

Collaborator Showcase Agenda, Event Diagrams and Presenters

September 14 – September 15, 2021

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Collaborator Showcase Agenda

Tuesday, September 14, 2021

- 1:00 pm – 2:00 pm (ET):** Advances in Data Standards
- 2:00 pm – 3:00 pm (ET):** Advances in Methods Research
- 3 00 pm – 4:00 pm (ET):** Advances in Clinical Applications
- 4:00 pm – 5:00 pm (ET):** Advances in Open-Source Development and
Community
- 5:00 pm – 7:00 pm (ET):** Networking

Wednesday, September 15, 2021

- 3:00 am – 4:00 am (ET):** Advances in Data Standards
- 4:00 am – 5:00 am (ET):** Advances in Methods Research
- 5:00 am – 6:00 am (ET):** Advances in Clinical Applications
- 6:00 am – 7:00 am (ET):** Advances in Open-Source Development and
Community

Event Space Diagram



Main Room (OHDSI Logo)

Main Help Desk, Information Desks, Work Group Booths, Plenary Viewing, Networking

Green Room

Clinical Applications: Posters and Lightning Talks
Community Lightning Talks, Help Desk

Orange Room

Methodological Research: Posters, Lightning Talks, Help Desk

Dark Blue Room

Data Standards: Posters, Lightning Talks, Help Desk

Light Blue Room

Open-Source: Posters, Software Demonstrations, Help Desk

Data Standards Room



September 14, 2021 1 pm - 5 pm (ET)

Data Standards Lightning Talks 1:00 pm - 1:30 pm (ET)

Data Standards Poster Walks 1:30 pm - 2:00 pm (ET)

September 15, 2021 3 am- 7 am (ET)

Data Standards Lightning Talks 3:00 am - 3:30 am (ET)

Data Standards Poster Walks 3:30 am - 4:00 am (ET)

Although you may choose your own journey and navigate the space at your discretion, presenters will be in the Data Standards Room according to the above agenda, at a minimum. You may find them at their booths for longer periods of time. Some presenters may be there 9/14 only or 9/15 only and some on both days. If the presenter is not at the booth, simply press "X" on your keyboard when you approach the booth to view posters or watch lightning talks at your leisure.

You will find a list of all the presenters in this room on the next two pages (please note that in addition to their lightning talks, some presenters will have a poster outside their lightning talk area).

Data Standards Poster Presenters

Location	Title of Work	Presenter
DS01	Conversion of UK Biobank into the OMOP CDM: New Data for Inferences Between Episodic Care	Amelia Averitt
DS02	Medication dosage and exposure duration in OMOP CDM: mapping challenges	Tatiana Banokina
DS03	Mapping UK Biobank to the OMOP CDM: challenges and solutions using the delphyne ETL framework	Sofia Bazakou Alessia Peviani Anne van Winzum
DS04	The VISIT_DETAIL: A Vehicle for Standard Visits	Clair Blacketer
DS05	Establishing a large COVID-19 cohort through mapping the Information System for Research in Primary Care (SIDIAP) in Catalonia to the OMOP Common Data Model	Edward Burn
DS06	Linking Analysis Ready Multi-modal Clinical data	Priya Desai
DS07	OMOP-CDM ETLs with Dask and Prefect	Freija Descamps
DS08	Ontology of Cancer Diagnosis in the OMOP Vocabulary	Dmitry Dymshyts
DS09	Deriving Initial Disease Episode from Discrete Diagnosis	Michael Gurley/Asieh Golozar
DS10	LAISDAR - A federated data network to support COVID-19 research in Rwanda	Lars Halvorsen
DS11	Evaluation of vaccine concept mappings in OMOP vocabulary: a real-world database study	Denys Kaduk Adam Black
DS12	Representation of investigational drugs in the OMOP CDM	Michael Kallfelz
DS13	Pragmatic OMOP CDM	Gregory Klebanov
DS14	Near Real-Time Incremental OMOP-CDM ETL System	Seongwon Lee
DS15	Securing OHDSI on AWS for HIPAA and Research Data Management Compliance	Michael Lubke
DS16	Empirical Assessment of Alternative Methods for Identifying Seasonality in Observational Healthcare Data	Anthony Molinaro
DS17	How vocabulary updates can affect individual OMOP instances	Daniel Park
DS18	Implementing & adopting a customized OMOP Common Data Model	Melanie Philofsky
DS19	Scaling OHDSI open-source community projects, lessons learned by Oncology Work group	Shilpa Ratwani
DS20	Machine Learning-assisted query and information retrieval system on real-world data	Miguel Romero/Yupeng Li
DS21	Understanding Precision Medicine through the NIH All of Us Research Program and NCI Cancer Research Data Commons	Jay Ronquillo
DS22	Representation of High-Level Radiation Oncology Treatment Events from CPT Codes	Tatyana Sandler
DS23	Assessing the Technical and Operational Feasibility of a Next-generation Data Capture and Processing Approach An Extension of OMOP-based Data Translation Developed by the Center for International Blood and Marrow Transplant Research (CIBMTR)	Ben Smith
DS24	A journey through VA's uptake of the OMOP common data model	Benjamin Viernes
DS25	REDHot OMOP: Facilitating Semantic Interoperability in REDCap with FHIR and the OMOP CDM	Salvatore Volpe

