



Common Data Model WG

Q1 2022 Updates



Clair Blacketer
Christian Reich





Let's Go Back in Time....





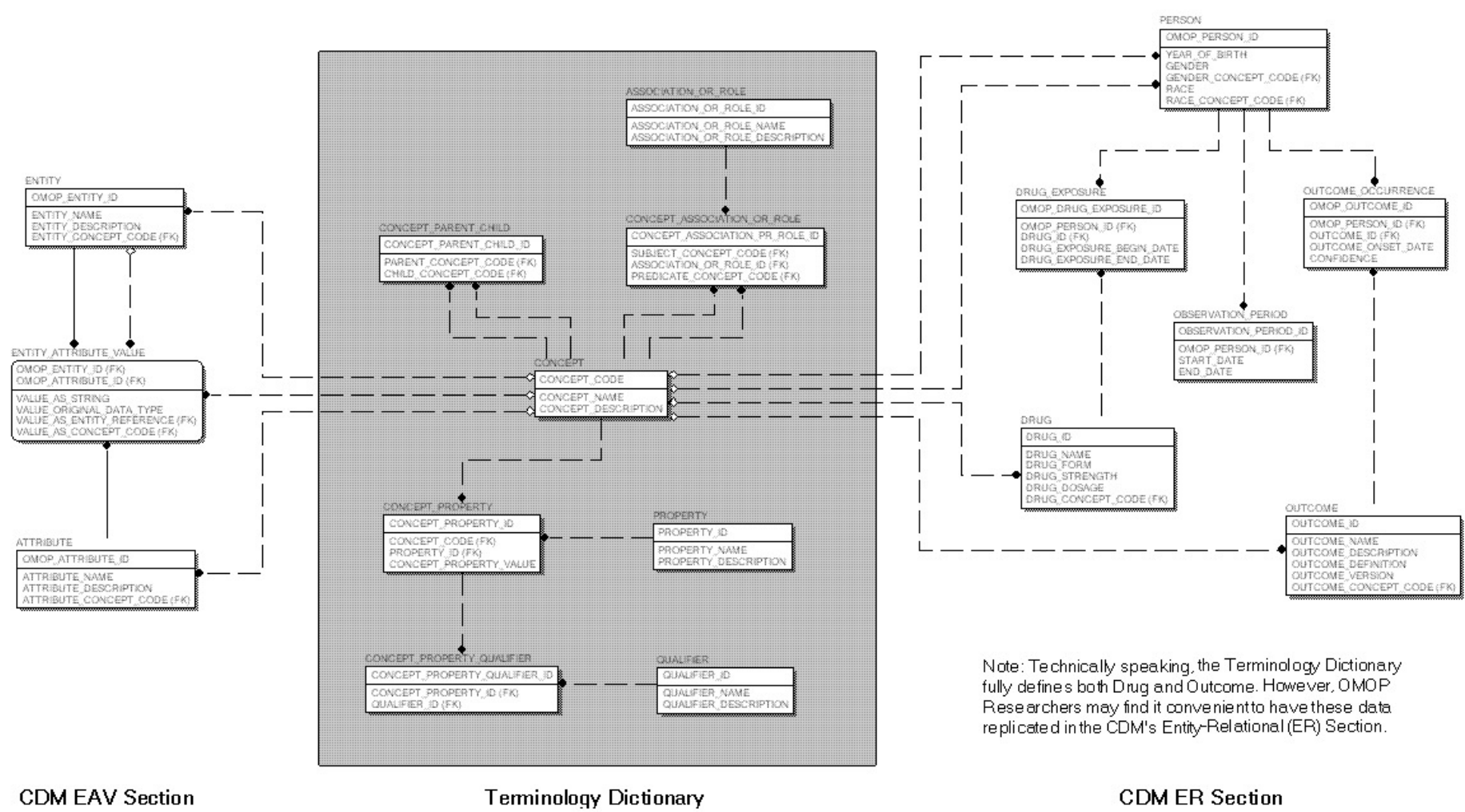
Observed Medical Outcomes Partnership





Observed Medical Outcomes Partnership

2009



2014

2014

Note: Technically speaking, the Terminology Dictionary fully defines both Drug and Outcome. However, OMOP Researchers may find it convenient to have these data replicated in the CDM's Entity-Relational (ER) Section.

