OHDSI

2018 Poster Session

Even numbered posters will be presented during the morning session of the collaborator showcase – 11:30am to 1:00pm
Odd numbered posters will be presented during the afternoon session of the collaborator showcase – 2:00pm to 3:00pm

CLINICAL APPLICATIONS

1	Detecting Pioglitazone Use and Risk of Cardiovascular Events Using Electronic Health Record Data in a Large Cohort of Chinese Patients with Type 2 Diabetes	Shumei Miao, Xiao Dong, Hua Xu, Yun Liu
2	Risk of cardiac valve disorder associated with cabergoline compared with bromocriptine among hyperprolactinemia patients	Jill Hardin, Laura Hester, Frank J. DeFalco, Peter R. Rijnbeek, Patrick B. Ryan
3	Development and validation of a phenotypic prediction model of conversion from minimally-invasive to open surgery among patients undergoing sigmoidectomy	Stephen S. Johnston, David Wei, Jenna Reps
4	Using OHDSI tools to examine the comparability of chronic extended-release/long-acting (ER/LA) opioid users and chronic users of immediate-release/short-acting (IR/SA) opioids	David M. Kern, Anthony G. Sena, M. Soledad Cepeda
5	A Prediction Model for Chronic Kidney Disease using Common Data Model from Electronic Health Record	Yourim Lee
6	Epidemiologic characteristics, treatment pathway and prognosis in Korean pre-/post-menopausal women with metastatic breast cancer	Eunyoung Lee, Junghyun Byun, Hakyung Lee, Seng Chan You, Soohyeon Lee, Rae Woong Park
7	Clinical trial feasibility using observational data: a real-world analysis	Rupa Makadia, Jill Hardin, Frank J. DeFalco, Christopher Knoll, Patrick B. Ryan
8	Endometriosis Phenotype Development, Validation, and Characterization from Observational Health Databases	Mollie McKillop, Sharon Lipsky Gorman, Shadi Safar Goli, Chris D'Ambrosia, Christopher Knoll, Patrick B. Ryan, Noémie Elhadad
9	Drug Induced Liver Injury with Aztreonam compared to Ceftazidime	Paola Saroufim, Mustafa Ascha, Mark Beno, Elie Saade
10	Comparing an Occurrence of Actionable Mutations between Cancer Cohorts using Genomic Common Data Model	Seo Jeong Shin, Seng Chan You, Jin Roh, Rae Woong Park
11	Hemorrhagic Transformation in Patients older than 45 after Cerebral Infarction treated with Warfarin, Dabigatran, Aspirin or Clopidogrel	Qiong Wang, Zou Yuhui, Christian Reich, Mui Van Zandt, Yi Zhou
12	Comparison of Cardiovascular risk between Febuxostat and Allopurinol in patients without major cardiovascular disease	Seng Chan You, Ju-Yang Jung, Chang-Hee Su, Rae Woong Park
13	Predicting 30-day readmission through emergency room by using discharge note in OMOP-CDM	Giup Jang, Seng Chan You, Dongsu Park, Youngmi Yoon, Rae Woong Park
14	Treatment pathways of pediatric epilepsy with antiepileptic drugs: using Seoul National University Bundang Hospital's CDM Data	Soyoung Yi, Seok Kim, Hunmin Kim, Sooyung Yoo, Sun Ah Choi, Hee Hwang

METHODOLOGICAL RESEARCH

15	Experiences with Large Scale Pseudonymization and De-identification of Health Data	Khaled El Emam
16	A precision pharmacovigilance approach to detect pediatric-biased adverse drug reactions: a case study of anti-epileptic drug use	Nicholas P. Giangreco, Nicholas P. Tatonetti
17	Learning Curves for Large-Scale Patient-Level Predictive Modelling	Luis H. John, Jenna Reps, Peter R. Rijnbeek
18	Predictive modeling for treatment non-response in patients with EGFR-mutated NSCLC treated with EGFR tyrosine kinase inhibitors utilizing OHDSI tools and methods	Aaron Galaznik, Christian Reich, Greg Klebanov, Yuriy Khoma, Eldar Allakhverdiiev, Greg Hather

