



# Preview of ATLAS 3.0

OHDSI Community Call  
July 7, 2026 • 11 am ET



# Upcoming Community Calls

Date	Topic
July 7	Preview of ATLAS 3.0
July 14	Workgroup Spotlight: Health Systems, NLP
July 21	Workgroup Spotlight: TBA
July 28	OHDSI Newcomer Introductions



# Upcoming Europe Calls

Date	Topic
July 9	Zoom in on the Oh!-Factor
Aug. 13	<b>CANCELLED: Summer Break</b>
Sept. 10	National Node Focus: Germany
Oct. 8	National Node Focus: Italy
Nov. 10	National Node Focus: Norway
Dec. 10	National Node Focus: Portugal



# Three Stages of The Journey

**Where Have We Been?**

**Where Are We Now?**

**Where Are We Going?**



# OHDSI Shoutouts!



Congratulations to the team of **Jesús Moreno-Conde, Alberto Moreno-Conde, Miguel Giráldez-Álvarez, Francisco J. Núñez-Benjumea, and Alberto Jiménez-Martín** on the recent publication of **OHSIRIS: A Federated Data Space for Interoperable Biomedical Research** in *Volume 338 of Studies in Health Technology and Informatics: Health Sciences Informatics Leads and Empowers the Digital Health Transformation*.

*Health Sciences Informatics Leads and Empowers the Digital Health Transformation*  
J. Mantas et al. (Eds.)

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## OHSIRIS: A Federated Data Space for Interoperable Biomedical Research

Jesús MORENO-CONDE<sup>a,1</sup>, Alberto MORENO-CONDE<sup>a</sup>, Miguel GIRÁLDEZ-ÁLVAREZ<sup>a</sup>, Francisco J. NÚÑEZ-BENJUMEA<sup>a</sup> and Alberto JIMÉNEZ-MARTÍN<sup>a</sup>

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**Abstract.** OHSIRIS aims to implement a federated and interoperable data space to enable secure and scalable reuse of real-world health data for biomedical research. The project adopts a protocol-driven approach, where research questions are translated into standardized analytical workflows executed across multiple institutions using the OMOP Common Data Model. A federated architecture ensures that data remain at the source, while only aggregated results are shared, supporting compliance with data protection regulations. The framework was validated through three use cases: a multicenter study on lung cancer risk factors, a cost-effectiveness analysis of respiratory syncytial virus immunization, and an antimicrobial use monitoring study. Results demonstrate the feasibility of executing reproducible and comparable analyses across sites using standardized methods and outputs. OHSIRIS provides a practical implementation of a governed health data space aligned with European initiatives, supporting interoperable, privacy-preserving, and collaborative biomedical research.

**Keywords.** health data space, federated analysis, real-world data



# OHDSI Shoutouts!



Congratulations to the team of **Somayeh Abedian, Diego Boscá, and Severin Kohler** on the recent publication of **Interoperability-Driven Digital Twins in Healthcare: A Conceptual and Technical Analysis of FHIR, openEHR, and OMOP** in *Volume 338 of Studies in Health Technology and Informatics: Health Sciences Informatics Leads and Empowers the Digital Health Transformation*.

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## Interoperability-Driven Digital Twins in Healthcare: A Conceptual and Technical Analysis of FHIR, openEHR, and OMOP

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**Abstract.** Digital Twins (DTs) are gaining attention as a promising approach for next-generation healthcare systems. However, their real-world adoption remains limited, mainly due to fragmented data environments and a lack of effective interoperability across clinical systems. Although much of the current research focuses on modeling and advanced analytics, the role of interoperability as a structural enabler has received less attention. This paper examines interoperability as a core requirement for healthcare DTs. It considers how three commonly used standards, HL7 FHIR, openEHR, and the OHDSI OMOP Common Data Model, support different needs across the DT lifecycle, including data exchange, semantic representation, and data reuse for analysis. Each of these standards is effective in specific contexts. OMOP, for instance, is widely used for cohort studies, openEHR supports structured longitudinal records, and FHIR is effective for system integration and data exchange. However, developing more complete DT solutions requires coordinating these complementary capabilities. The paper takes a lifecycle- and role-based view, suggesting that DTs are better understood as the result of coordinated data infrastructures rather than standalone systems. This lifecycle framework provides actionable guidance for scalable DT architectures.

**Keywords.** Digital Twins, Healthcare Interoperability Standards, HL7 FHIR, openEHR, OMOP



# OHDSI Shoutouts!



Congratulations to the team of **Falk Meyer-Eschenbach, Martin Vogel, Philipp Jacob, Severin Kohler, Louis Agha-Mir-Salim, Loreen Ruhm, Christof von Kalle, Elias Grünewald, Oliver Kumpf, and Felix Balzer** on the recent publication of **LLM-Assisted Clinical Data Harmonization: Combining Automated ETL Generation with Semantic Vocabulary Mapping for OMOP CDM** in *Volume 338 of Studies in Health Technology and Informatics: Health Sciences Informatics Leads and Empowers the Digital Health Transformation*.

