



# OHDSI & Clinical Registries: Sanity for Health Systems

OHDSI Community Call  
Aug. 22, 2023 • 11 am ET



# Upcoming Community Calls

Date	Topic
Aug. 22	OMOP Supporting Clinical Registries
Aug. 29	Vocabulary Release Update
Sept. 5	DARWIN EU <sup>®</sup> Progress and Roadmap
Sept. 12	OHDSI 2023 Global Symposium Conference & Activities Preview
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 **Madeline Adelman, Torunn Sivesind, Isaac Weber, Grace Bosma, Camille Hochheimer, Chante Karimkhani, Lisa Schilling, John Barbieri, Robert Dellavalle** on the publication of **Prescribing Patterns of Oral Antibiotics and Isotretinoin for Acne in a Colorado Hospital System: Retrospective Cohort Study** in *JMIR Dermatology*.

**JMIR Publications**  
Advancing Digital Health & Open Science

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Published on 21.8.2023 in Vol 6 (2023)

Preprints (earlier versions) of this paper are available at <https://preprints.jmir.org/preprint/42883>, first published October 07, 2022.



**Prescribing Patterns of Oral Antibiotics and Isotretinoin for Acne in a Colorado Hospital System: Retrospective Cohort Study**

Madeline J Adelman<sup>1</sup>; Torunn E Sivesind<sup>1</sup>; Isaac Weber<sup>2</sup>; Grace Bosma<sup>3</sup>; Camille Hochheimer<sup>3</sup>; Chante Karimkhani<sup>4</sup>; Lisa M Schilling<sup>5</sup>; John S Barbieri<sup>6</sup>; Robert P Dellavalle<sup>1, 7, 8</sup>

Article	Authors	Cited by	Tweetatons (2)	Metrics
<ul style="list-style-type: none"> <li>Abstract</li> <li>Introduction</li> <li>Methods</li> <li>Results</li> <li>Discussion</li> <li>References</li> <li>Abbreviations</li> <li>Copyright</li> </ul>				

**Abstract**

**Background:**  
Guidelines established by the American Academy of Dermatology recommend oral antibiotics as first-line therapy for mild, moderate, and severe acne. However, it is recommended to minimize the duration of oral antibiotic use, and there is increasing support for other systemic agents for acne.

**Objective:**  
We sought to characterize the use of oral antibiotics and isotretinoin for the treatment of acne in the pediatric and young adult population aged 10 through 20 years and the adult population aged 21 to 45 years from 2011 to 2019.

**Methods:**  
We conducted a retrospective, observational cohort study using electronic data from the enterprise data warehouse of the University of Colorado Anschutz Medical Campus and its affiliates, with data in the format of the Observational Health Data Sciences and Informatics (OHDSI) Observational Medical Outcomes Partnership (OMOP) common data model. Categorical values (sex, race, and ethnicity) were compared using chi-square tests, and continuous variables (age) were compared





# #OHDSISocialShowcase



[ohdsi.org/europe2023-showcase](https://ohdsi.org/europe2023-showcase)





# #OHDSISocialShowcase

## 2023 Europe Symposium Collaborator Showcase

1	<a href="#">The EHDEN Portal – Simplifying the access to OMOP CDM databases</a>	João Rafael Almeida, Nigel Hughes, Peter Rijnbeek, José Luis Oliveira
2	<a href="#">Privacy-preserving using k-anonymity and l-diversity in OMOP CDM databases</a>	João Rafael Almeida, José Luis Oliveira
3	<a href="#">The Dutch ICU Data Warehouse: towards a standardized multicenter electronic health record database</a>	Ameet Jagesar, Martijn Otten, Tariq Dam, Laurens Biesheuvel, Patrick Thorat, Armand Girbes, Harm-Jan de Grooth, Paul Elbers
4	<a href="#">Community Contribution to the OHDSI Vocabularies, User-Level QA and a New Entity Mapping System SSSOM</a>	Oleg Zhuk, Anna Ostroplets, Nicolas Matentzoglou, Melissa Haendel, Alexander Davydov, Christian Reich
5	Extract, Transform, and Load of the Infectious Disease CDM for Harmonizing and Accessing Data in Real-time Infectious Disease Surveillance	Byungjin Choi, Junhyuk Chang, Soobeen Seol, Seongwon Lee, Rae Woong Park
6	<a href="#">Roadmap and improvement of OHDSI Vocabularies</a>	Christian Reich, Alexander Davydov, Anna Ostroplets
7	<a href="#">Integrating the OMOP CDM into the AI Sandbox of the German Health Data Lab</a>	Eiham Taghizadeh, Maxim Moinat

