



OHDSI/OMOP Research Spotlight

OHDSI Community Call
Dec. 2, 2025 • 11 am ET



Upcoming Community Calls

Date	Topic
Dec. 2	OHDSI/OMOP Research Spotlight
Dec. 9	How Did OHDSI Do This Year?
Dec. 16	Holiday Farewell To 2025
Dec. 23	No Meeting
Dec. 30	No Meeting
Jan. 6	No Meeting
Jan. 13	Where Can We Go Together in 2026?



Dec. 9: How Did We Do In 2025?





Three Stages of The Journey

Where Have We Been?

Where Are We Now?

Where Are We Going?



OHDSI Shoutouts!



Congratulations to the team of **Gyu Lee Kim, Yu Hyeon Yi, Jeong Gyu Lee, Young Jin Tak, Seung Hun Lee, Young Jin Ra, Byung Kwan Choi, Sang Yeoup Lee, Young Hye Cho, Eun Ju Park, Youngin Lee, Jung In Choi, Sae Rom Lee, Ryuk Jun Kwon, and Soo Min Son** on the publication of **Association Between the Use of DPP4 Inhibitors and Metformin and the Risk of Cancer in Patients with Type 2 Diabetes: A Multicenter Retrospective Cohort Study Using the OMOP CDM Database** in *Cancers*.



Article

Association Between the Use of DPP4 Inhibitors and Metformin and the Risk of Cancer in Patients with Type 2 Diabetes: A Multicenter Retrospective Cohort Study Using the OMOP CDM Database

Gyu Lee Kim ^{1,2,*}, Yu Hyeon Yi ^{1,2,*}, Jeong Gyu Lee ^{1,2}, Young Jin Tak ^{1,2}, Seung Hun Lee ^{1,2}, Young Jin Ra ^{1,2}, Byung Kwan Choi ³, Sang Yeoup Lee ^{2,4}, Young Hye Cho ^{2,5}, Eun Ju Park ^{2,5}, Youngin Lee ^{2,5}, Jung In Choi ^{2,5}, Sae Rom Lee ^{2,5}, Ryuk Jun Kwon ^{2,5} and Soo Min Son ^{2,5}

- ¹ Department of Family Medicine and Medical Research Institute, Pusan National University Hospital, Busan 49241, Republic of Korea; happygaru@hanmail.net (G.L.K.); eltidine@hanmail.net (J.G.L.); 03141998@hanmail.net (Y.J.T.); greatseunghun@hanmail.net (S.H.L.); yjra80@naver.com (Y.J.R.)
 - ² Department of Family Medicine, School of Medicine, Pusan National University, Yangsan 50612, Republic of Korea; saylee@pnu.edu (S.Y.L.); younghye82@naver.com (Y.H.C.); everblue124@daum.net (E.J.P.); ylee23@gmail.com (Y.L.); sljungin@hanmail.net (J.I.C.); sweetpea85@naver.com (S.R.L.); brain6@hanmail.net (R.J.K.); soo890624@naver.com (S.M.S.)
 - ³ Department of Neurosurgery, Pusan National University Hospital, Busan 49241, Republic of Korea; spine@pusan.ac.kr
 - ⁴ Family Medicine Clinic, Obesity, Metabolism and Nutrition Center, Pusan National University Yangsan Hospital, Yangsan 50612, Republic of Korea
 - ⁵ Department of Family Medicine and Biomedical Research Institute, Pusan National University Yangsan Hospital, Yangsan 50612, Republic of Korea
- * Correspondence: eegus@hanmail.net; Tel.: +82-51-240-7834; Fax: +82-51-240-7843

Simple Summary

Type 2 diabetes mellitus (T2DM) is known to be related to an increased risk of several cancers. However, the effects of specific glucose-lowering drugs on cancer development remain uncertain. In this large multicenter cohort study using databases from 11 hospitals in Korea, we compared patients prescribed dipeptidyl peptidase-4 inhibitors (DPP4is) and/or metformin with those treated with other glucose-lowering drugs. After carefully balancing the groups, our findings showed that the group treated with DPP4is and/or metformin had a significantly lower risk of cancer, with consistent results across all institutions. These results suggest that metformin and DPP4is may have a protective role against cancer in T2DM patients, supporting their safety and potential benefits for long-term health outcomes.



Academic Editor: Edward J. Pavlik

Received: 1 October 2025

Revised: 3 November 2025

Accepted: 8 November 2025

Published: 10 November 2025

Citation: Kim, G.L.; Yi, Y.H.; Lee, J.G.; Tak, Y.J.; Lee, S.H.; Ra, Y.J.; Choi, B.K.; Lee, S.Y.; Cho, Y.H.; Park, E.J.; et al. Association Between the Use of DPP4



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	12 pm	ATLAS/WebAPI
Thursday	10 am	Themis
Thursday	11 am	Industry
Thursday	12 pm	Methods Research
Thursday	1 pm	Oncology Vocabulary/Development Subgroup
Thursday	2 pm	Early-Stage Researchers
Friday	10 am	GIS-Geographic Information System
Friday	11:30 am	Steering
Monday	9 am	Africa Chapter
Monday	10 am	Getting Started
Monday	9 am	Oncology Genomic Subgroup
Tuesday	10 am	CDM Survey Subgroup



December Newsletter is Available



The Journey Newsletter (December 2025)