DATA STANDARDS LIGHTNING TALK PRESENTERS

Location	Title of Work	Presenter
DS LT1	Data Quality Dashboard Used to Improve Data Quality in the EHDEN Network (This lightning talk also has a poster of the research outside its area)	Clair Blacketer Erica Voss
DS LT2	Beyond Clinical: Integrating Research Assay Data into the Observational Health Data Sciences and Informatics Common Data Model (OHDSI CDM) through the Surgical Critical Care Initiative (SC2i) (This lightning talk also has a poster of the research outside its area)	Chandra Almond
DS LT3	Extending the OMOP CDM to store the output of natural language processing pipelines	Monica Arrúe
DS LT4	Validation of the Genomic Variant Vocabulary against TCGA (This lightning talk also has a poster of the research outside its area)	Denys Kaduk Asieh Golozar

Methodological Research Room



September 14, 2021 1 pm - 5 pm (ET)

Methodological Research Lightning Talks 2:00 pm - 2:30 pm (ET)

Methodological Research Poster Walks 2:30 pm - 3:00 pm (ET)

September 15, 2021 3 am - 7 am (ET)

Methodological Research Lightning Talks 4:00 am - 4:30 am (ET)

Methodological Research Poster Walks 4:30 am - 5:00 am (ET)

Although you may choose your own journey and navigate the space at your discretion, presenters will be in the Methods Research Room according to the above agenda, at a minimum. You may find them at their booths for longer periods of time. Some presenters may be there 9/14 only or 9/15 only and some on both days. If the presenter is not at the booth, simply press “X” on your keyboard when you approach the booth to view posters or watch lightning talks at your leisure.

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Methodological Research Poster Presenters

