

OHDSI Europe Community Call

National Node series



Hosted by

OHDSI ITALY



October 8, 2026 - 1PM CET

Connecting local expertise
to strengthen European evidence generation.

— A series hosted by the OHDSI Europe National Nodes —

01

PUBLICATION PULSE

Recent publications & research
highlights from across the
OHDSI Europe community



> [Int J Med Inform.](#) 2026 Sep 1:217:106501. doi: 10.1016/j.ijmedinf.2026.106501. Epub 2026 May 20.

From documentation to discovery: clinicians' perspectives on the generation, usability and standardization of real-world data

Elisabeth Ross¹, Olivier Bouissou², Åslaug Helland³, Arild Faxvaag⁴

➤ [Int J Med Inform.](#) 2026 Sep 1;217:106465. doi: 10.1016/j.ijmedinf.2026.106465. Epub 2026 May 5.

An HL7 FHIR® IG for lifestyle medicine in learning health systems: Multi-vendor wearable interoperability with documented terminology gaps

Ricardo Lourenço Santos ¹, Ricardo João Cruz-Correia ²

➤ [Cancer Res Commun. 2026 Sep 1;6\(9\):2242-2255. doi: 10.1158/2767-9764.CRC-26-0148.](#)

The GENIE Data Model: A Solid Tumor, Person-Centric Framework for Scalable, Harmonized Precision Oncology Data Collection

Jennifer N Hoppe ¹, Jocelyn Lee ², Tomi F Akinyemiju ^{3 4}, Danielle S Bitterman ⁵,
Michael Brudno ^{6 7}, Michelle F Green ⁸, Vojtech Huser ⁹, Jafi A Lipson ¹⁰, Sanjay Mishra ^{11 12},
Daniel P Nussbaum ¹³, Jai N Patel ^{14 15 16}, Valentina I Petkov ¹⁷, Kelli M Rasmussen ¹,
Sahussapont Joseph Sirintrapun ¹⁸, Patricia A Spears ^{19 20}, Sebastiaan Van Sandijk ^{9 21},
Anne-Marie Meyer ^{# 19}, Umit Topaloglu ^{# 22}, Jeremy L Warner ^{# 11 12}

> [Int J Med Inform.](#) 2026 Sep 15:218:106544. doi: 10.1016/j.ijmedinf.2026.106544. Epub 2026 Jun 10.

European cancer data sharing: Analyses of an international survey

Larson Hogstrom¹, Arvydas Laurinavicius², Miguel Giraldez Alvarez³, Sigve Nakken¹,
Ingrid Jenny Guldvik¹, Carlos Miguez Sanchez³, Olga Papadodima⁴, Konstantinos Voutetakis⁴,
Per Magnus Mæhle¹, Norman Zerbe⁵, Mario Šekerija⁶, Ane Fullaondo⁷, Eivind Hovig⁸

> JMIR Form Res. 2026 Sep 22:10:e88619. doi: 10.2196/88619.

Bridging Gaps in Standards for the Secondary Use of Health Data: Exploratory Standard, Tool Assessment, and Feasibility Study

Jaleh Shoshtarian Malak ¹, Leonie von Berlin ², Irina Balaur ¹, Rada Hussein ³, Philip Gribbon ², Yojana Gadiya ^{2 4}, Somayeh Abedian ^{3 5}, Andreas Kremer ⁶, Stefan Sauermann ⁷, Francisco J Núñez-Benjumea ⁸, Jens Declerck ^{9 10}, Sumit Madan ¹¹, Hanna Ćwiek-Kupczyńska ¹, Lukas Rohatsch ¹², Holger Fröhlich ^{4 11 13 14}, Christian Muehlendyck ¹⁵, Venkata P Satagopam ¹

02

NODE NEWS

Updates, activities & opportunities
from the OHDSI Europe NN



Video Recording
now **AVAILABLE**



[https://www.ehealth4cancer.ie/
#/ohdsi-ireland/seminars](https://www.ehealth4cancer.ie/#/ohdsi-ireland/seminars)

#MISSIONCANCER #HORIZONEU

PRIME-ROSE - Combining Expertise Across Borders to Promote Precision Cancer Medicine in Europe

PRIME-ROSE (Precision Cancer Medicine Repurposing System Using Pragmatic Clinical Trials) is a Horizon Europe Mission on Cancer project with 28 partners from altogether 19 European countries. Moreover, PRIME-ROSE is part of the Cancer Mission cluster of projects on Diagnosis and Treatment.