METHODOLOGICAL RESEARCH

19	Evaluating the Performance of Temporal Pattern Discovery for Identifying Signals for Statins and Rhabdomyolysis in OMOP databases	Martin A.D. Lavallee, Lee Evans, Theresa Yu, Asieh Golozar, Alex Asiimwe
20	A computational method to improve missing data imputation in Electronic Health Record	Ruowang Li, Yong. Chen, Jason H. Moore
21	Improving new-user cohort construction with coarsened exact binning and nearest-neighbor matching	Rachel D. Melamed
22	Use of VA electronic health records with or without Medicare Administrative Claims to evaluate comorbidity risk and model prediction performance	Craig A. Meyer, Ning Zhang, Mary Whooley
23	External validation of existing stroke risk prediction models in older females with atrial fibrillation across the OHDSI network	Jenna M. Reps, Ross D. Williams, Seng Chan You, Kwang Soo Jeong, Peter R. Rijnbeek, Margaret Blacketer, Patrick B. Ryan
24	Ensemble learning for patient-level prediction	Xiaoyong Pan, Jenna Reps, Peter R. Rijnbeek
25	Ensemble clustering of standard concepts across datasets	Jenna M. Reps, Patrick B. Ryan
26	PheValuator: Development and Evaluation of a Phenotype Algorithm Evaluator	Joel N. Swerdel, Patrick B. Ryan
27	Smooth Calibration: Implementation in the Patient Level Prediction package	Ross D. Williams, Peter R. Rijnbeek
28	Do RCT Eligibility Criteria Identify Applicable Patients for Evidence-Based Medicine?	Amelia J. Averitt, Chunhua Weng, Adler J. Perotte

OBSERVATIONAL DATA STANDARDS & MANAGEMENT

29	Comparing Standard and Source-code-based Cohort Selection Approaches: Is SNOMED Extension Warranted?	Hamed Abedtash, Natalie Franklin
30	Leveraging the OMOP CDM for RCT Data	Joshua F. Ransom, Eldar Allakhverdiiev, Gregory Klebanov, Jim Singer, Kirill Eitvid, Rayhnuma Ahmed, Emelly Rusli, Alexandra Shilnikova
31	Introducing Ananke, A Tool for Mapping Between OHDSI Concept Identifiers to Unified Medical Language System (UMLS) identifiers	Juan M. Banda
32	OMOP on FHIR Implementation with Improved Mapping Capability	Myung Choi, Eric Soto, Michael Riley, Richard Starr, Jon Duke
33	Performing data cut on OMOP data using Concept Sets	Rohit Dalal, Lovkesh Singla
34	Transforming Medicare Research Identifiable Files into OMOP CDM	Kristin de Groot, Aize Cao, Qiuying Lucy Zhang, Denise M. Hynes, Donghui Kan, Amanda Taylor, Linda Kok, Fern FitzHenry, Scott L. DuVall, Maria Souden, Michael Matheny
35	SNOMED Extension - Filling Gaps for Comprehensive OMOP Condition Vocabulary	Dmitry Dymshyts, Anna Ostropolets, Christian Reich, Rimma Belenkaya
36	Ontological representation of OMOP CDM using the OBO framework	Yongqun He, Edison Ong, Jie Zheng
37	Converting clinical trial data between CDISC SDTM and OMOP CDM	Vojtech Huser
38	Categorical Data Standardization Algorithm for Laboratory Test Results	Mina Kim, Sooyong Shin, Byoungkee Yi
39	Converting and Validating Common Data Model at Seoul National University Bundang Hospital	Seok Kim, Soyoung Yi, Ho-Young Lee, Hee Hwang, Sooyoung Yoo
40	Development of FEEDER-NET (Healthcare Big Data Ecosystem) based on OMOP-CDM in Korea	Seongwon Lee
41	Vocabulary mapping quality assessment in two European datasets; an Achilles extension	Maxim Moinat, Stefan Payralbe, Ilona Pinter, Marinel Cavelaars, Kees van Bochove, Rients van Wijngaarden
42	The Only Constant is Change: A Large-Scale Characterization of Temporal Instability in an Observational Data Network	Anthony Molinaro, Frank J. DeFalco, James Weaver, Laura Hester, Patrick B. Ryan