Location	Title of Work	Presenter
MR01	Best of intent, worst of both worlds: why sequentially combining epidemiological methods does not improve signal detection in vaccine surveillance	Faaizah Arshad
MR02	A Biomedically oriented automatically annotated Twitter COVID-19 Dataset	Luis Alberto Robles Hernandez
MR03	Summarizing current evidence for the PIONEER study-a-thon: Systematic Literature Review of prostate cancer patients managed with watchful waiting	Peter-Paul Willemse
MR04	Phenotype Development and Evaluation of Heart Failure: A Case Study in using Patient Level Prediction to Improve Phenotype Validity	Pooja Desai
MR05	Distributed Counterfactual Modeling Approach for Investigating Hospital-Associated Racial Disparities in COVID-19 Mortality	Mackenzie Edmondson
MR06	Estimating Model Performance on External Datasets from Their Limited Statistical Characteristics: Application to 3-Year Surgery Risk in Ulcerative Colitis	Tal El Hay Chen Yanover
MR07	Quantifying polypharmacy in elderly people: a comparison between source and mapped data in the UK Clinical Practice Research Datalink GOLD	Leena Elhussein
MR08	Real-World Evaluation of Systematic Bias and Balance of Overall Patient Characteristics of Propensity Score Matching Versus Cardinality Matching	Stephen P. Fortin
MR09	Predictive Performance of the Charlson Comorbidity Index: SNOMED CT Disease Hierarchy Versus International Classification of Diseases	Stephen P. Fortin
MR10	Imputation of Continuous Measurements in Large Healthcare Databases: Comparing the Performance of Imputation Algorithms	Stephen P. Fortin
MR11	Attention based deep neural networks in patient level prediction	Egill Fridgeirsson
MR12	The secret (outpatient) garden: Using the OMOP CDM to better differentiate between out-patient and inpatient diagnoses in the VA EHR data	Elise Gatsby
MR13	Identification of treatment intent from the actual time-to-treatment distribution in prostate cancer patients	Asieh Golozar
MR14	Big Data Methods for Real World Data: A Simulation Study to Assess Suitability of Machine Learning Methods to Account for Confounding Under Various Treatment and Outcome Prevalence Scenarios	Yuchen Guo
MR15	Development of an ETL Process for Bulk and Incremental Load of German Patient Data into OMOP CDM Using FHIR	Elisa Henke
MR16	Association Rule and Frequent Pattern Mining using the OMOP CDM	Solomon Ioannou
MR17	Bridging communities: Transforming MIMIC-IV to the OMOP CDM	Michael Kallfelz/Andrew Williams

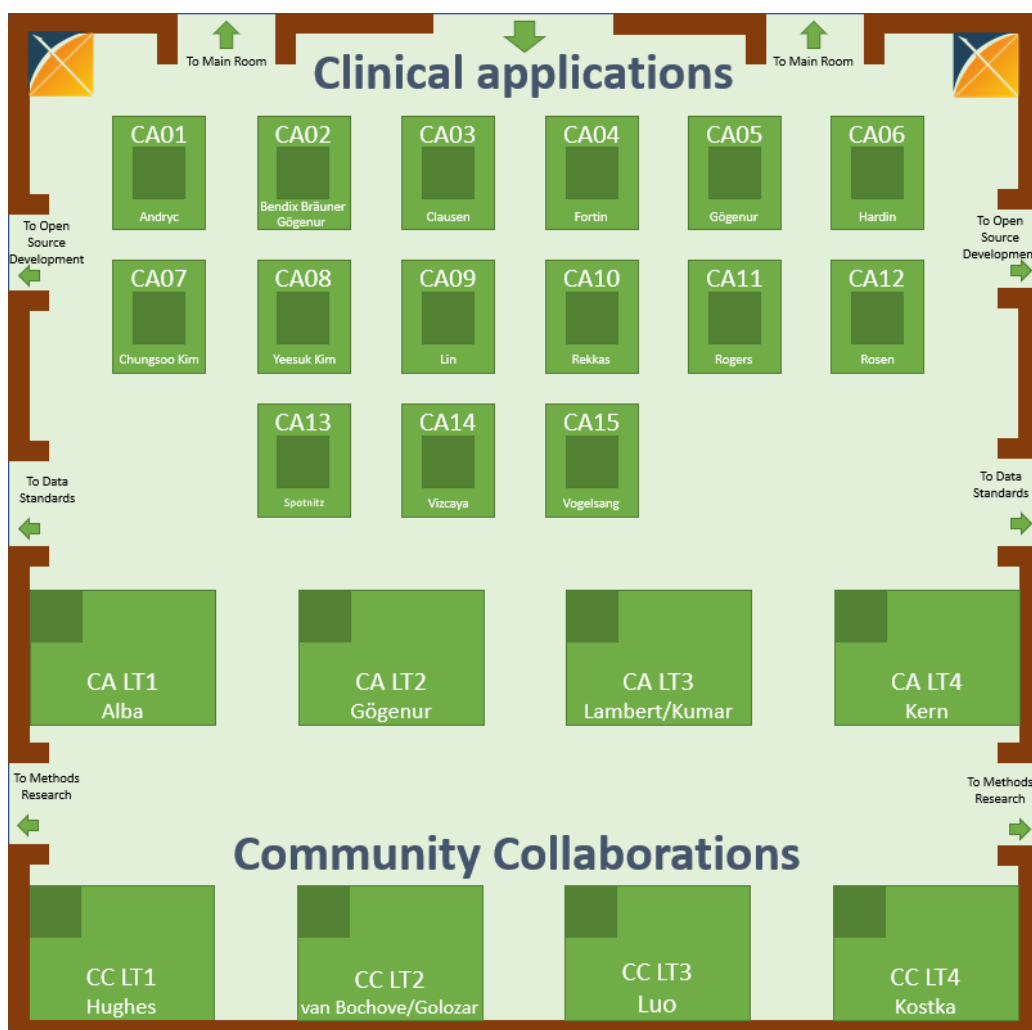
Methodological Research Poster Presenters (Continued)