OHDSI IRELAND MEETING

**FRIDAY, 2ND
OCTOBER 2026
11:00-12:00 PM
VIRTUAL**

**Join our Mailing
List!**

Contact eHealth@ul.ie for
further details.

**HENK VAN DER
POL**

LEIDEN UNIVERSITY
MEDICAL CENTER,
NETHERLANDS

Application of OMOP
CDM in precision
cancer medicine



- 6th Greek Pharmacoepidemiology symposium (Athens Oct 2-4)



- New Horizon project starting Jan 2027 (EU/Asia data sources)
- OMOP in the epidemiology MSc programme in National Kapodistrian University of Athens

- MedUni Vienna Launches the 2ReDIF-Health Project to Strengthen Resilient Health Data Infrastructure in Rwanda and Tanzani. In collaboration with the Kilimanjaro Clinical Research Institute (KCRI, Tanzania) and the Rwanda Biomedical Centre (RBC), the project will deploy the OMOP Common Data Model and the OHDSI Broadsea platform at both partner institutions.
- OHDSI Austria Annual meeting will occur online on 14.10.2026 and will focus on vocabulay mapping in Austria context.

03

NODE SPOTLIGHT

Hosted by
OHDSI ITALY



Agenda

- Presentation of the OHDSI Italy National Node (L. Sacchi)
- NN activities
 - OMOP studies approval process (L. Sacchi, M. Bucalo)
 - OHDSI Italy studies (M. Bucalo, E. Fresi)
- Other initiatives and conclusions (L. Sacchi)

OHDSI Italy National Node: the origins

From the EHDEN experience



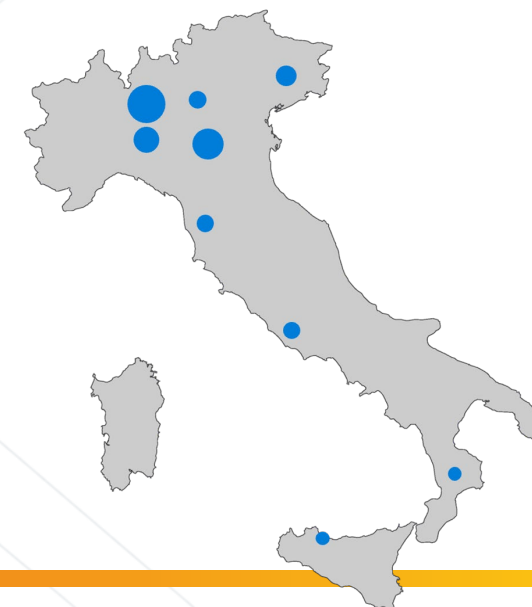
To the OHDSI Italy National Node

60+
people

40
institutions

23
data partners

Active since June 2022
NN coordinators



Our Objectives as a National Node

Network and collaboration

- Promote OMOP/OHDSI at the national level
- Create a synergy with the international OHDSI community
- Promote the execution of national studies
- Facilitate participation to international studies
- Coordinate dialogue with national institutions

Regulatory and governance

- Define common procedures and guidelines for study participation according to local regulatory constraints

Technical and methodological

- Mapping Italian terminologies to OMOP

NN Activities and Challenges

Main goal: enabling Italian data partners to exploit their OMOP databases and participate into national and international studies

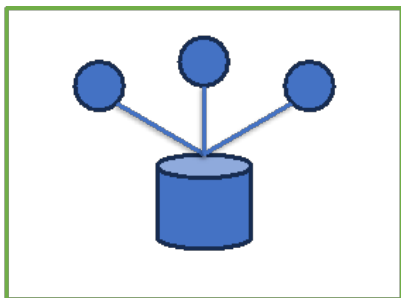
- Set-up of OMOP research databases
- National studies execution
- Participation to international studies

Within the Italian Regulation Framework

Challenges related to data processing

Set-up of OMOP research databases

To perform a study, it is necessary that in each center, the data are transferred from their original (clinical) source to an OMOP (research) database



