# OMOP-IMEDS 2013 SYMPOSIUM - POSTERS

**TRACK 1: APPLICATIONS**      **TRACK 2: DATA ANALYSIS & PERFORMANCE**      **TRACK 3: ETL**      **TRACK 4: METHODS DEVELOPMENT**

| | TRACK 1  APPLICATIONS | |
|---|---|---|

| # | POSTER TITLE | AUTHORS / AFFILIATIONS (**BOLD** IS PRESENTING AUTHOR) |
|---|---|---|
| 01 | Controlling Cost and Execution Time Using MapReduce for OMOP CDM Transformation | Slava Kolisnychenko, Alex Shkop, Don Torok, **Mark Khayter**<br><br>Ephir, Inc. |
| 02 | New Interfaces to Established Methods for Exploration and Analysis of Longitudinal Healthcare Data | **Rave Harpaz**, Mohammad Al-Ansari, William DuMouchel, Michael Johnston, Leslie Hepburn, Diane Waterman<br><br>Oracle Health Sciences Global Business Unit |
| 03 | OpenFurther: Federating and Generating OMOP Datasets | **Ramkiran Gouripeddi** [1,2], N. Dustin Schultz[1], Ryan Butcher[1], Peter Mo[1], Richard L. Bradshaw[1], Randy Madsen[1], Phillip B. Warner[1], Bernard A. LaSalle[1,2], Julio C. Facelli[1,2]<br><br>[1]Biomedical Informatics Core, Center for Clinical and Translational Science<br>[2]Department of Biomedical Informatics, University of Utah, Salt Lake City, UT |
| 04 | Applications of the OMOP Common Data Model for Clinical Trial Feasibility Assessment | **Chris Knoll**, Frank DeFalco, and Patrick B. Ryan<br><br>Janssen Research & Development, LLC, Titusville, NJ |
| 05 | A System and User Interface for Standardized Preparation of Analytic Data Sets | **Daniella Meeker**[1], Christopher Skeels[1], Laura Pearlman[2], Karl Czajkowski[2], Lucila Ohno-Machado[3]<br><br>[1]RAND Corporation<br>[2]University of Southern California Information Sciences Institute<br>[3]University of California, San Diego |

TRACK 1: APPLICATIONS    TRACK 2: DATA ANALYSIS & PERFORMANCE    TRACK 3: ETL    TRACK 4: METHODS DEVELOPMENT

| TRACK 2  DATA ANALYSIS & PERFORMANCE | | |

| # | POSTER TITLE | AUTHORS / AFFILIATIONS (**BOLD** IS PRESENTING AUTHOR) |
|---|---|---|
| 06 | Architectural Comparison of Three Healthcare Integrated Data Repositories: Quest for Data Representation Best Practices | **Vojtech Huser,** James J. Cimino<br><br>Laboratory for Informatics Development, NIH Clinical Center, Bethesda, MD |
| 07 | Harmonization of the OMOP Common Data Model with the BRIDG Model | **Mitra Rocca**[1], Wayne Kubick[2], Rebecca Kush[2], Patrick Ryan[3]<br><br>[1]Food and Drug Administration, Center for Drug Evaluation and Research<br>[2]Clinical Data Interchange Standards Consortium<br>[3]Janssen Research & Development, LLC, Titusville, NJ |
| 08 | Using an Online Database Resource to Characterize Healthcare Data Linkage Capabilities | Anokhi J. Kapasi, Sharmila A. Kamani, **Judith K. Jones**<br><br>The Degge Group, Ltd., Arlington, VA |
| 09 | Creating Modified OMOP Drug Eras and Persistence Windows for Biologic Medications Using Both Pharmacy and Medical Claims | **Kathy Hardis Fraeman**[1], Dena Ramey[2], Vinay Mehta[2], Stephan Lanes[3]<br><br>[1]Epidemiology and Database Analytics, Evidera, Bethesda, MD<br>[2]Epidemiology, Merck Research Laboratories, North Wales, PA<br>[3]Safety and Epidemiology, HealthCore, Inc., Andover, MA |
| 10 | Effects of Method Parameters and Ground Truth in the OMOP Results Database | **Alan F. Karr**<br><br>National Institute of Statistical Sciences |
| 11 | Statistical Method Development for Observational Comparative Effectiveness Research | **Alan F. Karr**[1], Bob Obenchain[1,2], Stan Young[1]<br><br>[1]National Institute of Statistical Sciences<br>[2]Risk Benefit Statistics LLC |
| 12 | Evaluation of Analytical Method Performance Using Self-Controlled Case Series | **Jasmanda Wu**, Ling Zhang, Patrick Caubel, Juhaeri Juhaeri<br><br>Sanofi |
| 13 | Investigating the Impact of OSIM2 Data Generation on Estimator Performance | **Susan Gruber**<br><br>Research Fellow, Department of Epidemiology, Harvard School of Public Health |

