



2017 Poster Session

Methods research - Observational data management

1	Process for Expediting ETL to the OMOP Common Data Model	Richard Starr, Myung Choi PhD, Michael Riley, Jon Duke MD
2	A JSON-Based Implementation of the OMOP Common Data Model Can Enable Scalable Low-Cost Analytics on Larger Datasets	Mohammad Azimi PhD, Steve Lyman BS, Stephanie Reisinger BS
3	Assessment of the conversion of ten European Databases to the OMOP CDM mapping and evaluation of the use of OHDSI tools in that process	Michel van Speybroeck, Johan van der Lei PhD, Lars Halvorsen, Myriam Alexander PhD, Glen James PhD, Lara Tramontan PhD, Leonardo Méndez-Boo MD, MPH, Rients van Wijngaarden MSc, Rosa Gini PhD, Miguel A. Mayer PhD, Lars Pedersen PhD, Alessandro Pasqua MSc, Sulev Reisberg MSc, Johan van der Lei PhD, Peter R. Rijnbeek PhD
4	Conversion of a Dutch general practitioner's database to the OMOP-CDM: The IPCI Database	Peter R. Rijnbeek PhD, Erica A. Voss MPH, Marcel de Wilde, Martijn Schuemie PhD, Johan van der Lei PhD
5	Creating a Framework for Evaluating Open Healthcare Claims Using the OMOP Common Data Model	Clair Blacketer MPH, Erica A Voss MPH
6	How effective is OMOP CDM Conversion for Claims Data?	Lovkesh Singla, Ajinkya Patale
7	Assessing Mapping Performance from HL7 Continuity of Care Documents to the OMOP CDM	Hamed Abedtash PharmD, PhD, Jon Duke MD
8	Mapping Common Data Model data tables to an HDF5 file for reproducible machine learning workflows	Janos G. Hajagos Ph.D
9	Variability of Drug Attributes in the US Market (RxNorm) compared to selection of Worldwide Market (RxNorm Extension)	Dmitry Dymshyts MD, Anna Ostropelets MD, Christian Reich MD, PhD
10	Annotating Dutch free-text patient records with OHDSI standard vocabulary concepts	Erik M. van Mulligen PhD, Peter R. Rijnbeek PhD, Jan A. Kors PhD
11	Facilitating analysis of measurements data through stricter model conventions: Exploring units variability across sites	Vojtech Huser MD, PhD
12	Machine Learning to Classify Laboratory Tests in a National Electronic Health Record System Database	Sharidan K. Parr MD, MSCI, Thomas A. Lasko MD, PhD, Matthew S. Shotwell PhD, Scott L. DuVall PhD, Michael E. Matheny MD, MS, MPH
13	OMOP CDM for Natural Language Processing: Piloting a VA NLP Data Set	Fern FitzHenry, Olga V. Patterson, Jason Denton, Jesse Brannen, Ruth M. Reeves, Scott L. DuVall, Michael E. Matheny
14	CDM extension for loading and utilization of clinical genomic data	Yu Rang Park, Deokhoon Kim, Kyu-pyo Kim
15	Quality Assurance of Demographics Consistency between Veterans Affairs and Medicare Data	Aize Cao PhD, Margaret Gonsoulin PhD, Kristin de Groot MPH, Elizabeth Hanchrow RN, MSN, Daniel Park BS, Kristine Lynch PhD, Denise Hynes PhD, MPH, RN, Scott L. DuVall PhD, Michael E. Matheny MD, MPH, Stephen A. Deppen PhD
16	Classification of temporal trends in healthcare research databases in support of data quality and hypothesis generation	Yohan A. Sumathipala, Vojtech Huser MD, PhD
17	OMOP on FHIR for Data Analytic Application Platform	Myung Choi PhD, Richard Starr, Michael Riley, and Jon Duke MD
18	Terminology Information Loss and Gain	Matthew E. Levine BA, George M. Hripcsak MD, MS

Methods research - Clinical characterization

19	The Impact of Data Quality Annotations on Observational Data Research	Ajit A. Londhe MPH, Vojtech Huser MD, PhD, Erica A. Voss MPH
20	Comparability Assessment of Cohorts with and without Laboratory Values	Rupa Makadia MS, Jill Hardin MS, PhD, Laura Hester PhD, Chris Knoll MS, Ajit Londhe MPH, Joel Swerdel MPH
21	Generalizability of randomized trial follow-up time to real-world practice	Chi Yuan, Patrick B. Ryan PhD, Chunhua Weng PhD
22	Obtaining estimates of outcome validity from a small set of parameters: the component strategy from the ADVANCE project	Rosa Gini PhD, Caitlin Dodd MSc, Kaatje Bollaerts PhD, Miriam Sturkenboom PhD

