Welcome to OHDSI

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OHDSI’s mission

To improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care
OHDSI’s values

- **Innovation**: Observational research is a field which will benefit greatly from disruptive thinking. We actively seek and encourage fresh methodological approaches in our work.
- **Reproducibility**: Accurate, reproducible, and well-calibrated evidence is necessary for health improvement.
- **Community**: Everyone is welcome to actively participate in OHDSI, whether you are a patient, a health professional, a researcher, or someone who simply believes in our cause.
- **Collaboration**: We work collectively to prioritize and address the real world needs of our community’s participants.
- **Openness**: We strive to make all our community’s proceeds open and publicly accessible, including the methods, tools and the evidence that we generate.
- **Beneficence**: We seek to protect the rights of individuals and organizations within our community at all times.
To improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care.
Map of collaborators

OHDSI By The Numbers

- 3,758 collaborators
- 83 countries
- 21 time zones
- 6 continents
- 1 community
Regional Chapters and National Nodes

An OHDSI regional chapter represents a group of OHDSI collaborators located in a geographic area who wish to hold local networking events and meetings to address problems specific to their geographic location.

The OHDSI Europe Chapter, in collaboration with the EHDEN project, recently created National Nodes to facilitate national and international collaborations.

An OHDSI Europe National Node is a collection of research institutes within a member country. The Node builds on the strengths of the stakeholders and scientific communities of that country. Each Node has a lead institute that oversees the work of that Node and assigns a lead and co-lead.

### Regional Chapters

**Africa**
Lead: Ahmed El Sayed, Cynthia Sung

**Australia**
Lead: Nicole Pratt

**China**
Lead: Hua Xu

**Europe**
Lead: Peter Rijnbaek

**India**
Lead: Lakshmi Kubendran

**Japan**
Lead: Tatsuo Hiramatsu

**Republic of Korea**
Lead: Seng Chan You

**Singapore**
Lead: Mengling ‘Mornin’ Feng

**Taiwan**
Lead: Jason Hsu

### European National Nodes

**Belgium**
Lead Institutions: Hasselt University, University Hospital Antwerp

**Germany**
Lead Institution: Technische Universität Dresden

**Greece**
Lead Institution: The Institute of Applied Biosciences, Centre for Research and Technology Hellas

**Italy**
Lead Institution: University of Pavia

**Luxembourg**
Lead Institutions: Luxembourg Institute of Health, Information Technology for Translational Medicine S.A.

**The Netherlands**
Lead Institution: Erasmus MC University Medical Center

**Portugal**
Lead Institution: Centro Hospitalar E Universitario De Coimbra Epe

**Spain**
Lead Institutions: Consorci Parc de Salut Mar Barcelona, IDIAPJGB

**United Kingdom**
Lead Institution: Health Data Sciences Section, Botnar Research Centre, University of Oxford
OHDSI Workgroups

OHDSI has a central mission to improve health globally, but there are countless areas where our community can be of service. Work around data, methods, open-source tools, and clinical applications are all pieces of the puzzle, and within OHDSI, there are opportunities to work in any or many of these areas.

Our workgroups, led by the extraordinary leads shown on these pages, offer opportunities for all community members to find a home for their talents and passions, and make meaningful contributions. We are always looking for new collaborators. See an area where you want to contribute? Please Join The Journey!

www.ohdsi.org/workgroups
OHDSI standardized vocabularies

OHDSI Vocabularies By The Numbers

- 11,027,290 concepts
- 3,598,454 standard concepts
- 847,008 classification concepts
- 82,142,038 concept relationships
- 87,967,689 ancestral relationships
- 142 vocabularies
- 44 domains

1 Shared Resource to Enable Data Standards
OMOP Common Data Model adoption

OMOP CDM Users By The Numbers

- 534 data sources
- 49 countries
- 956 million unique patient records (12% of world’s population)
HADES

HADES is a set of open source R packages for large scale analytics, including population characterization, population-level causal effect estimation, and patient-level prediction.

The packages offer R functions that together can be used to perform an observational study through the full journey from data to evidence, including data manipulation, statistical modeling, and results generation with supporting statistics, tables and figures.

Each package includes functions for specifying and subsequently executing multiple analyses efficiently. HADES supports best practices for use of observational data as learned from previous and ongoing research, such as transparency, reproducibility, as well as measuring of the operating characteristics of methods in a particular context and subsequent empirical calibration of estimates produced by the methods.

Learn more about the individual HADES packages in this section.

The eight HADES packages shown above have been released on CRAN and have been downloaded more than 500,000 times.
OHDSI scholarship

Publications & Cumulative Citations

Summary

609
PubMed Manuscripts

3613
PubMed Authors

Cumulative Citations

- 12,000
- 11,000
- 10,000
- 9,000
- 8,000
- 7,000
- 6,000
- 5,000
- 4,000
- 3,000
- 2,000
- 1,000

Publications

OHDSI collaborations in scholarship
OHDSI demonstration of impact

• Treatment pathways $\rightarrow$ clinical heterogeneity
• Negative controls $\rightarrow$ regulatory best practices
• Background incidence rates $\rightarrow$ regulatory decisions on vaccines
• LEGEND-HTN $\rightarrow$ clinical guidelines
Our Journey

Where The OHDSI Community Has Been
And Where We Are Going

2023 edition

OHDSI
Observational Health Data Sciences and Informatics