Upcoming Community Calls

Date	Topic
Sept. 19	Journal Club: 11th Revision of the ENCePP Guide on Methodological Standards in Pharmacoepidemiology
Sept. 26	Publications Presentation
Oct. 3	Workgroup Reports, pt 1
Oct. 10	Workgroup Reports, pt 2
Oct. 17	Symposium Week! Final Logistics
Oct. 24	Welcome to OHDSI

Three Stages of The Journey

Where Have We Been?

Where Are We Now?

Where Are We Going?

OHDSI Shoutouts!

Congratulations to the team of **Mareike Przysucha, Jens Hüsers, Daniil Liberman, Oliver Kersten, Aphrodite Schlüter, Sebastian Fraas, Dorothee Busch, Maurice Moelleken, Cornelia Erfurt-Berge, Joachim Dissemond, and Ursula Hübner** on the publication of **Design and Implementation of an ETL-Process to Transfer Wound-Related Data into a Standardized Common Data Model** in *Ophthalmology Science*.

Design and Implementation of an ETL-Process to Transfer Wound-Related Data into a Standardized Common Data Model

Mareike PRZYSUCHA[a][1], Jens HÜSERS[a], Daniil LIBERMAN[b], Oliver KERSTEN[b], Aphrodite SCHLÜTER[b], Sebastian FRAAS[b], Dorothee BUSCH[c], Maurice MOELLEKEN[d], Cornelia ERFURT-BERGE[c], Joachim DISSEMOND[d], and Ursula HÜBNER[a]

[a] Health Informatics Research Group, Osnabrück University of AS, Germany
[b] apenio GmbH & Co. KG, Germany
[c] Department of Dermatology, Uniklinikum Erlangen, Friedrich-Alexander University Erlangen-Nürnberg (FAU), Erlangen, Germany
[d] Department of Dermatology, Venerology and Allergology, University Hospital of Essen, Germany

Abstract. For observational studies, which are relevant especially for chronic conditions like chronic wounds, the Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM) offers a standardized database schema. In this study an ETL process for the transition of wound related data was developed. After understanding the data in general and mapping the relevant codes to concepts available in OMOP, the ETL process was implemented. In a first step, a generic algorithm to convert data to a csv format was implemented in Java. The resulting csv file was then processed within KNIME to be loaded into an OMOP CDM conformant database. During the whole ETL process, HL7 FHIR CodeSystem and ConceptMap resources were used for coding and mapping. First clinical test cases to retrieve data were successfully processed as an example to demonstrate the feasibility and usefulness. They concerned wound size at the first visit and the main issues of patients in the wound quality of life questionnaire (n = 24). In general, the ETL process worked well, yet some challenges arose, like post coordinated SNOMED codes or conditions, which might occur more than once.

Keywords. OMOP CDM, ETL Process, Wound Care

1. Introduction

To evaluate the outcome and impact of health related procedures for patients with chronic conditions, studies based on observational data are a promising approach next to randomized trials [1]. To enhance observational studies, the Observational Medical Outcomes Partnership (OMOP) was formed in 2008. They created a common data model (CDM) allowing researchers to perform observational studies with data from different sites and countries. After the end of the partnership in 2013, the Observational Health Data Science and Informatics (OHDSI) initiative was founded in 2014 and continues

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ohdsi.org/europe2023-showcase

#OHDSISocialShowcase

MONDAY

The EHDEN Portal – Simplifying the access to OMOP CDM databases

(João Rafael Almeida, Nigel Hughes, Peter Rijnbeek, José Luís Oliveira)

The EHDEN Portal –
Simplifying the access to
OMOP CDM databases

👤 José Oliveira

INTRO:
- EHDEN project aims to **improve health outcomes for patients** by providing an observational research ecosystem to explore real-world data.
- Goal: harmonizing **500 million anonymized** health records from European institutions.

METHODS
- EHDEN Portal is a web platform that centralizes the entry points for all available services within this project.
- The Database Catalogue is the primary entry point **for data discovery** in the databases in the EHDEN network.

RESULTS
- EHDEN portal currently holds information about more than 60 databases.
- Allows data owners to specify at most 46 attributes for each database.
- The tools integrated in this portal provide an ecosystem capable of supporting the different stages of a medical study.

CONCLUSIONS
- The proposed portal strongly benefits from the OHDSI tools and principles.
- This portal provides services that enable a federated European data network to perform fast, scalable, and highly reproducible health research.

The EHDEN Portal

Simplifying the discovery and analysis of health databases!

Scan QR to
download the **full paper**
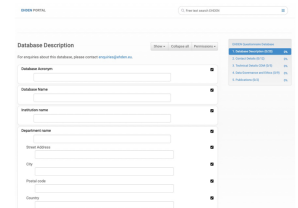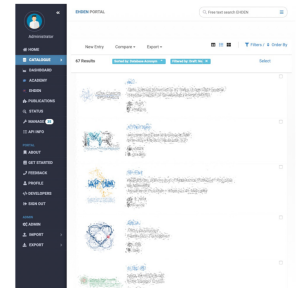
👤 João Rafael Almeida, Nigel Hughes, Peter Rijnbeek, José Luís Oliveira

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TUESDAY

Construction of a central ontology platform for semantic mapping coordination and vocabulary augmentation across a multi-partner oncology consortium

(Jared Houghtaling, Peter Prinsen, Maaike van Swieten, Chiara Attanasio, Lars Halvorsen)

A central ontology platform enables OMOP consortia to pre-coordinate their semantic mapping approach and to **maintain necessary granularity** until it is possible to formally integrate those concepts into a new standard OMOP vocabulary version

Title: Construction of a central ontology platform for semantic mapping coordination and vocabulary augmentation across a multi-partner oncology consortium

BACKGROUND: The *Integraal Kankercentrum Nederland*, or IKNL, collects and catalogues data from individuals diagnosed with cancer across the Netherlands [1]. In an effort to enrich this national dataset, as well as to validate and expand upon ongoing analyses, IKNL has joined efforts with the Blueberry consortium alongside other regional and national cancer registries. Much of the critical information the consortium aims to capture exists as part of the ICDO3 vocabulary, which is not comprehensively represented in the standard Observational Medical Outcomes Partnership (OMOP) vocabulary tables as of spring 2023.