Methods research - Population-level effect estimation

23	Synthetic and Negative Control Evaluation Framework for Large-Scale Propensity Score Survival Analysis	Yuxi Tian PhD, Martijn J. Schuemie PhD, Marc A. Suchard PhD
24	A regression analysis method for distributed large-scale data analysis	Sungjae Jung MS, Rae Woong Park MD PhD
25	A benchmark for population-level estimation methods	Martijn J. Schuemie PhD, M. Soledad Cepeda, Marc A. Suchard PhD, Yuxi Tian PhD, Alejandro Schuler, Patrick B. Ryan PhD, George M. Hripcsak MD, MS
26	Empirical evaluation of the OHDSI Methods Library	Martijn J. Schuemie PhD, M. Soledad Cepeda, Marc A. Suchard PhD, Yuxi Tian PhD, Alejandro Schuler, Patrick B. Ryan PhD, George M. Hripcsak MD, MS

Methods research - Patient-level prediction

27	Hybrid deep learning for predicting hypertensive disorder onset using temporal and non-temporal data	Xiaoyong Pan PhD, Peter R. Rijnbeek, PhD
28	Building Deep Learning Models with the OMOP CDM	Kristin Feeney MPH, Dennis Robert MBBS/MD, MSST, Perna Pati, MHIM, Sergey Charkin MS, Dan Housman BSc, Yuval Koren MSc, Jinlei Liu MS
29	Do we really need 'Big Data' for patient-level predictive modelling?	Peter R. Rijnbeek PhD, Xiaoyong Pan PhD, Jenna M. Reps PhD
30	Development of Clinically Informing application based on Recurrent Neural Network (CIReNN)	Seng Chan You MD, Sanghyung Jin, Peter R. Rijnbeek PhD, Rae Woong Park MD, PhD

Open-source development - Observational data management

31	Development of Mobile Health Application for Precision Diabetes Research Cohort Data Collection and Standardization Using OMOP CDM	Jay G. Ronquillo, MD, MPH, MMSc, MEng
32	Demonstrate Reusability and Effectiveness of Using an Intermediate Layer for OMOP CDM Conversion	Harshal Soni, Ajinkya Patale
33	Google BigQuery and OHDSI Ecosystem	Melanie Philofsky RN, BSN, MS, Matthew Young-Lai PhD, Paul Church MS, Iliia Tulchinsky, Ming Jack Po MD, PhD, Michael G. Kahn MD, PhD
34	QueryGarden: growing healthy applications in well prepared SQL.	James P. Fairbanks, PhD

Open-source development - Clinical characterization

35	Dataprint: A Novel Visualization Tool for Database Comparison	Frank DeFalco
36	GEMINI (GGeneral exaMINing and visualizing application for paired Institution): Automated data characteristic visualization tool for comparison of health information between institutions	Doyeop Kim BE, Seng Chan You MD, MS, Jaehyeong Cho BS, Rae Woong Park MD, PhD

Open-source development - Patient-level prediction

37	Implementing Real-Time Patient Level Predictions Using PLP Models	C. Scott Brown, Jon Duke MD, James P. Fairbanks PhD, Christine Herlihy, Kausar Mukadam, Jason A. Poovey, Melissa D. Rost,
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Open-source development - Observational data management

38 Biomedical Search Engine	José A. Alvarado-Guzmán MS, Mohammad Zaryab MS
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Clinical applications - Patient-level prediction

39 Does it matter if I stay or go? Predicting patient-level attrition to evaluate study generalizability	Urmila Chandran PhD, Jenna M. Reps PhD, Patrick B. Ryan PhD, Paul E. Stang PhD
40 Predictive Modeling of Incident Heart Failure in Subjects with Newly Diagnosed Atrial Fibrillation	Joel N. Swerdel MS, MPH, Jenna M. Reps PhD, Patrick B. Ryan PhD

Clinical applications - Clinical characterization

41 Visit level suicidality/self-harm phenotyping in bipolar disorder	Praveen Kumar, Anastasiya Nestsiarovich MD, PhD, Aurélien J. Mazurie PhD, Nathaniel G. Hurwitz MD, Christophe G. Lambert PhD
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Clinical applications - Patient-level prediction

42 Predicting Who Will Develop Treatment Resistant Depression after Being Newly Diagnosed With Depression	M. Soledad Cepeda MD, PhD, Jenna M. Reps PhD, Patrick B. Ryan PhD
43 Development and validation of a model to predict cessation of antihyperglycemic medication after laparoscopic bariatric surgery among patients with type 2 diabetes	Jenna M. Reps PhD, Carine Hsiao MS, Stephen S. Johnston MA

Clinical applications - Population-level effect estimation

44 Comparison of 30 bipolar disorder monotherapies for risk of psychiatric hospitalization	Anastasiya Nestsiarovich MD, PhD, Nathaniel G. Hurwitz MD, Aurélien J. Mazurie PhD, Stuart J. Nelson MD, Annette S. Crisanti PhD, Mauricio Tohen MD, DrPH, MBA, Douglas J. Perkins PhD, Christophe G. Lambert PhD
45 Utilising the power of the OHDSI network to generate large scale evidence of the safety of biologics	Nicole L. Pratt PhD, Libby E. Roughead PhD, Michael Ward PhD, Lisa Kalisch Ellett PhD, Andrew Milburn PhD, Marc A. Suchard MD, PhD, Martijn J. Schuemie PhD
46 Local Control for patient level prediction and heterogeneity of treatment effect	Nicolas R. Lauve, Stuart J. Nelson, S. Stanley Young, Robert L. Obenchain, Christophe G. Lambert PhD