan Atsma, Kwame Appenteng, Billy Franks, Stefan de Vogel, Milbhor D'Silva, Susana Perez-Gutthann, Alejandro Arana. (Denmark)

4:15pm

▶ **Cardiovascular Risk in Users of Antimuscarinic Drugs for Overactive Bladder: A Cohort Study in the Swedish National Registers [849]**

Marie Linder, Andrea V Margulis, Ingegård Anveden-Berglind, Shahram Bahmanyar, Christine L Bui, Willem Jan Atsma, Kwame Appenteng, Billy Franks, Stefan de Vogel, Milbhor D'Silva, Susana Perez-Gutthann, Alejandro Arana. (Sweden)

4:30pm

▶ **Development of a Predictive Model for Drug-Induced QT Prolongation in the Inpatient Setting Using Electronic Health Record Data [850]**

Juan M Hincapie-Castillo, Benjamin Staley, Carl Henriksen, Arwa Saidi, Gigi Lipori, Almut G Winterstein. (United States)



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## 3:15-4:45pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Adverse Outcomes of Glucocorticoid and Immunomodulator Use (Liffey Hall 2)

Moderator: **Cunlin Wang**

3:15pm

▶ **Trends in Oral Glucocorticoid Utilization Among Older Adults with Respiratory Disease [851]**

M Amine Amiche, Linda E Lévesque, Tara Gomes, Jonathan D Adachi, Suzanne M Cadarette. (Canada)

3:30pm

▶ **Use of Glucocorticoids and Risk of Community-Acquired Staphylococcus aureus Bacteraemia: A Population-Based Case-Control Study [852]**

Jesper Smit, Achim Kaasch, Mette Søgaard, Reimar W Thomsen, Henrik Nielsen, Trine Frøslev, Henrik C Schönheyder. (Denmark)

3:45pm

▶ **Use of Glucocorticoids and the Risk of Osteoporotic Fracture in Patients with Sarcoidosis [853]**

Olorunfemi Oshaghabemi, Johanna Driessen, Peter Vestergaard, Joop van den Bergh, Frank deVries. (Netherlands)

4:00pm

▶ **Risk of Lymphoma in Users of Topical Tacrolimus, Pimecrolimus and Corticosteroids (JOELLE Study) [854]**

Jordi Castellsague, Josephina JG Kuiper, Anton Pottegård, Ingegård A Berglind, Daniel Dedman, Lia Gutierrez, Brian Calingaert, Myrthe PP van Herk-Sukel, Jesper Hallas, Anders Sundström, Arlene Gallagher, James A Kaye, Carolina Pardo, Kenneth J Rothman, Susana Perez-Gutthann. (Spain)

4:15pm

▶ **Pharmacological Treatments Preceding Diagnosis Of Progressive Multifocal Leukoencephalopathy [855]**

Sarah Burkill, Ellen Iacobaeus, Shahram Bahmanyar, Lou Brundin, Michael Fored, Tomas Olsson, Scott Montgomery. (Sweden)

4:30pm

▶ **Association Between Breast Cancer Recurrence With Immunosuppression In Rheumatoid Arthritis And Inflammatory Bowel Disease: A Cohort Study [856]**

Ronac Mamtani, Amy S Clark, Frank I Scott, Colleen M Brensinger, Ben Boursi, Lang Chen, Fenglong Xie, Huifeng Yun, Mark T Osterman, Jeffrey R Curtis, James D Lewis. (United States)

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## 3:15-4:45pm CONCURRENT SESSIONS: CONTRIBUTED PAPERS

### Thin Blood: Anticoagulants (Liffey Hall 1)

Moderator: John Acquavella, FISPE

3:15pm

- ▶ **Safety and Effectiveness of Dabigatran Relative to Warfarin in Routine Clinical Practice—Interim Results of a Long-Term Study Program [857]**  
Krista F Huybrechts, Dorothee B Bartels, Chandrasekar Gopalakrishnan, John D Seeger, Kristina Zint, Katsiaryna Bykov, Sebastian Schneeweiss. (United States)

3:30pm

- ▶ **Comparative Effectiveness and Safety of New Oral Anticoagulants (NOACs) and Warfarin in Patients with Atrial Fibrillation: A Multi-Database Study in the US and UK [858]**  
M Sanni Ali, Rianne van den Ham, Rolf HH Groenwold, Mikkel Z Ankarfeldt, Erpur Adalsteinsson, Cynthia Girman, Olaf H Klungel. (Netherlands)

3:45pm

- ▶ **Clinical Events Preceding Changes During Treatment With Non-VKA Oral Anticoagulants In Patients With Atrial Fibrillation [859]**  
Maja Hellfritzsch, Erik L Grove, Steen E Husted, Lotte Rasmussen, Birgitte K Poulsen, Søren P Johnsen, Jesper Hallas, Anton Pottegård. (Denmark)

4:00pm

- ▶ **Use of New Oral Anticoagulants in the Secondary Care Setting vs Primary Care in the UK: Interim Results from Two Post-Authorisation Studies [504]**  
Deborah Layton, Alison Evans, Miranda Davies, Sandeep Dhanda, Saad AW Shakir. (United Kingdom)

4:15pm

- ▶ **The Safety and Effectiveness of New Oral Anticoagulants versus Vitamin K Antagonists - Pilot Implementation of a Real-Time Monitoring Program in Italy [861]**  
Flavia Mayer, Ursula Kirchmayer, Nera Agabiti, Valeria Belleudi, Giovanna Cappai, Mirko Di Martino, Danilo Fusco, Sebastian Schneeweiss, Marina Davoli, Elisabetta Patorno. (Italy)

4:30pm

- ▶ **Stroke, Bleeding, and Mortality Risks in Older Patients Treated with Dabigatran or Rivaroxaban for Nonvalvular Atrial Fibrillation [862]**  
David J Graham, Marsha E Reichman, Michael Wernecke, Ya-Hui Hsueh, Rima Izem, Mary Ross Southworth, Yuqin Wei, Jiemin Liao, Margie R Goulding, Katrina Mott, Yoganand Chillarige, Thomas E MaCurdy, Chris Worrall, Jeffrey A Kelman. (United States)

### Is it Safe Enough? (The Auditorium)

Moderators: Stella Blackburn, FISPE & Ola Caster

3:15pm

- ▶ **Are Natural Language Processing Models For Pneumonia Surveillance Valid For Benchmarking Event Rates Across Healthcare Institutions? [863]**  
Christian M Rochefort, Aman D Verma, Tewodros Eguale, David L Buckeridge, Alan J Forster. (Canada)

3:30pm

- ▶ **Analysis of Patient Narratives in Disease Blogs: Enhancing Pharmacovigilance Using Real-World Health Data on the Internet [864]**  
Shinichi Matsuda, Kotonari Aoki, Shiho Tomizawa, Masayoshi Sone, Sawako Satomi, Terumi Nakayama, Riwa Tanaka, Hiroshi Kuriki, Yoichiro Takahashi. (Japan)

3:45pm

- ▶ **Prediction Model Based Algorithm for a Computer-Assisted Database Screening Tool [865]**  
Joep Scholl, Florence van Hunsel. (Netherlands)

4:00pm

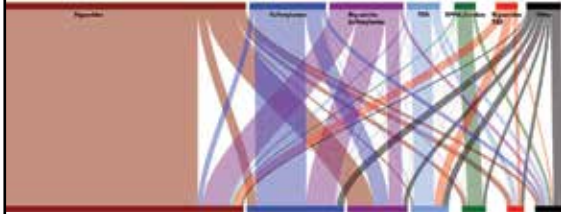
- ▶ **Assessment of the US Food and Drug Administration's Sentinel Analysis Tools: Angiotensin-Converting Enzyme Inhibitors And Angioedema [866]**  
Joshua J Gagne, Xu Han, Sean Hennessy, Charles E Leonard, Elizabeth A Chrischilles, Ryan M Carnahan, Shirley V Wang, Candace Fuller, Aarthi Iyer, Hannah Katcoff, Tiffany S Woodworth, Patrick Archdeacon, Tamra E Meyer, Sebastian Schneeweiss, Sengwee Toh. (United States)

4:15pm

- ▶ **An Automated Model for Sequential Monitoring of Effectiveness of New Drugs Using Dronedarone as Example [867]**  
Thomas Cars, Martin Neovius, Lars Lindhagen, Rickard E Malmström, Jonas Schwieler, Björn Wettermark, Johan Sundström. (Sweden)

4:30pm

- ▶ **Monitoring All Drugs for Specific Outcome in the Sentinel System [88]**  
Judith C Maro, Gerald J Dal Pan, Inna Dashevsky, Jeffrey S Brown, Martin Kuldorff. (United States)



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4:45-5:30pm **THE FINAL WORD**

**Spotlight Poster Awards** (The Auditorium)

- ▶ **Lisa Gai Pont, FISPE**, Co-Chair, Spotlight Sessions
- ▶ **J Bradley Layton**, Co-Chair, Spotlight Sessions

**2017 ISPE Meetings**

**Mid-Year - London**

- ▶ **Alison Bourke, FISPE**, Co-Chair, Program Planning Committee

**ICPE - Halifax**

- ▶ **Adrian Levy**, Chair, 2017 Scientific Program Committee
- ▶ **Ingrid Sketris**, Chair, 2017 Local Host Committee

**Adjournment of ICPE 2016**

- ▶ **Mary E Ritchey**, Chair, ICPE 2016 Scientific Program Committee

**ICPE 2017 Drawing for complimentary registrations**

5:45-6:30pm

**2017 ICPE Scientific Program Committee Meeting** (EcoCem)

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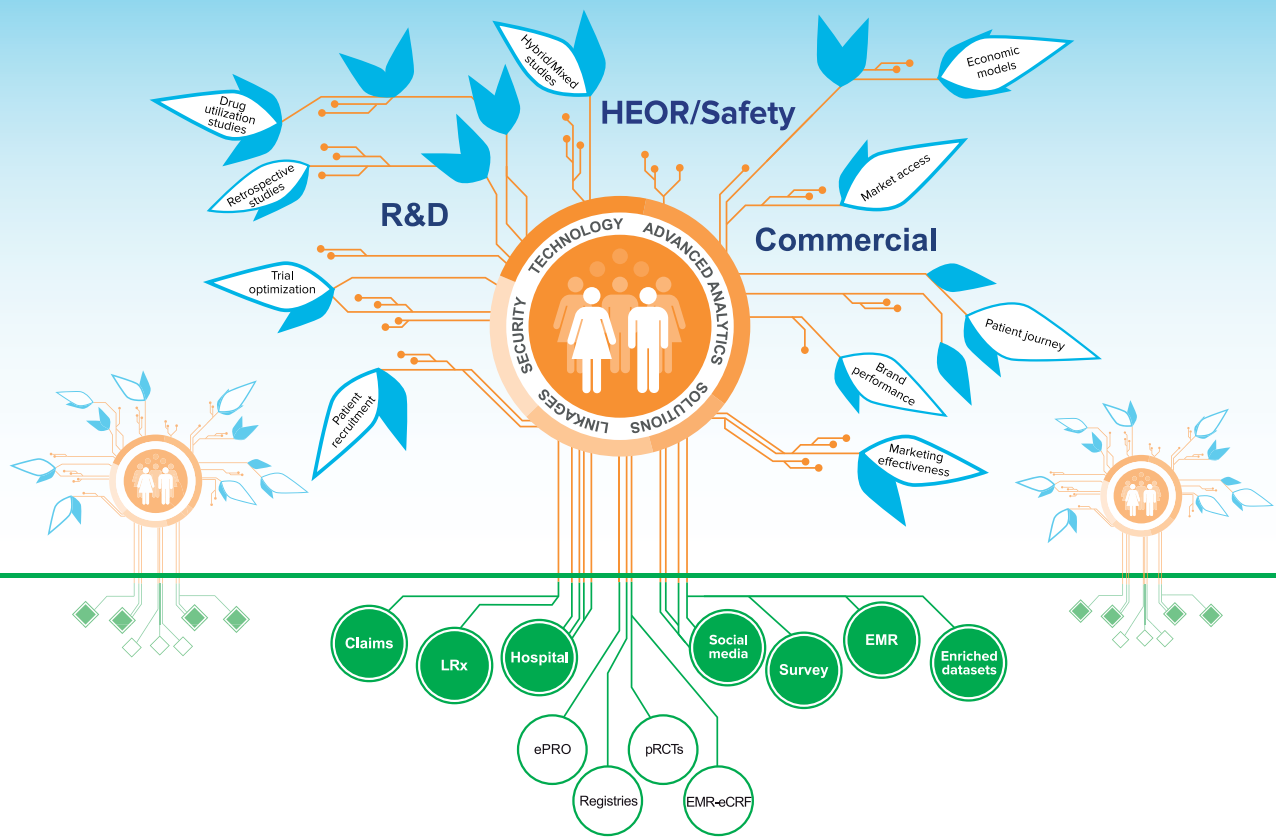
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## Overview

Poster sessions are designed 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.

**Note:**  
Neither ISPE nor the Convention Centre Dublin will be responsible for any poster that is left up overnight or is lost or damaged.

## POSTER SESSION

**Spotlight Session posters will be displayed in the Third Floor Foyer while all other posters will be displayed in The Forum of the Convention Centre Dublin, August 26-28.** Each day will have a separate poster session and Spotlight Sessions. All posters for a specific day's session must be removed at the end of that day.

- ▶ Friday, August 26 ..... Poster Session A
- ▶ Saturday, August 27..... Poster Session B
- ▶ Sunday, August 28..... Poster Session C

### 1. Set Up:

7:00am-8:00am; all posters must be in place by 8:00am. The poster areas (including floor) must remain clear and clean of tubes.

### 2. Hours:

Posters will be displayed from 8:00am to 6:00pm on Friday and Saturday, and from 8:00am to 1:45pm on Sunday.

### 3. Discussion Time:

**General Poster Sessions:** Presenters should be at their posters between 12:15-1:15pm on Friday (A) and Sunday (C); and between 11:45-12:45pm on Saturday (B) [The Forum]

**Spotlight Poster Sessions:** Organized by the ISPE Special Interest Groups (SIGs). Presenters should be at their posters between 12:15-1:15pm on Friday (A) and Sunday (C); and between 11:45-12:45pm on Saturday (B). [Third Floor Foyer]

The spotlight sessions offer pre-selected presenters the opportunity to present their work and to discuss their results with an audience. When the spotlight chair and audience stop at your poster, please give a brief, 3-minute, presentation and to answer questions about your research.

|                 |   |
|-----------------|---|
| <b>Friday</b>   | <ul style="list-style-type: none"> <li>▶ Adherence</li> <li>▶ Databases</li> <li>▶ Devices</li> <li>▶ Pediatrics</li> </ul>                         |
| <b>Saturday</b> | <ul style="list-style-type: none"> <li>▶ AsPEN</li> <li>▶ BRACE</li> <li>▶ Drug Utilization Research</li> <li>▶ Medications in Pregnancy</li> </ul> |
| <b>Sunday</b>   | <ul style="list-style-type: none"> <li>▶ Vaccines</li> <li>▶ CER</li> <li>▶ Biologics &amp; Biosimilars.</li> </ul>                                 |

### 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 poster for the duration of the ICPE. The winners will be announced during The Final Word at 4:45pm, Sunday, August 28.

### 4. Take Down:

All posters must be taken down by 6:30pm on Friday and Saturday, and by 5:00pm on Sunday.

## 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 on that day as listed in the Final Program, which will be available at the ISPE Registration Desk, as well as included online in Abstracts2view. The **POSTER BOARD NUMBER** is the first number (or letter) listed. The **ABSTRACT NUMBER**, for use in locating abstracts in the **Final Program** or in *Abstracts2view*, 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 N Gaynes, Virginia Pate, Deborah Azrael, Matthew Miller. (United States)

### Key

**97** POSTER BOARD Number

**176** PUBLICATION Number

### 1. Poster Specifications

Posters must be designed to fit a freestanding poster board approximately **4 feet WIDE x 8 feet HIGH (1.2 meter WIDE x 2.4 meters HIGH)**. Only **VERTICAL/PORTRAIT** posters will be allowed.

### 2. Disclosure Statement

A disclosure statement must accompany each abstract. This statement should follow the title page and should be a positive disclosure of all funding sources for the current project as well as other potentially conflicting relationships that existed at any time during the conduct of the study, or at a minimum, the one-year period before the annual meeting. Non-financial conflicts (e.g., a close relationship with, or a strong antipathy to, a person whose interests may be affected) should also be disclosed.

### 3. Call4Posters

Posters ordered through Call4Posters can be picked up in the exhibit hall (The Forum) at the times below.

#### Poster Pick Up Schedule:

|                      |               |
|----------------------|---------------|
| Thursday, August 25: | 1:00pm-5:00pm |
| Friday, August 26:   | 7:00am-1:00pm |
| Saturday, August 27: | 7:00am-1:00pm |
| Sunday, August 28:   | 7:00am-Noon   |

### Spotlight Session-Adherence

- A. Polypharmacy and Adherence to TNF-alpha Inhibitors: Variation by Specific Concurrent Medications [80]**  
Sruthi Adimadhyam, Wan-Ju Lee, Gregory S Calip. (United States)
- B. Predicting Adherence to Chronic Disease Medications in Patients with Long-Term Initial Medication Fills [81]**  
Julie C Lauffenburger, Jessica M Franklin, Alexis A Krumme, William H Shrank, Troyen A Brennan, Olga S Matlin, Claire M Spettell, Gregory Brill, Niteesh K Choudhry. (United States)
- C. Association Between Trajectories of Diabetes Medication Adherence and Hospitalization Risk in a Large Medicaid Program [82]**  
Wei-Hsuan Lo-Ciganic, Julie M Donohue, Bobby L Jones, Joshua M Thorpe, Subashan Perera, Zachary A Marcum, Walid F Gella. (United States)
- D. Association Between Patient-Centered Medical Homes and Adherence to Chronic Medications [83]**  
Julie C Lauffenburger, William H Shrank, Asaf Bitton, Alexis A Krumme, Olga S Matlin, Edmund J Pezalla, Claire M Spettell, Gregory Brill, Niteesh K Choudhry. (United States)
- E. Influence of Antidepressant Treatment on Use of and Adherence to COPD Maintenance Medications [84]**  
Yu-Jung Jenny Wei, Linda Simoni-Wastila, Jennifer S Albrecht, Ting-Ying Huang, Patience Moyo, Bilal Khokha, Ilene Harris, Patricia Langenberg, Giora Netzer, Susan Lehmann. (United States)
- F. Impact of Treatment Satisfaction and Adverse Drug Events on Antihypertensive Medication Adherence in Ambulatory Patients in Ethiopia [85]**  
Derbew Fikadu Berhe, Katja Taxis, Flora M Haaijer-Ruskamp, Afewerk Mulugeta, Yewondwossen Tadesse Mengistu, Peter GM Mol. (Netherlands)
- G. Impact of High Deductible Health Plans on Adherence to Essential Medications for Patients with Chronic Conditions [86]**  
Jennifer Lewey, Joshua J Gagne, Jessica Franklin, Julie Lauffenburger, Samantha Dougherty, Gregory Brill, Niteesh K Choudhry. (United States)

- H. An Example of Exposure Heterogeneity When Pooling Epidemiologic Studies for Meta-Analysis of Antiretroviral Medication Adherence [87]**  
Mary-Ellen Mackesy-Amiti, Lauren Strand, Robin Nance, Redonna Chandler, William Cunningham, Elise Riley, Shruti Mehta, Frederick Altice, Wendee Wechsberg, Chinazo Cunningham, Charles Cleland, Lisa Metsch, Daniel Feaster, Carlos del Rio, Curt Beckwith, Ann Kurth, Irene Kuo, Bridget Kruszka, Sandra Springer. (United States)