<u>Location</u>	<u>Title of Work</u>	<u>Presenter</u>
MR18	Design criteria for reference sets in pharmacovigilance: The case of drug-drug interactions	Elpida Kontsioti
MR19	Comparing the impact of alternative phenotype definitions: insights from developing cohorts for COVID-19 adverse events of special interest	Rupa Makadia
MR20	Learning under constraints with EXPLORE	Aniek Markus
MR21	The concept of anchoring in observational study design and its influence	Anna Ostropelets
MR22	Personalizing Background Risk Estimates for Outcomes of Interest associated with Covid-19 Vaccination	Jenna Reps
MR23	An EUMAEUS investigation: how much can be gained in vaccine safety surveillance by including second dose data?	Ty Stanford
MR24	PheValuator 2.0: Changes to Improve the Performance of the Phenotype Algorithm Evaluation Tool	Joel Swerdel
MR25	Assessing impact on change in incidence on calibration performance across external validation	Ross Williams
MR26	Trends in the development and validation of patient-level prediction models using electronic health record data: a systematic review	Cynthia Yang
MR27	Wikipedia Drug Safety Advisory Committee: Distilling A Drug Adverse Effect Reference Set Using Wisdom of The Crowd	Chen Yanover Yonatan Bilu

Methodological Research Lightning Talk Presenters

<u>Location</u>	<u>Title of Work</u>	<u>Presenter</u>
MR LT1	Evaluating the performance of Austin's standardized difference heuristic in observational cohort studies with varying sample size	Mitchell Conover
MR LT2	Leveraging APHRODITE to identify bias in statistical phenotyping algorithms (This lightning talk also has a poster of the research outside its area)	Juan Banda
MR LT3	Assessing the impact of race on glomerular filtration rate prediction	Linying Zhang
MR LT4	A Prediction Model Library	Ross Williams

Clinical Applications Room



September 14, 2021 1 pm - 5 pm (ET)

Clinical Applications Lightning Talks 3:00 pm - 3:30 pm (ET)

Clinical Applications Poster Walks 3:30 pm - 4:00 pm (ET)

Community Lightning Talks 4:00 pm - 4:30 pm (ET)

September 15, 2021 3 am - 7 am (ET)

Clinical Applications Lightning Talks 5:00 am - 5:30 am (ET)

Clinical Applications Poster Walks 5:30 am - 6:00 am (ET)

Community Lightning Talks 6:00 am - 6:30 am (ET)

Although you may choose your own journey and navigate the space at your discretion, presenters will be in the Clinical Applications Room according to the above agenda, at a minimum. You may find them at their booths for longer periods of time. Some presenters may be there 9/14 only or 9/15 only and some on both days. If the presenter is not at the booth, simply press “X” on your keyboard when you approach the booth to view posters or watch lightning talks at your leisure.