In order to capture sufficient granularity of source concepts across the network, we have constructed a central ontology platform that provides Blueberry users with the following functionalities:

(1) Submission of unmapped source codes to a semantic mapping portal for automated standard suggestions (edenceMapper)
(2) Creation of semantic mapping sets to be collaboratively reviewed, and subsequently approved or modified, in an online web portal (edenceReviewer)
(3) Maintenance and update of the central consortium vocabulary tables using PROSA, an OMOP ontology application,
(4) Search and reference of the latest central consortium vocabulary version using a centrally deployed Athena web application
(5) Utilities and triggers that help integrate and synchronize each of the independent components

In this work, we describe each of these functionalities and the tools that support them, and we present the benefits and drawbacks of using such an approach to fill gaps (temporarily) in the OMOP vocabularies to support semantic mapping coordination across a targeted federated network.

Figure 1: Overview of services available on the ontology platform, which include two web applications (Athena and edenceReviewer) as well as various tooling to support those applications and ensure that the core vocabulary tables are updated and maintained appropriately.
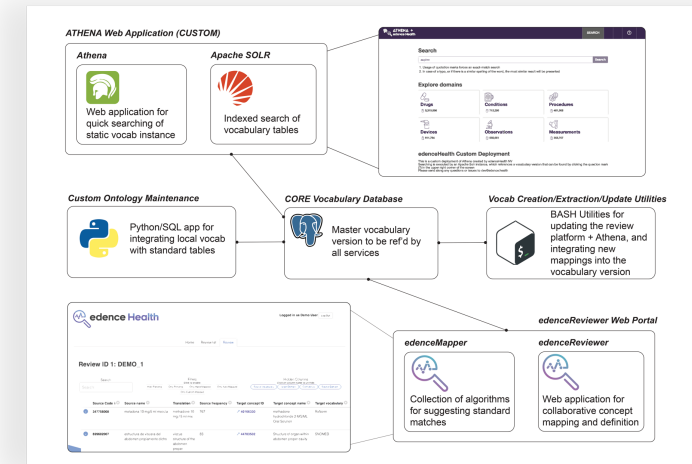
LIMITATIONS AND DISCUSSION: In comparison with site-specific vocabulary maintenance, the ontology management structure we have established above has several advantages: all partners can implement the same standard vocabulary version in their OMOP CDM instances, all partners can reference the consortium-specific vocabulary through a familiar Athena interface, and all partners can quickly request and update the vocabulary version to incorporate concepts that capture source-specific information, without concern of concept redundancy across the network.

One critical consideration with this type of approach is that data partners need to establish consistent ETL deployment schedules to reference a dynamic vocabulary version. We expect to keep track of source releases and referenced vocabulary versions across the network using the Ares network tool [3, 4], which has already been implemented at IKNL to track OMOP version releases internally.

Jared Houghtaling[a], Peter Prinsen[b], Maaike van Swieten[b], Chiara Attanasio[b] and Lars Halvorsen[a]

AFFILIATIONS
a edencemaath NV (Kontich, Belgium)
b Netherlands Comprehensive Cancer Organisation (IKNL)

REFERENCES
[1] https://iknl.nl
[2] Houghtaling et al. (2023) Development of an OMOP Ontology Application – PROSA – for creation and maintenance of highly granular source concepts within the OMOP vocabulary structure. OHDSI Europe Symposium 2023
[3] Ohdsi. (n.d.-a). GitHub - OHDSI/Ares: A Research Exploration System. GitHub. https://github.com/OHDSI/Ares
[4] Ohdsi. (n.d.). GitHub - OHDSI/AresIndexer: R package that creates the index and relevant files for an Ares deployment. GitHub. https://github.com/OHDSI/AresIndexer

#OHDSISocialShowcase

WEDNESDAY

The DigiONE FORGE Approach to Providing OMOP Oncology Data for Federated Analyses

(Daniel Maier, Fabienne A. U. Fox, Abishaa Vengadeswaran, Andrea Wolf, Christian Brandts, Daniel P. Brucker, Holger Storf, Jörg Janne Vehreschild, Timo Schneider, Dennis Kadioglu)

Introducing **OMOP and high-velocity NLP solutions** for international collaborations in **RWD-oncology** in Germany
The Frankfurt Oncological Hub for the Generation of RWE (FORGE)

### The DigiONE-FORGE Approach to Providing OMOP Oncology Data for Federated Analyses

Background

FORGE is part of the Digital Oncology Network for Europe (DigiONE)-initiative connecting six European cancer centers, funded by the Digital Institute for Cancer Outcomes Research (DigiCore). It aims to establish an OMOP-based federated infrastructure, which promotes the exchange between institutions and research on oncological real-world data. The project co-pioneers innovative, near real-time, automated procedures to capture, process, clean and provide data across countries, thereby building bridges between established national standards.

Results

- MEDOC dataset: 36 items were selected by clinical importance and availability
- ORBIS (hospital information system) and CentraXX (bio-bank and cancer registry DB) serve as main data sources
- Fast Healthcare Interoperability Resource (FHIR) repository as sustainable intermediary source for providing data to the OMOP data base
- FHIR2OMOP-interface by the German MI-I will be leveraged to provide data in the OMOP CDM

- Averbis Health Discovery will be used for detection, extraction and transformation of free-text data
- Expert manual validation of NLP-processed data as quality control
- Vantage6 will be connected for enabling federated analyses across the DigiONE consortium
- Other customized tools secure institutional and national standards with regards to data privacy, sparsity and sustainability

Methodological Approach
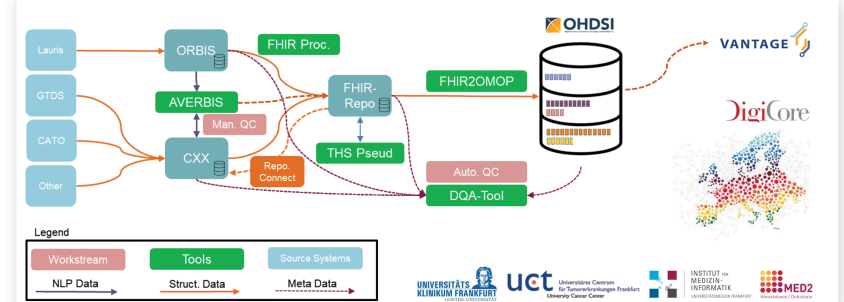
Conclusion

Our approach aims to contribute to the cross-national infrastructure for federated RWD research that may serve as a blueprint for future oncological research in Europe.