### Spotlight Session-Databases

- I. Pilot Test of the Sentinel Modular Program for Propensity-Score Matched Cohort Analyses: Application to Glyburide, Glipizide, and Severe Hypoglycemia [89]**  
Meijia Zhou, Shirley V Wang, Charles E Leonard, Joshua J Gagne, Candace Fuller, Christian Hampp, Patrick Archdeacon, Sengwee Toh, Aarthi Iyer, Tiffany Siu Woodworth, Elizabeth Cavagnaro, Catherine Panozzo, Sophia Axtman, Ryan M Carnahan, Elizabeth A Chrischilles, Sean Hennessy. (United States)
- J. Quality of Diabetes Recording: How Does Coding Impact Incidence Estimates? [90]**  
A Rosemary Tate, Sheena Dungey, Simon Glew, Natalia Beloff, Rachael Williams, Tim Williams.
- K. Evaluation of Free-Text Comments to Validate Common Cancer Diagnoses in the UK CPRD [91]**  
Joan Fortuny, James A Kaye, Christine L Bui, Alicia W Gilsenan, Jennifer Bartsch, Estel Plana, Lisa J McQuay, Brian Calingaert, Willem Jan Atsma, Kwame Appenteng, Billy Franks, Stefan de Vogel, Milbhor D'Silva, Susana Perez-Gutthann, Alejandro Arana, Andrea V Margulis. (Spain)
- L. Abstract Withdrawn [92]**
- M. An Algorithm to Identify Duplicate Patients When Pooling Aggregate Data from Two Primary Care Databases in the United Kingdom [93]**  
Estel Plana, Leah J McGrath, Joan Fortuny, Ana Ruigomez, Oscar Fernandez-Cantero, Luis-Alberto Garcia-Rodriguez, Alicia W Gilsenan, Elizabeth Andrews, Cristina Rebordosa, Ryan Ziemiecki. (Spain)
- N. Methods to Estimate Days' Supply within Pharmacy Data of the Health Improvement Network (THIN) [94]**  
Kirsten J Lum, Craig W Newcomb, Jason A Roy, Dena M Carbonari, M Elle Saine, Serena Cardillo, Harshvinder Bhullar, Arlene M Gallagher, Vincent Lo Re III. (United States)

- O. Evaluating the Utility of the CPRD GOLD-HTI Linkage: Anticoagulant Prescribing at the GP Practice Compared to Hospital Dispensed Medication at Discharge Date [95]**  
Arlene M Gallagher, Rachel Tham, Hassy Dattani, Adam Collier, Frank de Vries, Tim Williams. (United Kingdom)

### Spotlight Session-Devices

- P. Estimated Effects of Treatment Changes on Hemoglobin A1c in a Cohort with Incident Type 1 Diabetes [96]**  
Richard S Swain, Janet T Holbrook, Dana Y Teltsch, MAJ Christina L Cristaldi, Jodi B Segal, G Caleb Alexander. (United States)
- Q. Cement Leakage and New Vertebral Fractures after Kyphoplasty and Vertebroplasty: A Meta-Analysis [97]**  
Hong Cheng, Yuzhi Hu, Nishant Mishra, Colin Anderson-Smits. (United States)
- R. Assessing Real-World Use and Outcomes of Newly Marketed Bioprosthetic Aortic Valves Using Japanese Nationwide Cardiovascular Surgical Registry [98]**  
Hiraku Kumamaru, Hiroaki Miyata, Noboru Motomura, Nobuhiro Handa, Kan Nawata, Minoru Ono, Shinichi Takamoto. (Japan)
- S. Comparison of New Vertebral Fractures After Kyphoplasty and Vertebroplasty Using Medicare Data [99]**  
Hong Cheng, Yuzhi Hu, Jie Zhou, Colin Anderson-Smits. (United States)
- T. Treatment Patterns in a Cohort of Patients with Incident Type 1 Diabetes [100]**  
Richard S Swain, Jodi B Segal, Dana Y Teltsch, MAJ Christina L Cristaldi, G Caleb Alexander, Janet T Holbrook. (United States)
- U. Risk Factors for Persistent and New Chronic Opioid Use in Patients Undergoing Total Hip Arthroplasty [101]**  
Maria CS Inacio, Craig Hansen, Elizabeth E Roughead, Nicole L Pratt, Stephen E Graves. (Australia)
- V. A Comparative Analysis of Secondary Surgeries of Six Total Cervical Disc Arthroplasty Devices to Cervical Arthrodesis at 5-Years [102]**  
Colin Anderson-Smits, Davic Sing, Anton Dmitriev, Hong Cheng. (United States)
- W. Hospital Variation And Patient Characteristics Associated With Vena Cava Filter Use For Venous Thromboembolism [103]**  
Joshua D Brown, Jeffery C Talbert. (United States)

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- X. Use of Contraindicated Drugs in Pediatric Outpatients in the Nordic Countries [104]**  
Tuire Prami, Disa Långström, Ilona Iso-Mustajärvi, Niklas Sandler. (Finland)
- Y. Recent U.S. Drug Utilization For Pediatric Inflammatory Bowel Disease, 2009-2015 [105]**  
Susan A Hall, Emma W Viscidi, Jeff K Allen, Maneesh Juneja, Susan Eaton, Suzanne F Cook, Anne B Dilley. (United States)
- Z. Psychiatric Diagnoses and Medication Patterns in a Medicaid-Insured Birth Cohort [106]**  
Dinci Pennap, Julie M Zito, Mehmet Burcu, Daniel J Safer. (United States)
- AA. Poor Guideline Adherence In The Initiation Of Antidepressant Treatment In Children And Adolescents In The Netherlands: Choice Of Antidepressant And Dose [107]**  
Ymkje Anna de Vries, Peter de Jonge, Luuk Kalverdijk, Jens HJ Bos, Catharina CM Schuiling-Veninga, Eelko Hak. (Netherlands)
- BB. The Association Between Fluoroquinolone and Musculoskeletal Adverse Events in Pediatrics [108]**  
Ching-Lan Cheng, Yea-Huei Kao Yang, Yi-Fen Hsu. (Taiwan)
- CC. First Time Signal Detection of Global Paediatric Data – Putting Theory into Practice [109]**  
Kristina Star, Lovisa Sandberg, Imti Choonara, Pia Caduff, I Ralph Edwards. (Sweden)
- DD. The Impact of Birth Season on Time to First Antibiotic Use Among Infants Born in Denmark 2004-2012 [110]**  
Alan C Kinlaw, Henrik T Sørensen, Jennifer L Lund, Christina D Mack, Pedersen Lars, Julie L Daniels, Michael D Kappelman, Til Stürmer. (United States)
- EE. Prevalence and Risk Factors for Opioid Misuse in Youth: Results from a National Study in the US [111]**  
Vicki Osborne, Mirsada Serdarevic, Hannah Crooke, Catherine Striley, Linda B Cottler. (United States)

### Burden of Disease - Alimentary & Metabolic

- 1. Urosepsis and Urinary and Genital Infections Among Diabetes Patients and Matched Controls [112]**  
Gregory A Nichols, Kimberly G Brodovicz, Dorothee B Bartels. (United States)
- 2. Gastrointestinal Cancer Incidence in Type 2 Diabetes Mellitus; Results from a Large Retrospective Population-Based Cohort Study in the UK [113]**  
Ronaldus GPJ de Jong, Paul JHL Peeters, Andrea M Burden, Marie L de Bruin, Harm R Haak, Ad AM Masclee, Frank de Vries, Maryska LG Janssen-Heijnen. (Netherlands)
- 3. Association Between Insulin Treatment and Breast Cancer Characteristics [114]**  
Jetty A Overbeek, Pauline AJ Vissers, Amber AWA van der Heijden, Heleen K Bronsveld, Myrthe PP van Herk-Sukel, Ron MC Herings, Giel Nijpels, Marjanka K Schmidt. (Netherlands)
- 4. A Population Based Study of Metformin and the Association with Survival in Pancreatic Cancer Patients [115]**  
Martine A Frouws, Babs G Sibinga Mulder, Esther Bastiaannet, Marjolein MJ Zanders, Myrthe PP Van Herk-Sukel, Eleonora M De Leede, Bert A Bonsing, Sven JSD Mieog, Cornelis JH Van de Velde, Gerrit-Jan Liefers. (Netherlands)
- 5. Prevalence of Type 1 and Type 2 Diabetes Among U.S. Pediatric Population in the MarketScan Multi-State Medicaid Database, 2002-2013 [116]**  
Yong Chen, Tongtong Wang, Ravi Shankar. (United States)
- 6. Renal Function Measurements in Diabetes Patients; A Population Based Study in the Netherlands [117]**  
Elisabeth Smits, Eline Houben, Jetty A Overbeek, Peter AGM de Smet, Myrthe PP van Herk-Sukel, Martina Teichert, Ron MC Herings. (Netherlands)
- 7. Prevalence of Combinations of Diabetes Complications Across NHANES and NHWS [118]**  
Carey Strader, Amir Goren, Marco DiBonaventura. (United States)
- 8. Estimating the Prevalence and Incidence of Type 2 Diabetes Mellitus Using Population Level Pharmacy Claims Data [119]**  
Sarah-Jo Sinnott, Sheena McHugh, Helen Whelton, Richard Layte, Steve Barron, Patricia M Kearney. (United Kingdom)
- 9. Incidence of Diabetes in Two National Surveys – What's Driving the Trend? [120]**  
Carey Strader, Nikoletta Sternbach, Kathy Annunziata.

- 10. An Algorithm To Identify And Classify Individuals With Type 1 And Type 2 Diabetes Mellitus In A Primary Care Database [121]**  
Sonia J Coton, Irene Petersen, Irwin Nazareth, Manuj Sharma. (United Kingdom)
- 11. Trends in Incidence and Prevalence of Type 2 Diabetes in the United Kingdom (2004 - 2014) Using the Clinical Practice Research Datalink (CPRD) [122]**  
Salwa S Zghebi, Douglas T Steinke, Matthew J Carr, Darren M Ashcroft. (United Kingdom)
- 12. Population Trends in the Ten-Year Incidence and Prevalence of Diabetic Retinopathy in the UK: A Cohort Study in the Clinical Practice Research Datalink 2004-2014 [123]**  
Rohini Mathur, Krishnan Bhaskaran, Emma Edwards, Helen Lee, Liam Smeeth, Ian Douglas. (United Kingdom)
- 13. Intensification of Basal Insulin Treatment Among Patients with Type 2 Diabetes Mellitus in the Netherlands [124]**  
Jetty A Overbeek, Eline Houben, Sofia I Kring, Jonathan Briers, Fernie JA Penning-van Beest, Amber AWA van der Heijden, Giel Nijpels, Ron MC Herings. (Netherlands)
- 14. Validation and Incidence of Pneumonia in Patients with Diabetes in BIFAP Database [125]**  
Javier Gorricho Mendivil, Luis Carlos Saiz Fernandez, Javier Garjón Parra, Juan Erviti López, Miguel Gil García, Elisa Martín Merino. (Spain)

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- 15. A Validation Study of Algorithms to Identify Clostridium difficile Infection Using a Japanese Hospital-Based Administrative Database [126]**  
Tomomi Kimura. (Japan)
- 16. Disease and Treatment Epidemiology of Initial Clostridium Difficile Infection (CDI) in a National Cohort [127]**  
Tristan Timbrook, Aisling Caffrey, Yan Wang, Kerry LaPlante, Haley Morrill. (United States)
- 17. Impact of Macrolides Use on Hepatotoxicity in 4 European Countries [128]**  
Pili Ferrer, Elena Ballarín, Mònica Sabaté, Xavier Vidal, Marietta Rottenkolber, Sven Schmiedl, Luisa Ibáñez.
- 18. Prevalence of Risk Factors for Vancomycin-Associated Nephrotoxicity in a National Cohort [129]**  
Megan K Luther, Kerry L LaPlante, Aisling R Caffrey, David Dosa, Thomas P Lodise, Haley J Morrill. (United States)

- 19. Predictors of Mortality among Unvaccinated Veterans with Serious Streptococcus Pneumoniae Infections [130]**  
Jacob B Morton, Haley J Morrill, Kerry L LaPlante, Aisling R Caffrey. (United States)
- 20. Partner Bereavement and Risk of Herpes Zoster: Results from Two Population-Based Case-Control Studies in Denmark and United Kingdom [131]**  
Sigrun AJ Schmidt, Mogens Vestergaard, Henrik S Pedersen, Henrik C Schönheyder, Sara L Thomas, Liam Smeeth, Kathryn Mansfield, Henrik T Sørensen, Harriet J Forbes, Sinéad M Langan. (Denmark)
- 21. The Future of Herpes Zoster: Increasing Incidence? [132]**  
Kevin J Friesen, Jamie Falk, Silvia Alessi-Severini, Dan Chateau, Shawn Bugden. (Canada)
- 22. Quantification Of Risk Factors For Postherpetic Neuralgia In Herpes Zoster Patients: A Cohort Study [133]**  
Harriet Forbes, Krishnan Bhaskaran, Sara Thomas, Liam Smeeth, Tim Clayton, Kathryn Mansfield, Caroline Minassian, Sinead Langan. (United Kingdom)

### Burden of Disease - Cancer

- 23. Exploring The Treatment Pathways Of Breast Cancer Survivors In Primary Care In England [134]**  
Lydia Tutt, Li-Chia Chen, Claire Anderson, Tracey Thornley. (United Kingdom)
- 24. Validity of Cutaneous Squamous Cell Carcinoma Diagnosis in the Health Improvement Network [135]**  
Zelma C Chiesa Fuxench, Andrea B Troxel, Joel M Gelfand. (United States)
- 25. Prevalence Of Bone Metastases In Patients With Prostate Cancer: A Meta-Analysis [136]**  
Kyle Fahrback, Justyna Amelio, Yingxin Xu, Seye Abogunrin, Susan Talbot, Emma Booth, Daniela Niepel, Jean-Jacques Body. (United Kingdom)
- 26. Incidence of Second Primary Malignancies In Patients With Primary Myelofibrosis [137]**  
Alejandro Allepuz, Aleksandra Sarnecka, Katarzyna Sablinska. (Switzerland)
- 27. Validation of an Algorithm to Estimate Global Cancer Incidence from Health Administrative Databases in France [138]**  
Aya Ajrouche, Candice Estellat, Yann Deruycke, Florence Tubach.

- 28. Cervical Cancer Screening and Subsequent Excisional Procedures in Women Below 25 Years in France Between 2007 and 2013. A Nationwide Study on the French Healthcare Databases [139]**  
Géric Maura, Christophe Chaignot, François Alla, Alain Weill, Isabelle Heard. (France)
- 29. Incidence of Myeloid Neoplasms in Patients with Primary Myelofibrosis [140]**  
Alejandro Allepuz, Aleksandra Sarnecka, Katarzyna Sablinska. (Switzerland)
- 30. Incidence of Cardiovascular Disease Among Early Stage Breast Cancer Patients in Denmark [141]**  
Deirdre Cronin-Fenton, Anders Kjærsgaard, Mette Nørgaard, Justyna Amelio, Alex Liede, Rohini K Hernandez, Henrik T Sørensen. (Denmark)

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- 31. Characteristics And Outcome Of Newly Diagnosed Immune Thrombocytopenia In Adults: Results From The PGRx Information System [142]**  
Clementine Nordon, Lamiae Grimaldi, Marc Michel, Lucien Abenheim, Bertrand Godeau.
- 32. Infection and Anti-Infective Treatment Preceding a Diagnosis of Primary Persisting Immune Thrombocytopenia [143]**  
Donia Sohrabian, Marie Linder, Charlotta Ekstrand, Honar Cherif, Helle Kieler, Shahram Bahmanyar.
- 33. Comorbidities in the Young and Aging Populations with Haemophilia A [144]**  
Ceri Hirst, James Black. (Switzerland)
- 34. Epidemiologic and Clinical Characteristics of Thalassemia (THAL) Intermedia (TI) in the US [145]**  
Elliott Vichinsky, Janet L Kwiatkowski, Patricia-Jane Giardina, Carole Paley, Francis Vekeman, Wendy Y Cheng, Joseph Damron, Nora McCormick, Medha Sasane, Ying Qiu, Mei Sheng Duh, Alexis Thompson. (United States)
- 35. Risk Score for Major Hemorrhage Among Chronic Lymphocytic Leukemia Patients in the US Veterans Administration Healthcare System [146]**  
Peter Georgantopoulos, Huiying Yang, Mona Cai, LeAnn Norris, Charles L Bennett. (United States)
- 36. Diabetes and New-Onset Atrial Fibrillation in a Hypertensive Population [147]**  
Lia Alves-Cabratosa, Maria Garcia-Gil, Marc Comas-Cufí, Ruth Martí, Anna Ponjoan, Didac Parramon, Jordi Blanch, Rafel Ramos. (Spain)

- 37. Risk of Hypertension (HTN) and Malignant Hypertension (mHTN) in Patients Treated for Multiple Myeloma (MM) [148]**  
Ajai Chari, Sanjay Aggarwal, Khalid Mezzi, Shao Zhu, Winifred Werther, Diana Felici, Alexander R Lyon. (United States)
- 38. Pharmacological Treatments Preceding Diagnosis of Idiopathic Intracranial Hypertension [149]**  
Sarah Burkill, Anna Sudholm, Olafur Sveinsson, Shahram Bahmanyar, Ingela Nilsson. (Sweden)
- 39. Risk of Thrombotic and Hemorrhagic Event Associated with Oral Anticoagulants: A Retrospective Analysis in a Local Health Authority in Northern Italy [150]**  
Salvatore Mannino, Alfredo Cocci, Silvia Lucchi. (Italy)
- 40. Treatment Practices for Acute Ischemic Stroke (AIS) in Quebec (Canada) [151]**  
Mareva Faure, Anne-Marie Castilloux, Yola Moride, Agnès Lillo-Le-Louët. (Canada)
- 41. Stroke Risk in Individuals with versus without Atrial Fibrillation at Varying CHA2DS2-VASc Score Levels: Implications for Anti-Coagulant Treatment [152]**  
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- 42. Incidence and Risk Factors for Atrial Fibrillation in Patients with Newly Diagnosed Heart Failure in UK General Practice [153]**  
Mar Martín-Pérez, Ana Ruigómez, Alexander Michel, Luis A García Rodríguez. (Spain)
- 43. One-Year Survival After Acute Myocardial Infarction (AMI): The Effect of Care Pathway in Italy [154]**  
Valeria Belleudi, Martina Ventura, Paolo Sciattella, Nera Agabiti, Mirko Di Martino, Riccardo Di Domenicantonio, Marina Davoli, Danilo Fusco. (Italy)
- 44. Epidemiology of Pulmonary Arterial Hypertension in a Large US Commercially Insured Pediatric Population, 2010-2013 [155]**  
Lin Li, Susan Jick, Stefanie Breitenstein, Gemzel Hernandez, Alexander Michel, David Vizcaya. (United States)
- 45. Doubling of Serum Creatinine and the Risk of Cardiovascular Outcomes in Patients with Chronic Kidney Disease and with Diabetes Mellitus Type 2: A Cohort Study [156]**  
Cornelia Schneider, Blai Coll, Susan S Jick, Christoph R Meier.