The final newsletter of 2025 focuses on the progress being made around global collaboration, including in local events that are taking place across four continents between November and December. New collaborators have multiple resources to help begin their journeys, including the Early-Stage Workgroup and a new tutorial homepage. Those who want to help educate the community can consider sharing plenary and tutorial proposals for the 2026 OHDSI Global Symposium. We look at all of that and more in the latest newsletter. [#JoinTheJourney](#)

Podcast: Global Events, DARWIN EU Progress



In the December 2025 On The Journey podcast, Patrick Ryan and Craig Sachson highlight new community events in Sweden, Africa and Canada that took place in November. They discuss the recent DARWIN EU update and its progress assisting the EMA, and they announce a call for both plenaries and tutorials for the 2026 Global Symposium, which will take place Oct. 20-22 in New Brunswick, N.J. (If video does not appear, please click 'view this email in your browser'.)

Community Updates

Where Have We Been?

- November community calls were highlighted by numerous #OHDSI2025 presentations, including from our Best Community Contribution honorees and three of our Early-Stage Researchers. All of the talks can be found in the 'November Presentations' section of this newsletter.
- The first Africa Symposium and new events in both Sweden and Canada highlighted a busy November of collaboration opportunities. Learn more about each within this newsletter.
- DARWIN EU is a European Medicines Agency-led network that uses real-world healthcare data, standardized to the OMOP CDM, across Europe to generate evidence on how medicines are used, how safe and effective they are, and to support regulatory decision-making. Leaders from the initiative [provided a 2025 update](#) recently.

Where Are We Now?

- The [2025 OHDSI India Symposium](#) will be held Dec. 2 at SVM Hospitals in Bangalore. The registration link and more information, including the symposium agenda, [is now available](#).
- The [2025 OHDSI Asia-Pacific Symposium](#) will be held Dec. 6-7 in Shanghai, China. [Registration is open](#), and agenda details will be shared when available.
- The Dec. 9 [OHDSI Community Call](#) will reflect on our community's impact in 2025. Workgroup leads have been asked to [provide a brief self-assessment](#) to assist that call by Dec. 5.

Where Are We Going?

- The [2026 OHDSI Europe Symposium](#) will be held April 18-20 in Rotterdam, Netherlands. While registration has not opened yet, the deadline for abstract submissions is Feb. 6, 2026.
- The [2026 OHDSI Global Symposium](#) will be held Oct. 20-22 at the Hyatt Regency Hotel in New Brunswick, N.J. There is a call for plenary and tutorial submissions; more details can be found later in this newsletter.
- The [#OHDSISocialShowcase](#) is currently highlighting research from the 2025 Europe Symposium, and will soon begin showcasing research from the Global Symposium. Please follow our [LinkedIn](#), [Twitter/X](#), [Bluesky](#) and [Instagram](#) feeds to learn more about the research happening in our community.

November Publications

Open access

Original research

BMJ Open Diabetes Research & Care

Semaglutide and diabetic retinopathy: an OHDSI network study

Cindy Xinji Cai^{1,2}, Akihiko Nishimura,² Sally Baxter,^{1,5} Kerry Goetz,⁶ Michelle Hribar,^{1,10} Brian Toy,⁶ Andrew Barkmeier,¹¹ Sophia Wang,¹² Swarnu Swaminathan,¹³ Alexis Flowers,¹² Eric Brown,¹³ Benjamin Xu,⁹ John Chen,¹⁴ Aiyin Chen,^{1,8} Theodore Leng,¹³ Michael Boland,¹⁴ Thami Althammar,^{15,16} Fan Bu,¹⁷ Thomas Falconer,⁸ Benjamin Martin,² Erik Westlund,¹⁸ Natasia Mathioudakis,¹⁹ Linying Zhang,²⁰ Ruochong Fan,²¹ Adam Wilcox,²¹ Albert Lai,²⁰ Jacqueline C Stocking²², Yangyuan Xie,¹⁶ Lok Hin Lee,¹⁹ David Dorr,²³ Isabelle Humes,²² David McCoy,²² Mohammad Adibuzzaman,²⁴ Raymond Areaux Jr.,²⁴ James Brash,²⁴ Nicole Weiskopf,¹ Hannah Morgan-Cooper,²⁵ Priya Desai,²⁶ Diego Tran,¹ Zainab Rustam,¹ Gina Zhu,¹ Joel Swerdel,²⁴ Anthony Sena,^{24,27} Paul Nagy,² Marc Suchard,^{28,29} Martin Schuemie,^{28,30} George Hripcsak,¹⁰ Patrick Ryan^{10,30}

Cai CX, Nishimura A, Baxter S, Goetz K, Hribar M, Toy B, Barkmeier A, Wang S, Swaminathan S, Flowers A, Brown E, Xu B, Chen J, Chen A, Leng T, Boland M, Althammar T, Bu F, Falconer T, Martin B, Westlund E, Mathioudakis N, Zhang L, Fan R, Wilcox A, Lai A, Stocking JC, Xie Y, Lee LH, Dorr D, Humes I, McCoy D, Adibuzzaman M, Areaux R Jr, Brash J, Weiskopf N, Morgan-Cooper H, Desai P, Tran D, Rustam Z, Zhu G, Swerdel J, Sena A, Nagy P, Suchard M, Schuemie M, Hripcsak G, Ryan P. [Semaglutide and diabetic retinopathy: an OHDSI network study](#). BMJ Open Diabetes Res Care. 2025 Nov 4;13(6):e005424. doi: 10.1136/bmjdr-2025-005424. PMID: 41192935; PMCID: PMC12587949.