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Clinical Applications Poster Presenters

Location	Title of Work	Presenter
CA01	Impact of the COVID-19 pandemic on pediatric utilization patterns in claims data	Alan Andryc
CA02	Short-term mortality in patients undergoing colorectal cancer surgery: A prediction study	Karoline Bendix Bräuner Ismail Gögenur
CA03	Predicting early readmission after colorectal cancer surgery using only preoperative variables	Johan Clausen
CA04	Diagnostic Accuracy of Code-Based Algorithms to Identify Urinary Tract Infection in U.S. Administrative Claims Databases	Stephen P. Fortin
CA05	Predicting risk of recurrence after surgery for colorectal cancer	Mikail Gögenur
CA06	Examination of Characteristics and Treatments in Pediatric and Adult Hidradenitis Suppurativa	Jill Hardin
CA07	Development of a Machine-learning Model to Predict Antibiotic Resistance using Urine Culture and Antibiotic Susceptibility Data	Chungsoo Kim
CA08	Quantitative analysis on the development of musculoskeletal adverse effects of corticosteroids using common data model	Yeesuk Kim
CA09	Predicting complications after surgery for colorectal cancer - Identifying patients at risk	Viviane Lin
CA10	Treatment heterogeneity in comparative effectiveness of teriparatide vs bisphosphonates: multi-database cohort study	Alexandros Rekkas
CA11	Evaluating Patient Count Vs Hospitalization Risk for Common Clinical Trial Eligibility Criteria: A Case Study for Relapsed/Refractory Lymphoma/Leukemia	James Rogers
CA12	Predicting 1- 3-, and 5-year mortality after surgery for colorectal cancer using a Danish quality assurance database	Andreas Rosen
CA13	Characterization of Antiepileptic Drug Treatment Pathways with the Common Data Model: Pilot Results from Columbia University Irving Medical Center	Matthew Spotnitz
CA14	From type 2 diabetes diagnosis to developing complications: a multi-country approach to understanding patient's journey	David Vizcaya
CA15	Proof-of-concept model targeting patient-level prediction of 90-day mortality after colorectal cancer surgery kickstarts OHDSI journey	Rasmus Vogelsang