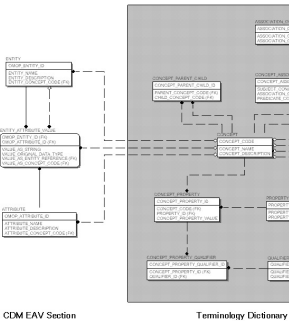


2009

2014

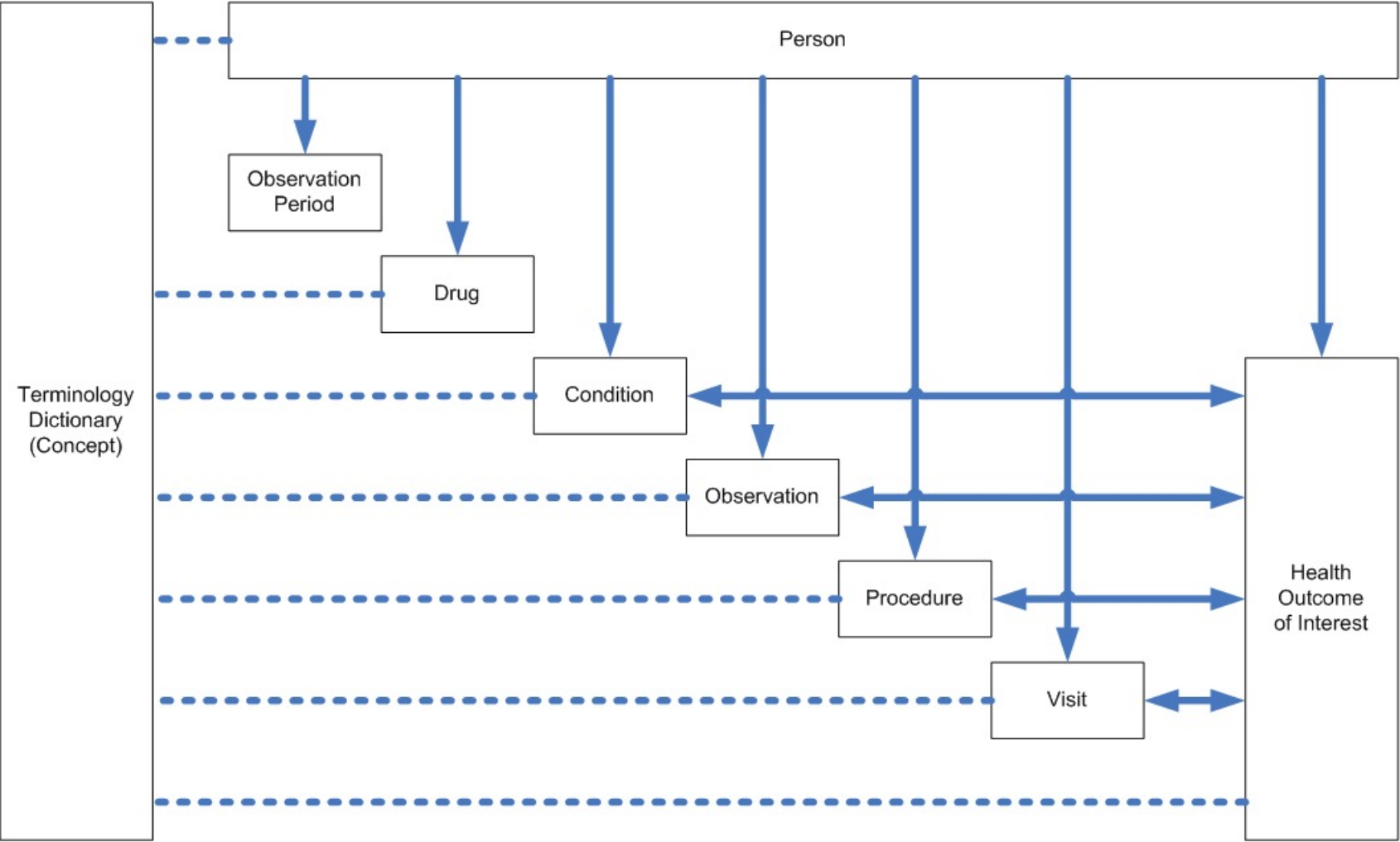


Observed Medical Outcomes Partnership



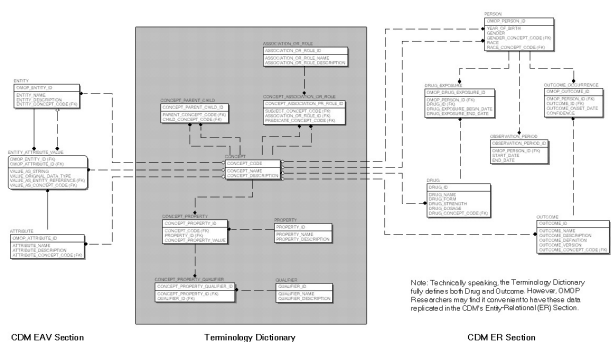
CDM

2009



2014

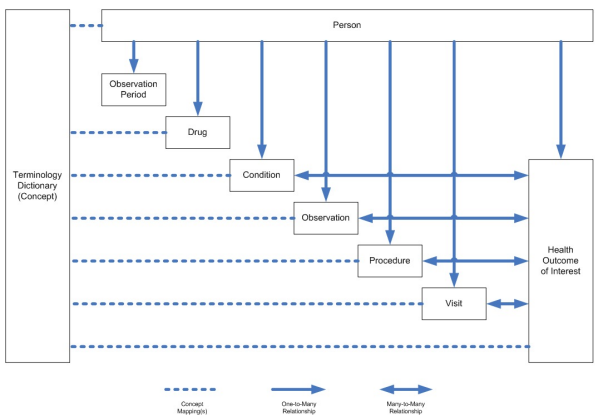




CDM v1

CDM v2

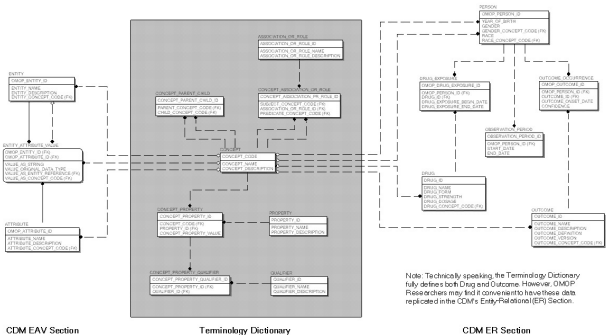
2009



2014



Observed Medical Outcomes Partnership



