OHDSI: Observational Health Data Sciences and Informatics

**Who?**
- Multiple stakeholders: government, industry, academia, health systems
- Multiple disciplines: informatics, epidemiology, statistics, clinical sciences

**Why?**
- Improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care.

**Where?**
- Global Network with 100+ countries
- OHDSI collaborators access a network of 600 million patients.

**How?**
- Developing tools for data standardization and large-scale network analytics

**Areas of focus**
- Data Standardization
- Quality Improvement
- Comparative Effectiveness Research
- Personalized Risk Prediction
- Data Characterization
- Medical Product Safety Surveillance

**Serving individuals & Organizations**
- Hospitals & Medical universities
- Patients
- Providers
- Researchers
- Health Care Systems
- Industry
- Government Agencies

**OHDSI India Chapter | Collaboration benefits**

- **Data Holders** - Gain access to tools enabling high quality data standardization and data analysis building on open science values.

- **Researchers** – Join a global forum to work together with 2500 researchers across multiple disciplines.

- **Health Care Providers** – Evidence Generation for medical decision making both at patient and population level.

- **Patients & Consumers** – Push the industry towards personalized medicine that helps companies to design patient-centered paradigms.

**OHDSI benefits a range of individuals and organizations, including patients, providers & researchers, as well as health care systems, industry & government agencies.**

**Want to Join The Journey? Reach out to us at shyamli@ohdsi.org**
OHDSI Schematic Overview

**Sources of Real-World Data (RWD)**
- Electronic Medical Record
- Labs & Diagnostics
- E-health
- Pharmacy
- Claims
- Health Monitoring Device
- Genetic Test & Biomarkers
- Patient-Reported Outcome

**Patient-level prediction**
- What Happened To Patient?

**Population-level effect estimation**
- What Will Happen to Patient?
- What Are The Causal Effects?

**Data Collection**
- Routine clinical data collection
- Raw data

**Data Standardization**
- OMOP data

**Evidence Generation**
- Clinical Characterization

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**Value Proposition**

- **Data Quality:** Improve the quality of data for data analysis by OMOP standardization
- **Data Interoperability:** Supports cross-institutional collaborations with one data format and one code set
- **Reproducibility:** Same data with the same analysis generates the same evidence
- **Data Confidentiality:** Data is not shared only algorithms / code sets that can be run on individual databases.
- **Global Network Studies:** Facilitates large-scale observational research at sites across the globe.
- **Global Community:** Community with an International network of researchers and data partners.
- **Open Science:** Produce more reliable studies and address new research ideas

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**Aims & Objectives**

**OHDSI India** aims to collaborate with hospitals, medical universities, and key healthcare stakeholders to:

1. Promote open science to generate new avenues in India which help the population in Low economic strata, rural areas, most prevalent communicable and non-communicable diseases in India
2. Establish consistent methodologies and best practices for data protection
3. Expand awareness of RWD & RWE in India
4. Expand access to patient data in India and standardize to OMOP standards
5. Conduct observational studies across multiple real-world OMOP datasets
6. Perform secondary research using OHDSI tools that address the healthcare needs in India

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We welcome you to be a part of the journey to better patient and health outcomes!

- **The Book of OHDSI** will serve as a central knowledge repository for all OHDSI things - [Book of OHDSI](https://www.ohdsi.org)
- **OHDSI website** - [ohdsi.org](https://www.ohdsi.org)
- **Introduce yourself here** – [OHDSI forum](https://www.ohdsi.org)
- **Join OHDSI meeting** – [Join OHDSI Community Call](https://www.ohdsi.org)
- **Available working groups** – [Join A Working Group](https://www.ohdsi.org)
- **Other regional chapters** - [https://www.ohdsi.org/who-we-are/regional-chapters/](https://www.ohdsi.org/who-we-are/regional-chapters/)

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**Founding Organizations**

Global Value Web & JSS Academy of Higher Education & Research are working on establishing the OHDSI India Chapter.

We invite collaborators to Join the Journey towards improving health outcomes for patients around the world.

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