Daniel Maier[1,2], Fabienne A. U. Fox[1], Abishaa Vengadeswaran[3], Andrea Wolf[4], Christian Brandts[4], Daniel P. Brucker[4], Holger Storf[3], Janne Vehreschild[1,5,6], Timo Schneider[4], Dennis Kadioglu[3]

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THURSDAY

Vaccine effectiveness to prevent long COVID: A staggered cohort study using primary care electronic health records from the United Kingdom

(Martí Català, Núria Mercadé-Besora, Edward Burn, Trishna Rathod-Mistry, Kristin Kostka, Wai Man, Antonella Delmestri, Talita Duarte-Salles, Daniel Prieto-Alhambra, Annika M. Jödicke)

COVID-19 vaccines reduce risk for Long COVID symptoms

The Effectiveness of COVID-19 Vaccines to Prevent Long COVID Symptoms: Staggered Cohort Analyses of Data from the UK, Spain, and Estonia

Background While few studies previously assessed vaccine effectiveness to prevent long-term complications in people with COVID-19, effect estimates varied greatly between studies, largely depending on the long covid definition used, study setting and study size. Moreover, the effect of vaccines to prevent COVID-19 infections in the first place was not captured. The objective of this study was therefore to assess the impact of vaccination to prevent long COVID on the population level.

Results
A total 1,618,395; 5,729,915; 2,744,821 and 77,603 vaccinated people and 1,640,371; 5,860,564; 2,588,518 and 302,267 unvaccinated people were included from CPRD GOLD (UK), CPRD AURUM (UK), SIDIAP (Spain) and CORIVA (Estonia), respectively. Among those, 6-21%, 9-33%, 26-34% and 31-39% were included in staggered cohorts 1-4.

Among the vaccinated people, 59%, 56%, 15% and 6% were vaccinated with ChAdOx1 and 38%, 40%, 66% and 74% were vaccinated with BNT162b2, respectively.

Protective effects against development of long COVID was found associated with vaccination across all studies (Figure 1). Overall sHR were 0.55 [95%CI 0.46-0.65], 0.64 [0.55-0.74], 0.84 [0.75-0.93] and 0.62 [0.49-0.78] respectively.

Data sources
- Primary care electronic health records from the UK (CPRD GOLD and CPRD AURUM)
- Primary care records linked to hospital admissions data from Catalonia, Spain (SIDIAP),
- National health claims from Estonia (CORIVA)
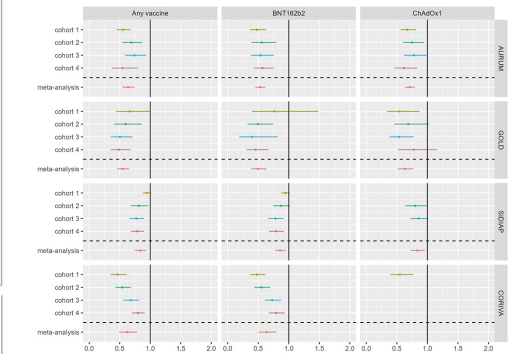All data was mapped to the OMOP CDM.

Figure 1: Forest plots for vaccine effectiveness against long COVID depicting calibrated subdistribution Hazard Ratios (hr) from CPRD GOLD, CPRD AURUM, SIDIAP and CORIVA for cohorts 1-4 and meta-analyses. Panel (a): vaccinated (any) vs. unvaccinated, (b) BNT162b2 vs. unvaccinated, (c) ChAdOx1 vs. unvaccinated
Figure from: Català et al. The Effectiveness of COVID-19 Vaccines to Prevent Long COVID Symptoms: Staggered Cohort Analyses of Data from the UK, Spain, and Estonia. Available in SSRN: http://dx.doi.org/10.2139/ssrn.4474215

Methods

Study design, participants, and vaccination
As people became eligible for receiving their first vaccine dose at different times, this study was designed as a staggered cohort study. Four study cohorts were created, each of them representing a specific stage of the vaccination campaign. All adults registered for at least 180 days as of 01/2021 (UK), 02/2021 (Spain) and 01/2021 (Estonia) comprised the source population. Vaccination status was used as a time-varying exposure, staggered by vaccine rollout period. Vaccinated people were further classified by vaccine brand according to their first dose received. Vaccinated people were further classified by the vaccine brand (ChAdOx1 vs. BNT162b2) they received for their first vaccine dose.

Main outcome measures
Long COVID was primarily defined as a recording of at least one WHO-listed symptoms ≥ 90 days following SARS-CoV-2 infection, with no history of that symptom in the previous 180 days. Concept sets for long COVID symptoms developed for OMOP mapped data were used from previous work.

Statistical analyses
Analyses were conducted separately for each database using the same analytic code developed for data mapped to the OMOP CDM. Informed by previous methodological work, we used propensity score overlap weighting applied separately for each study to balance covariates between exposure groups. Subdistribution Hazard Ratios (sHR) were calculated using Fine-and-Gray model to account for death as competing risk to developing post-COVID-19 complications. Subsequently, effect estimates were calibrated using Negative Control Outcomes to account for residual confounding. Random effects meta-analyses across staggered cohorts were conducted to pool overall effect estimates

Read our preprint

Martí Català, Núria Mercadé-Besora, Raivo Kolde, Nhung TH Trinh, Elena Roel, Edward Burn, Trishna Rathod-Mistry, Kristin Kostka, Wai Yi Man, Antonella Delmestri, Hedvig ME Nordeng, Anneli Uusküla, Talita Duarte-Salles, Daniel Prieto-Alhambra, **Annika M Jödicke**

marti.catalasabate@ndorms.ox.ac.uk

OHDSI Shoutouts!