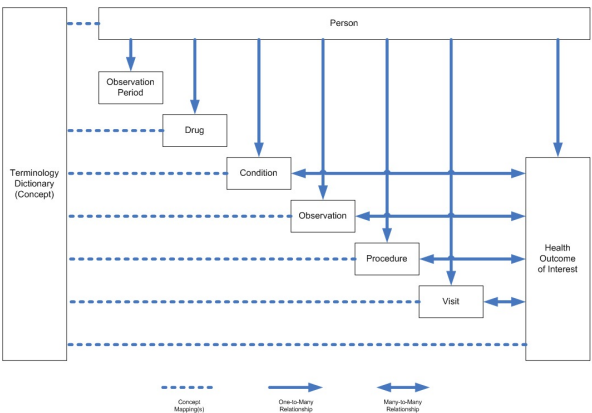
CDM v1



CDM v3

CDM v2

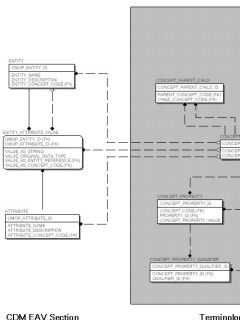
2009



2014

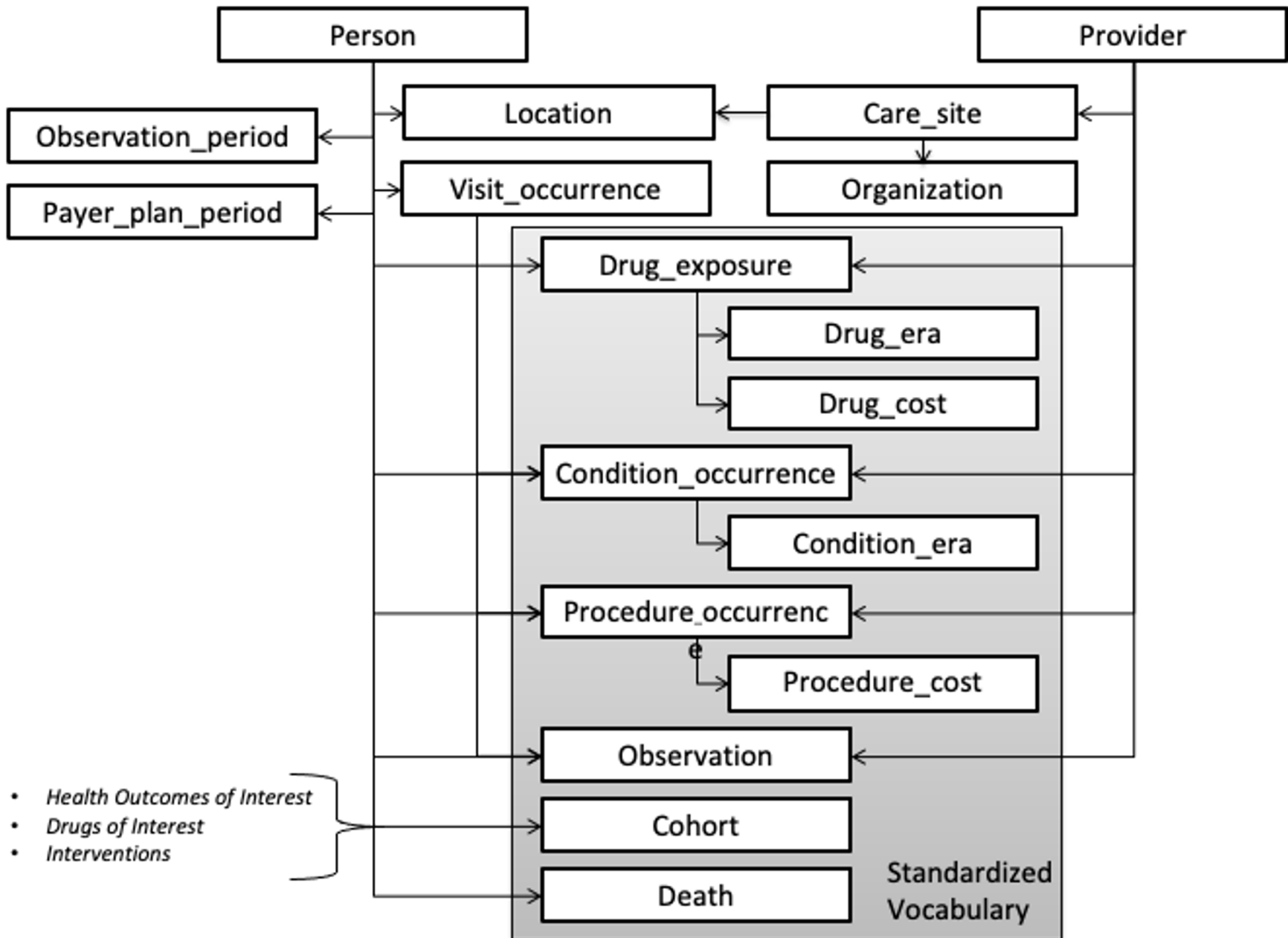


Observed Medical Outcomes Partnership



CDM

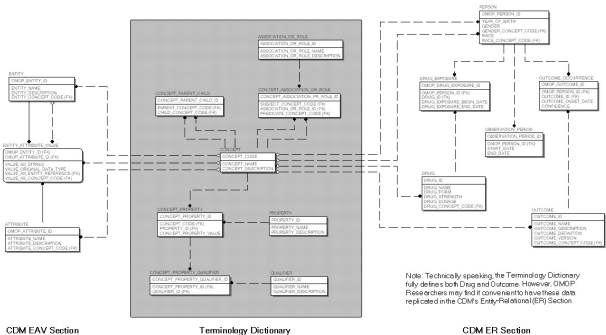
2009



2014



Observed Medical Outcomes Partnership

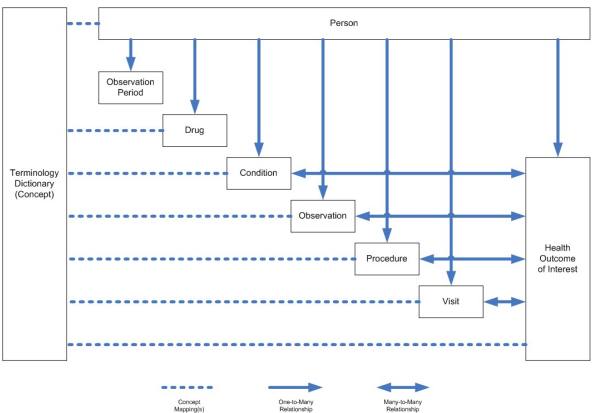


CDM v1



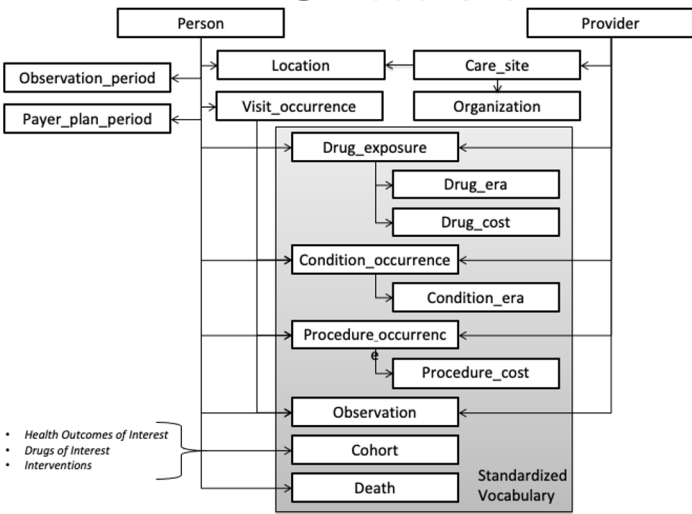