18	<a href="#">Hierarchical clustering of microbial resistance profiles and ventilation protocols using the oncology extension</a>	Jared Houghtaling, Frederic Jung, Ankur Krishnan, Marc Padros Goossens, Frank Leus, Lauren Maxwell, Tom Feusels, Freija Descamps
19	<a href="#">Capture and consolidation of renal specific concepts into a cohesive OMOP dataset</a>	Jared Houghtaling, Jose Antonio Ramirez Garcia, Clémence Le Correc, Lore Vermeylen, Nir Assaraf, Lars Halvorsen
20	<a href="#">Creation of a reusable OMOP transformation workflow for Belgian electronic health record systems</a>	Jared Houghtaling, Lore Vermeylen, Louise Vandenbroucke, Korneel Bernaert, Brecht Dekeyser, Freija Descamps
21	<a href="#">Construction of a central ontology platform for semantic mapping coordination and vocabulary augmentation across a multi-partner oncology consortium</a>	Jared Houghtaling, Peter Prinsen, Maaik van Swieten, Chiara Attanasio, Lars Halvorsen
22	<a href="#">Application of the R-CDM extension to capture metadata and features extracted from quantitative brain MRI and CT data</a>	Jelle Praet, Jared Houghtaling, Frederic Jung, Steve De Backer, Jeroen Pinxten and Dirk Smeets
23	<a href="#">NNRD-AI: a national neonatal research database for rapid insights with machine learning and artificial intelligence</a>	Julia Lanoue, Kayleigh Ougham, Neena Modi, Sam Greenbury
24	<a href="#">OMOP-CDM Data conversion for the Papageorgiou General Hospital in Greece</a>	Achilleas Chytas, Maria Bigaki, Pantelis Natsiavas
25	<a href="#">Development of a GA4GH Beacon for structured Clinical Data Discovery using the OMOP-CDM</a>	Alberto Labarga, Sergi Aguiló
26	<a href="#">Quality Management System of the OHDSI Standardized Vocabularies</a>	Vlad Korsik, Anna Ostroplets, Christian Reich, Alexander Davydov

### Open-source analytics development

46	<a href="#">CDMConnector: Cross platform OMOP CDM database queries using dplyr</a>	Adam Black, Edward Burn, Artem Gorbachev, Martí Català
47	<a href="#">Development of an OMOP Ontology Application – PROSA – for creation and maintenance of highly granular source concepts within the OMOP vocabulary structure</a>	Jared Houghtaling, Emma Gesquiere, and Lars Halvorsen
48	<a href="#">A method to facilitate rapid stand up of OMOP research tools from validated libraries for RWE research</a>	Jack Brewster
49	<a href="#">Generating Synthetic Data from OMOP-CDM databases for Health Applications</a>	Alberto Labarga, Sergi Aguiló
50	<a href="#">Performance Improvement of Post-ETL in OMOP CDM</a>	Antonella Delmestri

### Clinical applications

51	<a href="#">Drug utilisation of valproate-containing medicinal products in women of childbearing age: a network study part of DARWIN EU®</a>	Albert Prats-Urbe, Martí Català, Katia M Verhamme, Maria de Ridder, Carlen Reyes, Talita Duarte-Salles, Peter Rijnbeek, Edward Burn, Daniel Prieto-Alhambra, Annika M. Jödicke
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# #OHDSISocialShowcase

## MONDAY

# Measuring multimorbidity in IPCI: An analysis of more than 1.8 million patients

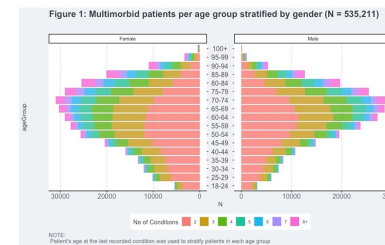
(Solomon Ioannou, Egill Fridgeirsson, Marcel de Wilde, Jan Kors, Peter Rijnbeek, Katia Verhamme)

## Prevalence of multimorbidity in IPCI was estimated to be at 29.23%.

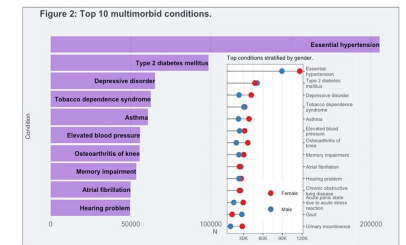
### Quantifying multimorbidity in IPCI: An analysis of more than 1.8 million people.