Datzmann T, Lang C, Tesch F, Spoden M, Dröge P, Ehm F, Schuler E, Krogias C, Günster C, Schmitt J, Gumbinger C, Barlind J. [Evaluation of hybrid stroke quality indicators by integrating NIHSS and claims data for improved outcome prediction](#). Sci Rep. 2025 Nov 7;15(1):38994. doi: 10.1038/s41598-025-25979-1. PMID: 41203731; PMCID: PMC12594769.

Cuyàs B, Alvarado-Tapias E, Tan EH, Golozar A, Duarte-Salles T, Delmestri A, Argemi J, Man WY, Burn E, Guarnier-Argente C, Prieto Alhambra D, Newby D. [Trends in incidence, prevalence, and survival of primary liver cancer in the United Kingdom \(2000-2021\)](#). Eur J Public Health. 2025 Nov 10;ckaf153. doi: 10.1093/eurpub/ckaf153. Epub ahead of print. PMID: 41212072.

Finster M, Wenzel M, Taghizadeh E. [Common data models and data standards for tabular health data: a systematic review](#). BMC Med Inform Decis Mak. 2025 Nov 13;25(1):422. doi: 10.1186/s12911-025-03267-2. PMID: 41233809; PMCID: PMC12616946.

Guerrero P, Ernebjerg M, Holst T, Weese D, DiBello H, Ibing S, Schmidt L, Ungaro R, Renard B, Lippert C, Alleva E, Quinn TD, Kovatch P, Antao EM, Heyneke E, Rasheed A, Kalabakov S, Amrich B, Charney A, Wieler LH, Nadkarni G. [The AIR-MS data platform for artificial intelligence in healthcare](#). JAMIA Open. 2025 Nov 11;8(6):ooaf145. doi: 10.1093/jamiaopen/ooaf145. PMID: 41267854; PMCID: PMC12629540.

2026 Global Symposium Dates Set; Community Seeks Plenary, Tutorials By Jan. 30, 2026



The [12th annual OHDSI Global Symposium](#) will return to the Hyatt Regency Hotel in New Brunswick, N.J., Oct. 20-22, 2026. All pertinent information will be added to this page when available. Currently, the OHDSI steering group is seeking proposals for both plenaries and tutorials. **The deadline for both is January 30, 2026.**

Symposium plenaries provide opportunities to share innovative, community-developed content to empower researchers to generate reliable real-world evidence. The community is currently seeking proposals for our #OHDSI2026 plenaries. These sessions will be 60 minutes in duration and must touch on at least two of following pillars of our community: open community data standards, methodological research, open-source development, and clinical applications.

Plenary sessions must also involve three or more on-stage participants across at least two organizations. Sessions may include a combination of keynote talks, panel discussions, interactive activities, and more. We strongly encourage using multiple formats and synthesizing completed research, current perspectives and future calls-to-action to maximize community engagement.

Tutorial sessions aim to deliver educational content, led by community members who wish to train our global collaborators on scientific, technical, and other skills that can support advancing OHDSI's mission and the effective use of real-world data and the generation and dissemination of reliable real-world evidence. Tutorial sessions are 4 hours in duration. Sessions may include a combination of talks, interactive activities, and more. We strongly encourage using multiple formats to maximize community engagement. Your session must include at least three people from at least two different organizations.

Learn more and share your submissions before the Jan. 30 deadline using the links below.

[Plenary/Tutorial Submission Details](#)

[Submit Your OHDSI 2026 Plenary Proposal](#)

[Submit Your OHDSI 2026 Tutorial Proposal](#)

mailchi.mp/ohdsi/december2025

[#JoinTheJourney](#)

www.ohdsi.org





December Newsletter is Available



OHDSI

OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

[Who We Are](#) ▾[Updates & News](#) ▾[Standards](#)[Software Tools](#) ▾[Network Studies](#) ▾[Community Forums](#) ▾[Education](#) ▾[New To OHDSI?](#) ▾[Community Calls](#) ▾[Past Events](#) ▾[Workgroups](#) ▾[Tutorials](#)[2025 'Our Journey' Annual Report](#)[Current Events](#) ▾[Support & Sponsorship](#)[2025 Global Symposium](#) ▾[2025 APAC Symposium](#)[2026 Global Symposium](#)[Github](#)[YouTube](#)[X/Twitter](#)[LinkedIn](#)[Newsletters](#) ▾

Subscribe

December 2025

November 2025

October 2025

September 2025

August 2025

July 2025

Full Archive

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

2025 Global Symposium

More than 400 collaborators came together for the 2025 Global Symposium to explore how we can strengthen trust in science and expand global collaboration through network science

mailchi.mp/ohdsi/december2025



Spotlight: Hua Xu



What keeps me motivated is the shared mission of making real-world data useful for improving health, and the fact that OHDSI has created a truly global, inclusive, and intellectually vibrant community. It's rare to find a network where clinicians, epidemiologists, data scientists, and informaticians work so seamlessly toward a common goal.