According to the GDPR, this operation is considered as **Data Processing**

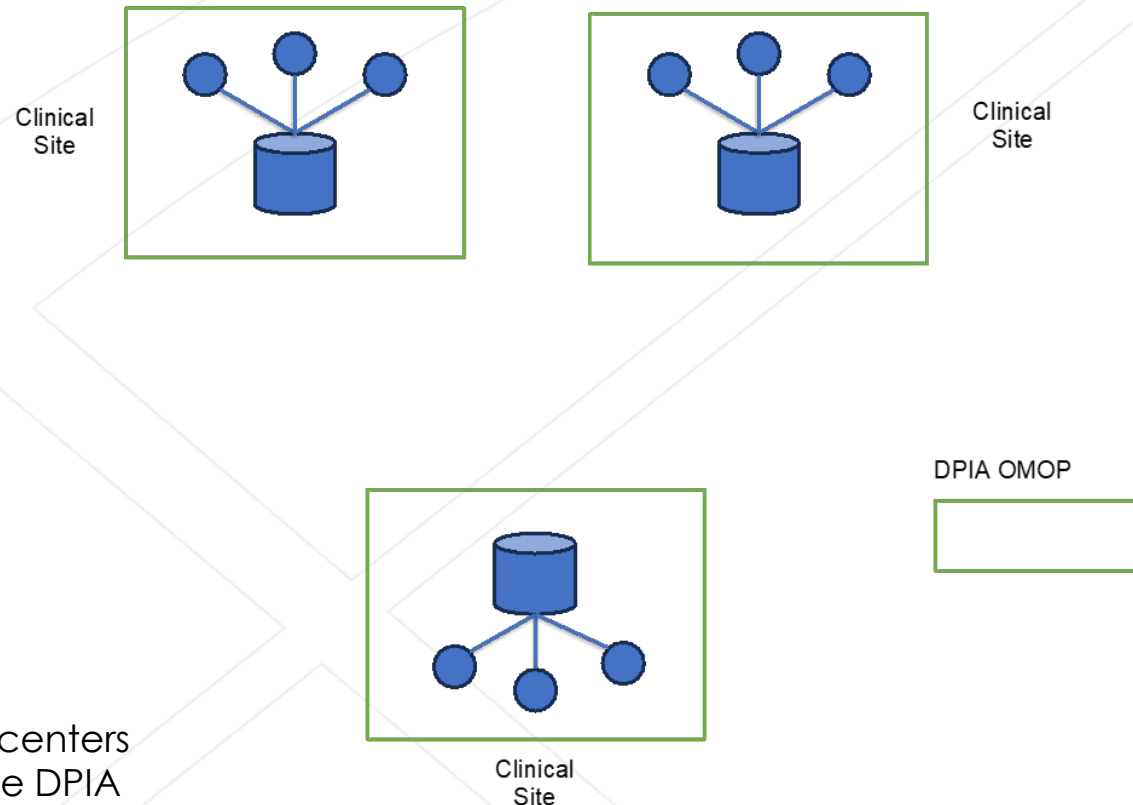
Legal basis for data processing (GDPR enforcement in Italy)

- Different rules for Research Hospital and other Centers
- Different interpretations by the DPOs