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## LLM-Assisted Clinical Data Harmonization: Combining Automated ETL Generation with Semantic Vocabulary Mapping for OMOP CDM

Falk MEYER-ESCHENBACH<sup>a,b,c,1,2\*</sup> and Martin VOGEL<sup>c,2</sup>, Philipp JACOB<sup>c</sup>, Severin KOHLER<sup>c</sup>, Louis AGHA-MIR-SALIM<sup>a</sup>, Loreen RUHM<sup>b</sup>, Christof VON KALLE<sup>b</sup>, Elias GRÜNEWALD<sup>a</sup>, Oliver KUMPF<sup>d</sup> and Felix BALZER<sup>a,c</sup>

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ORCID ID: Falk Meyer-Eschenbach <https://orcid.org/0009-0000-9813-0249>, Martin Vogel <https://orcid.org/0009-0003-5148-2900>

**Abstract.** Transforming clinical data into the OMOP Common Data Model requires structural schema mapping and semantic vocabulary harmonization, demanding both technical and clinical expertise. We investigated Large Language Models for both tasks using the eICU Collaborative Research Database. For structural transformation, context-enriched prompting with White Rabbit profiling reports guided Gemini 2.5 Pro to generate PostgreSQL Extract-Transform-Load (ETL) scripts, populating eight OMOP core tables after five debugging iterations. For semantic mapping, a hybrid approach combining vector similarity search with LLM refinement targeted Logical Observation Identifiers Names and Codes (LOINC) and Anatomical Therapeutic Chemical (ATC) codes, validated by clinical experts from Charité – Universitätsmedizin Berlin. Our approach achieved 93.9% precision for medications (n=148) and 78.5-96.8% for laboratory terms (n=158) depending on consensus criteria. LLM refinement raised medication precision from 60.8% to 93.9% and laboratory precision from 62.0-88.6% to 78.5-96.8%. Together, these phases reduce manual effort in OMOP transformation across three clinical domains, while expert supervision remains essential.

**Keywords.** OMOP Common Data Model, Large Language Models, Clinical Data Harmonization, Vocabulary Mapping, ETL



# OHDSI Shoutouts!

## Daniel Prieto-Alhambra announced as the first Oxford Professor of Regulatory Health Data Science at NDORMS

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2 July 2026

The new professorship strengthens the department's leadership in health data science and real-world evidence and will specifically support regulatory frameworks and decision making to bring new safe, efficient and effective treatments to benefit patients and society.



### FIND OUT MORE ABOUT

- [Our \*\*Groups, Centres and Units\*\*](#)
- [Our \*\*Research Themes\*\*](#)
- [Our \*\*Clinical Trials\*\*](#)
- [Our \*\*Programme Grants\*\*](#)

### SIMILAR STORIES

[NDORMS team wins Award for Excellence for transforming ulcerative colitis care](#)

[Mark Coles receives funding to tackle viral threats](#)

[Natural compound may help boost vaccine responses in older adults](#)



# 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	7 am	Medical Imaging
Wednesday	8 am	Psychiatry
Wednesday	9 am	Patient-Level Prediction
Wednesday	10 am	Common Data Model
Wednesday	2 pm	Canada Chapter
Wednesday	2 pm	Natural Language Processing
Wednesday	7 pm	Eyecare and Vision Research
Thursday	7 am	Europe Community Call
Thursday	10 am	Rare Diseases
Thursday	10 am	ATLAS/WebAPI
Thursday	10 am	GIS-Geographic Information System
Thursday	11:30 am	Surgery and Perioperative Medicine
Friday	9 am	Waveform
Friday	10 am	Transplant
Friday	11 am	Clinical Trials
Friday	11:30 am	Steering
Friday	11 pm	China Chapter
Tuesday	9 am	Oncology Genomic Subgroup
Tuesday	9 am	Data2Evidence



# Clair Blacketer PhD Defense

Erasmus University Rotterdam

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## PhD defence M.S. (Clair) Blacketer

Strengthening the Foundations of Real-World Evidence

On Wednesday 8 Juli 2026, M.S. Blacketer will defend the doctoral thesis titled:  
Strengthening the Foundations of Real-World Evidence

Promotor

Prof. dr. ir. P.R. Rijnbeek

Erasmus MC

Co-promotor

Dr. M.J. Schuemie

Erasmus MC

Date

Wednesday 8 Jul 2026, 13:00 - 14:30





# July Newsletter is Available



## The Journey Newsletter (July 2026)

Welcome to the July edition of the OHDSI newsletter, where we dive into the current state of generative AI research in our community and the cutting-edge tools currently in development. This issue is packed with essential updates, including our latest June publications and inspiring community spotlights on Melanie Philofsky and Sulev Reisberg. We also look ahead to the first LATAM Symposium and announce the dates for the APAC Symposium. Finally, anticipation is building for the upcoming Global Symposium (Oct. 20-22), where a unique Jam Session promises to bring new, fun collaboration opportunities to this year's event. [#JoinTheJourney](#)

## Podcast: LLM Research, LATAM Growth



In the July 2026 On The Journey podcast, Patrick Ryan and Craig Sachson reflect on LLM research in the OHDSI community. They begin with reflections on Martijn Schuemie's overview of current research, challenges and opportunities in OHDSI, and then they look at some of the individual tool presentations that were shared throughout the month. They also look forward to the first LATAM Symposium and the importance of building new collaborations in South America. *(If video does not appear, please click 'view this email in your browser.)*

## Community Updates

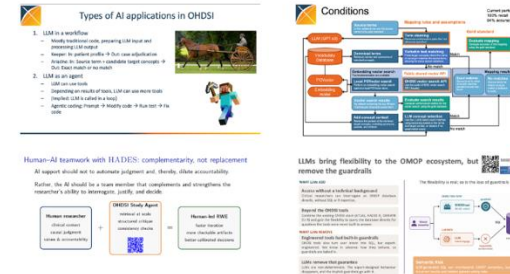
### Where Have We Been?