ohdsi.org/spotlight-hua-xu



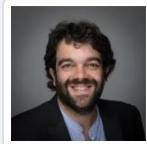
Oxford Summer School Registration Opens

Oxford Summer School 2026: Real World Evidence using the OMOP Common Data Model

COURSE DIRECTORS

Daniel Prieto-Alhambra

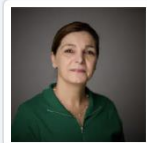
Professor of Pharmaco- and Device
Epidemiology



COURSE ADMINISTRATOR

Mahkameh Mafi

Personal Assistant to Professor Prieto-
Alhambra



Oxford Summer School 2026

*Real world evidence using the
OMOP Common Data Model*

Early bird registration will open on 2 December 2025



NDORMS

NUFFIELD DEPARTMENT OF ORTHOPAEDICS,
RHEUMATOLOGY AND MUSCULOSKELETAL SCIENCES





Columbia DBMI Summer School

The 2026 Summer School in Observational Health Data Science & Informatics, AI, and Real World Evidence

June 22–26, 2026, Columbia Biomedical Informatics



The Columbia OHDSI Summer School provides health professionals, researchers, and industry practitioners with an immersive, hands-on training to working with real-world health data and generating real-world evidence (RWE). Participants will explore the types of healthcare data captured during routine clinical care—such as electronic health records and administrative claims—and learn how to standardize these data using the OMOP Common Data Model to support collaborative, distributed research as part of a data network.

Over the course of the week, participants will engage with three real-world analytic use cases:

- **Clinical characterization** – using descriptive epidemiology to study disease natural history and treatment patterns
- **Population-level estimation** – applying causal inference to assess drug safety and comparative effectiveness
- **Patient-level prediction** – leveraging machine learning for early disease detection and precision medicine

Participants will be guided through the full RWE study lifecycle: from designing observational studies tailored to each use case, to applying open-source tools from the [OHDSI community](https://www.ohdsi.org), and executing analyses across real-world data sources.

The curriculum combines foundational lectures on analytical methods with hands-on, interactive, faculty-led group exercises. In addition, participants will have dedicated time to develop and advance their own study concepts with personalized feedback and mentoring.





India Symposium: Today!

9:00am - 9:30am	Registration and Coffee
9:30am - 9:45am	Lamp Lighting Ceremony
9:45am - 10:00am	Opening & Welcome Address Dr. Vikram Patil, Deputy Dean – Research (Clinical & Translational), JSS AHER
10:00am - 10:30am	OHDSI India: Progress, Scope & Vision Parthiban Sulur, VP Innovation & Growth, GVV
10:40am - 11:10am	Standardizing Mental Health Data: Africa's Contribution to the Global OHDSI Journey Dr. Tathagata Bhattacharjee, Population Health Data Scientist
11:10am - 11:30am	Coffee Break
11:30am - 12:00pm	Where Does India Stand in the Global Health Data Race? Dr. Rintu Kutum, Group Lead, Augmented Health Systems Laboratory, Faculty Fellow of Computer Science, (KCDH-A); Ashoka University
12:10pm - 12:40pm	India's Healthcare Landscape & National Priorities Dr. Thanga Prabhu, Clinical Informatics Expert
12:40pm - 1:10pm	OHDSI & FHIR: Building Interoperability Together Kumar Sathyam, HL7 Chair, Technical Committee
1:15pm - 2:15pm	Lunch Break
2:15pm - 2:30pm	Inauguration of the OHDSI India Training Program Dr. Kavitha Lamror, Partner, RWE & Digital Transformation

REGISTER NOW	
2:30pm - 3:15pm	Panel Discussion - Shaping India's Real-World Data Journey – From Current Practices to Collaborative Innovation Moderator: Dr. Kavitha Lamror, Partner, RWE & Digital Transformation Panel Members: Manish Sharma, yajur.ai, Founder & Director Dr. Prasan Shankar, Medical director, IAIM Healthcare center, Bangalore Dr. Chandil Kumar, Co-Founder SVM Hospital Dr. Mayank Agarwal, Physician Executive, Clinical Informaticist at BG Tek Personalized Medicine (OPC) Private Limited
3.25 pm - 4.00 pm	Poster Showcase & Break
4.00 pm - 5:15pm	Lightning Talks
5:15pm - 5:30pm	Closing Remarks & OHDSI Team Recognition
5:30pm - 6:30pm	Networking Session & Closing

www.ohdsi-india.org/events



APAC Symposium: Dec. 6-7

Day 1 (December 6) – Tutorial at Room 102, Dongxia Yuan Building (Zheng-Cai Cuiju Teaching Building)

Morning Session

- 09:00-09:20 Introduction of OHDSI/OMOP
- 09:20-10:00 OMOP CDM and Vocabulary
- 10:00-10:30 OMOP Conversion Process
- 10:40-12:00 ETL Exercises

Afternoon Session

- 13:30-14:50 OHDSI Analyses: Building Cohorts & Hands-on
- 14:50-15:30 CohortDiagnostics and Population-Level Estimation
- 15:50-16:30 Interpreting Results

Day 2 (December 7) – Main conference at Room A100, 1F, Student Center

Session 1 – From Global to Regional Impact: OHDSI across APAC & Africa

- 09:00 – 09:15 Opening Speech
- 09:15 – 09:45 Keynote Speech from OHDSI Global
- 09:45 – 10:45 APAC Regional Chapter Updates
- 10:45 – 11:00 OHDSI Africa