How we faced these challenges in OHDSI Italy

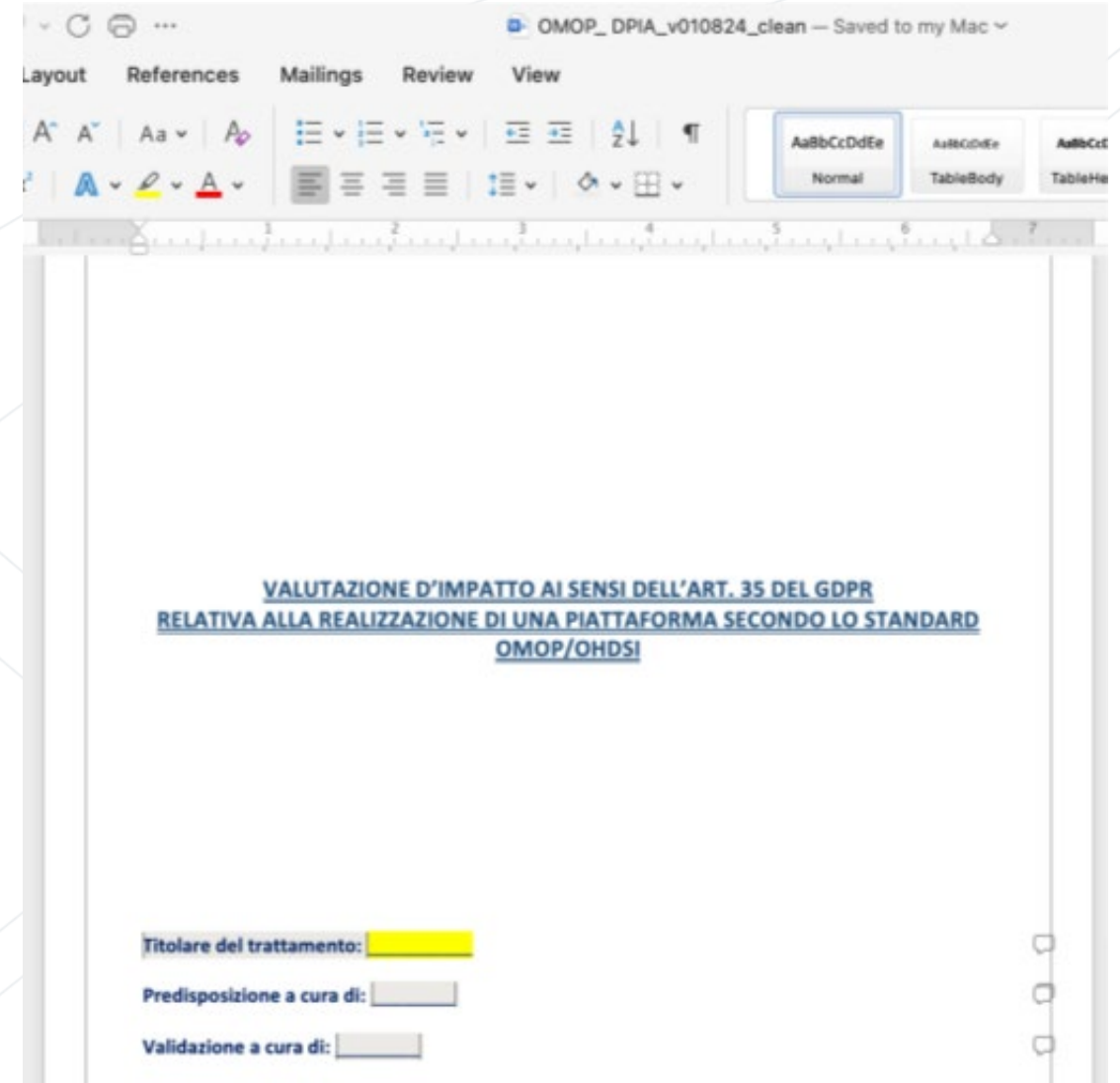
Creation of a template for **Data Protection Impact Assessment (DPIA)** for transferring data to an **OMOP Database** in a center

Objective: create a document that can be personalized by the centers and includes all the necessary information to prepare a complete DPIA
Can be used also for new data partners that are entering the node



Output

- Word template with notes that includes:
 - Pre-filled standard sections
 - Areas that can be customized by each data partner, with notes and implementation guidance
- Once created and approved, the DPIA can be used each time a study involving the OMOP infrastructure is performed



OMOP_DPIA_v010824_clean — Saved to my Mac

Layout References Mailings Review View

A⁺ A⁻ Aa A^o [List Icons] [Table Icons] [Page Icons] [Style Icons]

AaBbCcDdEe Normal TableBody TableHe

VALUTAZIONE D'IMPATTO AI SENSI DELL'ART. 35 DEL GDPR
RELATIVA ALLA REALIZZAZIONE DI UNA PIATTAFORMA SECONDO LO STANDARD
OMOP/OHDSI

Titolare del trattamento: [Yellow Box]

Predisposizione a cura di: [Grey Box]

Validazione a cura di: [Grey Box]