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- 46. Use of Antidepressants Before and After Start of Treatment for Psoriasis. A Nation-Wide Cohort Crossover Study [157]**  
Ingegård Anveden-Berglind, Anders Sundström. (Sweden)
- 47. Association Between Atopic Diseases and Attention-Deficit/Hyperactivity Disorder: Systematic Review and Meta-Analyses [158]**  
Jurjen van der Schans, Rukiye Cicek, Tjalling W de Vries, Eelko Hak, Pieter J Hoekstra. (Netherlands)
- 48. High Prevalence of Hypovitaminosis D in Patients with Chronic Low Back Pain: Evidence from Systematic Review and Meta-Analysis [159]**  
Dipika Bansal, Rambabu Vatte, Chandra Sekhar Boya, Babita Ghai, Kapil Gudala. (India)
- 49. Correlates of Osteoporotic Fractures Among Type 2 Diabetic Patients [160]**  
Inbal Goldshtein, Julie Chandler, Ann DePapp, Sophia Ish-Shalom, Gabriel Chodick, Allison Martin Nguyen. (Israel)
- 50. Osteonecrosis Of The Jaw And Cancer Survival: A Danish Population-Based Cohort Study [161]** Priscila Corraini, Uffe Heide-Jørgensen, Morten Schiødt, Sven Erik Nørholt, Henrik Toft Sørensen, Vera Ehrenstein. (Denmark)
- 51. Comorbid Diseases Preceding Diagnosis of Progressive Multifocal Leukoencephalopathy [162]**  
Ellen Iacobaeus, Sarah Burkill, Shahram Bahmanyar, Lou Brundin, Mikael Fored, Tomas Olsson, Scott Montgomery. (Sweden)
- 52. Comorbid Diseases Preceding Diagnosis of Idiopathic Intracranial Hypertension [163]**  
Anna S Sundholm, Sarah Burkill, Olafur Sveinsson, Shahram Bahmanyar, Ingela Nilsson Remahl. (Sweden)
- 53. Psoriasis and Suicide [164]**  
Wendy J Carman, J Michael Woolley, Xiangmei Gu, Bruce R Turnbull, Cheryl Enger. (United States)
- 54. Cluster Headache Diagnosis and Treatment in the Clinical Practice Research Datalink (CPRD) [165]**  
Evelyn M Flahavan, Meghan E Jones, Lucy Mitchell, Jonathan L Swain, James M Martinez, Andrew H Ahn. (United Kingdom)
- 55. Difference in the Rate of Multiple Sclerosis-Related Hospitalizations in Portugal Between 2008 and 2013 [166]**  
Marta Pereira, Dimitra Lambrelli, Radek Wasiaak, Wasiaram V Ramagopalan. (United Kingdom)

- 56. Comparing the Incident Rates of Multiple Outcomes in Multiple Sclerosis Population by Marketscan and Clinformatics Data Mart [167]**  
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- 57. Multiple Sclerosis and VTE [168]**  
Wendy J Carman, Julia LaGuette, David D Dore, Andrew T McAfee. (United States)
- 58. Epidemiology of Treatment Resistant Depression in Taiwan: Estimates and Limitations [169]**  
Daniel Fife, Yu Feng, Michael Yao-Hsien Wang, Bruce Wang, C J Chang. (United States)
- 59. Characterizing the Epidemiology of Myasthenia Gravis and Neuromyelitis Optica Using the Clinical Practice Research Datalink [170]**  
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- 60. Irritable Bowel Syndrome, Depression and Antidepressant Dispensing: A Study of Administrative Claims [171]**  
Robert Perry, Chong Kim, Mausam Patidar, David Tabano, Heather Anderson. (United States)
- 61. Body Mass Index and Risk of Parkinson's Disease in a Cohort of Two Million People Over Two Decades [173]**  
Nawab Qizilbash, John Gregson, Michelle E Johnson, Neil Pearce, Ian Douglas, Kevin Wing, Stephen JW Evans, Stuart J Pocock. (United Kingdom)
- 62. Demographics and Comorbidities in Parkinsons Disease [174]**  
Cynthia C Jones, Jeff Allen, Anne Dilley.
- 63. Increasing Mental Health Diagnosing and Treatment Among U.S. Medicaid Youth, 2001-2010 [175]**  
Stephen Crystal, Scott Bilder, Cassandra Simmel. (United States)
- 64. Benzodiazepine Use and Risk of Developing Alzheimer's Disease - A Case-Control Study Based on Swiss Claims Data [176]**  
Fabienne Biétry, Alena Pfeil, Oliver Reich, Matthias Schwenkglens, Christoph R Meier. (Switzerland)
- 65. Association Between Prescription Opioid Use and Insomnia Among Community Members in Northeast Florida [177]**  
Mirsada Serdarevic, Vicki L Osborne, Linda B Cottler. (United States)

- 66. Utilization of Psychotropic Drugs in Spouses of Dementia Individuals: A Population-Based Study [178]**  
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- 67. The Incidence of Ventilator-Associated Pneumonia in Mainland China: A Systematic Review and Meta-Analysis [179]**  
Chengyi Ding, Yuelun Zhang, Zhirong Yang, Jing Wang, Aoming Jin, Weiwei Wang, Ru Chen, Siyan Zhan. (China)
- 68. Validation of Claims Approach to Identify Asthma and COPD Overlap Syndrome Patients in the US [180]**  
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- 69. Chronic Oral Corticosteroid Use in Adults with Persistent Asthma [181]**  
Trung N Tran, Michael Schatz, Qiaowu Li, Wansu Chen, Deepak Khattry, Robert S Zeiger.
- 70. Use of  $\beta$ -Blockers and Risk of Asthma Exacerbations [182]**  
Katia MC Verhamme, Ulrike Goditiabois, Marjolein Engelkes, Miriam CJM Sturkenboom, Bruno BC Stricker, Guy GO Brusselle. (Netherlands)
- 71. Stability of the Frequent Exacerbator - A Danish Nationwide Register-Based Study [183]**  
Mette MK Reilev, Jesper Lykkegaard, Anders Halling, Jørgen Vestbo, Jens Søndergaard, Anton Pottegård. (Denmark)
- 72. Multimorbidity Clusters Differ by Exacerbation Frequency in Chronic Obstructive Pulmonary Disease [184]**  
Emin Hoxha Ekström, Maria Andersson, Maria Gerhardsson de Verdier, Jan Hedner, Ann Ekberg Jansson, Max Petzold, Kjell Torén, Mikael Svensson. (Sweden)
- 73. Review Of The Epidemiology Of Chronic Obstructive Pulmonary Disease In The Asia-Pacific Region [185]**  
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- 74. Incidence and Prevalence Time Trends of Idiopathic Pulmonary Fibrosis (IPF) in the United States (US) Over a 14-Year Period - A Claims Database Study [186]**  
Mellissa Yong, Jenny Chia, David Oliveri, Hubert Chen, Dorothy Cheung, Karina Raimundo, Matt Cohen, Pavel Napalkov. (United States)

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75. **Influence of Age and BMI on Risk of Venous Thromboembolism: A Meta-Analysis of 246,513 Women Using Combined Oral Contraceptives Based on 521,516 Women-Years [187]**  
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76. **Body Mass Index and Cause-Specific Mortality: Population-Based Study Among 2 Million UK Adults Using Electronic Health Records Linked to National Mortality Data [188]**  
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77. **Natural History Of Primary Sclerosing Cholangitis – A Study Using the UK Clinical Practice Research Datalink (CPRD GOLD) [189]**  
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78. **Statin Use and Risk of Gallstone Disease in Switzerland - A Case-Control Study Based on Swiss Claims Data [190]**  
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79. **Use of Angiotensin-Converting Enzyme Inhibitors and/or Angiotensin-Receptor Blockers and the Risk of Acute Kidney Injury After Colorectal Cancer Surgery: A Population-Based Cohort Study [191]**  
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80. **Prevalence of Crigler-Najjar in the Turkish Population [192]**  
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81. **The Association Between Chronic Urticaria and Autoimmune Thyroid Disease: A Nationwide Population-Based Study in Taiwan [193]**  
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84. **Atopic Diseases and the Risk of Developing Ulcerative Colitis [196]**  
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88. **Pigmented Villonodular Synovitis (PVNS): Incidence, Patient Characteristics, Treatment and Recurrence: a Cohort Study in Denmark [200]**  
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89. **The Association Between Prior Appendectomy and/or Tonsillectomy in Females and Subsequent Pregnancy Rate: A Cohort Study [201]**  
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90. **Longitudinal Changes in Prevalence of Rare Diseases and Related Costs in Taiwan (2003-2014) [202]**  
Jason C Hsu, Christine Y Lu. (Taiwan)
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**105. Heterogeneity in Treatment Effect: Dabigatran vs. Warfarin in Patients with Atrial Fibrillation [217]**  
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**106. Comparing Decision Tree and Logistic Regression Methods to Identify Factors Affecting the Choice of ACEI/ARB Dose Among Elderly Patients After Acute Myocardial Infarction (AMI) [218]**  
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**61. Incidence of Myelosuppression in Patients with Longer-Term Exposure to Linezolid in an Outpatient Claims Database [949]**  
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**62. Intravenous Vancomycin and the Risk of Clostridium difficile Infection [950]**  
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**65. Drug Interactions as a Potential Instrumental Variable: The Example of Effectiveness of Antibiotic Therapy in Exacerbated COPD Patients [953]**  
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**68. The Associations Between Bullous Pemphigoid and Drug Use: A Prescription Sequence Symmetry Analysis [956]**  
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**70. Patient Characteristics and Overall Survival (OS) in the Post-Docetaxel Metastatic Castration-Resistant Prostate Cancer (mCRPC) Community Setting [958]**  
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**77. The Association Between Statin Use and Risk of Cancer Among Elderly Medicare Beneficiaries [965]**  
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- 82. Fertility Treatment and the Risk of Cardiovascular Diseases in the Offspring [970]**  
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- 84. Clinical Characteristics, Lipid Treatment and Goal Attainment in a Familial Hypercholesterolemia Cohort in the Netherlands: A Cross Sectional Study [972]**  
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- 85. Modelling Of Average Endpoint Postponement For Cardiovascular Outcomes In Statin Trials [973]**  
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- 86. Blood Pressure-Lowering Effect of Spironolactone in Hypertensive Patients Without Heart Failure [974]**  
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- 87. Effectiveness of Ticagrelor Compared to Clopidogrel in Reducing the Risk of Major Adverse Cardiovascular Events in Patients with Coronary Heart Disease After Percutaneous Coronary Intervention [975]**  
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- 88. The Comparative Effectiveness of 4th Line Anti-Hypertensive Agents in Patients with Resistant Hypertension: A Meta-Analysis [976]**  
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- 95. An Evaluation of the Effect of Spironolactone on the Risk of New Onset of Diabetes in a Population-Based Study of Patients with Heart Failure [983]**  
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- 97. Rivaroxaban vs. Phenprocoumon Use in Germany and Risk of Bleeding: A Claims Data Analysis Based on 80,000 Patients [985]**  
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- 98. Risk Factors for Major Bleeding Events in Rivaroxaban Users with Atrial Fibrillation: A Nested Case-Control Study [986]**  
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- 100. The Impact of Comorbidity and Age on Treatments for Acute Coronary Syndrome [988]**  
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- 102. Switching of Angiotensin Receptor Blockers to Angiotensin-Converting Enzyme Inhibitors in Patients with Hypertension: Is It a Cost-Saving Strategy? [990]**  
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- 103. Characteristics of Different Antihypertensive Medication Users in Observational Comparative Effectiveness Studies: A Literature Review [991]**  
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- 110. Effectiveness and Safety of Smoking Cessation Pharmacotherapy: A Retrospective Cohort Study [998]**  
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- 111. Association Between Buprenorphine/ Naloxone Sublingual Tablet And All-Cause Mortality In Patients Receiving Medication Assisted Treatment For Opioid Addiction In UK [999]**  
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- 112. Hypnotic Drug Use and Cardiovascular Events in Treated Hypertensive Patients [1000]**  
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- 115. Comparative Safety of Long-Acting Opioids for Non-Cancer Pain [1003]**  
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- 116. Efficacy of Anticonvulsant, Antidepressant and Opioid in Treating Neuropathic Pain – A Systematic Review and Meta-Analysis [1004]**  
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- 117. Impact of Pre-Admission Opioid Treatment on One-Year Mortality After Non-Surgical Intensive Care Admission [1005]**  
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- 118. Is Use of Antiepileptic Drugs Associated with an Increased Cataract Risk? A Case-Control Analysis [1006]**  
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- 119. Estimating the Association of Adverse Health Outcomes Using Three Anticholinergic Medication Toxicity Scales [1007]**  
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- 120. Psychiatric Medication and School Performance in Primary School Children: An Explorative Study [1008]**  
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- 122. Risk of Mortality in Patients with Parkinson'S Disease Exposed to Domperidone [1010]**  
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- 123. Outcomes of Three Treatment Strategies in Bipolar Disorder Using Conventional Mood Stabilizers and Antipsychotic Drugs [1011]**  
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- 124. Use of Antipsychotics and Risk of Recurrent Stroke Events: A Population-Based Retrospective Cohort Study in Taiwan [1012]**  
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- 125. Antipsychotic Use and Risk of Hospitalisation or Death Due to Pneumonia in Persons with and without Alzheimer's Disease [1013]**  
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- 126. Antidepressant Use and Outcomes in Combination with Contraindicated Comedication in a Tertiary Care Hospital [1014]**  
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- 127. Applying a Novel Anticholinergic Toxicity Scoring System to a Retrospective Cohort of Managed Care Patients [1015]**  
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- 128. A Novel Molecular-Based Anticholinergic Toxicity Scoring System as a Basis for Assessing Drug-Induced Anticholinergic Burden [1016]**  
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- 129. Tolerability/Safety Profile of Cariprazine in Treating Psychotic Disorders/Bipolar Disorder: A Systematic Review with Meta-Analysis of RCTs [1017]**  
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- 130. The Risk of Depression, Euphoric Mood and Sedation with the Use of Dextromethorphan in Different Indications. Results from a Systematic Review and Meta-Analysis of Randomised Clinical Trials [1018]**  
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- 131. The Risk of Dizziness with the Use of Dextromethorphan in Different Indications; Not a Rare Risk as Described in Label. Results From a Systematic Review and Meta-Analysis of Randomised Clinical Trials [1019]**  
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- 160. Assessing the Gaps in Turning Data into Insights Using Real World Evidence [1049]**  
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**283. Discrete Event Simulation for Facilitating Between-Study Comparisons [879]**

Mehdi Najafzadeh, Sebastian Schneeweiss, Niteesh Choudhry, Shirley Wang, Joshua Gagne. (United States)

End Session C

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| Pub. #   | Poster # | Presentation Time | Room           | Format |
|--|----------|-------------------|----------------|--------|
| <b>FRIDAY, AUGUST 26</b>                                       |          |                   |                |        |
| <b>Meascan de Meds: Utilization and Trends</b>                 |          |                   |                |        |
| 1  |          | 10:30am           | The Liffey A   | Oral   |
| 2  |          | 10:45am           | The Liffey A   | Oral   |
| 3  |          | 11:00am           | The Liffey A   | Oral   |
| 4  |          | 11:15am           | The Liffey A   | Oral   |
| 5  |          | 11:30am           | The Liffey A   | Oral   |
| 6  |          | 11:45am           | The Liffey A   | Oral   |
| <b>BRACE Yourself</b>  |          |                   |                |        |
| 7  |          | 10:30am           | The Liffey B   | Oral   |
| 8  |          | 10:45am           | The Liffey B   | Oral   |
| 9  |          | 11:00am           | The Liffey B   | Oral   |
| 10   |          | 11:15am           | The Liffey B   | Oral   |
| 11   |          | 11:30am           | The Liffey B   | Oral   |
| 12   |          | 11:45am           | The Liffey B   | Oral   |
| <b>Adverse Events of Cardiovascular Treatment: Head to Toe</b> |          |                   |                |        |
| 13   |          | 10:30am           | Wicklow Hall 2 | Oral   |
| 14   |          | 10:45am           | Wicklow Hall 2 | Oral   |
| 15   |          | 11:00am           | Wicklow Hall 2 | Oral   |
| 16   |          | 11:15am           | Wicklow Hall 2 | Oral   |
| 17   |          | 11:30am           | Wicklow Hall 2 | Oral   |
| 18   |          | 11:45am           | Wicklow Hall 2 | Oral   |
| <b>Pregnancy and Beyond</b>                                    |          |                   |                |        |
| 19   |          | 10:30am           | Liffey Hall 2  | Oral   |
| 20   |          | 10:45am           | Liffey Hall 2  | Oral   |
| 21   |          | 11:00am           | Liffey Hall 2  | Oral   |
| 22   |          | 11:15am           | Liffey Hall 2  | Oral   |
| 23   |          | 11:30am           | Liffey Hall 2  | Oral   |
| 24   |          | 11:45am           | Liffey Hall 2  | Oral   |
| <b>Keeping an I in Opioid Use</b>                              |          |                   |                |        |
| 25   |          | 10:30am           | Liffey Hall 1  | Oral   |
| 26   |          | 10:45am           | Liffey Hall 1  | Oral   |
| 27   |          | 11:00am           | Liffey Hall 1  | Oral   |
| 28   |          | 11:15am           | Liffey Hall 1  | Oral   |
| 29   |          | 11:30am           | Liffey Hall 1  | Oral   |
| 30   |          | 11:45am           | Liffey Hall 1  | Oral   |
| <b>Data Lost and Found</b>                                     |          |                   |                |        |
| 31   |          | 10:30am           | The Auditorium | Oral   |
| 32   |          | 10:45am           | The Auditorium | Oral   |
| 33   |          | 11:00am           | The Auditorium | Oral   |
| 34   |          | 11:15am           | The Auditorium | Oral   |
| 35   |          | 11:30am           | The Auditorium | Oral   |
| 36   |          | 11:45am           | The Auditorium | Oral   |
| <b>Bittersweet: Trends and Treatments in Diabetes</b>          |          |                   |                |        |
| 39   |          | 1:30pm            | The Liffey A   | Oral   |
| 38   |          | 1:45pm            | The Liffey A   | Oral   |
| 37   |          | 2:00pm            | The Liffey A   | Oral   |
| 40   |          | 2:15pm            | The Liffey A   | Oral   |
| 41   |          | 2:30pm            | The Liffey A   | Oral   |
| 42   |          | 2:45pm            | The Liffey A   | Oral   |
| <b>Cancer: Around the World in Databases</b>                   |          |                   |                |        |
| 43   |          | 1:30pm            | The Liffey B   | Oral   |
| 44   |          | 1:45pm            | The Liffey B   | Oral   |
| 45   |          | 2:00pm            | The Liffey B   | Oral   |

| Pub. #  | Poster # | Presentation Time | Room           | Format   |
|---|----------|-------------------|----------------|----------|
| 46  |          | 2:15pm            | The Liffey B   | Oral     |
| 47  |          | 2:30pm            | The Liffey B   | Oral     |
| 48  |          | 2:45pm            | The Liffey B   | Oral     |
| <b>Playing Catch-up in Pediatric Pharmacoepidemiology</b>   |          |                   |                |          |
| 49  |          | 1:30pm            | Wicklow Hall 2 | Oral     |
| 50  |          | 1:45pm            | Wicklow Hall 2 | Oral     |
| 51  |          | 2:00pm            | Wicklow Hall 2 | Oral     |
| 52  |          | 2:15pm            | Wicklow Hall 2 | Oral     |
| 53  |          | 2:30pm            | Wicklow Hall 2 | Oral     |
| 54  |          | 2:45pm            | Wicklow Hall 2 | Oral     |
| <b>Patients, Prescriptions, Policy &amp; Pennies</b>  |          |                   |                |          |
| 55  |          | 1:30pm            | Liffey Hall 2  | Oral     |
| 56  |          | 1:45pm            | Liffey Hall 2  | Oral     |
| 57  |          | 2:00pm            | Liffey Hall 2  | Oral     |
| 58  |          | 2:15pm            | Liffey Hall 2  | Oral     |
| 59  |          | 2:30pm            | Liffey Hall 2  | Oral     |
| 60  |          | 2:45pm            | Liffey Hall 2  | Oral     |
| <b>Adherence: Staying the Course</b>  |          |                   |                |          |
| 61  |          | 1:30pm            | Liffey Hall 1  | Oral     |
| 62  |          | 1:45pm            | Liffey Hall 1  | Oral     |
| 63  |          | 2:00pm            | Liffey Hall 1  | Oral     |
| 64  |          | 2:15pm            | Liffey Hall 1  | Oral     |
| 65  |          | 2:30pm            | Liffey Hall 1  | Oral     |
| 66  |          | 2:45pm            | Liffey Hall 1  | Oral     |
| <b>Study Design Considerations to Address Confounding</b>   |          |                   |                |          |
| 67  |          | 1:30pm            | The Auditorium | Oral     |
| 68  |          | 1:45pm            | The Auditorium | Oral     |
| 69  |          | 2:00pm            | The Auditorium | Oral     |
| 70  |          | 2:15pm            | The Auditorium | Oral     |
| 71  |          | 2:30pm            | The Auditorium | Oral     |
| 72  |          | 2:45pm            | The Auditorium | Oral     |
| <b>Catch the Wave: Diffusion of Methodological Innovation in Pharmacoepidemiology</b>   |          |                   |                |          |
| 73  |          |                   | The Auditorium | Symposia |
| <b>Patient Engagement in Observational Pharmacoepidemiology Research: Where Are We, Where do We Need to Be, And What are the Steps for Getting There?</b> |          |                   |                |          |
| 74  |          |                   | The Liffey B   | Symposia |
| <b>Impact of Pharmacovigilance: From Prac Strategy to Demonstrable Better Health Protection</b>   |          |                   |                |          |
| 75  |          |                   | The Liffey A   | Symposia |
| <b>Big Data, Big Picture - Data Visualization of Health</b>   |          |                   |                |          |
| 76  |          |                   | Wicklow Hall 2 | Symposia |
| <b>Drug Utilisation in Older Populations: The Irish View on Knowing Right From Wrong</b>  |          |                   |                |          |
| 77  |          |                   | Liffey Hall 2  | Symposia |
| <b>Does Randomization Work? Selection Bias in Pragmatic Randomized Clinical Trials and Unblinded Observational Studies</b>                                |          |                   |                |          |
| 78  |          |                   | Liffey Hall 1  | Symposia |