- **LLM Research Presentations:** Our community spent June diving deep into the intersection of generative AI and observational research, kicking off the month with a comprehensive high-level overview of how Large Language Models (LLMs) are transforming our ecosystem and then showcasing several tools being developed in the community. More information and links are available later in this newsletter.
- **OHDSI Summer School at Columbia University:** The second-annual OHDSI Summer School in New York City was held in late June, and an international cohort of learners traveled the path from learning about observational research to performing their own network studies within one week.
- **Oxford Summer School in Real World Evidence:** Oxford University also welcomed a cohort of learners to discovery the possibilities using real-world data, OMOP, and the OHDSI way of generating reliable and robust real-world evidence. Thank you to the faculty at both Columbia and Oxford for welcoming new collaborators to our community.

### Where Are We Now?

- **Agentic AI Call for Papers:** [A new call for papers is open](#) for a *Journal of Biomedical Informatics* special issue focusing on agentic AI for generating trustworthy Real-World Evidence (RWE). The issue seeks contributions on multi-agent collaboration and coordinated autonomy across the RWE lifecycle —such as data harmonization and causal analysis—while excluding single-task AI agents. Submissions are accepted from June 15 through November 15, 2026, with publication slated for September 2027.
- **OHDSI Newcomer Introductions:** The annual "Welcome OHDSI Newcomers" community call will be held July 28. If you are relatively new to the community or hope to have a bigger role, this is a great opportunity to introduce yourself. Please tell us who you are and where you work, what are your research interests, how you hope to help the community, and how OHDSI can help your own research journey. For scheduling purposes, [please note your interest in taking part in this brief survey.](#)
- **First LATAM Symposium:** Registration is still open for the first [OHDSI Latin America Symposium](#), which will be held July 30-31 in Salvador, Brazil. The landmark event features a robust lineup of workshops covering an Introduction to OMOP, cohort building, ETL development, and opportunities for regional scientific collaboration and network studies.

## The AI Wave in OHDSI: Accelerating LLM Innovation Through Community Collaboration



Our community spent June diving deep into the intersection of generative AI and observational research, kicking off the month with a comprehensive high-level overview of how Large Language Models (LLMs) are transforming our ecosystem (see video link below). Throughout the subsequent presentations and community discussions, several core themes emerged, showcasing how these advanced models can streamline the entire data lifecycle. From automating complex cohort definition and accelerating phenotype development to simplifying data harmonization and ETL pipeline design, the presentations highlighted a powerful shift toward embedding intelligent automation directly into the OMOP Common Data Model architecture.

The incredible variety of individual breakthroughs presented this month shows just how energized our network is by the potential of healthcare AI. To fully unlock the potential of these foundational models, our next great opportunity lies in bringing these exciting, innovative efforts together into unified, network-wide collaborations. By standardizing how LLMs interface with OHDSI vocabularies and ensuring these tools are reproducible across all data environments, we can scale these innovations globally through the same open, collective effort that has always driven our community forward.

It is important to remember that the insights and innovations spotlighted this past month represent just a small fraction of the AI momentum building across our global network. The upcoming OHDSI Global Symposium in October will feature a massive expansion of this research, diving far deeper into validated real-world evidence generation and the future of healthcare AI. If you want to be part of shaping the official roadmap for AI integration in observational health, make sure your registration is secured for New Brunswick!

[LLM Research Presentations](#)

[Video: Overview of LLM Research in OHDSI](#)

## My Journey: Melanie Philofsky



In the latest installment of our "My Journey" series, Melanie Philofsky (Director for Clinical Informatics at Odysseus Data Services, an EPAM company) shares her profound transition from ICU nurse to clinical informaticist. Melanie discusses how her background at the bedside fuels her passion for transforming EHR data into the OMOP CDM format, leading crucial OHDSI working groups, and scaling up real-world evidence to impact tens of thousands of patient lives. *(If video does not appear, please click 'view this email in your browser.)*

## Symposia Season Welcomes First LATAM Event, APAC Symposium in November



The second half of the year annually brings together an international collection of OHDSI Symposia, and for the first time, that will begin in South America. The inaugural OHDSI LATAM Symposium will be held July 30-31 in Salvador, Brazil, and it will bring together the public sector, industry and academia to advance health data standardization and strengthen an ethical, open and inclusive regional community. The symposium will work to accelerate OMOP Common Data Model adoption in Brazil and across the region, fostering integration, scientific collaboration and social impact.



# July Newsletter is Available



# OHDSI

OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

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## Welcome to OHDSI!