CDM v3

CDM v2



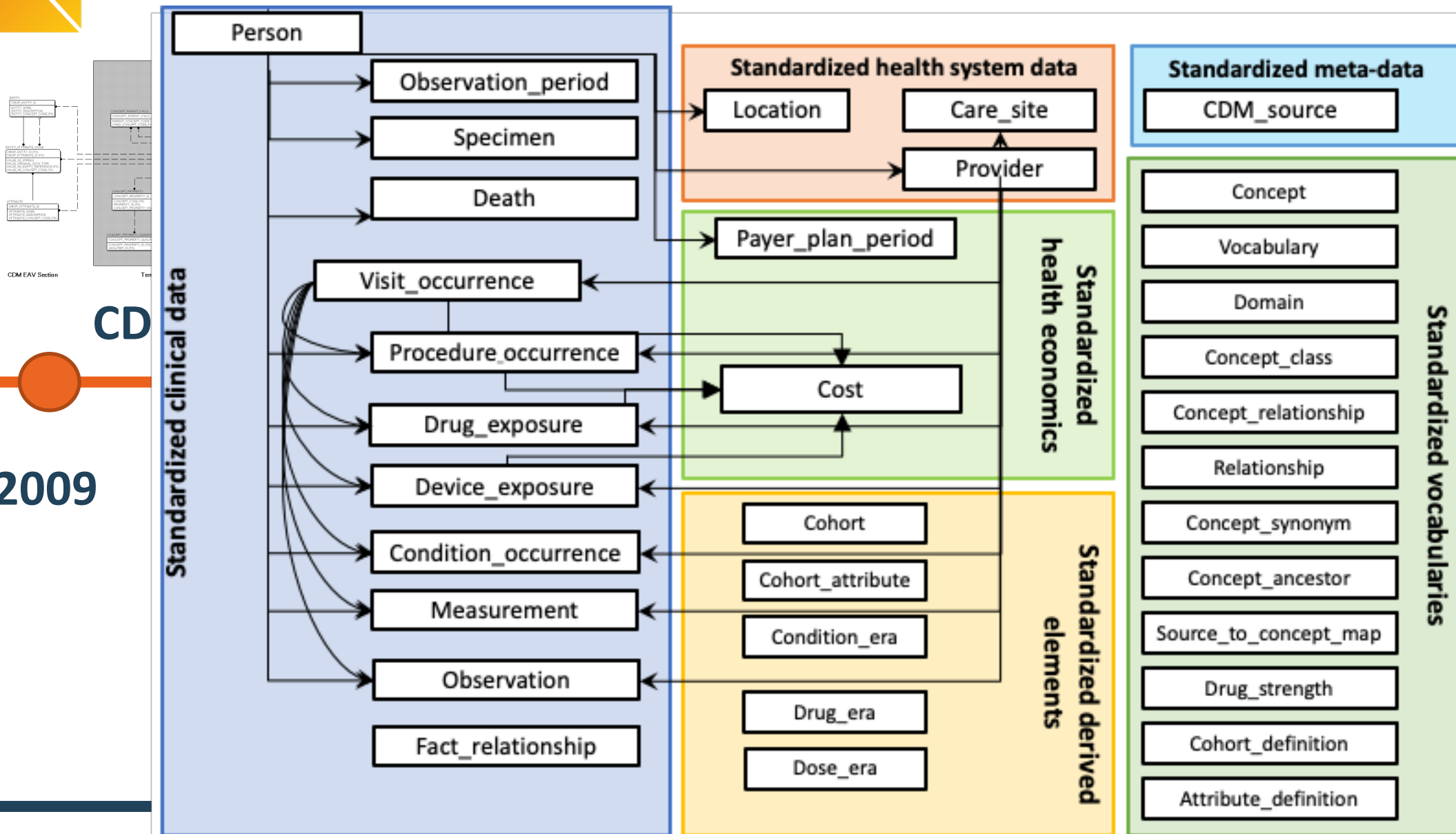
2009

CDM v4



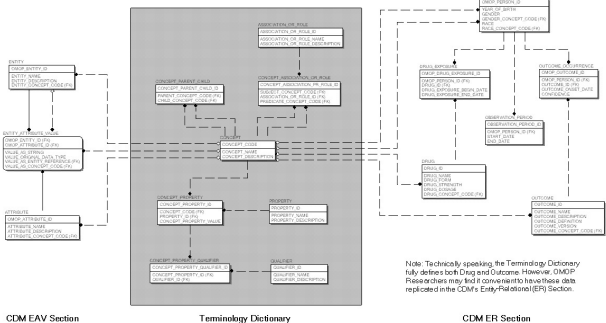
2014

Observed Medical Outcomes Partnership





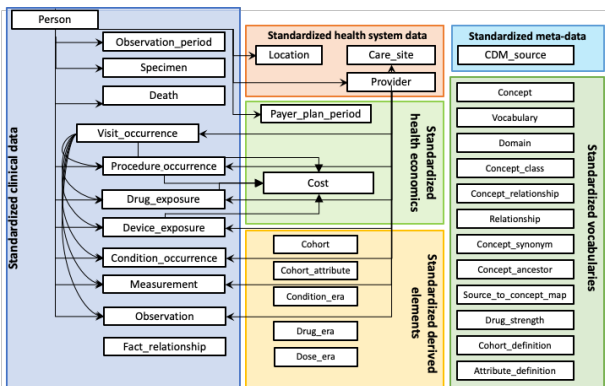
Observed Medical Outcomes Partnership



CDM v1



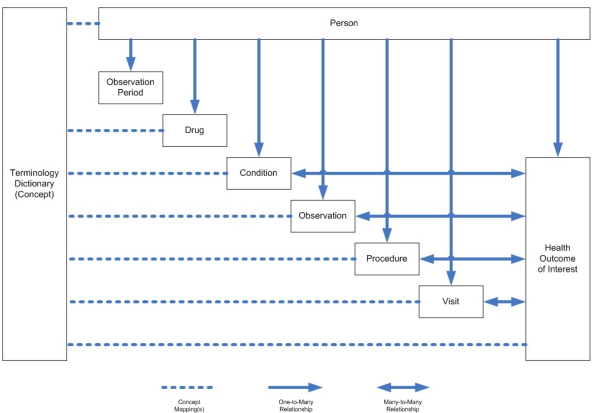
CDM v3



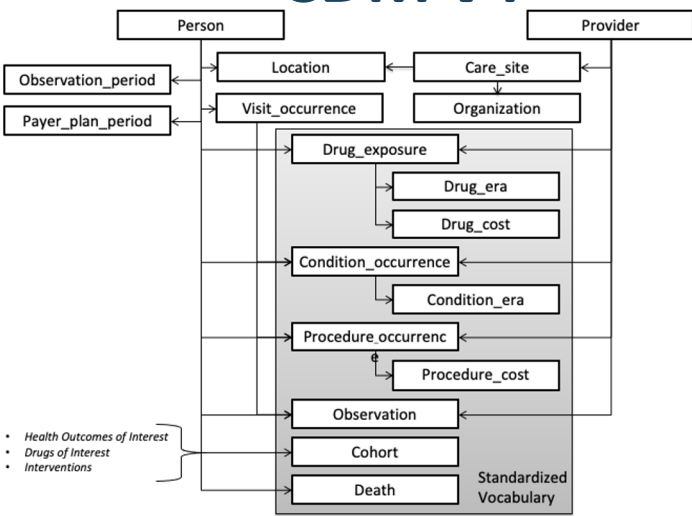