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## Exploring Innovative Methods to Conduct Validation Using United States Medicare Administrative Claims Data

|    |  |  |                       |          |
|----|--|--|-----------------------|----------|
| 79 |  |  | Liffey Meeting Room 2 | Symposia |
|----|--|--|-----------------------|----------|

### Poster Session A: Spotlight Session-Adherence

|    |   |                |             |        |
|----|---|----------------|-------------|--------|
| 80 | A | 12:15pm-1:15pm | Third Floor | Poster |
| 81 | B | 12:15pm-1:15pm | Third Floor | Poster |
| 82 | C | 12:15pm-1:15pm | Third Floor | Poster |
| 83 | D | 12:15pm-1:15pm | Third Floor | Poster |
| 84 | E | 12:15pm-1:15pm | Third Floor | Poster |
| 85 | F | 12:15pm-1:15pm | Third Floor | Poster |
| 86 | G | 12:15pm-1:15pm | Third Floor | Poster |
| 87 | H | 12:15pm-1:15pm | Third Floor | Poster |

### Poster Session A: Spotlight Session-Databases

|    |   |                |                     |        |
|----|---|----------------|---------------------|--------|
| 89 | I | 12:15pm-1:15pm | Third Floor         | Poster |
| 90 | J | 12:15pm-1:15pm | Third Floor         | Poster |
| 91 | K | 12:15pm-1:15pm | Third Floor         | Poster |
| 92 | L | 12:15pm-1:15pm | Withdrawn by Author |        |
| 93 | M | 12:15pm-1:15pm | Third Floor         | Poster |
| 94 | N | 12:15pm-1:15pm | Third Floor         | Poster |
| 95 | O | 12:15pm-1:15pm | Third Floor         | Poster |

### Poster Session A: Spotlight Session-Devices

|     |   |                |             |        |
|-----|---|----------------|-------------|--------|
| 96  | P | 12:15pm-1:15pm | Third Floor | Poster |
| 97  | Q | 12:15pm-1:15pm | Third Floor | Poster |
| 98  | R | 12:15pm-1:15pm | Third Floor | Poster |
| 99  | S | 12:15pm-1:15pm | Third Floor | Poster |
| 100 | T | 12:15pm-1:15pm | Third Floor | Poster |
| 101 | U | 12:15pm-1:15pm | Third Floor | Poster |
| 102 | V | 12:15pm-1:15pm | Third Floor | Poster |
| 103 | W | 12:15pm-1:15pm | Third Floor | Poster |

### Poster Session A: Spotlight Session-Pediatrics

|     |    |                |             |        |
|-----|----|----------------|-------------|--------|
| 104 | X  | 12:15pm-1:15pm | Third Floor | Poster |
| 105 | Y  | 12:15pm-1:15pm | Third Floor | Poster |
| 106 | Z  | 12:15pm-1:15pm | Third Floor | Poster |
| 107 | AA | 12:15pm-1:15pm | Third Floor | Poster |
| 108 | BB | 12:15pm-1:15pm | Third Floor | Poster |
| 109 | CC | 12:15pm-1:15pm | Third Floor | Poster |
| 110 | DD | 12:15pm-1:15pm | Third Floor | Poster |
| 111 | EE | 12:15pm-1:15pm | Third Floor | Poster |

### Poster Session A: Burden of Disease - Alimentary & Metabolic

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 112 | 1  | 8:00am -6:00pm | The Forum | Poster |
| 113 | 2  | 8:00am -6:00pm | The Forum | Poster |
| 114 | 3  | 8:00am -6:00pm | The Forum | Poster |
| 115 | 4  | 8:00am -6:00pm | The Forum | Poster |
| 116 | 5  | 8:00am -6:00pm | The Forum | Poster |
| 117 | 6  | 8:00am -6:00pm | The Forum | Poster |
| 118 | 7  | 8:00am -6:00pm | The Forum | Poster |
| 119 | 8  | 8:00am -6:00pm | The Forum | Poster |
| 120 | 9  | 8:00am -6:00pm | The Forum | Poster |
| 121 | 10 | 8:00am -6:00pm | The Forum | Poster |
| 122 | 11 | 8:00am -6:00pm | The Forum | Poster |
| 123 | 12 | 8:00am -6:00pm | The Forum | Poster |
| 124 | 13 | 8:00am -6:00pm | The Forum | Poster |
| 125 | 14 | 8:00am -6:00pm | The Forum | Poster |

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|--------|----------|-------------------|------|--------|

### Poster Session A: Burden of Disease - Infection

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 126 | 15 | 8:00am -6:00pm | The Forum | Poster |
| 127 | 16 | 8:00am -6:00pm | The Forum | Poster |
| 128 | 17 | 8:00am -6:00pm | The Forum | Poster |
| 129 | 18 | 8:00am -6:00pm | The Forum | Poster |
| 130 | 19 | 8:00am -6:00pm | The Forum | Poster |
| 131 | 20 | 8:00am -6:00pm | The Forum | Poster |
| 132 | 21 | 8:00am -6:00pm | The Forum | Poster |
| 133 | 22 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session A: Burden of Disease - Cancer

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 134 | 23 | 8:00am -6:00pm | The Forum | Poster |
| 135 | 24 | 8:00am -6:00pm | The Forum | Poster |
| 136 | 25 | 8:00am -6:00pm | The Forum | Poster |
| 137 | 26 | 8:00am -6:00pm | The Forum | Poster |
| 138 | 27 | 8:00am -6:00pm | The Forum | Poster |
| 139 | 28 | 8:00am -6:00pm | The Forum | Poster |
| 140 | 29 | 8:00am -6:00pm | The Forum | Poster |
| 141 | 30 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session A: Burden of Disease - Hematological and Cardiovascular

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 142 | 31 | 8:00am -6:00pm | The Forum | Poster |
| 143 | 32 | 8:00am -6:00pm | The Forum | Poster |
| 144 | 33 | 8:00am -6:00pm | The Forum | Poster |
| 145 | 34 | 8:00am -6:00pm | The Forum | Poster |
| 146 | 35 | 8:00am -6:00pm | The Forum | Poster |
| 147 | 36 | 8:00am -6:00pm | The Forum | Poster |
| 148 | 37 | 8:00am -6:00pm | The Forum | Poster |
| 149 | 38 | 8:00am -6:00pm | The Forum | Poster |
| 150 | 39 | 8:00am -6:00pm | The Forum | Poster |
| 151 | 40 | 8:00am -6:00pm | The Forum | Poster |
| 152 | 41 | 8:00am -6:00pm | The Forum | Poster |
| 153 | 42 | 8:00am -6:00pm | The Forum | Poster |
| 154 | 43 | 8:00am -6:00pm | The Forum | Poster |
| 155 | 44 | 8:00am -6:00pm | The Forum | Poster |
| 156 | 45 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session A: Burden of Disease - Neurological

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 157 | 46 | 8:00am -6:00pm | The Forum | Poster |
| 158 | 47 | 8:00am -6:00pm | The Forum | Poster |
| 159 | 48 | 8:00am -6:00pm | The Forum | Poster |
| 160 | 49 | 8:00am -6:00pm | The Forum | Poster |
| 161 | 50 | 8:00am -6:00pm | The Forum | Poster |
| 162 | 51 | 8:00am -6:00pm | The Forum | Poster |
| 163 | 52 | 8:00am -6:00pm | The Forum | Poster |
| 164 | 53 | 8:00am -6:00pm | The Forum | Poster |
| 165 | 54 | 8:00am -6:00pm | The Forum | Poster |
| 166 | 55 | 8:00am -6:00pm | The Forum | Poster |
| 167 | 56 | 8:00am -6:00pm | The Forum | Poster |
| 168 | 57 | 8:00am -6:00pm | The Forum | Poster |
| 169 | 58 | 8:00am -6:00pm | The Forum | Poster |
| 170 | 59 | 8:00am -6:00pm | The Forum | Poster |
| 171 | 60 | 8:00am -6:00pm | The Forum | Poster |
| 173 | 61 | 8:00am -6:00pm | The Forum | Poster |
| 174 | 62 | 8:00am -6:00pm | The Forum | Poster |
| 175 | 63 | 8:00am -6:00pm | The Forum | Poster |
| 176 | 64 | 8:00am -6:00pm | The Forum | Poster |
| 177 | 65 | 8:00am -6:00pm | The Forum | Poster |
| 178 | 66 | 8:00am -6:00pm | The Forum | Poster |

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## Poster Session A: Burden of Disease - Respiratory

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 179 | 67 | 8:00am -6:00pm | The Forum | Poster |
| 180 | 68 | 8:00am -6:00pm | The Forum | Poster |
| 181 | 69 | 8:00am -6:00pm | The Forum | Poster |
| 182 | 70 | 8:00am -6:00pm | The Forum | Poster |
| 183 | 71 | 8:00am -6:00pm | The Forum | Poster |
| 184 | 72 | 8:00am -6:00pm | The Forum | Poster |
| 185 | 73 | 8:00am -6:00pm | The Forum | Poster |
| 186 | 74 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session A: Burden of Disease - Other

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 187 | 75 | 8:00am -6:00pm | The Forum | Poster |
| 188 | 76 | 8:00am -6:00pm | The Forum | Poster |
| 189 | 77 | 8:00am -6:00pm | The Forum | Poster |
| 190 | 78 | 8:00am -6:00pm | The Forum | Poster |
| 191 | 79 | 8:00am -6:00pm | The Forum | Poster |
| 192 | 80 | 8:00am -6:00pm | The Forum | Poster |
| 193 | 81 | 8:00am -6:00pm | The Forum | Poster |
| 194 | 82 | 8:00am -6:00pm | The Forum | Poster |
| 195 | 83 | 8:00am -6:00pm | The Forum | Poster |
| 196 | 84 | 8:00am -6:00pm | The Forum | Poster |
| 197 | 85 | 8:00am -6:00pm | The Forum | Poster |
| 198 | 86 | 8:00am -6:00pm | The Forum | Poster |
| 199 | 87 | 8:00am -6:00pm | The Forum | Poster |
| 200 | 88 | 8:00am -6:00pm | The Forum | Poster |
| 201 | 89 | 8:00am -6:00pm | The Forum | Poster |
| 202 | 90 | 8:00am -6:00pm | The Forum | Poster |
| 203 | 91 | 8:00am -6:00pm | The Forum | Poster |
| 204 | 92 | 8:00am -6:00pm | The Forum | Poster |
| 205 | 93 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session A: Medical Devices

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 206 | 94  | 8:00am -6:00pm | The Forum           | Poster |
| 207 | 95  | 8:00am -6:00pm | The Forum           | Poster |
| 208 | 96  | 8:00am -6:00pm | The Forum           | Poster |
| 209 | 97  | 8:00am -6:00pm | The Forum           | Poster |
| 210 | 98  | 8:00am -6:00pm | Withdrawn by Author |        |
| 211 | 99  | 8:00am -6:00pm | The Forum           | Poster |
| 212 | 100 | 8:00am -6:00pm | The Forum           | Poster |
| 213 | 101 | 8:00am -6:00pm | The Forum           | Poster |
| 214 | 102 | 8:00am -6:00pm | The Forum           | Poster |

## Poster Session A: Analytical Methods

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 215 | 103 | 8:00am -6:00pm | The Forum | Poster |
| 216 | 104 | 8:00am -6:00pm | The Forum | Poster |
| 217 | 105 | 8:00am -6:00pm | The Forum | Poster |
| 218 | 106 | 8:00am -6:00pm | The Forum | Poster |
| 219 | 107 | 8:00am -6:00pm | The Forum | Poster |
| 220 | 108 | 8:00am -6:00pm | The Forum | Poster |
| 221 | 109 | 8:00am -6:00pm | The Forum | Poster |
| 222 | 110 | 8:00am -6:00pm | The Forum | Poster |
| 223 | 111 | 8:00am -6:00pm | The Forum | Poster |
| 224 | 112 | 8:00am -6:00pm | The Forum | Poster |
| 225 | 113 | 8:00am -6:00pm | The Forum | Poster |
| 226 | 114 | 8:00am -6:00pm | The Forum | Poster |
| 227 | 115 | 8:00am -6:00pm | The Forum | Poster |
| 228 | 116 | 8:00am -6:00pm | The Forum | Poster |
| 229 | 117 | 8:00am -6:00pm | The Forum | Poster |
| 230 | 118 | 8:00am -6:00pm | The Forum | Poster |
| 231 | 119 | 8:00am -6:00pm | The Forum | Poster |

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| <b>Poster Session A: Clinical Trial Methodology</b> |          |                   |      |        |

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 232 | 120 | 8:00am -6:00pm | The Forum | Poster |
| 233 | 121 | 8:00am -6:00pm | The Forum | Poster |
| 234 | 122 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session A: Confounding/Bias

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 235 | 123 | 8:00am -6:00pm | The Forum | Poster |
| 236 | 124 | 8:00am -6:00pm | The Forum | Poster |
| 237 | 125 | 8:00am -6:00pm | The Forum | Poster |
| 238 | 126 | 8:00am -6:00pm | The Forum | Poster |
| 239 | 127 | 8:00am -6:00pm | The Forum | Poster |
| 240 | 128 | 8:00am -6:00pm | The Forum | Poster |
| 241 | 129 | 8:00am -6:00pm | The Forum | Poster |
| 242 | 130 | 8:00am -6:00pm | The Forum | Poster |
| 243 | 131 | 8:00am -6:00pm | The Forum | Poster |
| 244 | 132 | 8:00am -6:00pm | The Forum | Poster |
| 245 | 133 | 8:00am -6:00pm | The Forum | Poster |
| 246 | 134 | 8:00am -6:00pm | The Forum | Poster |
| 247 | 135 | 8:00am -6:00pm | The Forum | Poster |
| 248 | 136 | 8:00am -6:00pm | The Forum | Poster |
| 249 | 137 | 8:00am -6:00pm | The Forum | Poster |
| 250 | 138 | 8:00am -6:00pm | The Forum | Poster |
| 251 | 139 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session A: Data Linkage

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 252 | 140 | 8:00am -6:00pm | The Forum | Poster |
| 253 | 141 | 8:00am -6:00pm | The Forum | Poster |
| 254 | 142 | 8:00am -6:00pm | The Forum | Poster |
| 255 | 143 | 8:00am -6:00pm | The Forum | Poster |
| 256 | 144 | 8:00am -6:00pm | The Forum | Poster |
| 257 | 145 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session A: Measurement & Validation Methods

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 258 | 146 | 8:00am -6:00pm | The Forum | Poster |
| 259 | 147 | 8:00am -6:00pm | The Forum | Poster |
| 260 | 148 | 8:00am -6:00pm | The Forum | Poster |
| 261 | 149 | 8:00am -6:00pm | The Forum | Poster |
| 262 | 150 | 8:00am -6:00pm | The Forum | Poster |
| 263 | 151 | 8:00am -6:00pm | The Forum | Poster |
| 264 | 152 | 8:00am -6:00pm | The Forum | Poster |
| 265 | 153 | 8:00am -6:00pm | The Forum | Poster |
| 266 | 154 | 8:00am -6:00pm | The Forum | Poster |
| 267 | 155 | 8:00am -6:00pm | The Forum | Poster |
| 268 | 156 | 8:00am -6:00pm | The Forum | Poster |
| 269 | 157 | 8:00am -6:00pm | The Forum | Poster |
| 270 | 158 | 8:00am -6:00pm | The Forum | Poster |
| 271 | 159 | 8:00am -6:00pm | The Forum | Poster |
| 272 | 160 | 8:00am -6:00pm | The Forum | Poster |
| 273 | 161 | 8:00am -6:00pm | The Forum | Poster |
| 274 | 162 | 8:00am -6:00pm | The Forum | Poster |
| 275 | 163 | 8:00am -6:00pm | The Forum | Poster |
| 276 | 164 | 8:00am -6:00pm | The Forum | Poster |
| 277 | 165 | 8:00am -6:00pm | The Forum | Poster |
| 278 | 166 | 8:00am -6:00pm | The Forum | Poster |
| 279 | 167 | 8:00am -6:00pm | The Forum | Poster |
| 280 | 168 | 8:00am -6:00pm | The Forum | Poster |
| 281 | 169 | 8:00am -6:00pm | The Forum | Poster |
| 282 | 170 | 8:00am -6:00pm | The Forum | Poster |
| 283 | 171 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session A: Study Design

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 284 | 172 | 8:00am -6:00pm | The Forum | Poster |
|-----|-----|----------------|-----------|--------|

# 32<sup>nd</sup> ICPE ABSTRACT INDEX

## FRIDAY, AUGUST 26 Cont.

| Pub. # | Poster # | Presentation Time | Room                | Format |
|--------|----------|-------------------|---------------------|--------|
| 285    | 173      | 8:00am -6:00pm    | The Forum           | Poster |
| 286    | 174      | 8:00am -6:00pm    | The Forum           | Poster |
| 287    | 175      | 8:00am -6:00pm    | Withdrawn by Author |        |
| 288    | 176      | 8:00am -6:00pm    | The Forum           | Poster |
| 289    | 177      | 8:00am -6:00pm    | The Forum           | Poster |
| 290    | 178      | 8:00am -6:00pm    | The Forum           | Poster |
| 291    | 179      | 8:00am -6:00pm    | The Forum           | Poster |
| 292    | 180      | 8:00am -6:00pm    | Withdrawn by Author |        |
| 293    | 181      | 8:00am -6:00pm    | Withdrawn by Author |        |

### Poster Session A: Pediatrics

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 294 | 182 | 8:00am -6:00pm | The Forum           | Poster |
| 295 | 183 | 8:00am -6:00pm | Withdrawn by Author |        |
| 296 | 184 | 8:00am -6:00pm | The Forum           | Poster |
| 297 | 185 | 8:00am -6:00pm | The Forum           | Poster |
| 298 | 186 | 8:00am -6:00pm | The Forum           | Poster |
| 299 | 187 | 8:00am -6:00pm | Withdrawn by Author |        |
| 300 | 188 | 8:00am -6:00pm | The Forum           | Poster |
| 301 | 189 | 8:00am -6:00pm | The Forum           | Poster |
| 302 | 190 | 8:00am -6:00pm | The Forum           | Poster |
| 303 | 191 | 8:00am -6:00pm | The Forum           | Poster |
| 304 | 192 | 8:00am -6:00pm | The Forum           | Poster |
| 305 | 193 | 8:00am -6:00pm | The Forum           | Poster |
| 306 | 194 | 8:00am -6:00pm | The Forum           | Poster |
| 307 | 195 | 8:00am -6:00pm | The Forum           | Poster |
| 308 | 196 | 8:00am -6:00pm | The Forum           | Poster |

### Poster Session A: Adherence

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 309 | 197 | 8:00am -6:00pm | The Forum           | Poster |
| 310 | 198 | 8:00am -6:00pm | The Forum           | Poster |
| 311 | 199 | 8:00am -6:00pm | The Forum           | Poster |
| 312 | 200 | 8:00am -6:00pm | The Forum           | Poster |
| 313 | 201 | 8:00am -6:00pm | Withdrawn by Author |        |
| 314 | 202 | 8:00am -6:00pm | The Forum           | Poster |
| 315 | 203 | 8:00am -6:00pm | The Forum           | Poster |
| 316 | 204 | 8:00am -6:00pm | The Forum           | Poster |
| 317 | 205 | 8:00am -6:00pm | The Forum           | Poster |
| 318 | 206 | 8:00am -6:00pm | The Forum           | Poster |
| 319 | 207 | 8:00am -6:00pm | The Forum           | Poster |
| 320 | 208 | 8:00am -6:00pm | The Forum           | Poster |
| 321 | 209 | 8:00am -6:00pm | The Forum           | Poster |
| 322 | 210 | 8:00am -6:00pm | The Forum           | Poster |
| 323 | 211 | 8:00am -6:00pm | The Forum           | Poster |
| 324 | 212 | 8:00am -6:00pm | The Forum           | Poster |
| 325 | 213 | 8:00am -6:00pm | The Forum           | Poster |
| 326 | 214 | 8:00am -6:00pm | The Forum           | Poster |
| 327 | 215 | 8:00am -6:00pm | The Forum           | Poster |