How we manage our studies

Definition of study-specific **Data Protection Impact Assessment**

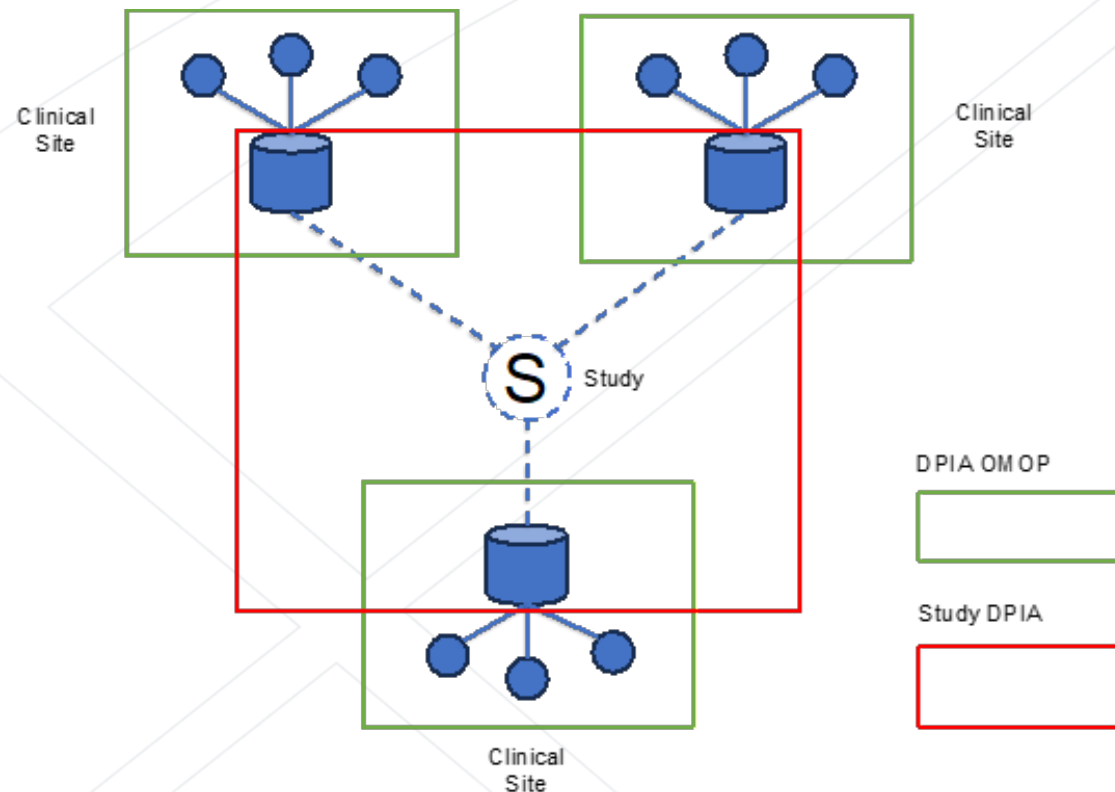


UNIVERSITÀ DI PAVIA
Dipartimento di Ingegneria Industriale e dell'Informazione

Atti e documenti

Home / Dipartimento / Atti e documenti

- Dipartimento Trasparente
- Calendario Consigli di Dipartimento
- Intranet (Area Riservata) →
- Verbali Organi Collegiali OR.CO. →
- Annuario Direttori
- Elezioni del Direttore 2024-2027
- Regolamenti di Ateneo
- Regolamento DIII
- Estratto DPIA OMOP RWD ITA del 29/11/2024