**Background:** Multimorbidity, the presence of multiple chronic conditions in an individual, is a growing global health concern. Multimorbidity is associated with increased healthcare utilization, higher costs, and poorer health outcomes such as mortality and disability. Using the general practitioner database IPCI, and OHDSI's standardized analytical tools, we perform Association Rule Mining to study multimorbidity prevalence and the most common multimorbid conditions.

Result 1: Number of conditions for each age group stratified by gender.



Result 2: Top 10 multimorbid conditions stratified by gender.



### Methods

1. We retrospectively extracted information from the Integrated Primary Care Information (IPCI) database, which contains electronic patient records from 350 General Practitioners in the Netherlands!
2. We define our cohort as "All patients in the database, above 18 years old, with an observation period starting any time before 31st December 2022 with at least one year of observation in the database."
3. We collected information based on a set of 75 conditions, which were identified by expert panels of GPs in Denmark using the ICPC-2 vocabulary<sup>2</sup>. We mapped those concepts to SNOMED resulting in a list of 151 distinct concept IDs and used them to quantify prevalence of multimorbidity. The conditions cover a wide range of categories that encompass various bodily systems and organs, incorporating prevalent chronic diseases such as cancer, hypertension, and dementia, as well as HIV, trauma, and lifestyle factors like tobacco and alcohol abuse.

#### References:

1. Maria A) de Ridder and others. Data Resource Profile: The Integrated Primary Care Information (IPCI) database, The Netherlands, *International Journal of Epidemiology*, Volume 51, Issue 6, December 2022, Pages e314–e323
2. N'Coran AA, Blaser J, Deruaz-Luyet A, Senn N, Frey P, Haller DM, Tandjung R, Zeller A, Burnand B, Herzog L. From chronic conditions to relevance in multimorbidity: a four-step study in family medicine. *Fam Pract*. 2016 Aug;33(4):439–44.

**Limitation:** To quantify multimorbidity, this study used the presence of concepts belonging to the definition of multimorbidity, instead of phenotype definitions. Additionally, the same person appearing in the study population more than once is a possibility.



Solomon Ioannou, Egill Fridgeirsson, Marcel de Wilde, Jan Kors, Peter Rijnbeek, Katia Verhamme







# #OHDSISocialShowcase

## WEDNESDAY

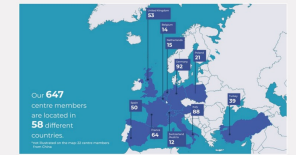
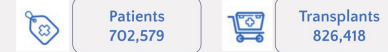
# Transforming EBMT Registry to the OMOP Common Data Model

(**Maria Paula Busto**, Marina Atlija, Freija Descamps, Ben Burke)

Transforming the EBMT dataset to OMOP-CDM 5.3 has been challenging. We have encountered technical and vocabulary challenges.

### Ongoing Transformation of the EBMT Registry to the OMOP CDM 5.3

**Background:** In April 2021, EBMT was granted funds from the EHDEN – Data Partner Call to map its registry data onto the OMOP CDM. Members of the EBMT are centres and individuals, active in the field of transplantation of any kind of haematopoietic cells, or any other organisation involved in the care of donors and recipients of haematopoietic cells.



### Results & Discussion

- ETL design is completed (see Figure 1) and is being tested and iterated on.
- ETL design driven by data size (> 4 million records)
- Mappings through SQL queries (memory-efficient)

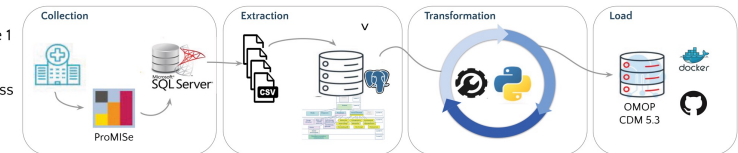
### Encountered Issues

- Handling special characters in free text
- Custom concepts for very specific collected items
- Technical challenges due to DB size
- Genomic concepts
- Dates

### Methods

The EBMT data is transformed to OMOP-CDM 5.3 through a custom-designed Extract-Transform-Load (ETL) process written primarily in the Python (v3.10) programming language. All transformations (source to PERSON, source to DEATH, etc.) are implemented in SQL and performed sequentially in an order predetermined based on table constraints and transformation dependencies.