### Poster Session A: Use of Medicines - Alimentary & Metabolic

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 328 | 216 | 8:00am -6:00pm | The Forum | Poster |
| 329 | 217 | 8:00am -6:00pm | The Forum | Poster |
| 330 | 218 | 8:00am -6:00pm | The Forum | Poster |
| 331 | 219 | 8:00am -6:00pm | The Forum | Poster |
| 332 | 220 | 8:00am -6:00pm | The Forum | Poster |
| 333 | 221 | 8:00am -6:00pm | The Forum | Poster |
| 334 | 222 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session A: Use of Medicines - Hematological and Cardiovascular

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 335 | 223 | 8:00am -6:00pm | The Forum | Poster |
| 336 | 224 | 8:00am -6:00pm | The Forum | Poster |

| Pub. # | Poster # | Presentation Time | Room      | Format |
|--------|----------|-------------------|-----------|--------|
| 337    | 225      | 8:00am -6:00pm    | The Forum | Poster |
| 338    | 226      | 8:00am -6:00pm    | The Forum | Poster |
| 339    | 227      | 8:00am -6:00pm    | The Forum | Poster |
| 340    | 228      | 8:00am -6:00pm    | The Forum | Poster |
| 341    | 229      | 8:00am -6:00pm    | The Forum | Poster |
| 342    | 230      | 8:00am -6:00pm    | The Forum | Poster |
| 343    | 231      | 8:00am -6:00pm    | The Forum | Poster |
| 344    | 232      | 8:00am -6:00pm    | The Forum | Poster |
| 345    | 233      | 8:00am -6:00pm    | The Forum | Poster |
| 346    | 234      | 8:00am -6:00pm    | The Forum | Poster |
| 347    | 235      | 8:00am -6:00pm    | The Forum | Poster |
| 348    | 236      | 8:00am -6:00pm    | The Forum | Poster |
| 349    | 237      | 8:00am -6:00pm    | The Forum | Poster |
| 350    | 238      | 8:00am -6:00pm    | The Forum | Poster |
| 351    | 239      | 8:00am -6:00pm    | The Forum | Poster |
| 352    | 240      | 8:00am -6:00pm    | The Forum | Poster |

### Poster Session A: Use of Medicines - Neurological

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 353 | 241 | 8:00am -6:00pm | The Forum           | Poster |
| 354 | 242 | 8:00am -6:00pm | The Forum           | Poster |
| 355 | 243 | 8:00am -6:00pm | The Forum           | Poster |
| 356 | 244 | 8:00am -6:00pm | The Forum           | Poster |
| 357 | 245 | 8:00am -6:00pm | The Forum           | Poster |
| 358 | 246 | 8:00am -6:00pm | The Forum           | Poster |
| 359 | 247 | 8:00am -6:00pm | The Forum           | Poster |
| 360 | 248 | 8:00am -6:00pm | The Forum           | Poster |
| 361 | 249 | 8:00am -6:00pm | The Forum           | Poster |
| 362 | 250 | 8:00am -6:00pm | The Forum           | Poster |
| 363 | 251 | 8:00am -6:00pm | The Forum           | Poster |
| 364 | 252 | 8:00am -6:00pm | The Forum           | Poster |
| 365 | 253 | 8:00am -6:00pm | The Forum           | Poster |
| 366 | 254 | 8:00am -6:00pm | The Forum           | Poster |
| 367 | 255 | 8:00am -6:00pm | The Forum           | Poster |
| 368 | 256 | 8:00am -6:00pm | The Forum           | Poster |
| 369 | 257 | 8:00am -6:00pm | The Forum           | Poster |
| 370 | 258 | 8:00am -6:00pm | The Forum           | Poster |
| 371 | 259 | 8:00am -6:00pm | Withdrawn by Author |        |
| 372 | 260 | 8:00am -6:00pm | The Forum           | Poster |
| 373 | 261 | 8:00am -6:00pm | The Forum           | Poster |
| 374 | 262 | 8:00am -6:00pm | The Forum           | Poster |

### Poster Session A: Use of Medicines - Other

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 375 | 263 | 8:00am -6:00pm | The Forum           | Poster |
| 376 | 264 | 8:00am -6:00pm | The Forum           | Poster |
| 377 | 265 | 8:00am -6:00pm | The Forum           | Poster |
| 378 | 266 | 8:00am -6:00pm | Withdrawn by Author |        |
| 379 | 267 | 8:00am -6:00pm | The Forum           | Poster |
| 380 | 268 | 8:00am -6:00pm | The Forum           | Poster |
| 381 | 269 | 8:00am -6:00pm | Withdrawn by Author |        |
| 382 | 270 | 8:00am -6:00pm | The Forum           | Poster |
| 383 | 271 | 8:00am -6:00pm | The Forum           | Poster |
| 384 | 272 | 8:00am -6:00pm | The Forum           | Poster |
| 385 | 273 | 8:00am -6:00pm | The Forum           | Poster |
| 386 | 274 | 8:00am -6:00pm | The Forum           | Poster |
| 387 | 275 | 8:00am -6:00pm | The Forum           | Poster |
| 388 | 276 | 8:00am -6:00pm | The Forum           | Poster |
| 389 | 277 | 8:00am -6:00pm | The Forum           | Poster |
| 390 | 278 | 8:00am -6:00pm | The Forum           | Poster |
| 391 | 279 | 8:00am -6:00pm | The Forum           | Poster |
| 392 | 280 | 8:00am -6:00pm | The Forum           | Poster |
| 393 | 281 | 8:00am -6:00pm | The Forum           | Poster |
| 394 | 282 | 8:00am -6:00pm | The Forum           | Poster |
| 395 | 283 | 8:00am -6:00pm | The Forum           | Poster |

| Pub. #                         | Poster # | Presentation Time | Room      | Format |
|--------------------------------|----------|-------------------|-----------|--------|
| <b>FRIDAY, AUGUST 26 Cont.</b> |          |                   |           |        |
| 396                            | 284      | 8:00am -6:00pm    | The Forum | Poster |
| 397                            | 285      | 8:00am -6:00pm    | The Forum | Poster |
| 398                            | 286      | 8:00am -6:00pm    | The Forum | Poster |
| 399                            | 287      | 8:00am -6:00pm    | The Forum | Poster |
| 400                            | 288      | 8:00am -6:00pm    | The Forum | Poster |
| 401                            | 289      | 8:00am -6:00pm    | The Forum | Poster |
| 690                            | 290      | 8:00am -6:00pm    | The Forum | Poster |

## SATURDAY, AUGUST 27

| Psychotropics in Pregnancy |  |        |              |      |
|----------------------------|--|--------|--------------|------|
| 402                        |  | 8:00am | The Liffey A | Oral |
| 403                        |  | 8:15am | The Liffey A | Oral |
| 404                        |  | 8:30am | The Liffey A | Oral |
| 405                        |  | 8:45am | The Liffey A | Oral |
| 406                        |  | 9:00am | The Liffey A | Oral |
| 407                        |  | 9:15am | The Liffey A | Oral |

| Pay Attention to Pain: ADHD and Pain Treatment DUS |  |        |              |      |
|--|--|--------|--------------|------|
| 408  |  | 8:00am | The Liffey B | Oral |
| 409  |  | 8:15am | The Liffey B | Oral |
| 410  |  | 8:30am | The Liffey B | Oral |
| 411  |  | 8:45am | The Liffey B | Oral |
| 412  |  | 9:00am | The Liffey B | Oral |
| 413  |  | 9:15am | The Liffey B | Oral |

| Psychotropic Trends on Populations from a Multinational Perspective |  |        |                |      |
|---|--|--------|----------------|------|
| 414   |  | 8:00am | Wicklow Hall 2 | Oral |
| 415   |  | 8:15am | Wicklow Hall 2 | Oral |
| 416   |  | 8:30am | Wicklow Hall 2 | Oral |
| 417   |  | 8:45am | Wicklow Hall 2 | Oral |
| 418   |  | 9:00am | Wicklow Hall 2 | Oral |
| 419   |  | 9:15am | Wicklow Hall 2 | Oral |

| A Sticky Subject: Diabetes Safety |  |        |               |      |
|-----------------------------------|--|--------|---------------|------|
| 420                               |  | 8:00am | Liffey Hall 2 | Oral |
| 421                               |  | 8:15am | Liffey Hall 2 | Oral |
| 422                               |  | 8:30am | Liffey Hall 2 | Oral |
| 423                               |  | 8:45am | Liffey Hall 2 | Oral |
| 424                               |  | 9:00am | Liffey Hall 2 | Oral |
| 425                               |  | 9:15am | Liffey Hall 2 | Oral |

| Broken & Torn |  |        |               |      |
|---------------|--|--------|---------------|------|
| 426           |  | 8:00am | Liffey Hall 1 | Oral |
| 427           |  | 8:15am | Liffey Hall 1 | Oral |
| 428           |  | 8:30am | Liffey Hall 1 | Oral |
| 429           |  | 8:45am | Liffey Hall 1 | Oral |
| 430           |  | 9:00am | Liffey Hall 1 | Oral |
| 431           |  | 9:15am | Liffey Hall 1 | Oral |

| Identification and Validation of Outcomes |  |        |                |      |
|---|--|--------|----------------|------|
| 432                                       |  | 8:00am | The Auditorium | Oral |
| 433                                       |  | 8:15am | The Auditorium | Oral |
| 434                                       |  | 8:30am | The Auditorium | Oral |
| 435                                       |  | 8:45am | The Auditorium | Oral |
| 436                                       |  | 9:00am | The Auditorium | Oral |
| 437                                       |  | 9:15am | The Auditorium | Oral |

| Pub. #   | Poster # | Presentation Time | Room         | Format |
|--|----------|-------------------|--------------|--------|
| <b>CV Effectiveness: How to Fix a Broken Heart</b> |          |                   |              |        |
| 438  |          | 1:00pm            | The Liffey A | Oral   |
| 439  |          | 1:15pm            | The Liffey A | Oral   |
| 440  |          | 1:30pm            | The Liffey A | Oral   |
| 441  |          | 1:45pm            | The Liffey A | Oral   |
| 442  |          | 2:00pm            | The Liffey A | Oral   |
| 443  |          | 2:15pm            | The Liffey A | Oral   |

| Antipsychotic Use Across the Life Span |  |        |              |      |
|--|--|--------|--------------|------|
| 444                                    |  | 1:00pm | The Liffey B | Oral |
| 445                                    |  | 1:15pm | The Liffey B | Oral |
| 446                                    |  | 1:30pm | The Liffey B | Oral |
| 447                                    |  | 1:45pm | The Liffey B | Oral |
| 448                                    |  | 2:00pm | The Liffey B | Oral |
| 449                                    |  | 2:15pm | The Liffey B | Oral |

| To Take or Not to Take? |  |        |                |      |
|-------------------------|--|--------|----------------|------|
| 450                     |  | 1:00pm | Wicklow Hall 2 | Oral |
| 451                     |  | 1:15pm | Wicklow Hall 2 | Oral |
| 452                     |  | 1:30pm | Wicklow Hall 2 | Oral |
| 453                     |  | 1:45pm | Wicklow Hall 2 | Oral |
| 454                     |  | 2:00pm | Wicklow Hall 2 | Oral |
| 455                     |  | 2:15pm | Wicklow Hall 2 | Oral |

| Drug-Induced Kidney and Liver Injury |  |        |               |      |
|--------------------------------------|--|--------|---------------|------|
| 456                                  |  | 1:00pm | Liffey Hall 2 | Oral |
| 457                                  |  | 1:15pm | Liffey Hall 2 | Oral |
| 458                                  |  | 1:30pm | Liffey Hall 2 | Oral |
| 459                                  |  | 1:45pm | Liffey Hall 2 | Oral |
| 460                                  |  | 2:00pm | Liffey Hall 2 | Oral |
| 461                                  |  | 2:15pm | Liffey Hall 2 | Oral |

| Biologics - Miracle Drug |  |        |               |      |
|--------------------------|--|--------|---------------|------|
| 462                      |  | 1:00pm | Liffey Hall 1 | Oral |
| 463                      |  | 1:15pm | Liffey Hall 1 | Oral |
| 464                      |  | 1:30pm | Liffey Hall 1 | Oral |
| 465                      |  | 1:45pm | Liffey Hall 1 | Oral |
| 466                      |  | 2:00pm | Liffey Hall 1 | Oral |
| 467                      |  | 2:15pm | Liffey Hall 1 | Oral |

| A Methods Coddle |  |        |                |      |
|------------------|--|--------|----------------|------|
| 468              |  | 1:00pm | The Auditorium | Oral |
| 469              |  | 1:15pm | The Auditorium | Oral |
| 470              |  | 1:30pm | The Auditorium | Oral |
| 471              |  | 1:45pm | The Auditorium | Oral |
| 472              |  | 2:00pm | The Auditorium | Oral |
| 473              |  | 2:15pm | The Auditorium | Oral |

| Annual Meeting of ISPE Members & Awards Ceremony |  |  |                |      |
|--|--|--|----------------|------|
| 474  |  |  | The Auditorium | Oral |

| Perspectives from Causal Inference in the Era of Big (Healthcare) Data |  |  |                |          |
|--|--|--|----------------|----------|
| 475  |  |  | The Auditorium | Symposia |

| Making Optimal Use of Routinely Collected Data from United Kingdom Electronic Health Records |  |  |              |          |
|--|--|--|--------------|----------|
| 476  |  |  | The Liffey B | Symposia |

| Using "Big Data" in Early Safety Evidence Gathering And Targeted Surveillance For Newly Launched Medicines: Is It The Right Time Now? |  |  |              |          |
|---|--|--|--------------|----------|
| 477   |  |  | The Liffey A | Symposia |

# 32<sup>nd</sup> ICPE ABSTRACT INDEX

| Pub. #                           | Poster # | Presentation Time | Room | Format |
|----------------------------------|----------|-------------------|------|--------|
| <b>SATURDAY, AUGUST 27 Cont.</b> |          |                   |      |        |

## What's in a Code? Algorithm Validation in Drug Safety Studies

|     |  |  |                |          |
|-----|--|--|----------------|----------|
| 478 |  |  | Wicklow Hall 2 | Symposia |
|-----|--|--|----------------|----------|

## The Epidemiological Approach to Rare Disease Research: Challenges and Opportunities

|     |  |  |               |          |
|-----|--|--|---------------|----------|
| 479 |  |  | Liffey Hall 2 | Symposia |
|-----|--|--|---------------|----------|

## The Role of Evidence Synthesis in Drug Safety Evaluation and Regulation

|     |  |  |               |          |
|-----|--|--|---------------|----------|
| 480 |  |  | Liffey Hall 1 | Symposia |
|-----|--|--|---------------|----------|

## A Discussion of Data Requirements and Methodologic Considerations for Evaluating the Real-World Effectiveness and Safety of Biosimilar Medicines

|     |  |                       |  |          |
|-----|--|-----------------------|--|----------|
| 481 |  | Liffey Meeting Room 2 |  | Symposia |
|-----|--|-----------------------|--|----------|

### Poster Session B: Spotlight Session-AsPEN

|     |   |                  |             |        |
|-----|---|------------------|-------------|--------|
| 482 | A | 11:45am -12:45pm | Third Floor | Poster |
| 483 | B | 11:45am -12:45pm | Third Floor | Poster |
| 484 | C | 11:45am -12:45pm | Third Floor | Poster |
| 485 | D | 11:45am -12:45pm | Third Floor | Poster |
| 486 | E | 11:45am -12:45pm | Third Floor | Poster |
| 487 | F | 11:45am -12:45pm | Third Floor | Poster |
| 488 | G | 11:45am -12:45pm | Third Floor | Poster |
| 489 | H | 11:45am -12:45pm | Third Floor | Poster |

### Poster Session B: Spotlight Session-BRACE

|     |   |                  |             |        |
|-----|---|------------------|-------------|--------|
| 490 | I | 11:45am -12:45pm | Third Floor | Poster |
| 491 | J | 11:45am -12:45pm | Third Floor | Poster |
| 492 | K | 11:45am -12:45pm | Third Floor | Poster |
| 493 | L | 11:45am -12:45pm | Third Floor | Poster |
| 494 | M | 11:45am -12:45pm | Third Floor | Poster |
| 495 | N | 11:45am -12:45pm | Third Floor | Poster |
| 496 | O | 11:45am -12:45pm | Third Floor | Poster |
| 497 | P | 11:45am -12:45pm | Third Floor | Poster |

### Poster Session B: Spotlight Session-DUR

|     |   |                  |             |        |
|-----|---|------------------|-------------|--------|
| 498 | Q | 11:45am -12:45pm | Third Floor | Poster |
| 499 | R | 11:45am -12:45pm | Third Floor | Poster |
| 500 | S | 11:45am -12:45pm | Third Floor | Poster |
| 501 | T | 11:45am -12:45pm | Third Floor | Poster |
| 502 | U | 11:45am -12:45pm | Third Floor | Poster |
| 503 | V | 11:45am -12:45pm | Third Floor | Poster |
| 505 | X | 11:45am -12:45pm | Third Floor | Poster |

### Poster Session B: Spotlight Session-Meds in Pregnancy

|     |    |                  |             |        |
|-----|----|------------------|-------------|--------|
| 506 | Y  | 11:45am -12:45pm | Third Floor | Poster |
| 507 | Z  | 11:45am -12:45pm | Third Floor | Poster |
| 508 | AA | 11:45am -12:45pm | Third Floor | Poster |
| 509 | BB | 11:45am -12:45pm | Third Floor | Poster |
| 510 | CC | 11:45am -12:45pm | Third Floor | Poster |
| 511 | DD | 11:45am -12:45pm | Third Floor | Poster |
| 512 | EE | 11:45am -12:45pm | Third Floor | Poster |
| 513 | FF | 11:45am -12:45pm | Third Floor | Poster |

### Poster Session B: BRACE

|     |   |                |           |        |
|-----|---|----------------|-----------|--------|
| 514 | 1 | 8:00am -6:00pm | The Forum | Poster |
| 515 | 2 | 8:00am -6:00pm | The Forum | Poster |
| 516 | 3 | 8:00am -6:00pm | The Forum | Poster |
| 517 | 4 | 8:00am -6:00pm | The Forum | Poster |

| Pub. # | Poster # | Presentation Time | Room      | Format |
|--------|----------|-------------------|-----------|--------|
| 518    | 5        | 8:00am -6:00pm    | The Forum | Poster |
| 519    | 6        | 8:00am -6:00pm    | The Forum | Poster |
| 520    | 7        | 8:00am -6:00pm    | The Forum | Poster |
| 521    | 8        | 8:00am -6:00pm    | The Forum | Poster |
| 522    | 9        | 8:00am -6:00pm    | The Forum | Poster |
| 523    | 10       | 8:00am -6:00pm    | The Forum | Poster |
| 524    | 11       | 8:00am -6:00pm    | The Forum | Poster |
| 525    | 12       | 8:00am -6:00pm    | The Forum | Poster |
| 526    | 13       | 8:00am -6:00pm    | The Forum | Poster |
| 527    | 14       | 8:00am -6:00pm    | The Forum | Poster |
| 528    | 15       | 8:00am -6:00pm    | The Forum | Poster |
| 529    | 16       | 8:00am -6:00pm    | The Forum | Poster |
| 530    | 17       | 8:00am -6:00pm    | The Forum | Poster |
| 531    | 18       | 8:00am -6:00pm    | The Forum | Poster |
| 532    | 19       | 8:00am -6:00pm    | The Forum | Poster |
| 533    | 20       | 8:00am -6:00pm    | The Forum | Poster |
| 534    | 21       | 8:00am -6:00pm    | The Forum | Poster |
| 535    | 22       | 8:00am -6:00pm    | The Forum | Poster |
| 536    | 23       | 8:00am -6:00pm    | The Forum | Poster |
| 537    | 24       | 8:00am -6:00pm    | The Forum | Poster |
| 538    | 25       | 8:00am -6:00pm    | The Forum | Poster |
| 539    | 26       | 8:00am -6:00pm    | The Forum | Poster |
| 540    | 27       | 8:00am -6:00pm    | The Forum | Poster |
| 541    | 28       | 8:00am -6:00pm    | The Forum | Poster |
| 542    | 29       | 8:00am -6:00pm    | The Forum | Poster |
| 543    | 30       | 8:00am -6:00pm    | The Forum | Poster |
| 544    | 31       | 8:00am -6:00pm    | The Forum | Poster |
| 545    | 32       | 8:00am -6:00pm    | The Forum | Poster |
| 546    | 33       | 8:00am -6:00pm    | The Forum | Poster |
| 547    | 34       | 8:00am -6:00pm    | The Forum | Poster |
| 548    | 35       | 8:00am -6:00pm    | The Forum | Poster |
| 549    | 36       | 8:00am -6:00pm    | The Forum | Poster |
| 550    | 37       | 8:00am -6:00pm    | The Forum | Poster |