Any shoutouts from the community? Please share and help promote and celebrate OHDSI work!

Do you have anything you want to share? Please send to sachson@ohdsi.org so we can highlight during this call and on our social channels.
Let's work together to promote the collaborative work happening in OHDSI!

Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?

Upcoming Workgroup Calls

Date	Time (ET)	Meeting
Tuesday	6 pm	Eyecare & Vision Research
Wednesday	9 am	Patient-Level Prediction
Wednesday	2 pm	Natural Language Processing
Thursday	8 am	India Chapter
Thursday	9:30 am	Data Network Quality
Friday	9 am	GIS – Geographic Information System Development
Friday	10:30 am	Open-Source Community
Friday	11:30 am	Steering Group
Friday	1 pm	Clinical Trials
Monday	9 am	Vaccine Vocabulary
Monday	10 am	Africa Chapter
Monday	11 am	Data Bricks User Group
Monday	6 pm	OMOP & FHIR

Global Symposium

Oct. 20-22 • East Brunswick, NJ, USA
Hilton East Brunswick Hotel & Executive Meeting Center

bit.ly/OHDSI2023Registration

Titan Award Nominations Are Open!

To recognize OHDSI collaborators (or collaborating institutions) for their contributions towards OHDSI's mission, the OHDSI Titan Awards were introduced at the 2018 Symposium and have been handed out at the Global Symposium each year since.

bit.ly/2023TitanNominations

OHDSI HADES releases: DatabaseConnector 6.2.4

DatabaseConnector 6.2.4 | Reference | Articles ▾ | Changelog | 🏛HADES | ⚙

DatabaseConnector

R-CMD-check `passing` | codecov `59%` | CRAN `6.2.4` | downloads `3356/month`

DatabaseConnector is part of HADES.

Introduction

This R package provides function for connecting to various DBMSs. Together with the `SqlRender` package, the main goal of `DatabaseConnector` is to provide a uniform interface across database platforms: the same code should run and produce equivalent results, regardless of the database back end.

Features

- Create connections to the various database platforms:
  - MicrosoftSQL Server
  - Oracle
  - PostgresSql
  - Microsoft Parallel Data Warehouse (a.k.a. Analytics Platform System)
  - Amazon Redshift
  - Apache Impala

Links

View on CRAN

Browse source code

Report a bug

Ask a question

License

Apache License

Citation

Citing DatabaseConnect

Developers

Martijn Schuemie
Author, maintainer

Marc Suchard
Author

More about authors...

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OHDSI HADES releases: CAPR 2.0.7

Capr **2.0.6** Reference Articles ▾ Changelog 🏛HADE

Capr

Capr is part of HADES

Introduction

The goal of Capr, pronounced 'kay-pr' like the edible flower, is to provide a language for expressing OHDSI Cohort definitions in R code. OHDSI defines a cohort as "a set of persons who satisfy one or more inclusion criteria for a duration of time" and provides a standardized approach for defining them (Circe-be). Capr exposes the standardized approach to cohort building through a programmatic interface in R which is particularly helpful when creating a large number of similar cohorts. Capr version 2 introduces a new user interface designed for readability with the goal that Capr code being a human readable description of a cohort while also being executable on an OMOP Common Data Model.

Learn more about the OHDSI approach to cohort building in the cohorts chapter of the Book of OHDSI.

Installation

Links

Browse source code

Report a bug

Ask a question

License

Full license

Apache License (>= 2)

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Develo

Martin Law

Author

Adam Blac

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OHDSI HADES releases: DeepPatientLevelPrediction 2.0.0

DeepPatientLevelPrediction 2.0.0

- New backend which uses pytorch through reticulate instead of torch in R
- All models ported over to python
- Dataset class now in python
- Estimator class in python
- Learning rate finder in python
- Added input checks and tests for wrong inputs
- Training-cache for single hyperparameter combination added
- Fixed empty test for training-cache

Openings at Boehringer Ingelheim

Opening: Postdoctoral Associate/Data Analyst

Job Announcement: Postdoctoral Associate/Data Analyst - LEGEND Hypertension Project

Position: Postdoctoral Associate/Data Analyst

Organization: Yale University, School of Medicine

Location: 195 Church Street, 5th floor, New Haven, CT, 06510

Application Deadline: Rolling basis

Job Description:

We are seeking a talented and dedicated Postdoctoral Associate/Data Analyst to join our dynamic team. In this role, you will play a pivotal part in advancing our mission of improving health outcomes through data-driven research. You will have the opportunity to work with diverse healthcare datasets, develop innovative analytical methods, and collaborate with experts in the field.

The Postdoctoral Associate/Data Analyst should possess significant experience in R and Rstudio, with specific expertise in database management using PostgreSQL—critical requirements within the OHDSI network. Your responsibilities will include assisting the Principal Investigator (Dr. Yuan Lu from Yale University) and Co-Investigator (Drs. Marc Suchard from UCLA) in creating the analytic tool stack and performing related analyses.

Key Responsibilities:

- Collaborate with multidisciplinary teams to design and execute data analysis projects.
- Develop and implement statistical and machine learning models for healthcare data.
- Perform data extraction and preprocessing tasks to prepare datasets for analysis.
- Conduct exploratory data analysis and visualization to extract insights from healthcare data.
- Assist in the development and maintenance of OHDSI's open-source tools and resources.
- Communicate findings and insights through reports, presentations, and publications.
- Stay up-to-date with the latest advancements in data science and healthcare informatics.

Email: y.lu@yale.edu

Where Are We Going?