The Observational Health Data Sciences and Informatics (or OHDSI, pronounced "Odyssey") program is a multi-stakeholder, interdisciplinary collaborative to bring out the value of health data through large-scale analytics. All our solutions are open-source.

OHDSI has established an international network of researchers and observational health databases with a central coordinating center housed at Columbia University.

## Join us at the 2026 OHDSI Global Symposium

Registration and the call for participation are now OPEN for the 2026 OHDSI Global Symposium, which will be held Oct. 20-22 in New Brunswick, NJ. This event unites hundreds of collaborators to showcase scientific innovations and build bridges for future research. Together, we are advancing our mission to generate real-world evidence that informs better health decisions and improves patient care.



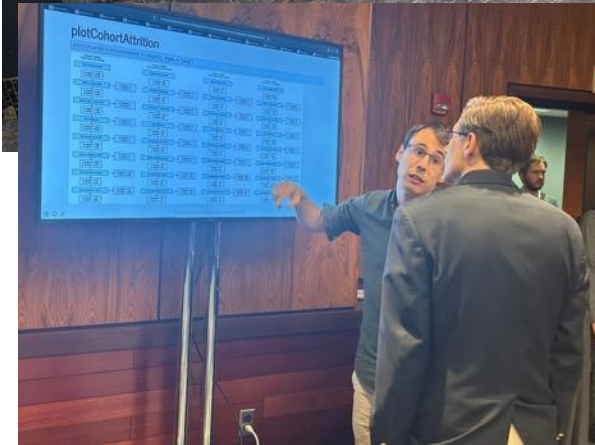
# 2026 OHDSI Global Symposium

Registration is OPEN for the **2026 OHDSI Global Symposium**, which will be held Oct. 20-22 in New Brunswick, N.J., USA.

**Oct. 20:** Tutorials

**Oct. 21:** Plenaries, Showcase

**Oct. 22:** Workgroup Activities



[ohdsi.org/OHDSI2026](https://ohdsi.org/OHDSI2026)



# 2026 Symposium Tutorials – Session 1

- **An Introduction to the Journey from Data to Evidence Using OHDSI**
- **An Introduction to ATLAS**
- **Bringing FAIR to Imaging Research with the Medical Imaging OMOP Extension**
- **Complex Phenotyping at Scale with and without LLMs Using PhenotypeR**
- **OHDSI Leadership Storytelling Workshop**
- **Mastering OMOP: Transforming EHR Data with Practical Strategies, Best Practices, and OHDSI Integration**



# 2026 Symposium Tutorials – Session 2

- **Building and Using the OHDSI Evidence Network: From Data Partner to Federated Study Execution**
- **From Multi-Modal Data to Real-World Evidence: Hands-on with the Data2Evidence Platform for OMOP Data Curation and Analytics**
- **Integrating Geospatial Data Into OMOP CDM**
- **Introduction to OHDSI Phenotype Development & Evaluation**
- **OHDSI Standardized Vocabularies on FHIR: A Deep Dive Using the Echidna Terminology Server**
- **Using OMOP Model in Registry Context & Clinical Trials Standardization Context: Conventions, Past Use Cases, SDTM & Regulatory Consideration, Challenges**



# 2026 Global Symposium Agenda

Start	End	Topic	Presenter/Lead
8:00 am	8:30 am	State of the Community	George Hripcsak
8:30 am	9:15 am	OHDSI Year In Review	Early-Stage Researcher WG
9:15 am	10:00 am	Collaborator Showcase: Posters and Demos (Session 1)	
10:00 am	11:00 am	Plenary 1: Federated Learning Meets Negative Control Calibration: Toward Reliable Multi-Site Evidence Generation	Yong Chen
11:00 am	12:00 pm	Plenary 2: Beyond the Defaults: How the OHDSI Community is Adapting, Extending, and Reimagining Its Tools	Scott Duvall
12:00 pm	1:00 pm	Network & Lunch	
1:00 pm	2:00 pm	Plenary 3: The role of national initiatives in supporting sustainability, collaboration, and growth of OHDSI	Ed Burn
2:00 pm	2:45 pm	Collaborator Showcase: Lightning Talks (Session 1)	5 presenters
2:45 pm	3:30 pm	Collaborator Showcase: Posters and Demos (Session 2)	
3:30 pm	4:15 pm	Collaborator Showcase: Posters and Demos (Session 3)	
4:15 pm	5:00 pm	Collaborator Showcase: Lightning Talks (Session 2)	5 presenters
5:00 pm	6:00 pm	Titan Awards, Closing	Patrick Ryan
6:00 pm	8:30 pm	Dinner on your own	
8:30 pm	11:30 pm	OHDSI Jam Session	Martijn Schuemie



# 2026 Symposium Workgroup Activities

**Session 1 (8 am – 10 am):** Eyecare and Vision Research, GIS – Geographic Information Systems, Early-Stage Researchers, Industry, Tidy R Programming with OMOP, HADES Hackathon, Generative AI and Foundation Models, Phenotype Development and Evaluation, Oncology, Health Equity, Vocabularies, APAC