CDM v5.0

2009

CDM v2



CDM v4



2014



OHDSI

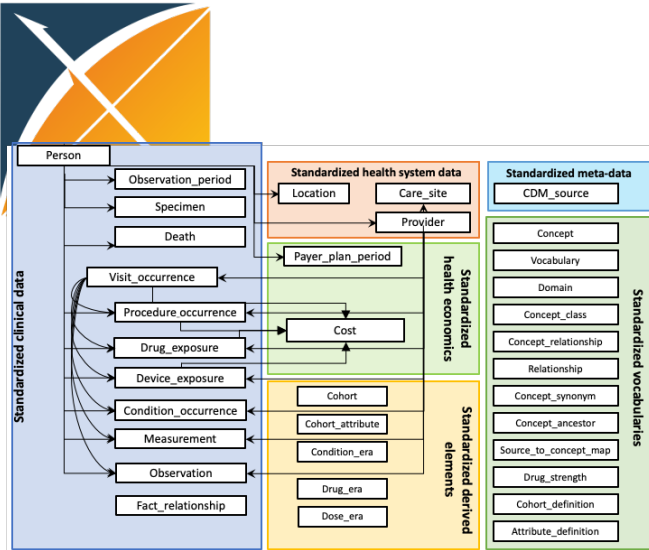


2016



2020

OHDSI

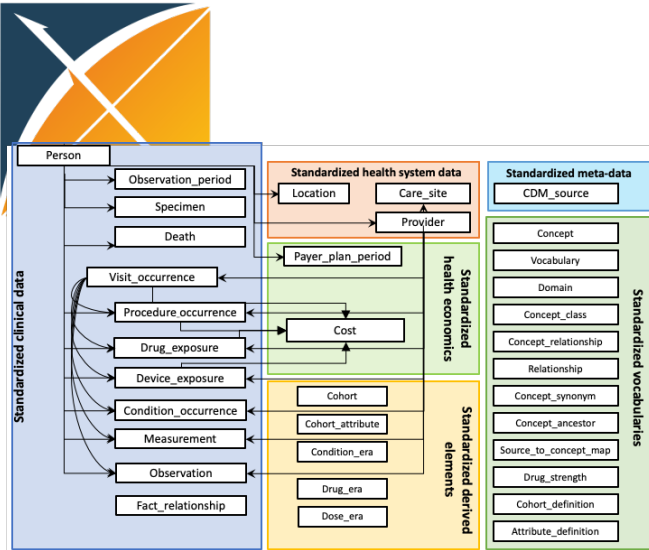


CDM v5.0.1

2016

2020

OHDSI

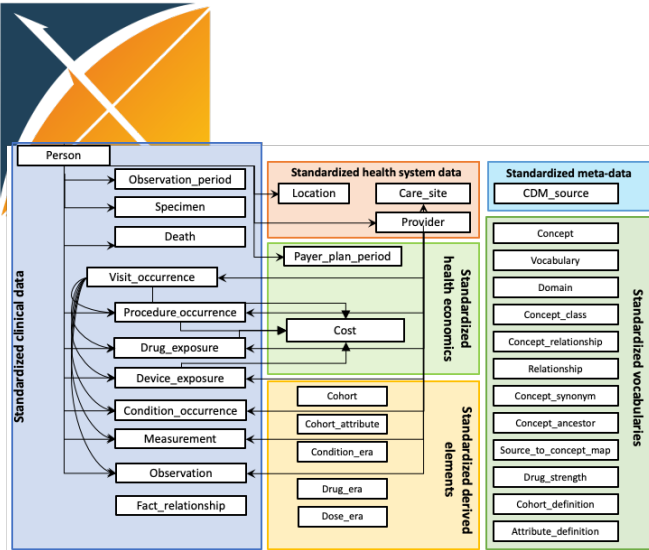


CDM v5.0.1

2016

2020

OHDSI



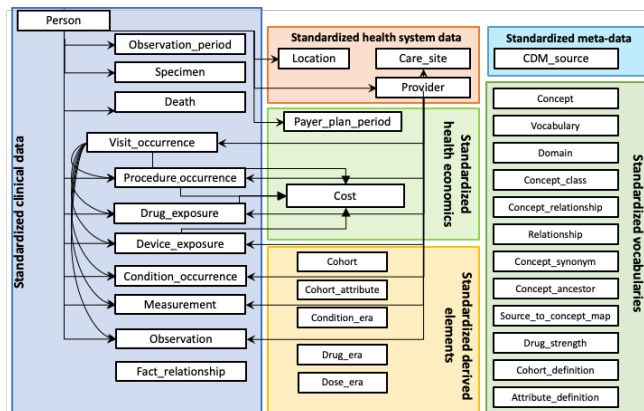
CDM v5.0.1

2017

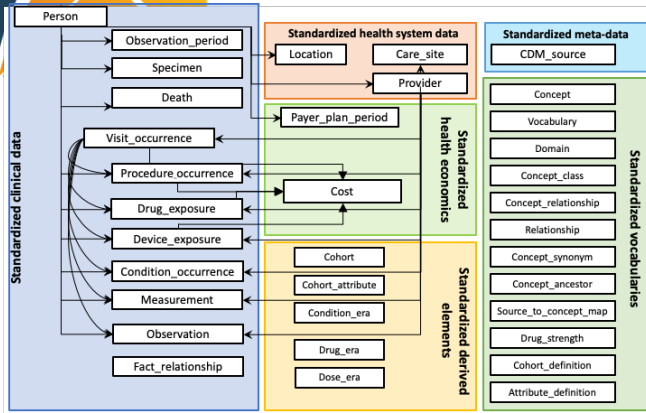
2016