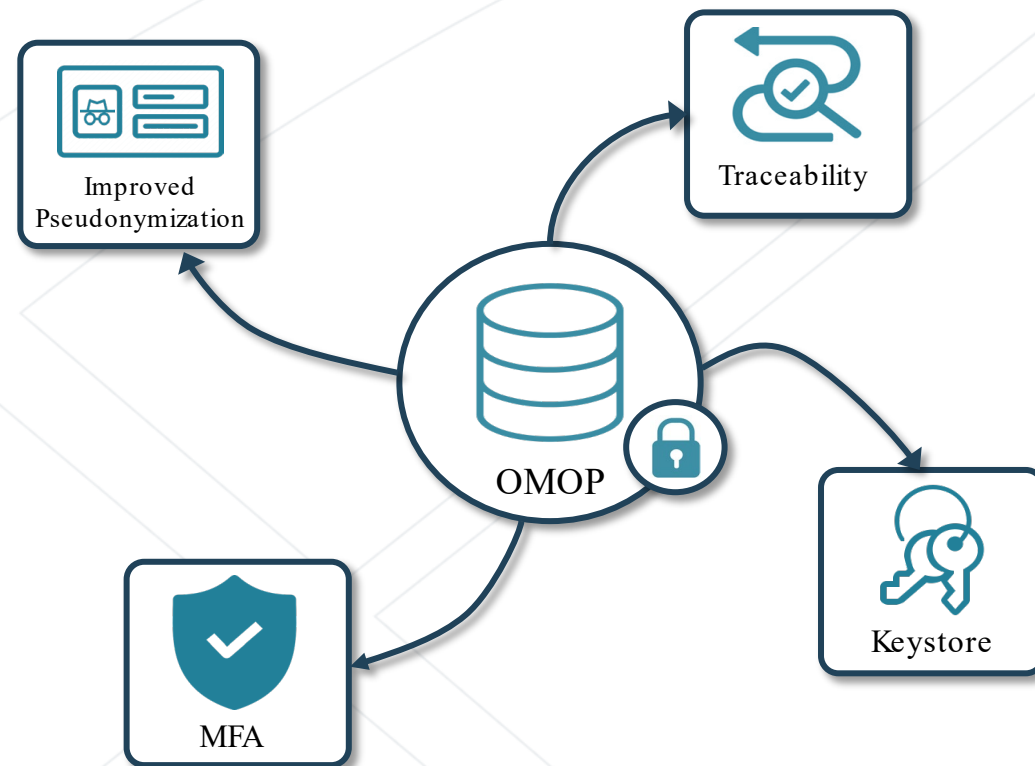
OMOP studies approval process

- OMOP approval (DPIA): only once
 - Time for OMOP approval can be highly variable in the centers
- Study-specific approval:
 - Time for Ethics Committee approval is usually shorter
 - Some centers need a Study-specific DPIA
 - “Local” promoter required for international studies

OMOP studies approval process

Additional security measures

- Improved Pseudonymization
 - randomly picked
 - symmetric encryption
- Traceability - Lookups tables
- Keystore
- MFA – Keycloak



The Italian OHDSI network for clinical research using healthcare Real World Data: a feasibility study



Coordinating Center
University of Pavia



Participating Centers
13 hospitals



Population
All patients included in the OMOP database of the participating centers



Objectives

- **Evaluate network readiness**
DQD, Achilles and other tools execution time
- **Characterize OMOP databases**
Data availability and completeness
- **Describe Population Coverage**
Demographics and volume of records across major domains



Outcome

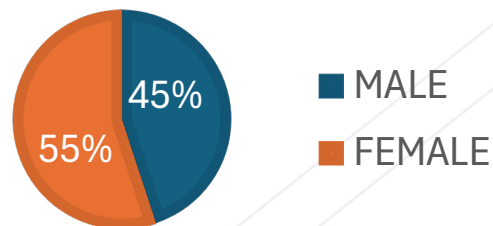
Establish a baseline assessment of the Italian OHDSI network's infrastructure, data availability, and capacity to support future multicenter observational and predictive studies

The Italian OHDSI network for clinical research using healthcare Real World Data: a feasibility study

Preliminary Results (10 / 13 centers)

- Approval process:
 - OMOP (DPIA) : Between 3 and 27 months for approval (average of 11 months)
 - Ethics Committee Approval: Between 1 and 3 months for approval (average of 1.5 months)
- Execution:
 - Achilles: median of 21.9 minutes (from 8.8 to 210.9 minutes)
 - DQD: median of 34.5 minutes (from 4 to 240 minutes).
- Data Quality
 - 23204 quality checks with failure rate of 1.1%
- Characterization

Population: 5.18 M



Data Types

Domain	# Data Sources
Condition occurrence	10 (100 %)
Measurement	10 (100 %)
Observation	9 (90 %)
Procedure occurrence	10 (100 %)
Death	6 (75 %)
Drug exposure	7 (62.5 %)
Device	2 (25 %)

Correlates of hospital sepsis. A longitudinal cohort study of the Italian OHDSI Node



Coordinating Center

Fondazione IRCCS Policlinico San Matteo,
Pavia



Participating Centers

9 hospitals



Population

Patients discharged between 2020
and 2022



Predictors

- Demographics (age, sex)
 - Comorbidities
- Laboratory measurements and delta features within 48 hours from admission
 - Procedures



Outcome

In-hospital sepsis at discharge



Validation

- Model development at the coordinating center
- External validation across participating center

Correlates of hospital sepsis. A longitudinal cohort study of the Italian OHDSI Node

Phase 1: Feasibility assessment done

Objective: Assess data availability and cohort size across participating centers

Activities

- Estimate eligible patient counts
- Evaluate completeness of candidate predictors

Outcome: Selection and refinement of the predictor set for model development

Phase 2: Model development and implementation ongoing

Objective: Development of prediction models using the OHDSI PLP package

Methodological extensions

- Introduction of delta-based laboratory predictors to capture temporal changes in patients' clinical status
- Development of custom feature-engineering procedures (e.g., implementation of predictor correlations assessment)