**Session 2 (10:30 am – 12:30 pm):** Perinatal and Reproductive Health, Waveform, Medical Imaging, Industry, Tidy R Programming with OMOP, HADES Hackathon, Generative AI and Foundation Models, Phenotype Development and Evaluation, Oncology, Health Equity, Vocabularies, Rare Disease

**Session 3 (1:30 pm – 3:30 pm):** Dentistry, GIS & Waveform Cross-Pollination Meeting, Evidence Network, Women of OHDSI, Psychiatry, HADES Hackathon, Natural Language Processing, Health Economics & Value Assessment, ATLAS/WebAPI, CDM Survey, Surgery & Perioperative Medicine

**Session 4 (3:30 pm – 5 pm):** Workgroup Summary Session



# 2026 OHDSI Symposium Jam Session

Whether you are an amateur hobbyist, a seasoned pro, an instrumentalist, or a vocalist, our very first OHDSI Jam Session is open to everyone. We'll do some free-form improvisation, but we will also vote on a few songs ahead of time so everyone has a chance to practice.

**The Gear:** The organizers will provide a backline with amplifiers, drums, and microphones.

**Your Instruments:** We encourage you to bring your own gear! If you're open to letting fellow community members plug in or play your instrument, please let us know.

**The Vibe:** Low pressure, high energy, and entirely collaborative.

Want to join?

Let us know if you're thinking about participating so we can coordinate the song list and gear!





# First Latin America Symposium – July 30-31

Registration is open for the first OHDSI Latin America Symposium, taking place July 30-31 in Salvador, Brazil.

## Day 1

### Strategic panels with government, academia and industry

Thursday, July 30, 2026



#### Opening and keynote

**Common Data Model for Health Equity: the Role of Latin America.**



#### Panel 1 — Health data interoperability and standards

*Panelists from the Ministry of Health, Bahia State Health Department, PAHO and Latin American Governments.*



#### Panel 2 — The power of administrative data for health research

*Panelists from the Ministry of Health, CONASS, Fiocruz, Latin American Governments, Industry and OHDSI Global.*



#### Panel 3 — The future of interoperability in healthcare in Latin America

A public-private debate.

*Panelists from the Ministry of Health, CONASS, Fiocruz, private hospitals and Latin American Governments.*

## Day 2

### Hands-on workshops and scientific collaboration

Friday, July 31, 2026



#### Introductory OMOP CDM workshops

- Introduction to OMOP
- Building cohorts with OHDSI tools



#### Parallel tracks of specialized workshops

- ETL to OMOP
- Scientific collaboration



#### Closing

Future perspectives and next steps for the OHDSI Latin America community.

[ohdsilatam.org](https://ohdsilatam.org)



# APAC Symposium: Nov. 13-15

The 2026 APAC Symposium will be held Nov. 13-15 at Yonsei University in Seoul, South Korea.

**Nov. 13:** Main Conference

**Nov. 14:** Tutorials, Datathon

**Nov. 15:** Datathon Team Activities

Registration will open soon, and the showcase submission deadline is August 17 at 8 pm ET.



[ohdsi.org/APAC2026](https://ohdsi.org/APAC2026)



# Wanted: HADES Developers

## Help wanted - developers for HADES shiny viewer

■ Developers



jreps

5d

We have a set of R packages for developing modular shiny apps to explore the standardized results returned via HADES packages.

- OhdsiShinyAppBuilder - this builds the shiny app and defines what modules to include (e.g., cohort explorer, characterization, estimation, ...)
- OhdsiShinyModules - the main shiny code for the key HADES packages are here
- OhdsiReportGenerator - this is a set of SQL that pulls out friendly data.frames with the results

However, there is a lot of potential for improvements in these packages including (but not limited to):

- adding bookmarking to the URL for easy sharing ([Chapter 11 Bookmarking | Mastering Shiny](#))
- improving display time (improving data extraction speed)
- improving the UI

If you are a developer with knowledge or interest in R or shiny or web development/design and UI and want to help out with HADES development please post below or message me.

I'm planning to set up regular meetings for this work group.



# #OHDSISocialShowcase This Week

## Monday

# Standardizing the "Repositório Integrado de Conhecimento" at IPO Porto: Design and Implementation of an OMOP CDM ETL for Oncology Data

(**Mariana Canelas-Pais**, Renata Silva, Sofia Gomes, Tiago Taveira-Gomes, Rita Rb-Silva, Maria, José Bento, Teresa Garcia)

## Standardizing the "Repositório Integrado de Conhecimento" at IPO Porto: Design and Implementation of an OMOP CDM ETL for Oncology Data

Mariana Canelas-Pais<sup>1,2,3</sup>, Renata Silva<sup>1</sup>, Sofia Gomes<sup>1</sup>, Tiago Taveira-Gomes<sup>2,4</sup>, Rita Rb-Silva<sup>5</sup>, Maria José Bento<sup>5,6,7</sup>, Teresa Garcia<sup>5,6</sup>  
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<sup>3</sup>RISE-Health - Centre for Health Technologies and Services Research, Porto, Portugal  
<sup>4</sup>SIGIL Scientific Enterprises, Dubai, United Arab Emirates  
<sup>5</sup>Group of Epidemiology, Outcomes, Economics and Management in Oncology - Research Center, Porto Comprehensive Cancer Center (Porto.CCC) & RISE-IC3-IPPO (Health Research Network), Portuguese Oncology Institute of Porto (IPO Porto), Porto, Portugal  
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<sup>7</sup>Population Studies Department, School of Medicine and Biomedical Sciences, ICBAS, University of Porto, Porto, Portugal.  
mariana.pais@mtg-research.com