Day 2 (December 7) – Main conference at Room A100, 1F, Student Center

Session 1 – From Global to Regional Impact: OHDSI across APAC & Africa

- 09:00 – 09:15 Opening Speech
- 09:15 – 09:45 Keynote Speech from OHDSI Global
- 09:45 – 10:45 APAC Regional Chapter Updates
- 10:45 – 11:00 OHDSI Africa

Session 2 – From Research to Reflection: 2025 APAC Studies and Lessons Learned

- 11:15 – 11:30 2025 APAC Study 1 by Fudan University
- 11:30 – 11:45 2025 APAC Study 2 by Peking University
- 11:45 – 12:00 2025 APAC Study 3 by University of Science and Technology of China (USTC)
- 12:00 – 12:10 Journal's Perspectives
- 12:10 – 12:30 Panel Discussion

Session 3 – From Regional Insights to Local Challenges: Real-World Evidence and OHDSI/OMOP in China

- 13:30 – 14:30 Collaborator Showcase: Lightning Talks
- 14:30 – 14:45 Real-World Evidence Talk 1
- 14:45 – 15:00 Real-World Evidence Talk 2
- 15:00 – 15:15 Real-World Evidence Talk 3
- 15:30 – 15:50 Real-World Evidence Using OHDSI/OMOP
- 15:50 – 16:10 Panel Discussion: Opportunities and Challenges Using OHDSI/OMOP for Real-World Evidence in China
- 16:10 – 16:50 Closing & Networking



ohdsi.org/apac2025



2026 Global Symposium

The 2026 OHDSI Global Symposium will return to the Hyatt Regency Hotel in New Brunswick, N.J., on **Oct. 20-22.**





2026 Global Symposium

2026 OHDSI Global Symposium Call for Plenary Sessions

Symposium plenaries provide opportunities to share innovative, community-developed content to empower researchers to generate reliable real-world evidence. The community is currently seeking proposals for our #OHDSI2026 plenaries. These sessions will be 60 minutes in duration and must touch on at least two of following pillars of our community:

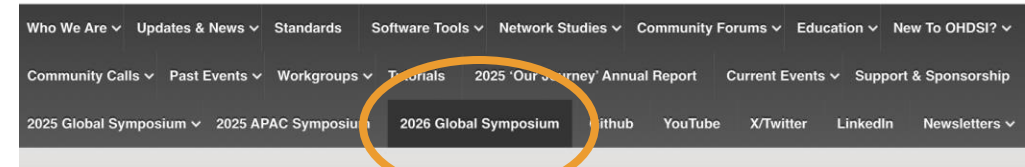
- Open community data standards
- Methodological research
- Open-source development
- Clinical applications

Plenary sessions must also involve three or more on-stage participants across at least two organizations. Sessions may include a combination of keynote talks, panel discussions, interactive activities, and more. We strongly encourage using multiple formats and synthesizing completed research, current perspectives and future calls-to-action to maximize community engagement.

The deadline for proposal submissions is January 30, 2026. Please use the link below to submit your proposal by answering the following questions:

- Name(s) of plenary session organizers:
- Your email address(es):
- Short (2,500 character max) description / abstract of your proposed session:
- Which pillars are you targeting:
- One sentence "pitch" of your session to excite the community:
- Names and roles of individuals who have tentatively agreed to participate in your session:

**Deadline to submit
proposals for #OHDSI2026
plenaries or tutorials is
Jan. 30, 2026!**



2026 OHDSI Global Symposium

Oct. 20-22 • New Brunswick, N.J. • Hyatt Regency Hotel

2026 OHDSI Global Symposium Call for Tutorials

Tutorial sessions aim to deliver educational content, led by community members who wish to train our global collaborators on scientific, technical, and other skills that can support advancing OHDSI's mission and the effective use of real-world data and the generation and dissemination of reliable real-world evidence. Examples of prior tutorials offered are provided here: <https://www.ohdsi.org/tutorials>.

Tutorial sessions are 4 hours in duration. Registrants for your tutorial will be requested to pay a registration fee. The fees will be used to offset the costs of the symposium and other OHDSI expenses. Sessions may include a combination of talks, interactive activities, and more. We strongly encourage using multiple formats to maximize community engagement. Your session must include at least three people from at least two different organizations.

The deadline for tutorial proposal submissions is January 30, 2026. Please use the link below to submit your proposal by answering the following questions:

- Name(s) of tutorial session organizers:
- Your email address(es):
- Short (2,500 character) description / abstract of your proposed session:
- Names and roles of individuals who have tentatively agreed to participate in your session:



2026 Europe Symposium

The 2026 OHDSI Europe Symposium returns to Rotterdam next year and will be held **April 18-20**.

The deadline for abstract submissions will be Feb. 6, 2026.





#OHDSISocialShowcase This Week

Monday

AI-Driven Precision: Semantic Search and Smart LLM Reranking for Mapping Croatian Medical Concepts to OMOP-CDM

(**Karlo Pintarić**, Moris Bagić, Marko Čavlina, Antea Jezidžić, Pero Ivanko)

Language-agnostic and expandable **automated concept mapping** using **semantic similarity** and **LLM agents**

AI-Driven Precision: Semantic Search and Smart LLM Reranking for Mapping Croatian Medical Concepts to OMOP-CDM

Background: Mapping local medical terminologies to OMOP-CDM standard concepts is a complex and time-consuming process, particularly for non-English data sources. Traditional lexical methods often struggle with semantic accuracy, as direct translations frequently fail in medical contexts.