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| 14 | Application of Multivariate Self Controlled Case Series Method for Active Drug Safety Surveillance in a Signal Screening Framework: Leveraging THIN Data in the OMOP CDM | **Xiaofeng Zhou**, Rongjun Shen, Sundaresan Murugesan, Andrew Bate<br><br>Epidemiology, Pfizer Inc., New York City, NY |
| 15 | Applying OMOP Tools and Methods to Nursing Home Data | **Richard D. Boyce**, Jeremy Jao, Steven M. Handler<br><br>School of Medicine, University of Pittsburgh |

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| TRACK 3  ETL | |
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| # | POSTER TITLE | AUTHORS / AFFILIATIONS (**BOLD** IS PRESENTING AUTHOR) |
| --- | --- | --- |
| 16 | Operationalizing Asthma Analytic Plan using OMOP CDM | **Patrick Hosokawa[1];** Elias Brandt[2]; Bethany Kwan[3]; Michael Kahn4; Marion Sills[4]; Barbara Yawn[5]; Monica Federico[4]; Lisa Schilling[3]<br><br>[1]University of Colorado – Denver<br>[2] American Academy of Family Physicians<br>[3]University of Colorado School of Medicine<br>[4]Children's Hospital Colorado<br>[5]Olmsted Medical Center |
| 17 | An Examination of OMOP CDM Vocabulary for Completeness With Respect to Drugs, Conditions and Procedures | **Hugh Kawabata**, Xiao Shao, Christopher Davidson, Perfecto Gayan, Teresa Simon<br><br><br>Bristol-Myers Squibb Co. |
| 18 | Standardization of Inpatient Visits into the ETL of OMOP Common Data Model | **Erica Voss**, Qianli Ma, Patrick B. Ryan<br><br><br>Janssen Research & Development, LLC, Titusville, NJ |
| 19 | OMOP CDM Conversion in AsPEN for SCAN Project | **Yinghong Zhang**, Edward Chia-Cheng Lai, Chantelle Hardy, Li Lin, Soko Setoguchi<br><br><br>Duke Clinical Research Institute |
| 20 | Implementing Premier Alliance Hospital Data into the OMOP CDM | **Richard E Murray[1]**, Yinkang Duan[1], Heesoo Kim[2], Don O'Hara[1], Kelly Castanos[1]<br><br>[1]United BioSource Corporation, Harrisburg, PA, United States<br>[2]Bristol-Myers Squibb, Hopewell, NJ, United States |
| 21 | Conversion of the Premier Database to the OMOP CDM | **Rupa Makadia**, Patrick B. Ryan<br><br><br>Janssen Research & Development, LLC, Titusville, NJ |
| 22 | Mapping Medicaid and Medicare claims to the OMOP Common Data Model:  Lessons Learned from Three Data Sources | **Traci Yamashita[1],** Patricia St. Clair[2], Lisa Schilling[1]<br><br>[1]University of Colorado School of Medicine<br>[2]USC Schaeffer Center for Health Economics and Policy |

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| 23 | Transformation of the Clinical Practice Research Datalink (CPRD) to the OMOP CDM Version 4 | **Amy Matcho,** Patrick B. Ryan<br><br>Janssen Research & Development, LLC, Titusville, NJ |
| 24 | Detecting Novel Adverse Drug Reactions (ADRs) by Quantitatively Mapping Relationships Between Medical Conditions and Drug Exposures During Patient's Visits | David Blatt, **Nicholas Tatonetti**<br><br>Columbia University, Department of Biomedical Informatics<br>Columbia University Medical Center |