### Background

IPO Porto is a national reference center for oncology care in Portugal. Its clinical registry, Repositório Integrado de Conhecimento (RIC), consolidates oncology data through a mix of automated ingestion and extensive manual entry by clinical experts. Despite its quality, coding and structural heterogeneity limit interoperability and secondary use<sup>1</sup>. This work presents the OMOP-CDM ETL design and planned next steps for extension<sup>2</sup>.

### Methods



### Results

The first version cover the PERSON, VISIT\_OCCURRENCE, CONDITION\_OCCURRENCE, MEASUREMENT, DEATH, CDM\_SOURCE, OBSERVATION\_PERIOD domains. The ETL design decisions included:

- **ICD-O-3 Mapping:** Histology, behaviour, and topography concatenated for CONDITION\_OCCURRENCE mapping.
- **Wide-to-Long Transformation:** Tumor characteristics were transformed into multiple longitudinal records across MEASUREMENT and CONDITION\_OCCURRENCE.
- **Cancer Modifiers:** Staging and tumor attributes mapped to OMOP Cancer Modifier concepts in MEASUREMENT.
- **Temporal Proxies:** Tumor diagnosis date used as proxy when comorbidity onset dates were unavailable.

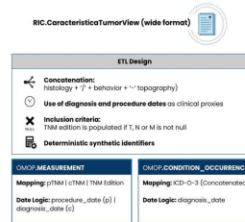


Figure 1. ETL design specification for the RIC.CharacteristicTumorView source, detailing the transformation logic for mapping oncological data (TNM and ICD-O-3 classifications), into the OMOP Measurement and Condition Occurrence tables.

### Conclusion

This work demonstrates the feasibility of transforming a curated oncology registry into OMOP CDM through a formally specified ETL process. Future iterations will expand the analytical scope by capturing systemic therapies, surgical procedures, and critical clinical performance indicators like ECOG



### References

1. Ajmal A, Buisson-D. Brack J, Chesseran S, Benlagha PC, Gomes AL, et al. Establishing standards harmonizing coding principles for a national cancer dataset in the OMOP Common Data Model. ESMO Real World Data and Digital Oncology [Internet]. 2025 Sep;3(00079):10079. Available from: <https://doi.org/10.1093/awd/025.00079>
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# #OHDSISocialShowcase This Week

## Tuesday

# Standardising feasibility assessments: a proposal from the IHI-GREG project

(Lucía A. Carrasco-Ribelles, Lucia Bellas, Annika Jödicke, Daniel Prieto-Alhambra)

29 institutions from various sectors propose a standardised approach to assess whether conducting a particular study using RWD is feasible

Standardising feasibility assessments: a proposal from the IHI-GREG project

**Background:** A feasibility assessment aims to determine whether an RWE study can be conducted producing robust, timely, decision-grade results given available data, methods, and resources. **Currently, no standard approach exists.** The IHI-GREG project—a five-year public-private partnership of 29 organisations from academia, industry, regulators, HTA bodies, and patient groups—aims to create practical, evidence-based guidance and tools to improve the planning and use of RWE. As part of this effort, we propose a standardised feasibility-assessment framework to support transparent and reproducible assessment of RWE research questions and selection of real-world data sources.

Three dimensions to be assessed using a standard reporting template



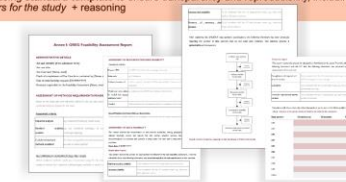
- Methods feasibility**
- Is the study design suitable?
  - Is this research question answerable with RWD or needs data collected prospectively?
  - Are the analytical methods proposed suitable and consider the state of the art?
  - Are there standard analytical packages available?
- Resources feasibility**
- Staff resources available
  - Number of data partners required
  - Need for new mapping, vocabularies, new standard analytics...

**Data feasibility**

Is the available data suitable, in terms of relevant data domains, sufficient patient counts, particular population representation, and readily available?

5-phase process with multiple touch points:

- **Exploration:** preliminary assessment of available data sources for healthcare setting, temporal, and geographical suitability and required data domains presence > Potential Data Partners Landscaping looking for pre-calculated concept-level counts and other metrics > Shortlisted Data Partners for feasibility + reasoning
- **Initiation:** data partners contracting
- **Implementation:** preliminary phenotypes and standard R code
- **Execution:** data partners run code
- **Dissemination:** report using standard template to ensure transparency and reproducibility, including Shortlisted Data Partners for the study + reasoning



## Methods

The feasibility assessment framework is being co-designed with academic, industry, regulatory, and HTA contributors to ensure broad applicability across Europe. The development process is iterative: prototyping, piloting with diverse real-world use cases, gathering stakeholder feedback, and refining in successive cycles. A continuous learning plan based on performance indicators, internal review, version control, and a lessons-learned repository supports ongoing improvement. An R package is being developed to standardise the analytics.