Methods

We developed a method inspired by **retrieval-augmented generation (RAG)** techniques that leverages **LLM embeddings** and **intelligent reranking** to preserve **meaning** and **language nuances**. Our approach uses a vector database to retrieve **semantically similar concepts**, which are then **refined by an LLM agent** following a structured output schema. Additionally, the method generates **confidence scores** to enable **thresholding** and selective acceptance of concepts where the model shows higher certainty.

1. Embeddings

Create **dense vector representations** of source codes and OMOP standard concepts



2. Vector Search

Retrieve **top-k concepts** based on vector similarity and metadata filtering



3. Reranking

Perform **LLM-based reranking** of concepts using domain-specific prompts and structured output



4. Validation

Enable **interactive validation** by medical professionals through a custom-built web application



Results

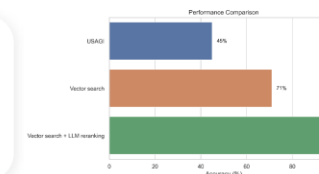
92% precision

mapping drugs with unstructured descriptions

95% accuracy

on a sample of unique health interventions

Vector search + LLM > vector search only



Karlo Pintarić, MD, et al.
karlo.pintaric@hzjz.hr





#OHDSISocialShowcase This Week

Tuesday

edenceMapper: Mapping Suggestion Framework for Non- Standard to Standard Codes

(Freija Descamps, Shirah Cashriel,
Isaac Claessen, Mythili Palanisamy)

edenceMapper: Mapping Suggestion Framework for
Non-Standard medical vocabularies to Standard

Background: Tools like Athena can support manual mapping of small non-standard codesets to standardized medical vocabularies, but large-scale mapping requires an automated and efficient workflow. To address this challenge, we developed a containerized mapping framework called edenceMapper, which uses multiple matching algorithms to generate ranked lists of suggested mappings towards standard vocabularies.

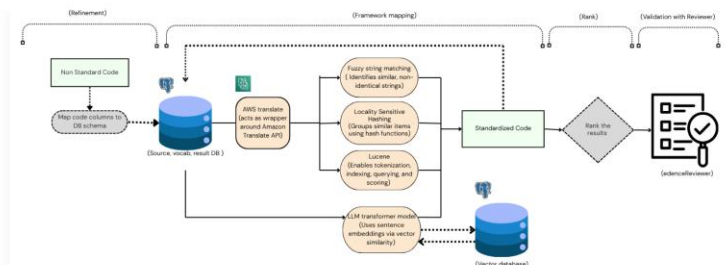


Figure 1: The workflow of mapping source codes to standard codes using various mappers.

Methods:

Semantic mapping (Figure 1) is an iterative process that involves aligning source terms with target vocabulary based on semantic similarity:

- 1) **Refinement:** Prioritization of standard concepts, incorporation of user-defined subsets and alignment of non-standard codes to database schema
- 2) **Framework mapping:** Provision of best-matching standard concepts using various pre-defined mapping algorithms. The AWS translator is implemented and can handle multilingual input processing.
- 3) **Rank:** Rank and storage of results in database
- 4) **Validation with edenceReviewer:** Validation and confirmation of mappings accuracy by clinical expert via a web-based collaborative review tool

Results:

Table 1: Mapping outputs for different source terms are generated based on ranked results, with the top-ranked output shown. Each model uses a distinct technique to identify the best match within the standard. The user can then select the preferred mapping via edenceReviewer.

Source code	Suggested mapping per model (concept_id (concept_name))		
	Lucene	Fuzzy	Multilingual LLM
Haemodialysis	4120120 [Hemodialysis]	4120120 [Hemodialysis]	4120120 [Hemodialysis]
Packed cell transfusion	4125928 [Packed blood cell transfusion]	4125928 [Packed blood cell transfusion]	4125928 [Packed blood cell transfusion]
Ven cath renal dialysis	4146536 [Renal dialysis]	4289454 [Venous catheterization for renal dialysis]	4289454 [Venous catheterization for renal dialysis]

Conclusion: The edenceMapper framework is an ongoing project aimed at optimizing mapping of non-standard terms, regardless of language, to standardized vocabularies. By leveraging advanced NLP techniques and mapping algorithms, it offers automated suggestions while enabling expert validation for precise and reliable healthcare data standardization.



Mythili Palanisamy¹, Freija Descamps¹, Shirah Cashriel¹, Isaac Claessen¹
¹edenceHealth NV





#OHDSISocialShowcase This Week

Wednesday

Federated Platform for Clinical Data Mediation: Enhancing Interoperability with OMOP and NLP

(**Mónica Arrúe**, María Quijada, Paula Chocrón, Josep Cordón, Gabriel de Maeztu)

Federated Platform for Clinical Data Mediation: Enhancing Interoperability with OMOP and NLP

INTRO

Despite the **demand** for Real-World Clinical Data (**RWD**) in research, accessing it is **challenging**:

Up to **80%** of clinical data is **unstructured** (e.g., free-text clinical notes, pathology reports, and discharge summaries), complicating reuse for research.