### Poster Session B: Pregnancy

|     |    |                |                     |        |
|-----|----|----------------|---------------------|--------|
| 551 | 38 | 8:00am -6:00pm | The Forum           | Poster |
| 552 | 39 | 8:00am -6:00pm | The Forum           | Poster |
| 553 | 40 | 8:00am -6:00pm | The Forum           | Poster |
| 554 | 41 | 8:00am -6:00pm | The Forum           | Poster |
| 555 | 42 | 8:00am -6:00pm | The Forum           | Poster |
| 556 | 43 | 8:00am -6:00pm | The Forum           | Poster |
| 557 | 44 | 8:00am -6:00pm | The Forum           | Poster |
| 558 | 45 | 8:00am -6:00pm | The Forum           | Poster |
| 559 | 46 | 8:00am -6:00pm | The Forum           | Poster |
| 560 | 47 | 8:00am -6:00pm | The Forum           | Poster |
| 561 | 48 | 8:00am -6:00pm | The Forum           | Poster |
| 562 | 49 | 8:00am -6:00pm | Withdrawn by Author |        |
| 563 | 50 | 8:00am -6:00pm | The Forum           | Poster |
| 564 | 51 | 8:00am -6:00pm | The Forum           | Poster |
| 565 | 52 | 8:00am -6:00pm | The Forum           | Poster |
| 566 | 53 | 8:00am -6:00pm | The Forum           | Poster |
| 567 | 54 | 8:00am -6:00pm | The Forum           | Poster |
| 568 | 55 | 8:00am -6:00pm | The Forum           | Poster |
| 569 | 56 | 8:00am -6:00pm | The Forum           | Poster |
| 570 | 57 | 8:00am -6:00pm | The Forum           | Poster |
| 571 | 58 | 8:00am -6:00pm | The Forum           | Poster |
| 572 | 59 | 8:00am -6:00pm | The Forum           | Poster |
| 573 | 60 | 8:00am -6:00pm | The Forum           | Poster |
| 574 | 61 | 8:00am -6:00pm | The Forum           | Poster |
| 575 | 62 | 8:00am -6:00pm | The Forum           | Poster |
| 576 | 63 | 8:00am -6:00pm | The Forum           | Poster |
| 577 | 64 | 8:00am -6:00pm | The Forum           | Poster |
| 578 | 65 | 8:00am -6:00pm | The Forum           | Poster |

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| Pub. #                           | Poster # | Presentation Time | Room | Format |
|----------------------------------|----------|-------------------|------|--------|
| <b>SATURDAY, AUGUST 27 Cont.</b> |          |                   |      |        |

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 579 | 66 | 8:00am -6:00pm | The Forum | Poster |
| 580 | 67 | 8:00am -6:00pm | The Forum | Poster |
| 581 | 68 | 8:00am -6:00pm | The Forum | Poster |
| 582 | 69 | 8:00am -6:00pm | The Forum | Poster |
| 583 | 70 | 8:00am -6:00pm | The Forum | Poster |
| 584 | 71 | 8:00am -6:00pm | The Forum | Poster |
| 585 | 72 | 8:00am -6:00pm | The Forum | Poster |
| 586 | 73 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session B: Changing Drug Utilization

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 587 | 74 | 8:00am -6:00pm | The Forum | Poster |
| 588 | 75 | 8:00am -6:00pm | The Forum | Poster |
| 589 | 76 | 8:00am -6:00pm | The Forum | Poster |
| 590 | 77 | 8:00am -6:00pm | The Forum | Poster |
| 591 | 78 | 8:00am -6:00pm | The Forum | Poster |
| 592 | 79 | 8:00am -6:00pm | The Forum | Poster |
| 593 | 80 | 8:00am -6:00pm | The Forum | Poster |
| 594 | 81 | 8:00am -6:00pm | The Forum | Poster |
| 595 | 82 | 8:00am -6:00pm | The Forum | Poster |
| 596 | 83 | 8:00am -6:00pm | The Forum | Poster |
| 597 | 84 | 8:00am -6:00pm | The Forum | Poster |
| 598 | 85 | 8:00am -6:00pm | The Forum | Poster |
| 599 | 86 | 8:00am -6:00pm | The Forum | Poster |
| 600 | 87 | 8:00am -6:00pm | The Forum | Poster |
| 601 | 88 | 8:00am -6:00pm | The Forum | Poster |
| 602 | 89 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session B: Drug Utilization and Policy

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 603 | 90  | 8:00am -6:00pm | The Forum | Poster |
| 604 | 91  | 8:00am -6:00pm | The Forum | Poster |
| 605 | 92  | 8:00am -6:00pm | The Forum | Poster |
| 606 | 93  | 8:00am -6:00pm | The Forum | Poster |
| 607 | 94  | 8:00am -6:00pm | The Forum | Poster |
| 608 | 95  | 8:00am -6:00pm | The Forum | Poster |
| 609 | 96  | 8:00am -6:00pm | The Forum | Poster |
| 610 | 97  | 8:00am -6:00pm | The Forum | Poster |
| 611 | 98  | 8:00am -6:00pm | The Forum | Poster |
| 612 | 99  | 8:00am -6:00pm | The Forum | Poster |
| 613 | 100 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session B: Geriatric Pharmacoepidemiology

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 614 | 101 | 8:00am -6:00pm | The Forum           | Poster |
| 615 | 102 | 8:00am -6:00pm | The Forum           | Poster |
| 616 | 103 | 8:00am -6:00pm | The Forum           | Poster |
| 617 | 104 | 8:00am -6:00pm | The Forum           | Poster |
| 618 | 105 | 8:00am -6:00pm | The Forum           | Poster |
| 619 | 106 | 8:00am -6:00pm | The Forum           | Poster |
| 620 | 107 | 8:00am -6:00pm | The Forum           | Poster |
| 621 | 108 | 8:00am -6:00pm | The Forum           | Poster |
| 622 | 109 | 8:00am -6:00pm | The Forum           | Poster |
| 623 | 110 | 8:00am -6:00pm | Withdrawn by Author |        |
| 624 | 111 | 8:00am -6:00pm | The Forum           | Poster |
| 625 | 112 | 8:00am -6:00pm | The Forum           | Poster |
| 626 | 113 | 8:00am -6:00pm | The Forum           | Poster |
| 627 | 114 | 8:00am -6:00pm | The Forum           | Poster |
| 628 | 115 | 8:00am -6:00pm | The Forum           | Poster |
| 629 | 116 | 8:00am -6:00pm | The Forum           | Poster |
| 630 | 117 | 8:00am -6:00pm | The Forum           | Poster |
| 631 | 118 | 8:00am -6:00pm | The Forum           | Poster |
| 632 | 119 | 8:00am -6:00pm | The Forum           | Poster |
| 633 | 120 | 8:00am -6:00pm | The Forum           | Poster |

| Pub. # | Poster # | Presentation Time | Room      | Format |
|--------|----------|-------------------|-----------|--------|
| 634    | 121      | 8:00am -6:00pm    | The Forum | Poster |
| 635    | 122      | 8:00am -6:00pm    | The Forum | Poster |
| 636    | 123      | 8:00am -6:00pm    | The Forum | Poster |
| 637    | 124      | 8:00am -6:00pm    | The Forum | Poster |
| 638    | 125      | 8:00am -6:00pm    | The Forum | Poster |
| 639    | 126      | 8:00am -6:00pm    | The Forum | Poster |
| 640    | 127      | 8:00am -6:00pm    | The Forum | Poster |
| 641    | 128      | 8:00am -6:00pm    | The Forum | Poster |
| 642    | 129      | 8:00am -6:00pm    | The Forum | Poster |
| 643    | 130      | 8:00am -6:00pm    | The Forum | Poster |
| 644    | 131      | 8:00am -6:00pm    | The Forum | Poster |
| 645    | 132      | 8:00am -6:00pm    | The Forum | Poster |
| 646    | 133      | 8:00am -6:00pm    | The Forum | Poster |
| 647    | 134      | 8:00am -6:00pm    | The Forum | Poster |
| 648    | 135      | 8:00am -6:00pm    | The Forum | Poster |
| 649    | 136      | 8:00am -6:00pm    | The Forum | Poster |
| 650    | 137      | 8:00am -6:00pm    | The Forum | Poster |
| 651    | 138      | 8:00am -6:00pm    | The Forum | Poster |
| 652    | 139      | 8:00am -6:00pm    | The Forum | Poster |
| 653    | 140      | 8:00am -6:00pm    | The Forum | Poster |

### Poster Session B: Molecular Epidemiology and Pharmacogenetics

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 654 | 141 | 8:00am -6:00pm | The Forum | Poster |
| 655 | 142 | 8:00am -6:00pm | The Forum | Poster |
| 656 | 143 | 8:00am -6:00pm | The Forum | Poster |
| 657 | 144 | 8:00am -6:00pm | The Forum | Poster |
| 658 | 145 | 8:00am -6:00pm | The Forum | Poster |
| 659 | 146 | 8:00am -6:00pm | The Forum | Poster |
| 660 | 147 | 8:00am -6:00pm | The Forum | Poster |
| 661 | 148 | 8:00am -6:00pm | The Forum | Poster |
| 662 | 149 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session B: Potpourri

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 663 | 150 | 8:00am -6:00pm | The Forum | Poster |
| 664 | 151 | 8:00am -6:00pm | The Forum | Poster |
| 665 | 152 | 8:00am -6:00pm | The Forum | Poster |
| 666 | 153 | 8:00am -6:00pm | The Forum | Poster |
| 667 | 154 | 8:00am -6:00pm | The Forum | Poster |
| 668 | 155 | 8:00am -6:00pm | The Forum | Poster |
| 669 | 156 | 8:00am -6:00pm | The Forum | Poster |
| 670 | 157 | 8:00am -6:00pm | The Forum | Poster |
| 671 | 158 | 8:00am -6:00pm | The Forum | Poster |
| 672 | 159 | 8:00am -6:00pm | The Forum | Poster |
| 673 | 160 | 8:00am -6:00pm | The Forum | Poster |
| 674 | 161 | 8:00am -6:00pm | The Forum | Poster |
| 675 | 162 | 8:00am -6:00pm | The Forum | Poster |
| 676 | 163 | 8:00am -6:00pm | The Forum | Poster |
| 677 | 164 | 8:00am -6:00pm | The Forum | Poster |
| 678 | 165 | 8:00am -6:00pm | The Forum | Poster |
| 679 | 166 | 8:00am -6:00pm | The Forum | Poster |
| 680 | 167 | 8:00am -6:00pm | The Forum | Poster |
| 681 | 168 | 8:00am -6:00pm | The Forum | Poster |
| 682 | 169 | 8:00am -6:00pm | The Forum | Poster |
| 683 | 170 | 8:00am -6:00pm | The Forum | Poster |
| 684 | 171 | 8:00am -6:00pm | The Forum | Poster |
| 685 | 172 | 8:00am -6:00pm | The Forum | Poster |
| 686 | 173 | 8:00am -6:00pm | The Forum | Poster |
| 687 | 174 | 8:00am -6:00pm | The Forum | Poster |

### Poster Session B: Pharmacovigilance

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 688 | 175 | 8:00am -6:00pm | The Forum | Poster |
| 689 | 176 | 8:00am -6:00pm | The Forum | Poster |

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## SATURDAY, AUGUST 27 Cont.

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|--------|----------|-------------------|---------------------|--------|
| 691    | 177      | 8:00am -6:00pm    | The Forum           | Poster |
| 692    | 178      | 8:00am -6:00pm    | The Forum           | Poster |
| 693    | 179      | 8:00am -6:00pm    | Withdrawn by Author |        |
| 694    | 180      | 8:00am -6:00pm    | The Forum           | Poster |
| 695    | 181      | 8:00am -6:00pm    | The Forum           | Poster |
| 696    | 182      | 8:00am -6:00pm    | The Forum           | Poster |
| 697    | 183      | 8:00am -6:00pm    | The Forum           | Poster |
| 698    | 184      | 8:00am -6:00pm    | The Forum           | Poster |
| 699    | 185      | 8:00am -6:00pm    | The Forum           | Poster |
| 700    | 186      | 8:00am -6:00pm    | The Forum           | Poster |
| 701    | 187      | 8:00am -6:00pm    | The Forum           | Poster |
| 702    | 188      | 8:00am -6:00pm    | The Forum           | Poster |
| 703    | 189      | 8:00am -6:00pm    | The Forum           | Poster |
| 704    | 190      | 8:00am -6:00pm    | The Forum           | Poster |
| 705    | 191      | 8:00am -6:00pm    | The Forum           | Poster |
| 706    | 192      | 8:00am -6:00pm    | The Forum           | Poster |
| 707    | 193      | 8:00am -6:00pm    | The Forum           | Poster |
| 708    | 194      | 8:00am -6:00pm    | The Forum           | Poster |
| 709    | 195      | 8:00am -6:00pm    | The Forum           | Poster |
| 710    | 196      | 8:00am -6:00pm    | The Forum           | Poster |
| 711    | 197      | 8:00am -6:00pm    | The Forum           | Poster |
| 712    | 198      | 8:00am -6:00pm    | The Forum           | Poster |
| 713    | 199      | 8:00am -6:00pm    | The Forum           | Poster |
| 714    | 200      | 8:00am -6:00pm    | The Forum           | Poster |
| 715    | 201      | 8:00am -6:00pm    | The Forum           | Poster |
| 716    | 202      | 8:00am -6:00pm    | The Forum           | Poster |
| 717    | 203      | 8:00am -6:00pm    | The Forum           | Poster |
| 718    | 204      | 8:00am -6:00pm    | The Forum           | Poster |

### Poster Session B: Pharmacovigilance by Geography

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 719 | 205 | 8:00am -6:00pm | The Forum           | Poster |
| 720 | 206 | 8:00am -6:00pm | The Forum           | Poster |
| 721 | 207 | 8:00am -6:00pm | The Forum           | Poster |
| 722 | 208 | 8:00am -6:00pm | The Forum           | Poster |
| 723 | 209 | 8:00am -6:00pm | The Forum           | Poster |
| 724 | 210 | 8:00am -6:00pm | The Forum           | Poster |
| 725 | 211 | 8:00am -6:00pm | The Forum           | Poster |
| 726 | 212 | 8:00am -6:00pm | The Forum           | Poster |
| 727 | 213 | 8:00am -6:00pm | The Forum           | Poster |
| 728 | 214 | 8:00am -6:00pm | The Forum           | Poster |
| 729 | 215 | 8:00am -6:00pm | The Forum           | Poster |
| 730 | 216 | 8:00am -6:00pm | The Forum           | Poster |
| 731 | 217 | 8:00am -6:00pm | The Forum           | Poster |
| 732 | 218 | 8:00am -6:00pm | The Forum           | Poster |
| 733 | 219 | 8:00am -6:00pm | The Forum           | Poster |
| 734 | 220 | 8:00am -6:00pm | The Forum           | Poster |
| 735 | 221 | 8:00am -6:00pm | The Forum           | Poster |
| 736 | 222 | 8:00am -6:00pm | Withdrawn by Author |        |

### Poster Session B: Pharmacovigilance - Alimentary and Metabolic

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 737 | 223 | 8:00am -6:00pm | The Forum | Poster |
| 738 | 224 | 8:00am -6:00pm | The Forum | Poster |
| 739 | 225 | 8:00am -6:00pm | The Forum | Poster |
| 740 | 226 | 8:00am -6:00pm | The Forum | Poster |
| 741 | 227 | 8:00am -6:00pm | The Forum | Poster |
| 742 | 228 | 8:00am -6:00pm | The Forum | Poster |
| 743 | 229 | 8:00am -6:00pm | The Forum | Poster |
| 744 | 230 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session B: Pharmacovigilance - Anti-infectives

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 745 | 231 | 8:00am -6:00pm | The Forum | Poster |
| 746 | 232 | 8:00am -6:00pm | The Forum | Poster |
| 747 | 233 | 8:00am -6:00pm | The Forum | Poster |
| 748 | 234 | 8:00am -6:00pm | The Forum | Poster |
| 749 | 235 | 8:00am -6:00pm | The Forum | Poster |
| 750 | 236 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session B: Pharmacovigilance - Cancer

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 751 | 237 | 8:00am -6:00pm | The Forum | Poster |
| 752 | 238 | 8:00am -6:00pm | The Forum | Poster |
| 753 | 239 | 8:00am -6:00pm | The Forum | Poster |
| 754 | 240 | 8:00am -6:00pm | The Forum | Poster |
| 755 | 241 | 8:00am -6:00pm | The Forum | Poster |
| 756 | 242 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session B: Pharmacovigilance - Cardiovascular

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 757 | 243 | 8:00am -6:00pm | The Forum           | Poster |
| 758 | 244 | 8:00am -6:00pm | The Forum           | Poster |
| 759 | 245 | 8:00am -6:00pm | The Forum           | Poster |
| 760 | 246 | 8:00am -6:00pm | Withdrawn by Author |        |
| 761 | 247 | 8:00am -6:00pm | The Forum           | Poster |
| 762 | 248 | 8:00am -6:00pm | The Forum           | Poster |
| 763 | 249 | 8:00am -6:00pm | The Forum           | Poster |

## Poster Session B: Pharmacovigilance - Pain and Neurological

|     |     |                |           |        |
|-----|-----|----------------|-----------|--------|
| 764 | 250 | 8:00am -6:00pm | The Forum | Poster |
| 765 | 251 | 8:00am -6:00pm | The Forum | Poster |
| 766 | 252 | 8:00am -6:00pm | The Forum | Poster |
| 767 | 253 | 8:00am -6:00pm | The Forum | Poster |
| 768 | 254 | 8:00am -6:00pm | The Forum | Poster |
| 769 | 255 | 8:00am -6:00pm | The Forum | Poster |
| 770 | 256 | 8:00am -6:00pm | The Forum | Poster |
| 771 | 257 | 8:00am -6:00pm | The Forum | Poster |
| 772 | 258 | 8:00am -6:00pm | The Forum | Poster |
| 773 | 259 | 8:00am -6:00pm | The Forum | Poster |
| 774 | 260 | 8:00am -6:00pm | The Forum | Poster |
| 775 | 261 | 8:00am -6:00pm | The Forum | Poster |
| 776 | 262 | 8:00am -6:00pm | The Forum | Poster |
| 777 | 263 | 8:00am -6:00pm | The Forum | Poster |