**Any other announcements
of upcoming work, events,
deadlines, etc?**

the journey

Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?

the journey

Global Symposium

Oct. 20-22 • East Brunswick, NJ, USA
Hilton East Brunswick Hotel & Executive Meeting Center

ohdsi.org/OHDSI2023

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Global Symposium Conference Agenda

Column 1

Time	Topic
7:30 - 8:30 am East Brunswick Room + Grand Ballroom Foyer	Symposium Registration, Lite Breakfast Buffet, All-Day Exhibits
8:30 - 9:30 am Grand Ballroom	State of the Community OHDSI: Where have we been? Where are we going? George Hripcsak, Columbia Univ. Community Highlights: • OMOP CDM users and the OHDSI data network Clair Blacketer, Johnson & Johnson • OHDSI standardized vocabularies Alexander Davydov, Odysseus Data Services • OHDSI's open-source community Katy Sadowski, Boehringer Ingelheim • OHDSI Europe 2024 Peter Rijnbeek, Erasmus MC • OHDSI Asia-Pacific 2024 Mengling Feng, National Univ. of Singapore
9:30 - 10:30 am Grand Ballroom	OHDSI Community Networking Moderators: • Faaizah Arshad, Univ. of California-Los Angeles • Cynthia Sung, Duke-NUS Medical School
10:30 am - 12:00 pm Grand Ballroom	Plenary: Improving the reliability and scale of case validation Presenters: • Patrick Ryan, Johnson & Johnson, Columbia Univ. • Anna Ostropolets, Odysseus Data Services • Martijn Schuemie, Johnson & Johnson, Univ. of California-Los Angeles
12:00 pm - 1:00 pm Grand Ballroom Foyer	Buffet Lunch

All events take place at the Grand Ballroom Level • Exhibits will be available throughout the day

Column 2

Time	Topic
1:00 pm - 2:00 pm Grand Ballroom	Panel: Lessons learned from OHDSI network studies Presenters: • Insights from LEGEND-T2DM Marc Suchard, Univ. of California-Los Angeles • Intravitreal anti-VEGF and risk of kidney failure: A Sisyphus Challenge Study Cindy X Cai, Johns Hopkins Univ. • Fluoroquinolones and the risk of aortic aneurysm: A Sisyphus Challenge study Seng Chan You, Yonsei Univ. • Lessons learned applying the Strategus framework across the OHDSI network Anthony Sena, Johnson & Johnson Moderator: Sarah Seager, IQVIA
2:00 pm - 2:45 pm Grand Ballroom	Collaborator Showcase, Lightning Talk Session #1: Data Standards and Methods Research • Mapping of Critical Care EHR Flowsheet data to the OMOP CDM via SSSOM Polina Talapova, SciForce • Paving the way to estimate daily dose in OMOP CDM for Drug Utilisation Studies in DARWIN EU® Theresa Burkard, Univ. of Oxford • Generating Synthetic Electronic Health Records in OMOP using GPT Chao Pang, Columbia Univ. • Comparing concepts extracted from clinical Dutch text to conditions in the structured data Tom Seinen, Erasmus MC • Finding a constrained number of predictor phenotypes for multiple outcome prediction Jenna Reps, Johnson & Johnson Moderator: Davera Gabriel, Johns Hopkins University
2:45 - 3:30 pm Grand Ballroom	Collaborator Showcase, Poster / Demo Session #1 Poster walk leads: • Data standards: Mui Van Zandt, IQVIA • Methods research: Christophe Lambert, Univ. of New Mexico • Open-source development: Paul Nagy, Johns Hopkins Univ. • Clinical applications: Kristin Kostka, Northeastern University

All events take place at the Grand Ballroom Level • Exhibits will be available throughout the day

Column 3

Time	Topic
3:30 pm - 4:15 pm Grand Ballroom	Collaborator Showcase, Lightning Talk Session #2: Methods Research and Clinical Applications • Synthesizing Evidence for Rare Events: a Novel Zero-Inflated Bivariate Model to Integrate Studies with Double-Zero Outcomes Lu Li, Univ. of Pennsylvania • Active Safety Surveillance Using Real-world Evidence (ASSURE): An application of the Strategus package Kevin Haynes, Johnson & Johnson • Patient's outcomes after endoscopic retrograde cholangiopancreatography (ERCP) using reprocessed duodenoscope: a descriptive study using real-world data Jessica Maruyama, Precision Data • Quantification of Racial Differences in Post-acute Sequelae of SARS-CoV-2 Infection (PASC) in Children: an EHR-Based Cohort from the RECOVER Program Bingyu Zhang, Univ. of Pennsylvania • Eye Care and Vision Research Workgroup: First Year Update Michelle Hribar, National Institutes of Health – National Eye Institute Moderator: Atif Adam, IQVIA
4:15 - 5:00 pm Grand Ballroom	Collaborator Showcase, Poster / Demo Session #2 Poster walk leads: • Data standards: Melanie Philofsky, Odysseus Data Services • Methods research: Andrew Williams, Tufts Univ. • Open-source development: Nsikak Akpakpan, Accenture • Clinical applications: Hanieh Razzaghi, Childrens Hospital of Pennsylvania
5:00 pm - 6:00 pm Grand Ballroom	Closing session: Scaling community, scaling collaboration • Titan Awards • Group Photo Presenter Patrick Ryan, Johnson & Johnson, Columbia Univ.
6:00 pm - 7:00 pm East Brunswick Room Grand Ballroom Foyer	Networking Reception and Exhibits
7:00 pm - 8:00 pm Grand Ballroom	OHDSI Got Talent!

Global Symposium Weekend Agenda

	Friday, Oct. 20	Saturday, Oct. 21	Sunday, Oct. 22
7:30 am	Registration/Lite Breakfast	Lite Breakfast	Lite Breakfast
8:30 am	Welcome to OHDSI2023: State of the Community	Intro to OHDSI Tutorial & OHDSI Workgroup Activities	OHDSI collaborative workshop: HowOften (part 2)
9:30 am	Community Networking		
10:30 am	Plenary Session		
12:00 pm	Buffet Lunch	Buffet Lunch + Collaborator Showcase: Posters & Demos	Buffet Lunch + Collaborator Showcase: Posters & Demos
1:00 pm	Panel: Network Studies	OHDSI collaborative workshop: HowOften (part 1)	OHDSI workgroup activites
2:00 pm	Collaborator Showcase: Lightning Talks		
2:45 pm	Collaborator Showcase: Posters & Demos		
3:30 pm	Collaborator Showcase: Lightning Talks		
4:15 pm	Collaborator Showcase: Posters & Demos		
5:00 pm	Closing Talk & Titan Awards	Free time	We'll see you again in 2024!
6:00 pm	Networking Reception		
7:00 pm	OHDSI Got Talent!		