Hospitals face significant **bureaucracy** in approving research projects, alongside **ethical and regulatory constraints**, which collectively cause research projects to take a **long time** to execute.

METHODS

The Data Space Platform (DSP) is a federated, AI-driven infrastructure for clinical data mediation.

- It streamlines the entire **data mediation process** between **Data Holders** and **Data Users** for research projects, effectively overcoming bureaucracy and ethical/regulatory complexities.
- It integrates **Natural Language Processing (NLP)** and **Automated Terminology Mapping (ATM)** to unlock valuable, relevant data from **free-text clinical notes**.
- The structured data is **transformed** into the **OMOP Common Data Model (CDM)** directly within each Data Holder's data space, facilitating **multi-center studies**.

Research Projects Mediation Workflow

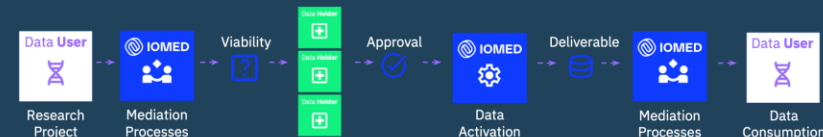
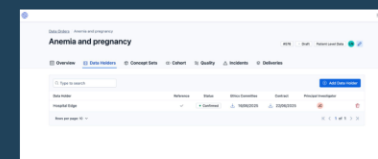
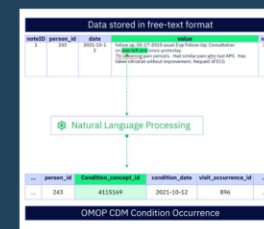


Figure 1: Overview of the mediation workflow for a research project between a Data User and multiple Data Holders. Below the detailed steps involved.



1. Data Request & Project Initiation:

- Data Users** create new research projects on the platform, outlining their objectives and required data.
- They can then send formal Data Requests to specific **Data Holders**, inviting their participation.



3. AI-Driven Data Preparation:

- Once approved, **Data Holders** activate the platform's integrated AI (NLP and ATM) to prepare and structure requested data, ensuring it's research-ready and harmonized.



2. Data Holder Governance & Approval:

- Data Holders access a centralized dashboard to review incoming Data Requests.
- Data Holders can check project objectives, data requested, and track ethics committee approvals.
- The platform facilitates contract signing, allowing Data Holders to decide participation.



4. Compliant Data Delivery:

- The platform ensures that the prepared data is provided to the **Data User** following the compliance procedures, guaranteeing secure and ethical data sharing for research.



RESULTS

- Reduction in time** required for project approval
- Faster research initiation**, allowing study sponsors to rapidly access harmonized, anonymized datasets once approvals are secured.
- Higher **data quality and completeness**, with over 85% accuracy in NLP-driven entity recognition.
- Increased hospitals participation** in multi-center studies.
- A robust **compliance framework**, ensuring that all data mediation activities align with GDPR and hospital policies.



Take a picture to download the full paper

Mónica Arrúe¹
monica.arrue@iomed.health

María Quijada¹
maria.quijada@iomed.health

Paula Chocrón¹
paula.chocron@iomed.health

José Cordón¹
josep.cordon@iomed.health

Gabriel de Maeztu^{1,2}
gabriel.maeztu@iomed.health

[1] IOMED Medical Solutions
[2] Universitat de Barcelona





#OHDSISocialShowcase This Week

Thursday

OHDSI-in-a-File: A Self-Contained Browser-Based Notebook for Research

(**Pedro Campos**, Luis Martinho, Pedro Santos, Tiago Silva, Cláudia Amorim Vaz)

OHDSI-in-a-File

Zero-Install Analytics in a Browser

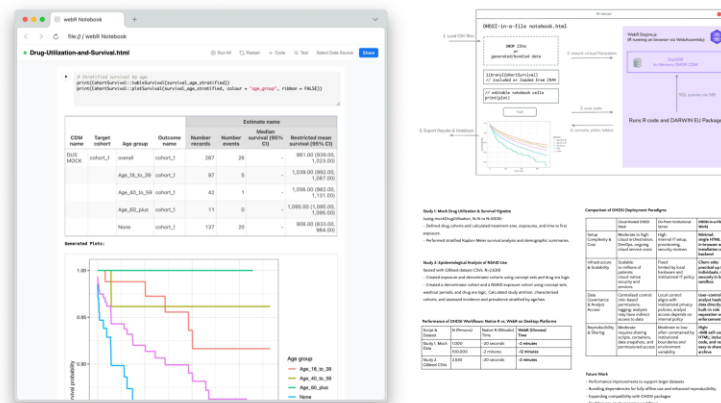
OHDSI-in-a-File: A Self-Contained Browser-Based Notebook for Research

Background:

Accessing OHDSI tools is often complex: it requires servers, installs, and expertise. This limits **learning**, **rapid prototyping**, and **sharing reproducible research artifacts**

OHDSI-in-a-File:

- Runs R and DARWIN EU packages entirely client-side via WebAssembly and DuckDB
- Supports **bundled** or **loaded** (CSV exports) OMOP CDM data
- **No setup**, no infrastructure, just one HTML file