Outcome: Enhanced PLP workflow with novel preprocessing and predictor-generation capabilities tailored to the study objectives

Current status

- Training models using data from the coordinating center
- Optimizing model specifications and feature set

Correlates of hospital sepsis. A longitudinal cohort study of the Italian OHDSI Node

Next Steps

External validation

- Validate model performance across participating centers

Generate evidence

- Compare performance across sites
- Identify opportunities for further model improvement

Contribution to the OHDSI Community

Advancing an underexplored area

- Introduced laboratory measurement deltas as predictive features within the PLP framework

Reusable methodological developments

- Developed custom code for laboratory delta generation
- Implemented additional preprocessing functionalities (e.g., predictor correlation assessment)

Collaboration with the PLP Working Group

- Ongoing discussions with the PLP WG leadership to assess integration opportunities
- Share code, lessons learned, and best practices with the community

Future dissemination

- Present study results and methodological findings
- Explore pathways for incorporating developed tools into community resources

Mapping Italian drug codes to OMOP

- Low number of drugs included in the OMOP databases
- No mapping between OMOP and the national coding system: AIC (Marketing Authorization code)

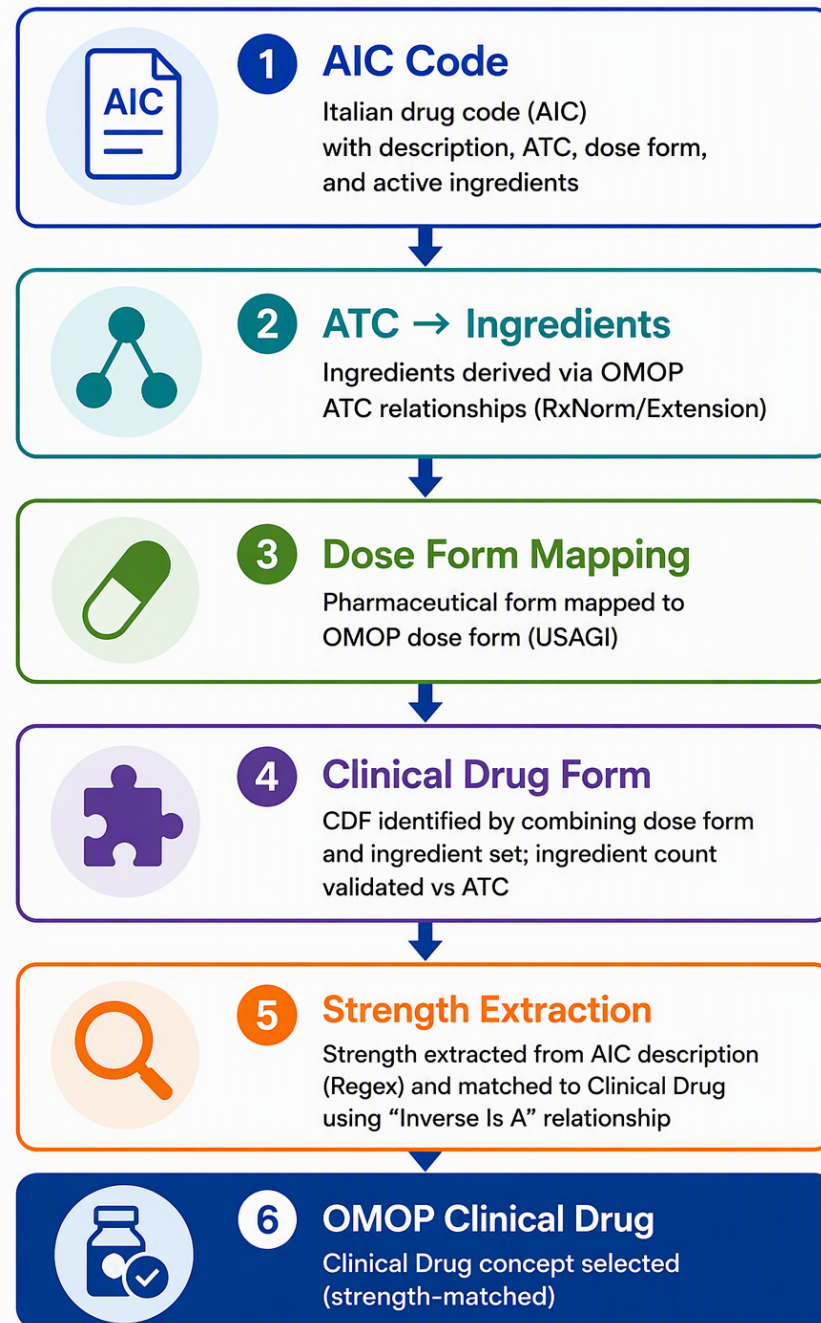
Mapping Italian drug codes to OMOP

- Low number of drugs included in the OMOP databases
- No mapping between OMOP and the national coding system: AIC (Marketing Authorization code)
- Mapping the AIC coding system to OMOP
 - Set-up of a collaboration with the National Medicine Agency (AIFA)
 - Definition and implementation of the workflow for the mapping process
 - Mapping results and related actions

Mapping AIC codes to OMOP

Definition and implementation of a 6-steps workflow for the mapping process

From the national AIC code to an OMOP clinical drug code



Mapping AIC codes to OMOP

- Mapping results (starting from ~ 90 000 AIC codes)

Step	AIC codes with OMOP mapping	Success Rate
Ingredient extraction	~77,000	86%
Clinical Drug Form identification	~75,000	84%
Complete Clinical Drug mapping	~63,000	71%

- What inputs to the OHDSI community:
 - Identification of specific national combinations (ingredients+form+dose) which could be introduced in the existing OMOP codes

Conclusions and current initiatives

- In these years, we overcome several barriers, enabling data partners to set-up and participate in studies
- We were able to define a pipeline for approval of studies using OMOP, and to provide templates of useful documentation that node members can use to facilitate participation