CDM v5.1

2020

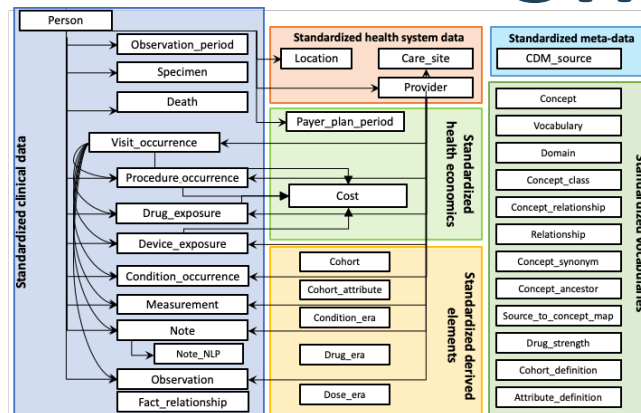


OHDSI



CDM v5.0.1

2017



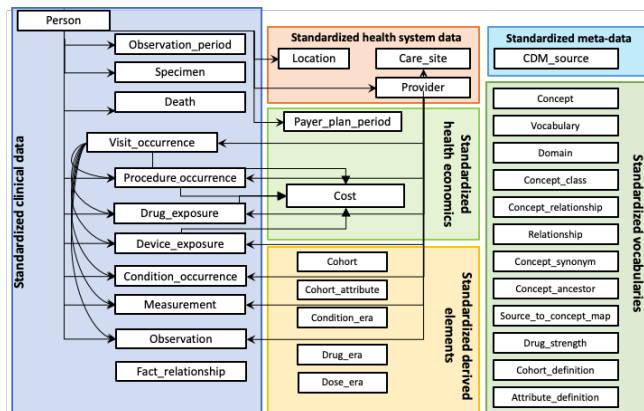
CDM v5.2

2016

CDM v5.1

2017

2020



Home

clairblacketer edited this page on Jul 12, 2017 · 26 revisions

OMOP Common Data Model v5.1.1 Specifications

Authors: Christian Reich, Patrick Ryan, Rimma Belenkaya, Karthik Natarajan, Clair Blacketer
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 link

Table of Contents

[License](#)

[Background](#)

[The Role of the Common Data Model](#)

[Design Principles](#)

[Data Model Conventions](#)

[Glossary of Terms](#)

[Standardized Vocabularies](#)

[CONCEPT](#)

[VOCABULARY](#)

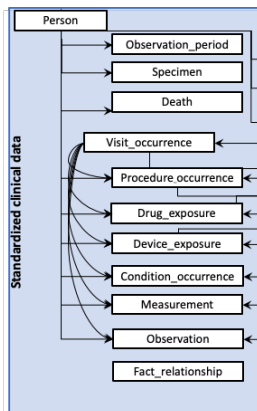
[DOMAIN](#)

[CONCEPT_CLASS](#)