## Poster Session B: Pharmacovigilance - Other Therapeutic

|     |     |                |                     |        |
|-----|-----|----------------|---------------------|--------|
| 778 | 264 | 8:00am -6:00pm | The Forum           | Poster |
| 779 | 265 | 8:00am -6:00pm | Withdrawn by Author |        |
| 780 | 266 | 8:00am -6:00pm | The Forum           | Poster |
| 781 | 267 | 8:00am -6:00pm | The Forum           | Poster |
| 782 | 268 | 8:00am -6:00pm | The Forum           | Poster |
| 783 | 269 | 8:00am -6:00pm | The Forum           | Poster |
| 784 | 270 | 8:00am -6:00pm | The Forum           | Poster |
| 785 | 271 | 8:00am -6:00pm | The Forum           | Poster |
| 786 | 272 | 8:00am -6:00pm | Withdrawn by Author |        |
| 787 | 273 | 8:00am -6:00pm | The Forum           | Poster |
| 788 | 274 | 8:00am -6:00pm | The Forum           | Poster |
| 789 | 275 | 8:00am -6:00pm | The Forum           | Poster |
| 790 | 276 | 8:00am -6:00pm | The Forum           | Poster |
| 841 | 277 | 8:00am -6:00pm | The Forum           | Poster |
| 884 | 278 | 8:00am -6:00pm | The Forum           | Poster |

## Poster Session B: Other Safety & Effectiveness

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1029 | 279 | 8:00am -6:00pm | The Forum | Poster |
|------|-----|----------------|-----------|--------|

| Pub. #   | Poster # | Presentation Time | Room           | Format   |
|--|----------|-------------------|----------------|----------|
| <b>SUNDAY, AUGUST 28</b>   |          |                   |                |          |
| <b>From Eve to...</b>  |          |                   |                |          |
| 791  |          | 8:30am            | The Liffey A   | Oral     |
| 792  |          | 8:45am            | The Liffey A   | Oral     |
| 793  |          | 9:00am            | The Liffey A   | Oral     |
| 794  |          | 9:15am            | The Liffey A   | Oral     |
| 795  |          | 9:30am            | The Liffey A   | Oral     |
| 796  |          | 9:45am            | The Liffey A   | Oral     |
| <b>My Achy Breaky Heart: Diabetes and CVD</b>  |          |                   |                |          |
| 797  |          | 8:30am            | The Liffey B   | Oral     |
| 798  |          | 8:45am            | The Liffey B   | Oral     |
| 1096   |          | 9:00am            | The Liffey B   | Oral     |
| 800  |          | 9:15am            | The Liffey B   | Oral     |
| 801  |          | 9:30am            | The Liffey B   | Oral     |
| 802  |          | 9:45am            | The Liffey B   | Oral     |
| <b>Keeping Up - A Potpourri</b>  |          |                   |                |          |
| 803  |          | 8:30am            | Wicklow Hall 2 | Oral     |
| 804  |          | 8:45am            | Wicklow Hall 2 | Oral     |
| 805  |          | 9:00am            | Wicklow Hall 2 | Oral     |
| 806  |          | 9:15am            | Wicklow Hall 2 | Oral     |
| 807  |          | 9:30am            | Wicklow Hall 2 | Oral     |
| 808  |          | 9:45am            | Wicklow Hall 2 | Oral     |
| <b>Adverse Outcomes and Infectious Diseases</b>  |          |                   |                |          |
| 809  |          | 8:30am            | Liffey Hall 2  | Oral     |
| 810  |          | 8:45am            | Liffey Hall 2  | Oral     |
| 811  |          | 9:00am            | Liffey Hall 2  | Oral     |
| 812  |          | 9:15am            | Liffey Hall 2  | Oral     |
| 813  |          | 9:30am            | Liffey Hall 2  | Oral     |
| 814  |          | 9:45am            | Liffey Hall 2  | Oral     |
| <b>Vaccines: Hit Me with Your Best Shot</b>  |          |                   |                |          |
| 815  |          | 8:30am            | Liffey Hall 1  | Oral     |
| 816  |          | 8:45am            | Liffey Hall 1  | Oral     |
| 817  |          | 9:00am            | Liffey Hall 1  | Oral     |
| 818  |          | 9:15am            | Liffey Hall 1  | Oral     |
| 819  |          | 9:30am            | Liffey Hall 1  | Oral     |
| 820  |          | 9:45am            | Liffey Hall 1  | Oral     |
| <b>Analytic Approaches for Controlling Confounding and Exposure Misclassification</b>  |          |                   |                |          |
| 821  |          | 8:30am            | The Auditorium | Oral     |
| 822  |          | 8:45am            | The Auditorium | Oral     |
| 823  |          | 9:00am            | The Auditorium | Oral     |
| 824  |          | 9:15am            | The Auditorium | Oral     |
| 825  |          | 9:30am            | The Auditorium | Oral     |
| 826  |          | 9:45am            | The Auditorium | Oral     |
| <b>Pattern Discovery in Observational Health Data - What We Did Not Know to Look For</b>                                     |          |                   |                |          |
| 827  |          |                   | The Auditorium | Symposia |
| <b>Clinical and Analytic Considerations in The Selection and Evaluation of Comparators in Observational Database Studies</b> |          |                   |                |          |
| 828  |          |                   | The Liffey B   | Symposia |

| Pub. #   | Poster # | Presentation Time | Room           | Format   |
|--|----------|-------------------|----------------|----------|
| <b>Pharmacoepidemiology and Risk Management Planning: Essential Enablers for Development of Innovative Medicines</b> |          |                   |                |          |
| 829  |          |                   | The Liffey A   | Symposia |
| <b>Transitioning to ICD-10: International Lessons Learned and Strategies for Moving Forward</b>                      |          |                   |                |          |
| 830  |          |                   | Wicklow Hall 2 | Symposia |
| <b>Who to Ask And How? Preference-Based Methods for Benefit-Risk Assessment</b>                                      |          |                   |                |          |
| 831  |          |                   | Liffey Hall 2  | Symposia |
| <b>Implications for Patients, Industry and Regulators</b>  |          |                   |                |          |
| 832  |          |                   | Liffey Hall 1  | Symposia |
| <b>Practice of Epidemiology in Pregnancy Studies</b>   |          |                   |                |          |
| 833  |          | 3:15pm            | The Liffey A   | Oral     |
| 834  |          | 3:30pm            | The Liffey A   | Oral     |
| 835  |          | 3:45pm            | The Liffey A   | Oral     |
| 836  |          | 4:00pm            | The Liffey A   | Oral     |
| 837  |          | 4:15pm            | The Liffey A   | Oral     |
| 838  |          | 4:30pm            | The Liffey A   | Oral     |
| <b>Disease Burden from Clinical Databases</b>  |          |                   |                |          |
| 839  |          | 3:15pm            | The Liffey B   | Oral     |
| 840  |          | 3:30pm            | The Liffey B   | Oral     |
| 172  |          | 3:45pm            | The Liffey B   | Oral     |
| 842  |          | 4:00pm            | The Liffey B   | Oral     |
| 843  |          | 4:15pm            | The Liffey B   | Oral     |
| 844  |          | 4:30pm            | The Liffey B   | Oral     |
| <b>CV Adverse Events: Affairs of the Heart</b>   |          |                   |                |          |
| 845  |          | 3:15pm            | Wicklow Hall 2 | Oral     |
| 846  |          | 3:30pm            | Wicklow Hall 2 | Oral     |
| 847  |          | 3:45pm            | Wicklow Hall 2 | Oral     |
| 848  |          | 4:00pm            | Wicklow Hall 2 | Oral     |
| 849  |          | 4:15pm            | Wicklow Hall 2 | Oral     |
| 850  |          | 4:30pm            | Wicklow Hall 2 | Oral     |
| <b>Adverse Outcomes of Glucocorticoid and Immunomodulator Use</b>  |          |                   |                |          |
| 851  |          | 3:15pm            | Liffey Hall 2  | Oral     |
| 852  |          | 3:30pm            | Liffey Hall 2  | Oral     |
| 853  |          | 3:45pm            | Liffey Hall 2  | Oral     |
| 854  |          | 4:00pm            | Liffey Hall 2  | Oral     |
| 855  |          | 4:15pm            | Liffey Hall 2  | Oral     |
| 856  |          | 4:30pm            | Liffey Hall 2  | Oral     |
| <b>Thin Blood: Anticoagulants</b>  |          |                   |                |          |
| 857  |          | 3:15pm            | Liffey Hall 1  | Oral     |
| 858  |          | 3:30pm            | Liffey Hall 1  | Oral     |
| 859  |          | 3:45pm            | Liffey Hall 1  | Oral     |
| 504  |          | 4:00pm            | Liffey Hall 1  | Oral     |
| 861  |          | 4:15pm            | Liffey Hall 1  | Oral     |
| 862  |          | 4:30pm            | Liffey Hall 1  | Oral     |
| <b>Is it Safe Enough?</b>  |          |                   |                |          |
| 863  |          | 3:15pm            | The Auditorium | Oral     |
| 864  |          | 3:30pm            | The Auditorium | Oral     |
| 865  |          | 3:45pm            | The Auditorium | Oral     |
| 866  |          | 4:00pm            | The Auditorium | Oral     |
| 867  |          | 4:15pm            | The Auditorium | Oral     |
| 88   |          | 4:30pm            | The Auditorium | Oral     |

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## Poster Session C: Spotlight Session-Vaccines

|     |   |                 |             |        |
|-----|---|-----------------|-------------|--------|
| 869 | A | 12:15pm -1:15pm | Third Floor | Poster |
| 870 | B | 12:15pm -1:15pm | Third Floor | Poster |
| 871 | C | 12:15pm -1:15pm | Third Floor | Poster |
| 872 | D | 12:15pm -1:15pm | Third Floor | Poster |
| 873 | E | 12:15pm -1:15pm | Third Floor | Poster |
| 874 | F | 12:15pm -1:15pm | Third Floor | Poster |

## Poster Session C: Spotlight Session-CER

|     |   |                 |             |        |
|-----|---|-----------------|-------------|--------|
| 875 | G | 12:15pm -1:15pm | Third Floor | Poster |
| 876 | H | 12:15pm -1:15pm | Third Floor | Poster |
| 877 | I | 12:15pm -1:15pm | Third Floor | Poster |
| 878 | J | 12:15pm -1:15pm | Third Floor | Poster |
| 880 | L | 12:15pm -1:15pm | Third Floor | Poster |

## Poster Session C: Spotlight Session-Biologics

|     |   |                 |             |        |
|-----|---|-----------------|-------------|--------|
| 881 | M | 12:15pm -1:15pm | Third Floor | Poster |
| 882 | N | 12:15pm -1:15pm | Third Floor | Poster |
| 883 | O | 12:15pm -1:15pm | Third Floor | Poster |
| 888 | P | 12:15pm -1:15pm | Third Floor | Poster |
| 885 | Q | 12:15pm -1:15pm | Third Floor | Poster |
| 886 | R | 12:15pm -1:15pm | Third Floor | Poster |
| 887 | S | 12:15pm -1:15pm | Third Floor | Poster |

## Poster Session C: Biologics

|     |   |                |           |        |
|-----|---|----------------|-----------|--------|
| 889 | 1 | 8:00am -1:45pm | The Forum | Poster |
| 890 | 2 | 8:00am -1:45pm | The Forum | Poster |
| 891 | 3 | 8:00am -1:45pm | The Forum | Poster |
| 892 | 4 | 8:00am -1:45pm | The Forum | Poster |
| 893 | 5 | 8:00am -1:45pm | The Forum | Poster |
| 894 | 6 | 8:00am -1:45pm | The Forum | Poster |
| 895 | 7 | 8:00am -1:45pm | The Forum | Poster |

## Poster Session C: Vaccines

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 896 | 8  | 8:00am -1:45pm | The Forum | Poster |
| 897 | 9  | 8:00am -1:45pm | The Forum | Poster |
| 898 | 10 | 8:00am -1:45pm | The Forum | Poster |
| 899 | 11 | 8:00am -1:45pm | The Forum | Poster |
| 900 | 12 | 8:00am -1:45pm | The Forum | Poster |
| 901 | 13 | 8:00am -1:45pm | The Forum | Poster |
| 902 | 14 | 8:00am -1:45pm | The Forum | Poster |
| 903 | 15 | 8:00am -1:45pm | The Forum | Poster |
| 904 | 16 | 8:00am -1:45pm | The Forum | Poster |

## Poster Session C: Safety & Effectiveness - Cancer

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 905 | 17 | 8:00am -1:45pm | The Forum | Poster |
| 906 | 18 | 8:00am -1:45pm | The Forum | Poster |
| 907 | 19 | 8:00am -1:45pm | The Forum | Poster |
| 908 | 20 | 8:00am -1:45pm | The Forum | Poster |
| 909 | 21 | 8:00am -1:45pm | The Forum | Poster |
| 910 | 22 | 8:00am -1:45pm | The Forum | Poster |

## Poster Session C: Safety & Effectiveness - GU & Hormones

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 911 | 23 | 8:00am -1:45pm | The Forum | Poster |
| 912 | 24 | 8:00am -1:45pm | The Forum | Poster |
| 913 | 25 | 8:00am -1:45pm | The Forum | Poster |
| 914 | 26 | 8:00am -1:45pm | The Forum | Poster |
| 915 | 27 | 8:00am -1:45pm | The Forum | Poster |
| 916 | 28 | 8:00am -1:45pm | The Forum | Poster |
| 917 | 29 | 8:00am -1:45pm | The Forum | Poster |
| 918 | 30 | 8:00am -1:45pm | The Forum | Poster |

| Pub. # | Poster # | Presentation Time | Room                | Format |
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| 919    | 31       | 8:00am -1:45pm    | The Forum           | Poster |
| 920    | 32       | 8:00am -1:45pm    | The Forum           | Poster |
| 921    | 33       | 8:00am -1:45pm    | Withdrawn by Author |        |
| 922    | 34       | 8:00am -1:45pm    | The Forum           | Poster |
| 923    | 35       | 8:00am -1:45pm    | The Forum           | Poster |
| 924    | 36       | 8:00am -1:45pm    | The Forum           | Poster |
| 925    | 37       | 8:00am -1:45pm    | The Forum           | Poster |

## Poster Session C: Safety & Effectiveness - Musculo-Skeletal

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 926 | 38 | 8:00am -1:45pm | The Forum | Poster |
| 927 | 39 | 8:00am -1:45pm | The Forum | Poster |
| 928 | 40 | 8:00am -1:45pm | The Forum | Poster |

## Poster Session C: Safety & Effectiveness - Alimentary Tract and Metabolic

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 929 | 41 | 8:00am -1:45pm | The Forum | Poster |
| 930 | 42 | 8:00am -1:45pm | The Forum | Poster |
| 931 | 43 | 8:00am -1:45pm | The Forum | Poster |
| 932 | 44 | 8:00am -1:45pm | The Forum | Poster |
| 933 | 45 | 8:00am -1:45pm | The Forum | Poster |
| 934 | 46 | 8:00am -1:45pm | The Forum | Poster |
| 935 | 47 | 8:00am -1:45pm | The Forum | Poster |
| 936 | 48 | 8:00am -1:45pm | The Forum | Poster |
| 937 | 49 | 8:00am -1:45pm | The Forum | Poster |
| 938 | 50 | 8:00am -1:45pm | The Forum | Poster |
| 939 | 51 | 8:00am -1:45pm | The Forum | Poster |
| 940 | 52 | 8:00am -1:45pm | The Forum | Poster |
| 941 | 53 | 8:00am -1:45pm | The Forum | Poster |
| 942 | 54 | 8:00am -1:45pm | The Forum | Poster |
| 943 | 55 | 8:00am -1:45pm | The Forum | Poster |
| 944 | 56 | 8:00am -1:45pm | The Forum | Poster |
| 945 | 57 | 8:00am -1:45pm | The Forum | Poster |

## Poster Session C: Safety & Effectiveness - Anti-infectives

|     |    |                |                     |        |
|-----|----|----------------|---------------------|--------|
| 946 | 58 | 8:00am -1:45pm | The Forum           | Poster |
| 947 | 59 | 8:00am -1:45pm | The Forum           | Poster |
| 948 | 60 | 8:00am -1:45pm | The Forum           | Poster |
| 949 | 61 | 8:00am -1:45pm | The Forum           | Poster |
| 950 | 62 | 8:00am -1:45pm | The Forum           | Poster |
| 951 | 63 | 8:00am -1:45pm | The Forum           | Poster |
| 952 | 64 | 8:00am -1:45pm | The Forum           | Poster |
| 953 | 65 | 8:00am -1:45pm | The Forum           | Poster |
| 954 | 66 | 8:00am -1:45pm | The Forum           | Poster |
| 955 | 67 | 8:00am -1:45pm | The Forum           | Poster |
| 956 | 68 | 8:00am -1:45pm | The Forum           | Poster |
| 957 | 69 | 8:00am -1:45pm | The Forum           | Poster |
| 958 | 70 | 8:00am -1:45pm | The Forum           | Poster |
| 959 | 71 | 8:00am -1:45pm | Withdrawn by Author |        |

## Poster Session C: Safety & Effectiveness - Cardiovascular

|     |    |                |           |        |
|-----|----|----------------|-----------|--------|
| 960 | 72 | 8:00am -1:45pm | The Forum | Poster |
| 961 | 73 | 8:00am -1:45pm | The Forum | Poster |
| 962 | 74 | 8:00am -1:45pm | The Forum | Poster |
| 963 | 75 | 8:00am -1:45pm | The Forum | Poster |
| 964 | 76 | 8:00am -1:45pm | The Forum | Poster |
| 965 | 77 | 8:00am -1:45pm | The Forum | Poster |
| 966 | 78 | 8:00am -1:45pm | The Forum | Poster |
| 967 | 79 | 8:00am -1:45pm | The Forum | Poster |
| 968 | 80 | 8:00am -1:45pm | The Forum | Poster |
| 969 | 81 | 8:00am -1:45pm | The Forum | Poster |
| 970 | 82 | 8:00am -1:45pm | The Forum | Poster |
| 971 | 83 | 8:00am -1:45pm | The Forum | Poster |
| 972 | 84 | 8:00am -1:45pm | The Forum | Poster |

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| <b>SUNDAY, AUGUST 28 Cont.</b> |          |                   |           |        |
| 973                            | 85       | 8:00am -1:45pm    | The Forum | Poster |
| 974                            | 86       | 8:00am -1:45pm    | The Forum | Poster |
| 975                            | 87       | 8:00am -1:45pm    | The Forum | Poster |
| 976                            | 88       | 8:00am -1:45pm    | The Forum | Poster |
| 977                            | 89       | 8:00am -1:45pm    | The Forum | Poster |
| 978                            | 90       | 8:00am -1:45pm    | The Forum | Poster |
| 979                            | 91       | 8:00am -1:45pm    | The Forum | Poster |
| 980                            | 92       | 8:00am -1:45pm    | The Forum | Poster |
| 981                            | 93       | 8:00am -1:45pm    | The Forum | Poster |
| 982                            | 94       | 8:00am -1:45pm    | The Forum | Poster |
| 983                            | 95       | 8:00am -1:45pm    | The Forum | Poster |
| 984                            | 96       | 8:00am -1:45pm    | The Forum | Poster |
| 985                            | 97       | 8:00am -1:45pm    | The Forum | Poster |
| 986                            | 98       | 8:00am -1:45pm    | The Forum | Poster |
| 987                            | 99       | 8:00am -1:45pm    | The Forum | Poster |
| 988                            | 100      | 8:00am -1:45pm    | The Forum | Poster |
| 989                            | 101      | 8:00am -1:45pm    | The Forum | Poster |
| 990                            | 102      | 8:00am -1:45pm    | The Forum | Poster |
| 991                            | 103      | 8:00am -1:45pm    | The Forum | Poster |
| 992                            | 104      | 8:00am -1:45pm    | The Forum | Poster |
| 993                            | 105      | 8:00am -1:45pm    | The Forum | Poster |
| 994                            | 106      | 8:00am -1:45pm    | The Forum | Poster |