Figure 1  
ETL  
Process



**Challenges:** We have encountered technical challenges as well as vocabulary mapping challenges along the way. Dedicated functions and tools were developed to handle the technical hurdles. Where needed, custom vocabulary concepts are being created to ensure that the granularity of the source data can be maintained. We look forward to finalizing the work and collaborating with other EHDEN data-partners.



EBMT: Maria Paula Busto, Marina Atlija  
Edence Health: Freija Descamps, Ben Burke







# #OHDSISocialShowcase

## THURSDAY

# A new route of administration hierarchy derived from dose forms supporting standardised drug dose calculations

(Theresa Burkard, Artem Gorbachev, Kim Lopez-Güell, Daniel Prieto-Alhambra, Martí Català, Christian Reich )

This new route of administration hierarchy, derived from and linked to dose forms of drugs will enable the use of route information in standardised analytics.

*A new route of administration hierarchy derived from dose forms supporting standardised drug dose calculations*

**Background:** Few observational databases provide route of administration records. In addition, the current route vocabulary, which was adopted from sources with different use cases in mind, proved insufficient to make clinically relevant categories for dose estimation and to our knowledge have largely been ignored in analytical use cases. The current system also provides no hierarchical relationships between different routes.

**Results:** We created a route of administration hierarchy with "systemic", "local", and "other" (undefinable through dose form) as top classifiers. Subclassifications and their hierarchy are shown in Figure 1.

Some examples are listed in Table 1, where we can see the new route categorisation per dose form.

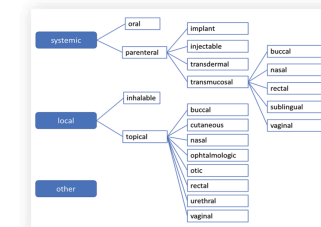


Figure 1. Suggested names and hierarchy of new route vocabulary

Table 1. Examples of suggested categorisation among the 214 existing dose form

Dose form concept id	Dose form extended name	Assigned route
1910320	12 hour Extended Release Capsule	oral
4623466	Auto-Injector	injectable
19082049	16 Hour Transdermal Patch	transdermal
40164192	Buccal Film	transmucosal - buccal
40220762	Sublingual Powder	transmucosal - sublingual
19127579	Dry Powder Inhaler	inhalable
19135446	Augmented Topical Gel	topical - cutaneous
43564008	Nasal Pin	topical - nasal
779945	Drug-Eluting Contact Lens	topical - ophthalmologic
19082194	Otic Ointment	topical - otic
19082574	Rectal Foam	topical - rectal
21014179	Vaginal delivery system	topical - vaginal

The frequency and proportion of unique drug concept ids per newly suggested routes in CPRD GOLD and CPRD AURUM are depicted in Table 2.

Table 2. Most frequent unique drug concept ids in the drug strength table of CPRD GOLD and CPRD AURUM that would be linked to the newly suggested route

Route	CPRD GOLD unique drug concept ids, n (%)	CPRD AURUM unique drug concept ids, n (%)
oral	906'064 (48.9%)	929'935 (48.7%)
injectable	365'685 (19.7%)	378'384 (19.8%)
has no dose form	261'108 (14.1%)	272'888 (14.3%)
topical - cutaneous	171'165 (9.2%)	174'156 (9.1%)
topical - ophthalmologic	42'344 (2.3%)	43'260 (2.3%)
inhalable	28'121 (1.5%)	29'297 (1.5%)
transdermal	13'752 (0.7%)	14'050 (0.7%)
topical - vaginal	11'917 (0.6%)	12'258 (0.6%)

**Methods:** We obtained all existing dose forms from ATHENA (searching for "Drug" domain, "dose form" concept class, "valid" flag and "RxNorm Extension" and "RxNorm" vocabularies). Based upon their name and looking at the actual drugs linked to them, we suggest a route for each dose form. TB (pharmacist) and AG (medical doctor) did this review independently and met for a consensus meeting with CR in which also the level, hierarchies, categories, and names of routes were defined.

**Limitation:** Most dose forms can be unambiguously assigned to a route of administration, but there are exceptions where we had to make a choice. Our review had a focus on systemic administrations because they are more relevant for dose estimations - topical administration faces surface tissue and dosing is therefore less stringent.