this agenda is tentative and subject to change

Global Symposium

2023 OHDSI Global Symposium

Friday, October 20 – Sunday, October 22
Hilton East Brunswick Hotel and Meeting Center

Friday, October 20

Start	End Time
7:00	8:00
8:00	9:00
9:00	10:00
10:00	11:00
11:00	12:00
12:00	13:00
13:00	14:00
14:00	15:00
15:00	16:00
16:00	17:00
17:00	18:00
18:00	19:00
19:00	20:00

Grand Ballroom
- Registration/ Light Breakfast
- Welcome to OHDSI2023
- State of the Community
- Community Networking/ Meet the Mentors
- Plenary Session
- Buffet Lunch
- Panel: Network Studies
- Collaborator Showcase - Posters and Software Demonstrations
- Collaborator Showcase - Lightning Talks
- Collaborator Showcase - Posters and Software Demonstrations
- Closing Talk
- Networking Reception
- OHDSI Got Talent!

Exhibits

Saturday, October 21

Start	End Time
8:00	9:00
9:00	10:00
10:00	11:00
11:00	12:00
12:00	13:00
13:00	14:00
14:00	15:00
15:00	16:00
16:00	17:00

Grand Ballroom
- Introduction to OHDSI Tutorial
- Collaborator Showcase (and buffet lunch)
- HowOften Large-scale Characterization Workshop

Exhibits

Industry Special Interest | Perinatal & Reproductive | Oncology | HADES | CDM/Network Data Quality | Health Equity | Phenotype Evaluation | Medical Imaging | Natural Lang. Processing

Sunday, October 22

Start	End Time
8:00	9:00
9:00	10:00
10:00	11:00
11:00	12:00
12:00	13:00
13:00	14:00
14:00	15:00
15:00	16:00
16:00	17:00

Grand Ballroom
- HowOften Large-scale Characterization Workshop
- Collaborator Showcase (and buffet lunch)

Exhibits

Psychiatry | Healthcare Systems | Vocabularies | HADES | HL7 FHIR-OMOP Connectathon | Education | Medical Devices | Eye care & Vision Research | ISPE-RWE For Pharmacovigilance

Global Symposium Conference Agenda

8:30 - 9:30 am **Grand Ballroom**	**State of the Community** **OHDSI: Where have we been? Where are we going?** George Hripcsak, Columbia Univ. **Community Highlights:** • **OMOP CDM users and the OHDSI data network** Clair Blacketer, Johnson & Johnson • **OHDSI standardized vocabularies** Alexander Davydov, Odysseus Data Services • **OHDSI's open-source community** Katy Sadowski, Boehringer Ingelheim • **OHDSI Europe 2024** Peter Rijnbeek, Erasmus MC • **OHDSI Asia-Pacific 2024** Mengling Feng, National Univ. of Singapore
9:30 - 10:30 am **Grand Ballroom**	**OHDSI Community Networking** **Moderators:** • Faaizah Arshad, Univ. of California-Los Angeles • Cynthia Sung, Duke-NUS Medical School

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Global Symposium Conference Agenda

10:30 am - 12:00 pm **Grand Ballroom**	**Plenary: Improving the reliability and scale of case validation** **Moderators:** • Patrick Ryan, Johnson & Johnson, Columbia Univ. • Anna Ostropolets, Odysseus Data Services • Martijn Schuemie, Johnson & Johnson, Univ. of California-Los Angeles
1:00 pm - 2:00 pm **Grand Ballroom**	**Panel: Lessons learned from OHDSI network studies** **Presenters:** • Insights from LEGEND-T2DM Marc Suchard, Univ. of California-Los Angeles • Intravitreal anti-VEGF and risk of kidney failure: A Sisyphus Challenge Study Cindy X Cai, Johns Hopkins Univ. • Fluoroquinolones and the risk of aortic aneurysm: A Sisyphus Challenge study Seng Chan You, Yonsei Univ. • Lessons learned applying the Strategus framework across the OHDSI network Anthony Sena, Johnson & Johnson **Moderator:** Sarah Seager, IQVIA

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Global Symposium Conference Agenda

2:00 pm - 2:45 pm **Grand Ballroom**	**Collaborator Showcase, Lightning Talk Session #1:** **Data Standards and Methods Research** • **Mapping of Critical Care EHR Flowsheet data to the OMOP CDM via SSSOM** Polina Talapova, SciForce • **Paving the way to estimate daily dose in OMOP CDM for Drug Utilisation Studies in DARWIN EU®** Theresa Burkard, Univ. of Oxford • **Generating Synthetic Electronic Health Records in OMOP using GPT** Chao Pang, Columbia Univ. • **Comparing concepts extracted from clinical Dutch text to conditions in the structured data** Tom Seinen, Erasmus MC • **Finding a constrained number of predictor phenotypes for multiple outcome prediction** Jenna Reps, Johnson & Johnson **Moderator:** Davera Gabriel, Johns Hopkins University
2:45 - 3:30 pm **Grand Ballroom**	**Collaborator Showcase, Poster / Demo Session #1** **Poster walk leads:** • **Data standards:** Mui Van Zandt, IQVIA • **Methods research:** Christophe Lambert, Univ. of New Mexico • **Open-source development:** Paul Nagy, Johns Hopkins Univ. • **Clinical applications:** Kristin Kostka, Northeastern University

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Global Symposium Conference Agenda

5:00 pm - 6:00 pm Grand Ballroom	**Closing session: Scaling community, scaling collaboration** 　· Titan Awards 　· Group Photo Presenter **Patrick Ryan, Johnson & Johnson, Columbia Univ.**
6:00 pm - 7:00 pm East Brunswick Room Grand Ballroom Foyer	**Networking Reception and Exhibits**
7:00 pm - 8:00 pm Grand Ballroom	**OHDSI Got Talent!**

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2023 Global Symposium OMOP + FHIR Connectathon