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| | TRACK 4 METHODS DEVELOPMENT | |
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| # | POSTER TITLE | AUTHORS / AFFILIATIONS (**BOLD** IS PRESENTING AUTHOR) |
|---|---|---|
| 25 | An Interpretable Stroke Prediction Model Using Rules and Bayesian Analysis | Ben Letham[1], Cynthia Rudin[1], **Tyler H. McCormick[2]**, David Madigan[3]<br><br>[1]Massachusetts Institute of Technology<br>[2]University of Washington<br>[3]Columbia University |
| 26 | Graphically Examining Potential Heterogeneous Treatment Effects in Binary Outcomes or Endpoints | **Paul Juneau**, Elnara Eynullayeva, Daniel Huse<br><br><br>Truven Health Analytics |
| 27 | Identification and confirmation of IPF cases in an electronic insurance claims database | **Daina Esposito[1]**, Stephan Lanes[1], Gaurav Deshpande[1], Crystal Holick[1], Daniel Mines[1], Sean O'Quinn[2], Trung Tran[2]<br><br>[1] HealthCore, Inc.<br>[2] MedImmune, LLC |
| 28 | Use of a Multistate Markov Modeling Approach for Investigating Time-Varying Factors Associated with Lipid Lowering Medications for Primary Prevention of Cardiovascular Disease | **Suzanne L. West, PhD[1]**, Barry S. Eggleston, MS[1], Marianne Kluckman, MPH[1], Amanda Hansen[2], Ken LaBresh, MD[1], Vincent Bufalino, MD[2], Michael F. O'Toole, MD[2]<br><br>[1] RTI International, Research Triangle Park, NC<br>[2] Midwest Heart Specialists, Advocate Medical Group, Oak Brook, IL |
| 29 | Sensitivity Analysis of Methods for Active Surveillance of Acute Myocardial Infarction Using Electronic Databases | Xiaochun Li[1], Cynthia J. Girman[3], **Susan Ofner[1]**, Changyu Shen[1], Kimberly G. Brodovicz[3], Linas Simonaitis[2], Nancy Santanello[3]<br><br>[1]Department of Biostatistics, Indiana University School of Medicine<br>Indiana University Richard M. Fairbanks, School of Public Health; Indianapolis, IN<br>[2]Regenstrief Institute, Indianapolis, IN<br>[3]Department of Epidemiology, Merck Sharp & Dohme, North Wales, PA |
| 30 | Calibrating the strength of association of drug-outcome pairs using the empirical null derived from known non-associations and known positive associations identified in the OMOP | **Xiaochun Li[1]**, Susan Ofner[1], Changyu Shen[1], Jia Zhan[1], Zhiwen Liu[3], Marc Rosenman[2], Nancy Santanello[3]<br><br>[1]Department of Biostatistics, Indiana University School of Medicine<br>Indiana University Richard M. Fairbanks, School of Public Health, Indianapolis, IN<br>[2]Regenstrief Institute, Indianapolis, IN<br>[3]Department of Epidemiology, Merck Sharp & Dohme, North Wales, PA |

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| 31 | Extending Bayesian inference in pharmacovigilance beyond point estimates with massive parallelization | **Trevor Shaddox**, Marc Suchard<br><br>Department of Biomathematics, David Geffen School of Medicine at UCLA, University of California, Los Angeles |
| 32 | The Impact of Censoring Drug Switching in Medication Adherence Measures of Chronic Non-combinational Oral Drugs | **Vivienne J. Zhu**[1], J. Marc Overhage[2], Qianli Ma[1], Patrick B. Ryan[1]<br><br>[1]Janssen Research & Development, LLC, Titusville, NJ<br>[2]Siemens Healthcare, Malvern, PA |
| 33 | Mining Adverse Drug Reactions from Electronic Health Records | **Henry Lo**<br><br><br>University of Massachusetts Boston, Computer Science Department |
| 34 | Seasonality in Acute Liver Injury in Healthcare Claims Data | **Rachel Weinstein**, Martijn Schuemie<br><br><br>Janssen Research & Development, LLC, Titusville, NJ |
| 35 | Predicting Strokes Using Relational Random Forests | **Zach Shahn**<br><br><br>Columbia University, New York, NY |