Theresa Burkard<sup>1</sup>, Artem Gorbachev<sup>2</sup>, Kim Lopez-Güell<sup>1</sup>, Daniel Prieto-Alhambra<sup>1,3</sup>, Martí Català<sup>1</sup>, Christian Reich<sup>3</sup>

<sup>1</sup> Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, Oxford, UK

<sup>2</sup> Odysseus Inc

<sup>3</sup> Department of Medical Informatics, Erasmus University Medical Center, Rotterdam, The Netherlands





# #OHDSISocialShowcase

## FRIDAY

# Pattern of long COVID symptoms and conditions: clustering analysis based on large multinational cohorts as part of an EHDEN Study-A-Thon

(**Kim López-Güell**#, **Martí Català**#, Daniel Dedman, Talita Duarte-Salles, Raivo Kolde, Raúl López-Blasco, Álvaro Martínez, Lourdes Mateu, Gregoire Mercier, Alicia Abellan, Johnmary T. Arinze, Theresa Burkard, Edward Burn, Zara Cuccu, Dominique Delseny, Chungsoo Kim, Ji-woo Kim, Kristin Kostka, Francesco Lapi, Cora Loste, Ettore Marconi, Miguel A. Mayer, Jaime Meléndez-Cardiel, Núria Mercadé-Besora, Mees Mosseveld, Hedvig ME Nordeng, Jessie O Oyinlola, Roger Paredes, Juan Manuel Ramírez-Anguita, Nhung TH Trinh, Anneli Uusküla, Bernardo Valdivieso, Junqing Xie, Annika M Jödicke\*, Daniel Prieto-Alhambra)

### Pattern of Long COVID Symptoms and Conditions: Clustering Analysis Based on Large Multinational Cohorts from an EHDEN Study-A-Thon

Kim López-Güell, Martí Català, Daniel Dedman, Talita Duarte-Salles, Raivo Kolde, Raúl López-Blasco, Álvaro Martínez, Lourdes Mateu, Gregoire Mercier, Alicia Abellan, Johnmary T. Arinze, Theresa Burkard, Edward Burn, Zara Cuccu, Dominique Delseny, Chungsoo Kim, Ji-woo Kim, Kristin Kostka, Francesco Lapi, Cora Loste, Ettore Marconi, Miguel A. Mayer, Jaime Meléndez-Cardiel, Núria Mercadé-Besora, Mees Mosseveld, Jessie O Oyinlola, Roger Paredes, Juan Manuel Ramírez-Anguita, Anneli Uusküla, Bernardo Valdivieso, Junqing Xie, Annika M Jödicke, Daniel Prieto-Alhambra



#### Abstract

We aimed to categorize and validate clusters of long COVID symptoms, as defined by WHO's "post-COVID-19 condition", through a broad international study. Results revealed numerous single-symptom clusters. However, when analyzing patients with multiple concurrent symptoms, we identified repeated clusters (anxiety-depression, cough-dyspnea, gastrointestinal-abdominal pain) across various databases. Still, considerable variation was noted among different databases and healthcare settings.

#### Introduction and Methods

##### Background

Long COVID, a condition with wide-ranging and heterogeneous symptoms, remains vaguely defined and difficult to diagnose. Clustering algorithms could potentially classify patients based on symptom combinations, aiding in understanding the disease's mechanisms and requirements.

##### Objectives

Our goal was to identify and confirm clusters of conditions and symptoms among patients with long COVID, using the WHO's clinical definition of "post-COVID-19 condition" in an extensive international network study.

##### Data

We conducted a multinational network study including databases from different healthcare settings: primary care, hospital databases and a claims-based database.

CPDR GOLD (UK)	CPDR AURUM (UK)	eDOL (France)	PSMAR (Spain)
IPCI (Netherlands)	CORIVA (Estonia)	Pharmetrics Plus (USA)	IISLAFE (Spain)

##### Long COVID definition

We studied those with COVID-19 (positive SARS-CoV-2 test or diagnosis) and no prior diagnosis/test within 42 days, then identified any post-acute symptoms from WHO's list of 25. A symptom was classified as long COVID if it appeared 90-365 days post-infection and wasn't in the 180-day pre-infection history.