Lucía A. Carrasco-Ribelles<sup>1</sup>, Lucia Bellas<sup>1</sup>, Annika Jödicke<sup>2</sup>, Daniel Prieto-Alhambra<sup>2,3</sup>  
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<sup>3</sup> Department of Medical Informatics, Erasmus Medical Center, Rotterdam, The Netherlands

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# #OHDSISocialShowcase This Week

## Wednesday

# The landscape of OMOP-mapped real-world data sources in the HMA-EMA Catalogues of real-world data sources and studies

(**Aikaterini-Christina Deli**, Stefania Simou, Gianmario Candore, Victor Pera, Gianluca Gazzaniga, Paolo Alcini)



HMA-EMA Real-World Data Catalogues  
Data sources in a CDM: 53% of which OMOP: 72%



Landscape of CDM-mapped real-world data sources in the HMA-EMA Catalogues of real-world data sources and studies, with a special interest in OMOP

### Background

The HMA-EMA real-world data (RWD) Catalogues are a public repository of RWD sources and studies from across the globe that support discoverability, transparency and use of RWD to investigate disease epidemiology and medicines evaluation.

### Objectives

1. Characterise availability of data sources mapped to a common data model (CDM)
2. Characterise extent of CDM use in studies
3. Quantify Extract Transformation Load (ETL) conversion status
4. Quantify completeness of key CDM/ETL metadata elements

### Methods

Descriptive analysis of the RWD Catalogues using metadata related to CDMs for both data sources and studies, with a focus on the Observational Medical Outcomes Partnership (OMOP) CDM (data cut-off: 6 February 2026).

## Results

**Data sources**  
Among 271 data source records, 144 (53%) indicated conversion to  $\geq 1$  CDM and 125 (46%) were mapped to OMOP, the most frequently reported CDM.

Figure 1. Recorded CDM mappings among data sources (N = 174). Data sources converted to multiple CDMs contribute to multiple mappings.

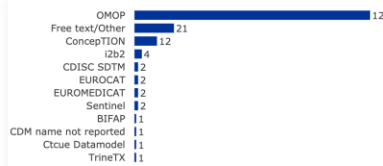
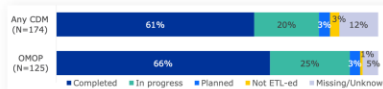


Table 1. Completeness of CDM/ETL metadata among CDM-converted data sources.

Field	Value	Any CDM N=174	OMOP N=125
ETL status (B7.1)	Planned / In progress / Completed / Not ETL-ed	88%	95%
ETL CDM version (B7.3)	Version in string format	70%	82%
ETL frequency (B7.5)	Expressed in months	63%	70%
ETL specifications (B7.4)	Resources describing mapping of data sources to CDM	22%	15%

Figure 2. ETL status of CDM-converted data sources and OMOP subset.



### Conclusion

- **Data sources:** Over half of data source records capture CDM conversion information, with OMOP being by far the most frequently reported model, used by nearly three quarters of CDM-harmonised sources. Key metadata related to the CDM are frequently populated, whereas ETL specifications less often, which may limit transparency of CDM mapping implementation.
- **Studies:** In post-launch records, the RWD Catalogues make it possible to identify CDM and OMOP-based studies, with nearly a quarter indicating CDM use.

### References

1. European Medicines Agency. List of metadata for the HMA-EMA Catalogues of real-world data sources and studies, 2022. Available from: [https://www.ema.europa.eu/en/documents/other/list-metadata-hma-ema-catalogues-real-world-data-sources-studies\\_en.pdf](https://www.ema.europa.eu/en/documents/other/list-metadata-hma-ema-catalogues-real-world-data-sources-studies_en.pdf)
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Authors: Aikaterini-Christina Deli, Stefania Simou, Gianmario Candore, Victor Pera, Gianluca Gazzaniga, Paolo Alcini





# #OHDSISocialShowcase This Week

## Thursday

### Disease-aware Harmonization of Parkinson's Disease Research Data to the OMOP Common Data Model: A Systematic Methodology from AI-PROGNOSIS

(**Petros Demetrakopoulos**, Maria-Eleni Damkali, Theodora Brisimi, Dorine Karvouniari-Matzakou)

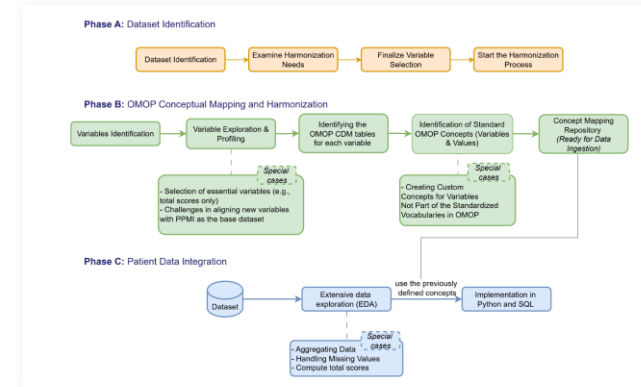
A systematic methodology for harmonization of Parkinson's disease research datasets to the OMOP CDM for interoperable and AI-ready analysis

*Title: Disease-aware Harmonization of Parkinson's Disease Data to the OMOP Common Data Model*

**Background:** Parkinson's disease research increasingly relies on integrating heterogeneous longitudinal datasets from multiple clinical studies. However, differences in data structure, terminology, and study design limit interoperability and cross-study analysis. The **OMOP Common Data Model (OMOP CDM)** provides a standardized framework for harmonizing observational healthcare data using controlled vocabularies such as **SNOMED CT, LOINC, and RxNorm**.