Goals

OMOP + FHIR WG OKR:
- ◆ Hands-on event: draft specification support

Generate community crowdsourced maps for common, core EHR data
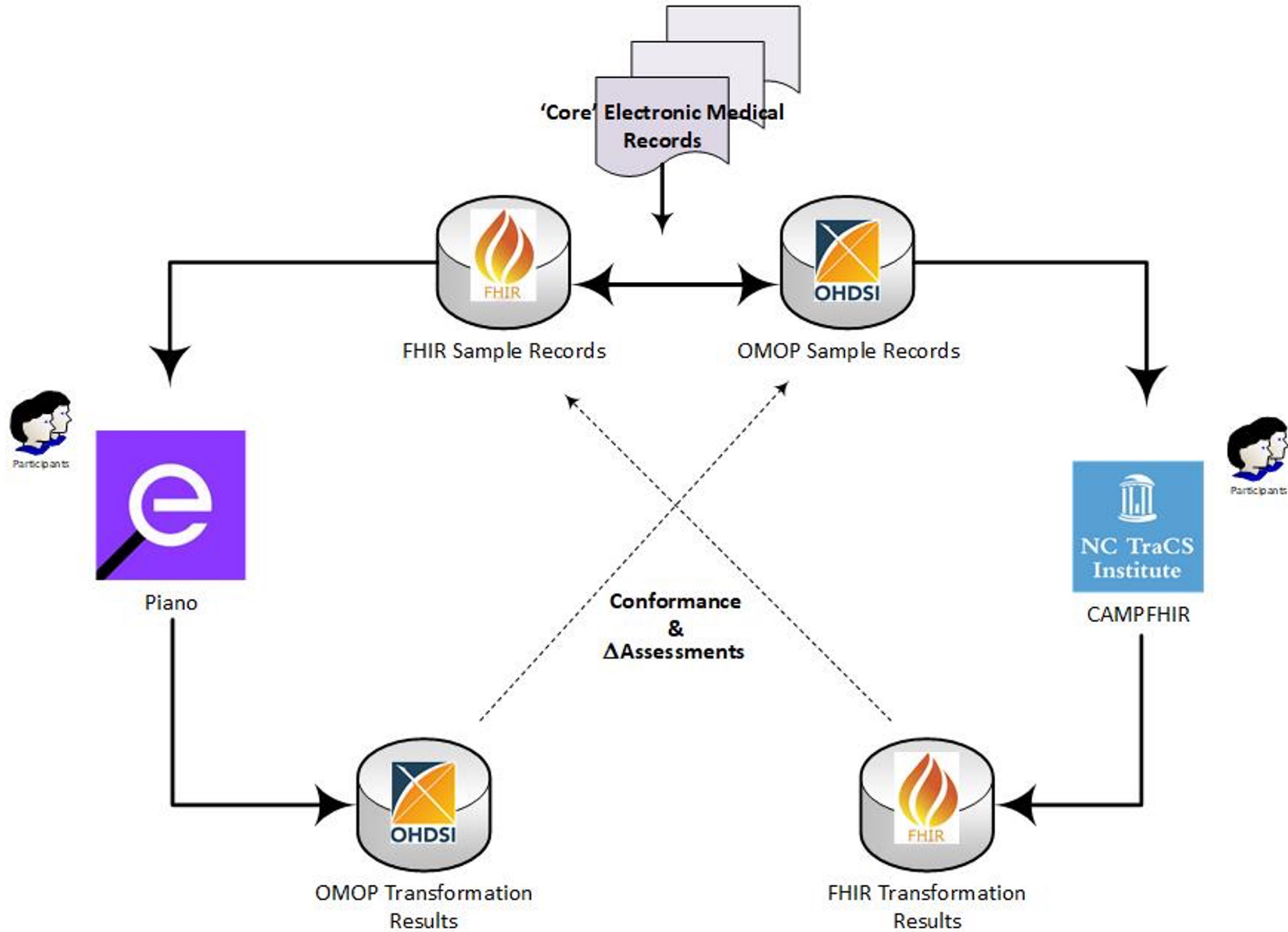
Persistent Reference implementations
- ◆ To identify transformation
  - ● Best practices
  - ● Gaps to be addressed
- ◆ Support iterative subsequent events

Participant Perks

- ◆ Low-risk data transformation experience - suitable for all

- ◆ Hands-on 2 transformation tools

- ◆ Learn about FHIR

2023 Global Symposium OMOP + FHIR Connectathon Agenda: Sunday, October 22

9:00- 10:00a	Welcome / Agenda review • Piano Workflow demo • CAMPFHIR workflow demo
10:00 - Noon	Hands-on transformations
Noon - 1:00p	LUNCH BREAK
1:00 - 2:00p	Preliminary OMOP -> FHIR Results • FHIR RESTful query demonstration
2:00 - 4:00p	Hands-on transformations
4:00 - 5:00p	Wrap-up, Next steps

2023 OMOP + FHIR Working Group & Connectathon Contributors
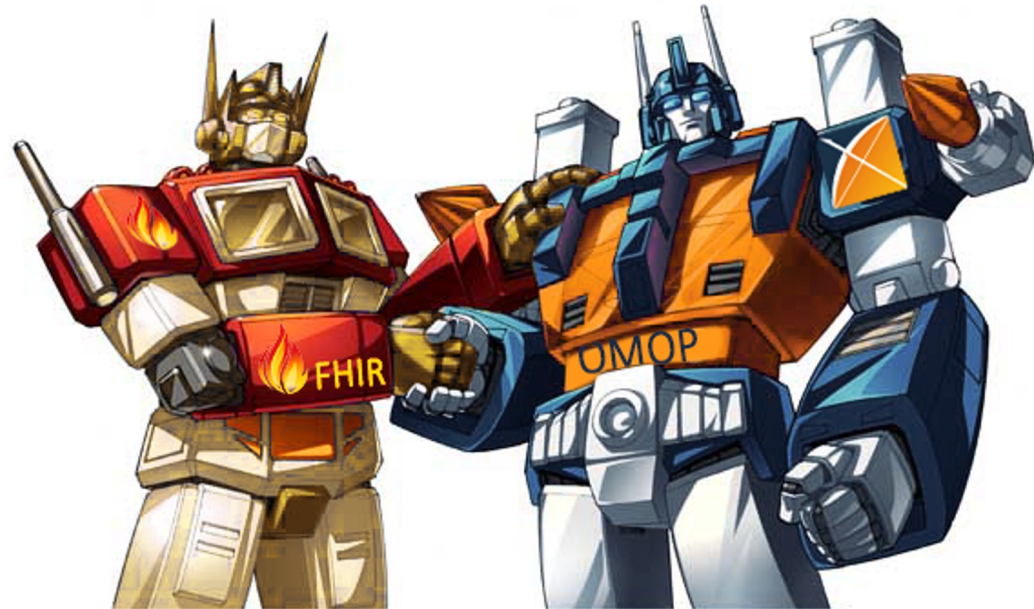
Adam Bouras	Gary Dickenson
Adam Lee	Guy Tsafnat
Amy Loriaux	Hayden Spence
Andy Kanter	Henry Ogoe
Ann Phillips	Joe Flack
Anna Jojic	Mike Hamidi
Ben Hamlin	Morgan Vaterkowski
Ben Smith	Shahim Essaid
Chris Roeder	Thomas White
Christian Reich	Wesley Anderson
Davera Gabriel	Will Roddy