## Poster Session C: Safety & Effectiveness - Neurological

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 995  | 107 | 8:00am -1:45pm | The Forum | Poster |
| 996  | 108 | 8:00am -1:45pm | The Forum | Poster |
| 997  | 109 | 8:00am -1:45pm | The Forum | Poster |
| 998  | 110 | 8:00am -1:45pm | The Forum | Poster |
| 999  | 111 | 8:00am -1:45pm | The Forum | Poster |
| 1000 | 112 | 8:00am -1:45pm | The Forum | Poster |
| 1001 | 113 | 8:00am -1:45pm | The Forum | Poster |
| 1002 | 114 | 8:00am -1:45pm | The Forum | Poster |
| 1003 | 115 | 8:00am -1:45pm | The Forum | Poster |
| 1004 | 116 | 8:00am -1:45pm | The Forum | Poster |
| 1005 | 117 | 8:00am -1:45pm | The Forum | Poster |
| 1006 | 118 | 8:00am -1:45pm | The Forum | Poster |
| 1007 | 119 | 8:00am -1:45pm | The Forum | Poster |
| 1008 | 120 | 8:00am -1:45pm | The Forum | Poster |
| 1009 | 121 | 8:00am -1:45pm | The Forum | Poster |
| 1010 | 122 | 8:00am -1:45pm | The Forum | Poster |
| 1011 | 123 | 8:00am -1:45pm | The Forum | Poster |
| 1012 | 124 | 8:00am -1:45pm | The Forum | Poster |
| 1013 | 125 | 8:00am -1:45pm | The Forum | Poster |
| 1014 | 126 | 8:00am -1:45pm | The Forum | Poster |
| 1015 | 127 | 8:00am -1:45pm | The Forum | Poster |
| 1016 | 128 | 8:00am -1:45pm | The Forum | Poster |
| 1017 | 129 | 8:00am -1:45pm | The Forum | Poster |
| 1018 | 130 | 8:00am -1:45pm | The Forum | Poster |
| 1019 | 131 | 8:00am -1:45pm | The Forum | Poster |

## Poster Session C: Safety & Effectiveness - Respiratory

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1020 | 132 | 8:00am -1:45pm | The Forum | Poster |
| 1021 | 133 | 8:00am -1:45pm | The Forum | Poster |
| 1022 | 134 | 8:00am -1:45pm | The Forum | Poster |
| 1023 | 135 | 8:00am -1:45pm | The Forum | Poster |
| 1024 | 136 | 8:00am -1:45pm | The Forum | Poster |
| 1025 | 137 | 8:00am -1:45pm | The Forum | Poster |
| 1026 | 138 | 8:00am -1:45pm | The Forum | Poster |
| 1027 | 139 | 8:00am -1:45pm | The Forum | Poster |

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|---|----------|-------------------|-----------|--------|
| <b>Poster Session C: Other Safety &amp; Effectiveness</b> |          |                   |           |        |
| 1028  | 140      | 8:00am -1:45pm    | The Forum | Poster |
| 1030  | 141      | 8:00am -1:45pm    | The Forum | Poster |
| 1031  | 142      | 8:00am -1:45pm    | The Forum | Poster |
| 1032  | 143      | 8:00am -1:45pm    | The Forum | Poster |
| 1033  | 144      | 8:00am -1:45pm    | The Forum | Poster |
| 1034  | 145      | 8:00am -1:45pm    | The Forum | Poster |
| 1035  | 146      | 8:00am -1:45pm    | The Forum | Poster |
| 1036  | 147      | 8:00am -1:45pm    | The Forum | Poster |
| 1037  | 148      | 8:00am -1:45pm    | The Forum | Poster |
| 1038  | 149      | 8:00am -1:45pm    | The Forum | Poster |
| 1039  | 150      | 8:00am -1:45pm    | The Forum | Poster |
| 1040  | 151      | 8:00am -1:45pm    | The Forum | Poster |
| 1041  | 152      | 8:00am -1:45pm    | The Forum | Poster |
| 1042  | 153      | 8:00am -1:45pm    | The Forum | Poster |

## Poster Session C: Informatics

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1043 | 154 | 8:00am -1:45pm | The Forum | Poster |
| 1044 | 155 | 8:00am -1:45pm | The Forum | Poster |
| 1045 | 156 | 8:00am -1:45pm | The Forum | Poster |
| 1046 | 157 | 8:00am -1:45pm | The Forum | Poster |
| 1047 | 158 | 8:00am -1:45pm | The Forum | Poster |
| 1048 | 159 | 8:00am -1:45pm | The Forum | Poster |
| 1049 | 160 | 8:00am -1:45pm | The Forum | Poster |
| 1050 | 161 | 8:00am -1:45pm | The Forum | Poster |
| 1051 | 162 | 8:00am -1:45pm | The Forum | Poster |
| 1052 | 163 | 8:00am -1:45pm | The Forum | Poster |
| 1053 | 164 | 8:00am -1:45pm | The Forum | Poster |
| 1054 | 165 | 8:00am -1:45pm | The Forum | Poster |
| 1055 | 166 | 8:00am -1:45pm | The Forum | Poster |

## Poster Session C: HEOR

|      |     |                |                     |        |
|------|-----|----------------|---------------------|--------|
| 1056 | 167 | 8:00am -1:45pm | The Forum           | Poster |
| 1057 | 168 | 8:00am -1:45pm | The Forum           | Poster |
| 1058 | 169 | 8:00am -1:45pm | The Forum           | Poster |
| 1059 | 170 | 8:00am -1:45pm | The Forum           | Poster |
| 1060 | 171 | 8:00am -1:45pm | The Forum           | Poster |
| 1061 | 172 | 8:00am -1:45pm | The Forum           | Poster |
| 1062 | 173 | 8:00am -1:45pm | The Forum           | Poster |
| 1063 | 174 | 8:00am -1:45pm | The Forum           | Poster |
| 1064 | 175 | 8:00am -1:45pm | The Forum           | Poster |
| 1065 | 176 | 8:00am -1:45pm | The Forum           | Poster |
| 1066 | 177 | 8:00am -1:45pm | The Forum           | Poster |
| 1067 | 178 | 8:00am -1:45pm | The Forum           | Poster |
| 1068 | 179 | 8:00am -1:45pm | The Forum           | Poster |
| 1069 | 180 | 8:00am -1:45pm | The Forum           | Poster |
| 1070 | 181 | 8:00am -1:45pm | The Forum           | Poster |
| 1071 | 182 | 8:00am -1:45pm | The Forum           | Poster |
| 1072 | 183 | 8:00am -1:45pm | The Forum           | Poster |
| 1073 | 184 | 8:00am -1:45pm | The Forum           | Poster |
| 1074 | 185 | 8:00am -1:45pm | The Forum           | Poster |
| 1075 | 186 | 8:00am -1:45pm | The Forum           | Poster |
| 1076 | 187 | 8:00am -1:45pm | The Forum           | Poster |
| 1077 | 188 | 8:00am -1:45pm | Withdrawn by Author |        |
| 1078 | 189 | 8:00am -1:45pm | The Forum           | Poster |

## Poster Session C: DUR - Trends

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1079 | 190 | 8:00am -1:45pm | The Forum | Poster |
| 1080 | 191 | 8:00am -1:45pm | The Forum | Poster |
| 1081 | 192 | 8:00am -1:45pm | The Forum | Poster |
| 1082 | 193 | 8:00am -1:45pm | The Forum | Poster |
| 1083 | 194 | 8:00am -1:45pm | The Forum | Poster |
| 1084 | 195 | 8:00am -1:45pm | The Forum | Poster |

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|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1085 | 196 | 8:00am -1:45pm | The Forum | Poster |
| 1086 | 197 | 8:00am -1:45pm | The Forum | Poster |
| 1087 | 198 | 8:00am -1:45pm | The Forum | Poster |

### Poster Session C: DUR - Trends in Alimentary and Metabolic

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1088 | 199 | 8:00am -1:45pm | The Forum | Poster |
| 1089 | 200 | 8:00am -1:45pm | The Forum | Poster |
| 1090 | 201 | 8:00am -1:45pm | The Forum | Poster |
| 1091 | 202 | 8:00am -1:45pm | The Forum | Poster |
| 1092 | 203 | 8:00am -1:45pm | The Forum | Poster |
| 1093 | 204 | 8:00am -1:45pm | The Forum | Poster |
| 1094 | 205 | 8:00am -1:45pm | The Forum | Poster |
| 1095 | 206 | 8:00am -1:45pm | The Forum | Poster |
| 1097 | 207 | 8:00am -1:45pm | The Forum | Poster |
| 1098 | 208 | 8:00am -1:45pm | The Forum | Poster |
| 1099 | 209 | 8:00am -1:45pm | The Forum | Poster |

### Poster Session C: DUR - Trends in Anti-infectives

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1100 | 210 | 8:00am -1:45pm | The Forum | Poster |
| 1101 | 211 | 8:00am -1:45pm | The Forum | Poster |
| 1102 | 212 | 8:00am -1:45pm | The Forum | Poster |
| 1103 | 213 | 8:00am -1:45pm | The Forum | Poster |
| 1104 | 214 | 8:00am -1:45pm | The Forum | Poster |
| 1105 | 215 | 8:00am -1:45pm | The Forum | Poster |
| 1106 | 216 | 8:00am -1:45pm | The Forum | Poster |
| 1107 | 217 | 8:00am -1:45pm | The Forum | Poster |
| 1108 | 218 | 8:00am -1:45pm | The Forum | Poster |
| 1109 | 219 | 8:00am -1:45pm | The Forum | Poster |
| 1110 | 220 | 8:00am -1:45pm | The Forum | Poster |

### Poster Session C: DUR - Trends in Cancer

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1111 | 221 | 8:00am -1:45pm | The Forum | Poster |
| 1112 | 222 | 8:00am -1:45pm | The Forum | Poster |
| 1113 | 223 | 8:00am -1:45pm | The Forum | Poster |
| 1114 | 224 | 8:00am -1:45pm | The Forum | Poster |
| 1115 | 225 | 8:00am -1:45pm | The Forum | Poster |
| 1116 | 226 | 8:00am -1:45pm | The Forum | Poster |
| 1117 | 227 | 8:00am -1:45pm | The Forum | Poster |
| 1118 | 228 | 8:00am -1:45pm | The Forum | Poster |

### Poster Session C: DUR - Trends in Cardiovascular

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1119 | 229 | 8:00am -1:45pm | The Forum | Poster |
| 1120 | 230 | 8:00am -1:45pm | The Forum | Poster |
| 1121 | 231 | 8:00am -1:45pm | The Forum | Poster |
| 1122 | 232 | 8:00am -1:45pm | The Forum | Poster |
| 1123 | 233 | 8:00am -1:45pm | The Forum | Poster |
| 1124 | 234 | 8:00am -1:45pm | The Forum | Poster |

### Poster Session C: DUR - Trends in GU and Hormones

|      |     |                |                     |        |
|------|-----|----------------|---------------------|--------|
| 1125 | 235 | 8:00am -1:45pm | The Forum           | Poster |
| 1126 | 236 | 8:00am -1:45pm | The Forum           | Poster |
| 1127 | 237 | 8:00am -1:45pm | The Forum           | Poster |
| 1128 | 238 | 8:00am -1:45pm | Withdrawn by Author |        |
| 1129 | 239 | 8:00am -1:45pm | The Forum           | Poster |
| 1130 | 240 | 8:00am -1:45pm | The Forum           | Poster |

### Poster Session C: DUR - Trends in Musculo-Skeletal

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1131 | 241 | 8:00am -1:45pm | The Forum | Poster |
| 1132 | 242 | 8:00am -1:45pm | The Forum | Poster |
| 1133 | 243 | 8:00am -1:45pm | The Forum | Poster |
| 1134 | 244 | 8:00am -1:45pm | The Forum | Poster |
| 1135 | 245 | 8:00am -1:45pm | The Forum | Poster |

| Pub. # | Poster # | Presentation Time | Room      | Format |
|--------|----------|-------------------|-----------|--------|
| 1136   | 246      | 8:00am -1:45pm    | The Forum | Poster |

### Poster Session C: DUR - Trends in Neurological

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1137 | 247 | 8:00am -1:45pm | The Forum | Poster |
| 1138 | 248 | 8:00am -1:45pm | The Forum | Poster |
| 1139 | 249 | 8:00am -1:45pm | The Forum | Poster |
| 1140 | 250 | 8:00am -1:45pm | The Forum | Poster |
| 1141 | 251 | 8:00am -1:45pm | The Forum | Poster |
| 1142 | 252 | 8:00am -1:45pm | The Forum | Poster |
| 1143 | 253 | 8:00am -1:45pm | The Forum | Poster |
| 1144 | 254 | 8:00am -1:45pm | The Forum | Poster |
| 1145 | 255 | 8:00am -1:45pm | The Forum | Poster |
| 1146 | 256 | 8:00am -1:45pm | The Forum | Poster |
| 1147 | 257 | 8:00am -1:45pm | The Forum | Poster |
| 1148 | 258 | 8:00am -1:45pm | The Forum | Poster |
| 1149 | 259 | 8:00am -1:45pm | The Forum | Poster |
| 1150 | 260 | 8:00am -1:45pm | The Forum | Poster |
| 1151 | 261 | 8:00am -1:45pm | The Forum | Poster |
| 1152 | 262 | 8:00am -1:45pm | The Forum | Poster |
| 1153 | 263 | 8:00am -1:45pm | The Forum | Poster |
| 1154 | 264 | 8:00am -1:45pm | The Forum | Poster |
| 1155 | 265 | 8:00am -1:45pm | The Forum | Poster |
| 1156 | 266 | 8:00am -1:45pm | The Forum | Poster |
| 1157 | 267 | 8:00am -1:45pm | The Forum | Poster |
| 1158 | 268 | 8:00am -1:45pm | The Forum | Poster |
| 1159 | 269 | 8:00am -1:45pm | The Forum | Poster |
| 1160 | 270 | 8:00am -1:45pm | The Forum | Poster |

### Poster Session C: DUR - Trends in Respiratory

|      |     |                |           |        |
|------|-----|----------------|-----------|--------|
| 1161 | 271 | 8:00am -1:45pm | The Forum | Poster |
| 1162 | 272 | 8:00am -1:45pm | The Forum | Poster |
| 1163 | 273 | 8:00am -1:45pm | The Forum | Poster |
| 1164 | 274 | 8:00am -1:45pm | The Forum | Poster |
| 1165 | 275 | 8:00am -1:45pm | The Forum | Poster |
| 1166 | 276 | 8:00am -1:45pm | The Forum | Poster |
| 1167 | 277 | 8:00am -1:45pm | The Forum | Poster |
| 1168 | 278 | 8:00am -1:45pm | The Forum | Poster |
| 1169 | 279 | 8:00am -1:45pm | The Forum | Poster |
| 1170 | 280 | 8:00am -1:45pm | The Forum | Poster |
| 1171 | 281 | 8:00am -1:45pm | The Forum | Poster |
| 860  | 282 | 8:00am -1:45pm | The Forum | Poster |
| 879  | 283 | 8:00am -1:45pm | The Forum | Poster |







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& Therapeutic Risk Management

AUGUST 23-27, 2017 ..... HALIFAX CONVENTION CENTRE

*Halifax*

*Nova Scotia*

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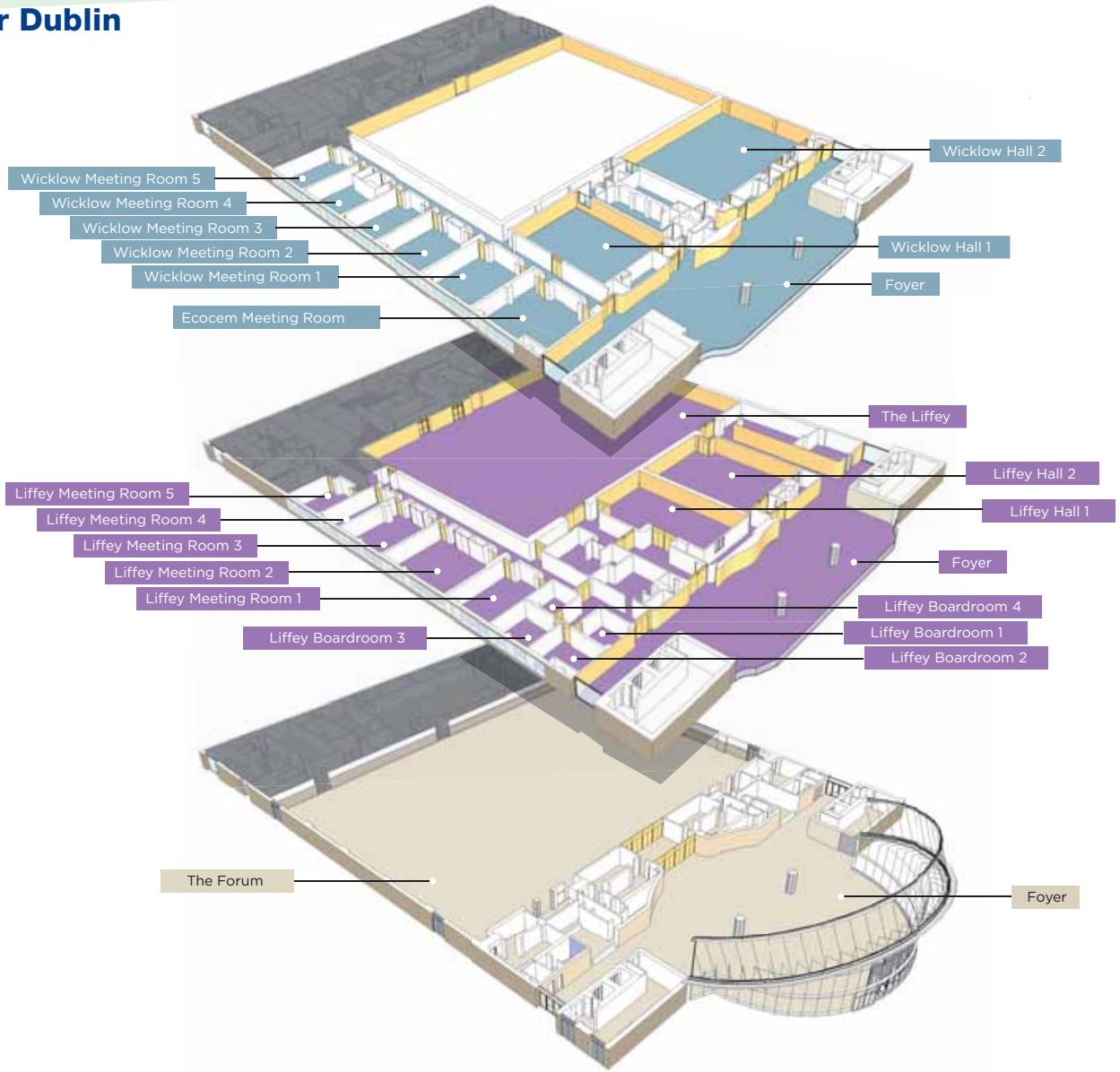
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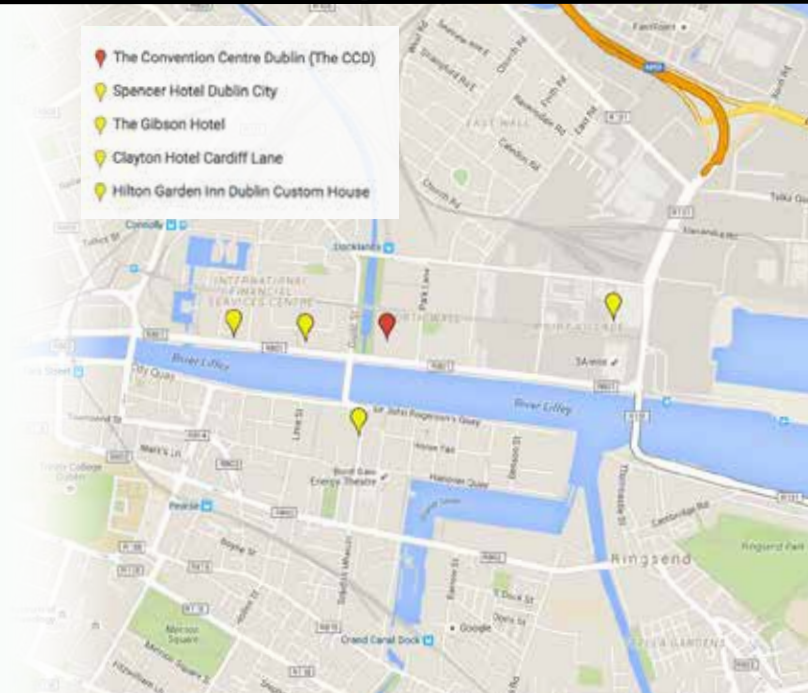


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 Pharmacoepidemiology & Therapeutic Risk Management  
 The Convention Center Dublin

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