#### Methods

In the context of the AI-PROGNOSIS Horizon Europe project, we developed a **three-phase harmonization methodology** for transforming Parkinson's disease datasets into OMOP CDM. The workflow was developed using the **Parkinson's Progression Markers Initiative (PPMI)** dataset and it could be extended and applied to any PD-related dataset.



#### Results

For the purpose of the AI-PROGNOSIS project, we harmonized 2 datasets from retrospective and prospective studies with the proposed workflow. During the process we introduced **new vocabularies covering aspects of Parkinson's disease data not represented by existing standard concepts**. These vocabularies include concepts for some widely used questionnaires, such as MDS-UPDRS, RSBDSQ and HVL. The datasets cumulatively include > 5000 patients, 700+ free-text conditions and 800+ medication logs. We also created 182 new custom concepts required to capture the intricacies of PD-related data. We plan to contribute these new vocabularies to the OHDSI standards.

**Limitation:** The methodology was validated using 2 datasets that follow a research-study structure rather than routine clinical workflows. Future work will extend the approach to **additional Parkinson's disease cohorts** and real-world clinical datasets.



Petros Demetrakopoulos, Maria-Eleni Damkali, Theodora Brisimi, Dorine Karvouniari-Matzakou  
Netcompany



Funded by the European Union under Grant Agreement No. 101080581



Source of data: [www.ppmi-info.org](http://www.ppmi-info.org)





# #OHDSISocialShowcase This Week

## Friday

# Modular recommendation system and review application for semantic mapping

(Freija Descamps, Panagiotis Gialernios, Shirah Cashriel, Isaac Claessen, Mythili Palanisamy, Silvia Jimenez, Lars Halvorsen, Peter Moorthamer, Lore Vermeylen)

## Modular recommendation system and review application for semantic mapping

**Background:** edenceHealth NV has developed a set of mapping suggestion frameworks that can be used in a modular way depending on the type of input. These suggestions can then be loaded in the edenceReviewer online semantic mapping tool that provides a user-friendly interface for validating the mapping suggestions.

### Methods:

- LabMapper: map Measurements to the correct LOINC code, making use of the vocabulary hierarchy and Apache Lucene text searching techniques.
- RxNormBuilder: map Drugs to RxNorm or RxNorm Extension codes by mapping the individual components and combining everything using the drug hierarchy.
- edenceMapper: general tool that can be used for mapping any source code to any domain. It includes optional translation to English and is designed to use multiple mapping algorithms like for example simple fuzzy string matching, Apache Lucene search and a text embedding LLM (Multilingual-E5-small architecture).

The result of these 3 suggestion systems will be combined into a database that is then used to display the suggestions in edenceReviewer. This is a tool developed by edenceHealth to facilitate the review and validation of the suggested mappings.

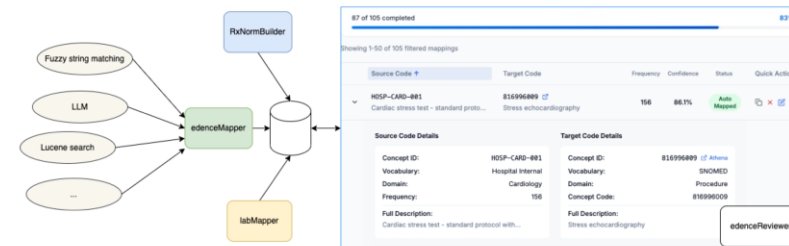


Figure 1. data flow from suggestion systems to edenceReviewer.

**Conclusion:** The combination of these tools makes the semantic mapping process more streamlined and facilitates the validation of the suggested mappings. It is constructed in a modular way that makes it easy to add more suggestion pipelines for specific mapping purposes or to add extra algorithms in edenceMapper.

Freija Descamps<sup>1</sup>, Panagiotis Gialernios<sup>1</sup>, Shirah Cashriel<sup>1</sup>, Isaac Claessen<sup>1</sup>, Mythili Palanisamy<sup>1</sup>, Silvia Jimenez<sup>1</sup>, Lars Halvorsen<sup>1</sup>, Peter Moorthamer<sup>1</sup>, Lore Vermeylen<sup>1</sup>  
<sup>1</sup>edenceHealth NV





# 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?**



**The weekly OHDSI community call is held  
every Tuesday at 11 am ET.**

**Everybody is invited!**

**Links are sent out weekly and available at:**

**[ohdsi.org/community-calls-2026](https://ohdsi.org/community-calls-2026)**



**Find your workgroup.**

**Fuel our mission.**

**[ohdsi.org/workgroups](https://ohdsi.org/workgroups)**