- We were able to set-up national institutional collaborations and synergies (AIFA, ISPOR)
- We worked a lot with the OHDSI community in a continuous exchange
- More initiatives ongoing:
 - Internal node survey on integration from OMOP to REDCap
 - Challenges of other NN in studies participation



Thank You !

04

COLLABORATIONS & SCHEDULE

Connecting opportunities,
upcoming activities & next steps
for the OHDSI Europe community



Collaborations



Don't see your logo? Mail to europe@ohdsi.org and we will add it!

Schedule spotlight

OHDSI Related events

- **OHDSI Austria call:** Oct 14 – Online
<https://www.linkedin.com/company/ohdsi-at/>

Educational activities

- **OMOP School 2026:** Uppsala, Sweden: Oct 13-16, 2026 **SOLD OUT**

EU Community Call

- **November 12th @13:00 CET**
→ OHDSI Norway

OHDSI Symposia

- **Global:** October 20-22, 2026 – New Brunswick, US
- **APAC:** November 13-15, 2026 - Seoul, South Korea
- **Canada:** November 17-18, 2026 – Toronto, Canada
- **Sweden:** November 24, 2026 – Uppsala, Sweden
- **India:** December 11, 2026 – Chennai, India
- **Europe:** April 24-26, 2027 – Helsinki, Finland

Nov 24th | Save the date!
Turning health data into impact!
How to make health data more available
and reusable in a reliable way

The OHDSI Sweden Symposium 2026
08:30-18:00, STUNS Life Science, Uppsala, Sweden

passion2improve

 **CHALMERS**
INDUSTRI TEKNIK

sfmi | SVENSK FÖRENING FÖR
MEDICINSK INFORMATIK



 **Region Uppsala**



 **SciLifeLab**



 **MyData**
Sweden



SWElife

VINNOVA
Sweden's Innovation Agency

OMOP 4 Sweden finansieras av Swelife, Vinnova och några av de deltagande aktörerna i konsortiet (bidrag 2025-01744 och 2025-04881).

Topics of the day (subject to change):

OMOP, OHDSI & OMOP 4 Sweden

- What is this about, and how can we integrate these assets in the Swedish health data ecosystem?

The international health data standardization landscape

- How do different health data standards link together in a vision for Sweden?

Experiences from leading and emerging OMOP practitioners

- OMOP in Practice: Stories from the field
- Taking their first steps with OMOP: Emerging practitioners

From data to insights (demo sessions)

- Once you have your data in OMOP format, what can you do with it?

National health data standardization, activities and perspectives

Poster exhibition, fika, lunch and mingle!

The event is free!

Registration page soon to be up on
<https://lifescience.stuns.se/>

Thanks for joining!

- See you November 12th @ 13:00 CET; call hosted by **OHDSI Norway**
- Contribute to this call with your project, publication or news?

europe@ohdsi.org



Follow our **OHDSI Europe**
LinkedIn page for news and
updates