TRY IT YOURSELF



- Notebook UI helps understand and edit code, or **test it with your data**
- Export edited code and results to a single .HTML file, **shareable by email**
- Works on **real-world registries**, unavailable/limited **infra resources** settings, or **mobile**



Pedro Campos, Luis Martinho, Pedro Santos, Tiago Silva (VaultHaus)
Cláudia Amorim Vaz (ULS Tâmega e Sousa, Portugal)





#OHDSISocialShowcase This Week

Friday

Searching the HMA-EMA Real-World Data Catalogues: Insights into Common Data Models

(**Elpida Kontsioti**, Stefania Simou, Katerina-Christina Deli, Paolo Alcini)

Searching the HMA-EMA Real-World Data Catalogues: Insights into Common Data Models

PRESENTERS:

Deli Katerina-Christina
Kontsioti Elpida

Use case 1: Planning a study

- Data sources catalogue can be searched for possibly relevant data sources based on recorded information on population, exposure, outcomes, confounding factors and time elements.
- Information on governance, availability and accessibility helps determine an investigator's eligibility to receive aggregated information or raw data access.
- Quality metadata support screening possible reliability of data source.
- Link to studies can be used to consult information on studies with similar research question (and design if relevant) performed with the same data source
- Data source holder **contact details** are available



Examples of types of information (metadata) included in the Data sources catalogue covering type of data present in the data source and their extensiveness.

1. HMA-EMA Catalogues of real-world data sources and studies. <https://catalogues.ema.europa.eu/>
2. Good practice guide for the use of the HMA-EMA Catalogues of real-world data sources and studies. https://www.ema.europa.eu/en/documents/regulatory-procedural-guideline/good-practice-guide-use-hma-ema-catalogues-real-world-data-sources-studies_en.pdf
3. List of metadata for the HMA-EMA Catalogues of real-world data sources and studies. https://www.ema.europa.eu/en/documents/other/list-metadata-hma-ema-catalogues-real-world-data-sources-studies_en.pdf

The **HMA-EMA RWD Catalogues**¹ are an **open-access resource** providing **standardised metadata**² to **discover, compare, and understand** real-world data sources, their **possible linkages**, and **utilisation in studies** — so you can **plan and conduct** research more effectively.³

Data sources Catalogue

Hub for researchers and regulators who seek to identify and use real-world datasets for specific studies on the use, safety, and effectiveness of medicines

> 250 data sources

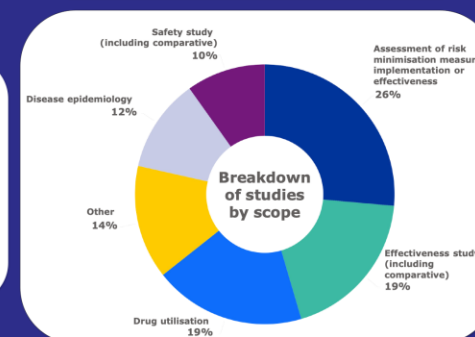
Insights from past studies

Past studies inform data use

Studies Catalogue

Resource to (pre-)register real-world data studies in Europe and beyond, enhancing transparency and reproducibility in observational research

> 3000 studies



Scan to access and explore the RWD Catalogues

Help us enhance the RWD Catalogues!
Data holders and study investigators can contribute information on data sources and studies to advance transparency and collaboration.

Use case 2: Benchmarking several data sources

- Harmonised metadata for each data source enables comparison of key characteristics.
- Information on common variables and variable categories supports stratification of the analyses.
- Information on possible linkages with other data sources, allows to harmonise data on the same individuals and provide additional information, e.g., on confounding factors.

Use case 3: Benefit from the experience of other researchers for programming the data transformation and statistical analysis

- Dedicated filter allows the identification of data sources mapped to specific CDMs, including the OMOP CDM.
- For data sources converted to a CDM, CDM details are available within the data source record. Specifications of the extract-transform-load (ETL) procedure from the original data source to the CDM and CDM version used support study script development.
- Data sources records link to studies conducted using the data source of interest.
- Dedicated filter allows users to select studies that have used data converted to a specific CDM.
- Study records include study protocols, statistical analysis plans, which may detail how variables were operationalised. In addition, links to public code repositories (e.g., GitHub) may host the full programming scripts and debugging logs.

Elpida Kontsioti, Stefania Simou, Katerina-Christina Deli, Paolo Alcini (European Medicines Agency)





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?



Dec. 2: OHDSI/OMOP Research Spotlight



Ágota Mészáros

PhD Student, Semmelweis University

Semiautomatic mapping of a national drug terminology to standardised OMOP drug concepts using publicly available supplementary information (*BMC Medical Research Methodology*)



Marta Pineda Moncusí

Postdoctoral Researcher In Health Data, University of Oxford

Changes in use and utilisation patterns of drugs with reported shortages between 2010 and 2024 in Europe and North America: a network cohort study (*The Lancet Public Health*)



Lucía Bellas

Real World Evidence Epidemiologist, IMI_EHDEN

Secular Trends in the Use of Valproate-Containing Medicines in Women of Childbearing Age in Europe: A Multinational DARWIN EU Network Study (*Pharmacoepidemiology & Drug Safety*)



Hanieh Razzaghi

Associate Director, PEDSnet Data Coordinating Center

A multifaceted approach to advancing data quality and fitness standards in multi-institutional networks (*JAMIA*)



**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-2025