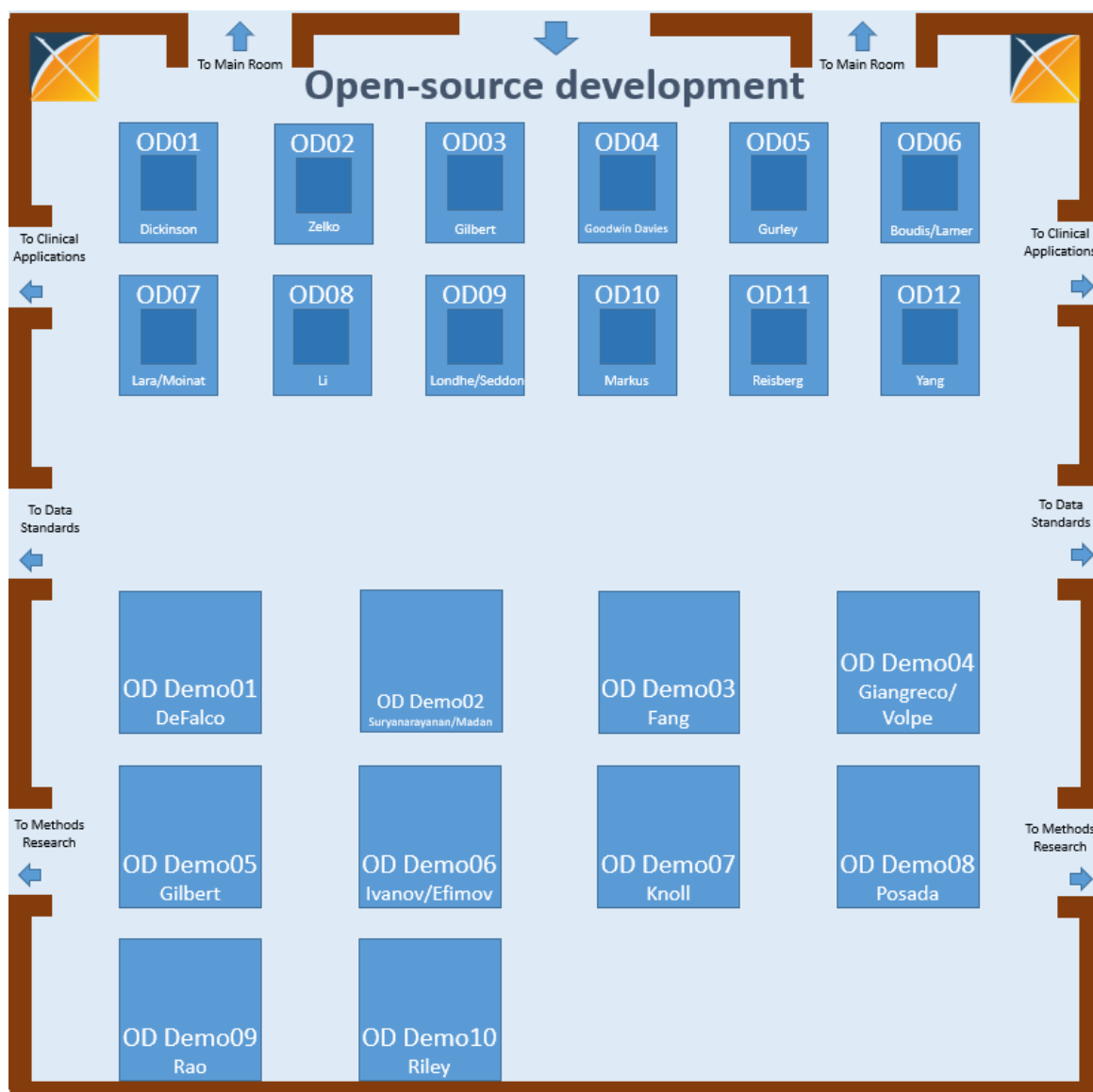
Clinical Applications Lightning Talk Presenters

Location	Title of Work	Presenter
CA LT1	Detection of prone positioning in hospitalized COVID patients using NLP (This lightning talk also has a poster of the research outside its area)	Patrick Alba
CA LT2	From metrics to intelligence using the OMOP CDM and the Patient-Level-Prediction package as a foundation decision support tool	Ismail Gögenur
CA LT3	Detecting PTSD and self-harm among US Veterans using positive unlabeled Learning (This lightning talk also has a poster of the research outside its area)	Christophe Lambert Praveen Kumar
CA LT4	Revealing unknown benefits of existing medications to aid the discovery of new treatments for post-traumatic stress disorder (This lightning talk also has a poster of the research outside its area)	David Kern

Community Collaborations Lightning Talk Presenters

Location	Title of Work	Presenter
CC LT1	The European Health Data & Evidence Network (EHDEN) Sharing the OHDSI Journey and a Vision of Evidence Today, Not in Several Tomorrows (This lightning talk also has a poster of the research outside its area)	Nigel Hughes
CC LT2	Long term outcomes of prostate cancer patients managed by watchful waiting: results from the PIONEER/EHDEN/OHDSI study-a-thon	Kees van Bochove Asieh Golozar
CC LT3	Covid-19 Pandemic impacts on mental health Related conditions Via multi-database network: a Longitudinal Observational study (CERVELLO)	Hao Luo
CC LT4	Large Scale Dissemination of OHDSI Methods and Tools: Introducing a New Community Resource, the OHDSI Center at the Roux Institute at Northeastern University	Kristin Kostka