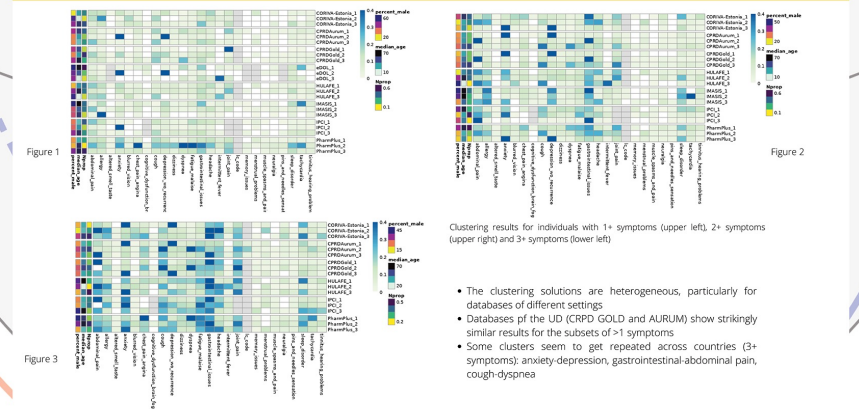
##### Statistical analysis

We performed latent class analysis on these symptoms, considering patient's age and sex. We characterized clusters, analyzing patient baseline characteristics, healthcare use, vaccination status, and co-morbidities. We calculated the analyses for 2-7 clusters, choosing the optimal number based on statistical and clinical relevance.

Post-hoc analyses included clustering among subgroups with at least 2 or 3 different long COVID symptoms, conducted only in databases with over 500 individuals in the respective subgroup.

We performed all the analyses in R v4.2.1. Code available in [https://github.com/oxford-pharmacoepi/LongCovidStudyathon\\_WS](https://github.com/oxford-pharmacoepi/LongCovidStudyathon_WS).

#### Results



- The clustering solutions are heterogeneous, particularly for databases of different settings
- Databases of the UD (CPDR GOLD and AURUM) show strikingly similar results for the subsets of 1+ symptoms
- Some clusters seem to get repeated across countries (3+ symptoms): anxiety-depression, gastrointestinal-abdominal pain, cough-dyspnea

#### Conclusions

Using consistent clustering algorithms, symptom lists, and data structures across databases, we found diverse symptom combinations among long COVID patients. The prevalence of single-symptom clusters may reflect common symptoms recorded post-COVID-19, or persistent complications like olfactory deficits.

Analyzing subsets with 2+ or 3+ symptoms, clusters were more reflective of long COVID patient characteristics in specialist clinics, albeit results varied across databases and healthcare settings.

For more information, please email [kim.lopez@spc.ox.ac.uk](mailto:kim.lopez@spc.ox.ac.uk)!

Scan to explore the Shiny App





# 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](mailto: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
Wednesday	12 pm	Latin America
Wednesday	7 pm	Medical Imaging
Thursday	9:30 am	Data Network Quality
Thursday	7 pm	Dentistry
Friday	9 am	GIS – Geographic Information Systems General
Friday	9 am	Phenotype Development and Evaluation
Friday	11 am	Clinical Trials
Monday	10 am	Healthcare Systems Interest Group
Monday	4 pm	Eyecare & Vision Research
Monday	6 pm	OMOP & FHIR



# Sept. 15: HowOften Phenotype Library Contribution Deadline



## HowOften: Community contributions wanted

General



Patrick\_Ryan

2h

Friends:

As we discussed on the [20June2023](#) and [15August2023](#) community calls, [@hripcsa](#) and I would like to encourage our community to think big and collaborate together in a effort toward large-scale incidence characterization. HowOften is be a community-wide study to define a broad set of target cohorts T that'll serve as denominators, and another broad set of outcome cohorts O that'll serve as numerators. And for a defined list of time-at-risk windows (e.g. 30d, 1yr, all-time), stratified by age/sex/index year, we will compute the incidence of O in T for all T-O combinations within each database in our participating network, and then meta-analyze the results to produce composite summaries.

As with all OHDSI network studies, we will use [GitHub](#) to share study materials, including protocol and source code, which should be based where possible off of existing HADES packages. And we intend to make the full resultset publicly available through an interactive website, likely initially taking advantage of the RShiny modules built by the HADES team as part of the Strategus workflow. As we've seen with prior OHDSI work, background incidence rates can be used for a wide range of clinical applications, including providing [disease natural history](#), providing context for [pharmacovigilance](#) by quantifying the magnitude of risk for known effects, and reporting digital quality measures (see [@bnhamlin](#)'s talk [here](#)).



