Common Data Model WG
Q1 2022 Updates

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Let’s Go Back in Time....
Observed Medical Outcomes Partnership

2009

2014
Observed Medical Outcomes Partnership

2009

CDM EAV Section

Terminology Dictionary

2014

Note: Technically speaking, the Terminology Dictionary fully defines both Drug and Outcome. However, OMOP Researchers may find it convenient to leverage data replicated in the CDM’s Entity-Relationship (ER) Section.
Observed Medical Outcomes Partnership

CDM v1

2009 - 2014
Observed Medical Outcomes Partnership

CDM v1

Terminology Dictionary (Concept)

Person

Observation Period

Drug

Condition

Observation

Procedure

Visit

Health Outcome of Interest

2009

2014
Observed Medical Outcomes Partnership

CDM v1

2009

CDM v2

2014
Observed Medical Outcomes Partnership

CDM v1

CDM v2

CDM v3

2009

2014
Observed Medical Outcomes Partnership

- **Person**
  - Observation_period
  - Payer_plan_period
  - Location
  - Visit_occurrence

- **Provider**
  - Care_site
  - Organization

- **Drug_exposure**
  - Drug_era
  - Drug_cost

- **Condition_occurrence**
  - Condition_era

- **Procedure_occurrence**
  - Procedure_cost

- **Observation**
  - Cohort
  - Death

**Standardized Vocabulary**

- *Health Outcomes of Interest*
- *Drugs of Interest*
- *Interventions*
Observed Medical Outcomes Partnership

CDM v1

CDM v2

CDM v3

CDM v4

2009

2014
Observed Medical Outcomes Partnership
OHDSI

let’s party

2016

2020
CDM v5.0.1
CDM v5.0.1 2017

CDM v5.1 2016

CDM v5.1 2020

OHDSI
Home
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OMOP Common Data Model v5.1.1 Specifications
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12 July 2017

Welcome to the Common Data Model wiki! This wiki houses all of the documentation for the latest changes added with each release. You can find a pdf added to each release with a historical version of the time of the release. You can navigate the pages using the table of contents below or the links:

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OMOP Common Data Model

The Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM) is an open-source, versioned data model designed to standardize the structure and content of observational data and to enable efficient analyses of the data in this domain. A key component of the OMOP CDM is the OHDSI standardized vocabularies. The OHDSI vocabularies are a set of common terminology to be used across the various clinical domains of the OMOP common data model and enable the construction of a common knowledge base when constructing exposure and outcome phenotypes and other features with links to longitudinal data. They are also used in estimating, and patient-level prediction studies.

This website is meant to serve as a resource describing the specification of the available version of the CDM, the structure of the model itself and the agreed upon conventions for each table and field as deciduous documents. Tables and related documentation are part of the model and, as such, are detailed here. To download the vocabulary itself, learn more about the OHDSI suite of tools designed to implement best practices in characterizing, and estimating patient-level prediction, please visit https://ohdsi.github.io/Hades/.

Current CDM Version

The current CDM version is CDM v5.4, depicted below. This CDM version was developed over the course of the year and was informed by input from the community. The list of proposed changes was then shared with the community in the OHDSI Community calls, discussions with the OHDSI Steering Committee, and discussions with the Community. The changes were then delivered to the Community through a new R package designed to dynamically generate CDM terminology for supported SQL dialects.

- Link to DDLs for CDM v5.4
- Link to ReadMe for instructions on how to use the R package
CDM v5.4
Our Learnings Throughout the Years

• We are responsible for maintaining, documenting, and promoting the OMOP Common Data Model

• We must make sure the community is aligned on the path forward for the model

• USE CASE IS EVERYTHING
2022 OKR: Common Data Model

1. Promote Adoption of CDM v5.4
   1Q2022 Key Results:
   1. Host at least 3 CDM Workshops designed to support network participants in their movement to CDM v5.4.
   2. Design a maturity model for CDM extensions that will clearly describe key elements needed for a set of tables to be considered an ‘extension’.
   3. Design the skeleton of the OHDSI Resource Library by creating a list of all necessary items, whether already available or to-do.