Open-source Development Room



September 14, 2021 1 pm - 5 pm (ET)

Software Demonstrations 4:00 pm - 5:00 pm (ET)

Open-source Development Poster Walks 4:30 pm - 5:00 pm (ET)

September 15, 2021 3 am - 7 am (ET)

Software Demonstrations 6:00 am - 7:00 am (ET)

Open-source Development Poster Walks 6:30 am - 7:00 am (ET)

Although you may choose your own journey and navigate the space at your discretion, presenters will be in the Open-source Dev. Room according to the above agenda, at a minimum. You may find them at their booths for longer periods of time. Some presenters may be there 9/14 only or 9/15 only and some on both days. If the presenter is not at the booth, simply press "X" on your keyboard when you approach the booth to view posters or watch demos at your leisure.

You will find a list of all presenters in this room on the next two pages.

Open-source Development Poster Presenters

<u>Location</u>	<u>Title of Work</u>	<u>Presenter</u>
OD01	Gold or Lead? Adjudicating Differences between CDM Data and Chart Reviews	Kimberley Dickinson
OD02	Building Bridges with Julia: Using Julia to Augment OHDSI R Packages	Jacob Zelko
OD03	CemConnector: A RESTful application programming interface and client library for the Common Evidence Model (CEM)	James Gilbert
OD04	Beyond standardization: Reproducible approaches to deriving clinically meaningful variables for several measures of renal function	Amy Goodwin Davies
OD05	REDCap2OMOP: A platform for ETLing REDCap projects into the OMOP CDM	Michael Gurley
OD06	Automated Generation of Individual and Population Clinical Pathways with the OMOP Common Data Model	Fabio Boudis Antoine Lamer
OD07	Comparing Data Quality Dashboard results from consecutive ETL iterations: three new utilities	Elena G. Lara Maxim Moinat
OD08	Competing risk regression models in cohort studies with the R package Cohort Method	Kelly Li
OD09	Bringing a Titan to a New Organization	Ajit Londhe Garry Seddon
OD10	Treatment Patterns: An R package to analyze treatment patterns of a study population of interest	Aniek Markus
OD11	Design of a framework to detect temporal clinical event trajectories from health data standardized to the OMOP CDM	Sulev Reisberg
OD12	GPU parallelization of massive sample-size survival analysis	Jianxiao Yang

Software Demonstrations Presenters

Location	Title of Work	Presenter
OD Demo 01	ARES: A Research Exploration System	Frank DeFalco
OD Demo 02	Disease Progression Modeling Workbench 360	Parthasarathy Suryanarayanan Piyush Madan Prithwish Chakraborty William Ogallo Rachita Chandra Nelson Bore
OD Demo 03	Criteria2Query 2.0: An Editable User Interface for Human-Machine Collaboration in Cohort Definition	Yilu Fang
OD Demo 04	All Genes Lead to ROMOPomics	Nicholas Giangreco Salvatore Volpe
OD Demo 05	Evaluating automated selection of outcome negative controls for estimating the total error distribution of self-controlled cohort study designs	James Gilbert
OD Demo 06	Perseus Design and run your own ETL to CDM	Anton Ivanov Alexander Efimov
OD Demo 07	CohortIncidence: A Standardized Framework for Characterizing Incidence Using OMOP Common Data Model and OHDSI tools	Christopher Knoll
OD Demo 08	ATLAS with a BigQuery backend running Execution Engine - a Software demo	Jose Posada
OD Demo 09	Cohort Diagnostics	Gowtham Rao
OD Demo 10	Automated Translation of Cohort Definitions from Atlas JSON to CQL-FHIR	Michael Riley