# 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](https://bit.ly/2023TitanNominations)





# Global Symposium



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

[ohdsi.org/OHDSI2023](https://ohdsi.org/OHDSI2023)



# Global Symposium Weekend Agenda

	Friday, Oct. 20	Saturday, Oct. 21	Sunday, Oct. 22
7:00 am	Registration/Lite Breakfast	Lite Breakfast	Lite Breakfast
8:00 am	Welcome to OHDSI2023!	Intro to OHDSI Tutorial & OHDSI Workgroup Activities	OHDSI collaborative workshop: HowOften (part 2)
9:00 am	State of the Community		
10:00 am	Community Networking		
11:00 am	Plenary Session		
12:00 pm	Buffet Lunch		
12:00 pm		<b>Buffet Lunch + Collaborator Showcase: Posters &amp; Demos</b>	<b>Buffet Lunch + Collaborator Showcase: Posters &amp; Demos</b>
1:00 pm	Panel: Network Studies	OHDSI collaborative workshop: HowOften (part 1)	OHDSI workgroup activities
2:00 pm	<b>Collaborator Showcase: Lightning Talks</b>		
2:45 pm	<b>Collaborator Showcase: Posters &amp; Demos</b>		
3:30 pm	<b>Collaborator Showcase: Lightning Talks</b>		
4:15 pm	<b>Collaborator Showcase: Posters &amp; Demos</b>		
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





# OHDSI Got Talent!

Please join us for the first **OHDSI Got Talent!** competition at our 2023 Global Symposium.

We are looking for anybody with a special talent – singing, dancing, playing an instrument, comedy, magic, etc. – to join us for this fun event in October. Please use the link below to share your interest in participation!



[bit.ly/OHDSIGotTalent2023](https://bit.ly/OHDSIGotTalent2023)



# Global Symposium

		2023 OHDSI Global Symposium										
		Friday, October 20- Sunday, October 22 Hilton East Brunswick Hotel and Meeting Center										
<b>Friday, October 20</b>												
Start	End Time	Grand Ballroom										
7:00	8:00	Registration/ Light Breakfast										
8:00	9:00	Welcome to OHDSI2023										
9:00	10:00	State of the Community										
10:00	11:00	Community Networking/ Meet the Mentors										
11:00	12:00	Plenary Session										
12:00	13:00	Buffet Lunch										
13:00	14:00	Panel: Network Studies										
14:00	15:00	Collaborator Showcase - Posters and Software Demonstrations	Exhibits									
15:00	16:00	Collaborator Showcase - Lightning Talks										
16:00	17:00	Collaborator Showcase - Posters and Software Demonstrations										
17:00	18:00	Closing Talk										
18:00	19:00	Networking Reception										
19:00	20:00	OHDSI Got Talent!										
<b>Saturday, October 21</b>		Grand Ballroom										
8:00	9:00											
9:00	10:00	Introduction to OHDSI Tutorial	Exhibits	Industry Special Interest	Perinatal & Reproductive	Oncology	HADES	CDM/Network Data Quality	Health Equity	Phenotype Evaluation	Medical Imaging	Natural Lang. Processing
10:00	11:00											
11:00	12:00	Collaborator Showcase (and buffet lunch)										
12:00	13:00											
13:00	14:00											
14:00	15:00	HowOften Large-scale Characterization Workshop										
15:00	16:00											
16:00	17:00											
<b>Sunday, October 22</b>		Grand Ballroom										
8:00	9:00											
9:00	10:00	HowOften Large-scale Characterization Workshop										
10:00	11:00											
11:00	12:00											
12:00	13:00	Collaborator Showcase (and buffet lunch)	Exhibits									
13:00	14:00											
14:00	15:00											
15:00	16:00											
16:00	17:00											





# Where Are We Going?

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





# Three Stages of The Journey

**Where Have We Been?**

**Where Are We Now?**

**Where Are We Going?**





# Aug. 22 — OHDSI and Clinical Registries: Sanity for Health Systems



**Paul Nagy**

Program Director for Graduate Training in Biomedical Informatics and Data Science, Deputy Director of the Johns Hopkins Medicine Technology Innovation Center



**Lee Evans**

Founder, LTS Computing LLC



**DuWayne Willett**

Chief Medical Informatics Officer, University of Texas Southwestern Health System



**Jeff Weaver**

Director of Data Solutions for Emory University