OBSERVATIONAL DATA STANDARDS & MANAGEMENT

43	THEMIS - The Answer to Building Consistent Common Data Models across Organizations	Anna Ostropolets, Mui Van Zandt, Erica A. Voss, Asha Mahesh, Minnie Chou, Ron Stewart, Christian Reich
44	The European Health Data and Evidence Network	Peter R. Rijnbeek, Johan van der Lei, Michel van Speybroeck, Nigel Hughes
45	Automating Common Data Model conversion using python and Spark SQL	Saurabh Sohlot, Rohit Dalal, Lovkesh Singla
46	Strategies and Recent Progress for Curating Chinese Standard Vocabularies Using the OHDSI Common Data Model	Cui Tao, Hua Xu, Hangyu Ji, Yaoyun Zhang, Fang Li, Jingqi Wang, Lingyi Tang, Haiyang Yao, Yun Liu, Xin Zhang, Meng, Guozhen Liu, Qi Wang, Ruan Tong, Li Wang, Jingsong Li, Yu Tian, Qiong Wang, Na Hong, Yue Yu, Li Wang, Qinghua Wang, Yi Zhou, Nan Dong, Zhiming Tan, Min Luo, Zhi Wang, Fengxiang Chang, Mui Van Zandt, Guoqian Jiang
47	OMOP CDM ETL conversion: our experience, major challenges and lessons learned	Natalia Karataeva, Natalie Voronko
48	Conversion of a French EMR into OMOP CDM	Marie-Sophie Schwalm, Thomas Raoul, Mui Van Zandt, Gabriel Coffin, Sophie L Jouaville
50	Development of a CDM extension for Radiology data (R-CDM)	Seng Chan You, Kwang Soo Jeong, Si Hyung No, Kwon-Ha Yoon, Chang-Won Jeong, Rae Woong Park
52	Conversion of Patient-Generated Health Data: proposal for ETL rule and experience of transformation	Seng Chan You, Youngin Kim, Jaehyung Cho, Rae Woong Park

OPEN-SOURCE ANALYTICS DEVELOPMENT

49	Building the OHDSI Tools & R Methods	Lee Evans
51	ADEpedia-on-OHDSI: An Open Source ETL Tool for Converting FAERS into the OHDSI CDM for Improved Signal Detection	Yue Yu, Kathryn J. Ruddy, Na Hong, Shintaro Tsuji, Hongfang Liu, Nilay Shah, Guoqian Jiang
53	Utilizing Serverless CDM Builder to Improve Performance and Reduce Cost	Anton Ivanov, Alexey Arestenko, Gennady Anisimov, Maxim Draschinsky, Alexander Efimov, Ajit A. Londhe
54	Predicting short-term and long-term Mortality using Recurrent Neural Network using Temporal Features from OMOP-CDM	Seng Chan You, Xiaoyong Pan, Jenna Reps, Peter Rijnbeek, Rae Woong Park
55	Exploring Heterogeneity of Treatment Effects: Development of a New OHDSI Analytics Package and Demonstration Using the Gastrointestinal Bleeding Risk of Celecoxib	Alexandros Rekkas, Peter R. Rijnbeek, James Weaver, Martijn J. Schuemie, Jenna Reps, David Van Klaveren,
56	OpenMRS EHR Data conversion into the OMOP CDM	Lee Evans, Theresa Yu, B. Eng
57	Baseline Regularization: an R package for identifying adverse and beneficial drug effects from longitudinal observational data	Yuriy Sverchkov, Zhaobin Kuang, Mark Craven, David Page,
58	Columbia Open Health Data: EHR prevalence and co-occurrence of conditions, drugs, and procedures	Casey N. Ta, Michel Dumontier, George Hripcsak, Nicholas P. Tatonetti, Chunhua Weng
59	Mining Dutch Health Records with a Machine Translated OHDSI Vocabulary	Erik M. van Mulligen, Peter Rijnbeek, Jan A. Kors
60	OHDSI on AWS Reference Architecture	James Wiggins