Global Symposium

Hotel Information and Sleeping Room Block

Hotel: Hilton East Brunswick Hotel & Executive Meeting Center
Address: 3 Tower Center Blvd. East Brunswick, New Jersey, 08816
Hotel Main Number: (732) 828-2000
Reservations Toll Free: 1-800-HILTONS (1-800-445-8667) **When calling, please refer to the OHDSI Symposium**

You may book your hotel sleeping room for the symposium by using the link below. Please note that the room rate may fluctuate after the room block fills up.

If you have booked a sleeping room in the OHDSI room block at the discounted rate, we ask that you do not cancel your reservation, If you must cancel it, please contact us first at symposium@ohdsi.org by September 15, so we can offer it to another OHDSI community member.

OHDSI GUEST ROOM BLOCK: Available Rooms – Hilton East Brunswick Hotel & Executive Meeting Center

Exhibitor Information

For a second consecutive year, the OHDSI Global Symposium will offer a limited number of opportunities for exhibitors. Organizations that provide professional products and services to members of the OHDSI community are encouraged to apply. When inquiring about exhibit space, please explain how your product/service connects to the OMOP CDM, OHDSI tools or OHDSI stakeholders. Exhibitors will be provided a dedicated space during the symposium weekend, with a 6-ft table, two chairs, and a sign. A listing of exhibitors will be provided as part of the final program to all attendees; to inquire about reserving an exhibitor space, please contact symposium@ohdsi.org.

Frequently Asked Questions (FAQs)

Please check out this document on FAQs about the 2023 Global Symposium. If you have other questions not addressed here, please contact symposium@ohdsi.org.

2023 Symposium FAQs

What modes of transportation can I take to the hotel?
Airports (please note that there are no airport shuttles to/from the hotel)

Newark Liberty International Airport (EWR) is approximately 25 minutes (22 Miles) to the hotel. Please see this link for additional airport information
EWR - Newark Liberty International Airport (newarkairport.com)

Please see this link below for driving directions from Newark Int'l Airport to the Hilton East Brunswick
Newark Liberty International Airport to Hilton East Brunswick Hotel & Executive Meeting Center - Google Maps

For other modes of transportation from Newark Int'l Airport to the hotel, you can check out this link Newark Airport (EWR) to Hilton East Brunswick (rome2rio.com)

La Guardia Airport (LGA) is approximately one hour (50 miles) to the hotel. Please note that in traffic this travel time can be significantly longer. Please see this link for additional airport information LGA - LaGuardia Airport

Please see this link below for driving directions from La Guardia Airport to the Hilton East Brunswick
LaGuardia Airport (LGA), Queens, NY to 3 Tower Center Blvd - Google Maps

For other modes of transportation from La Guardia Airport to the hotel, you can check out this link New York La Guardia Airport (LGA) to Hilton East Brunswick (rome2rio.com)

John. F. Kennedy International Airport (JFK) is approximately one hour (50 miles) to the hotel. Please note in traffic the travel time can be significantly longer. Please see this link for additional airport information JFK - John F. Kennedy International Airport (jfkairport.com)

Please see this link below for driving directions from JFK Int'l Airport to the Hilton East Brunswick
JFK Airport (JFK), Queens, NY to 3 Tower Center Blvd - Google Maps

For other modes of transportation from JFK to the hotel, you can check out this link New York JFK Airport (JFK) to Hilton East Brunswick (rome2rio.com)

Philadelphia International Airport (PHL) is approximately 1.5 hours (70 miles) to the hotel. Please note that in traffic this travel time can be significantly longer. Please see this link

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What events are taking place in New York City in October?
New York City has many events year-round in all 5 boroughs, Long Island, update New York, and neighboring states (like Connecticut and New Jersey). Below are some links to find events, tours, parks, Broadway shows, best 2023 or oldest restaurants, and the many diverse neighborhoods in NYC.
NYC Events October 2023 | New York, NY
New York City: Tours and Tickets - Tripadvisor
The 16 Best Parks to Enjoy All Year Round in NYC | Best NYC Parks (timeout.com)
Broadway Tickets | Broadway Shows | Theater Tickets | Broadway.com
The 18 Best NYC Restaurants To Visit In 2023 (tastingtable.com)
11 Oldest Restaurants in NYC (Open Since the 19th Century!) (familydestinationsguide.com)
New York City Neighborhoods | The Official Guide to New York City (nycgo.com)

Please click the hotel link below to find out more about the amenities offered at the Hilton East Brunswick Hotel and Executive Meeting Center
Hilton East Brunswick Hotel & Meeting Center

Need more information regarding the 2023 OHDSI Symposium? Please email us at symposium@ohdsi.org. We will try to get back to you within 48 hours.
Observational Health Data Sciences & Informatics
Department of Biomedical Informatics
Columbia University Medical Center
622 West 168th Street, PH-20
New York, NY 10032

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