CDM v5.0.1

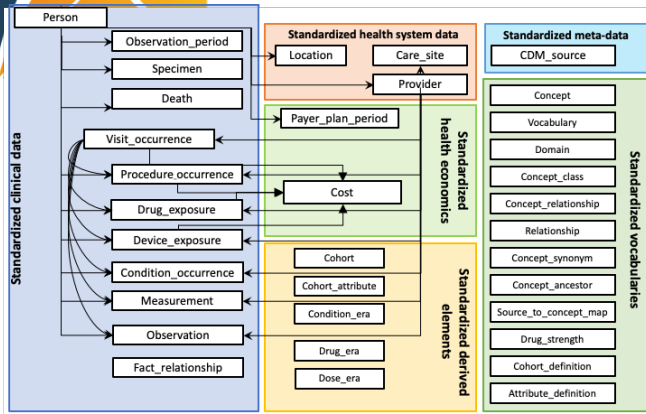
2016

CDM



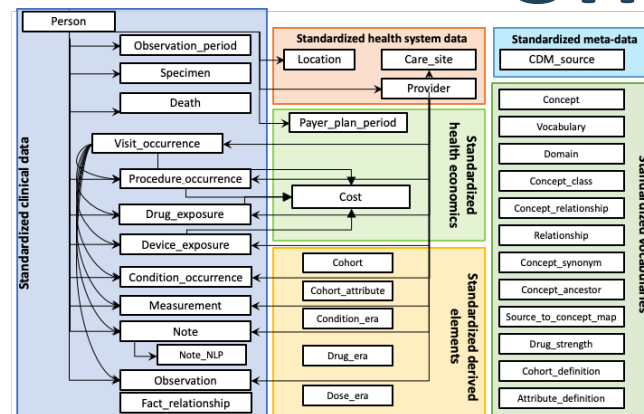
2020

OHDSI



CDM v5.0.1

2017

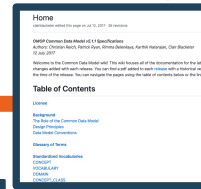


CDM v5.2

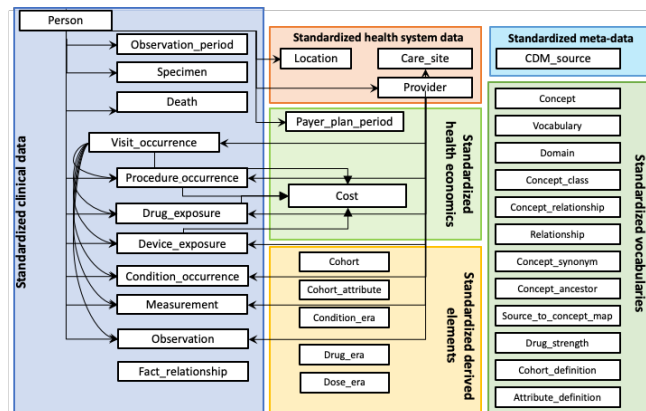
2016

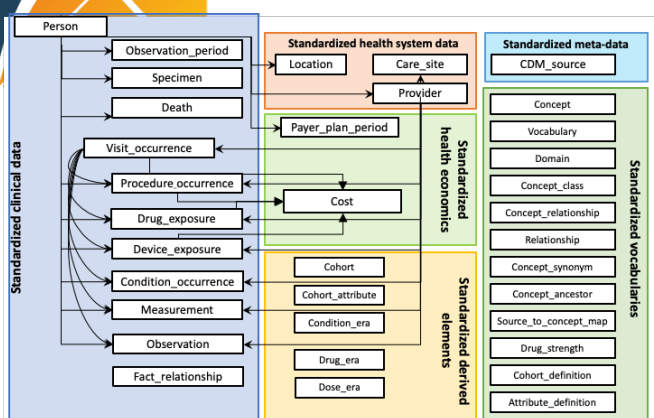
CDM v5.1

2017

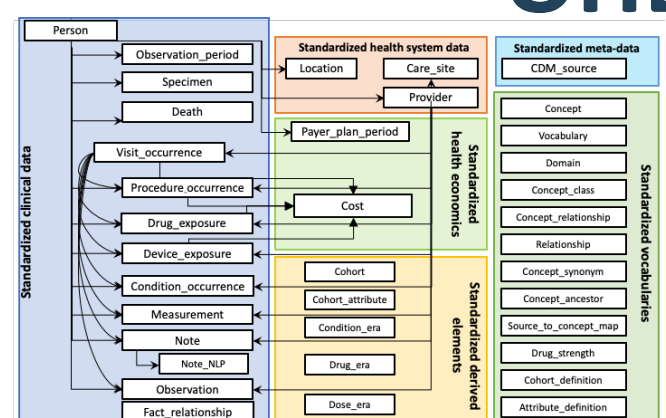


2020

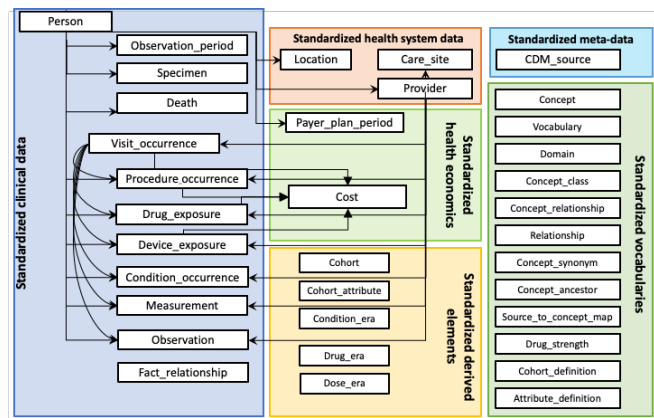




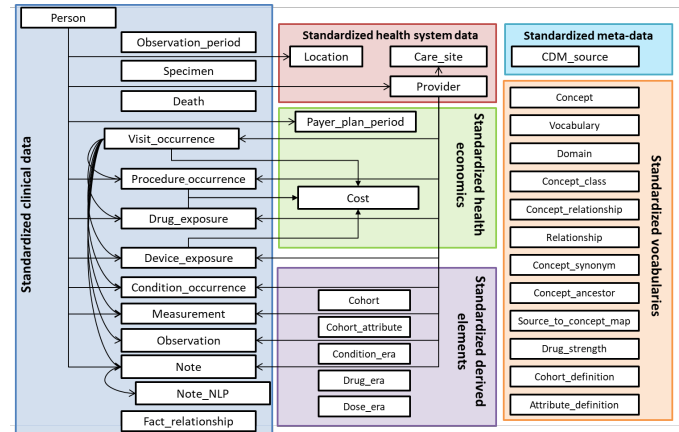
2017



2018



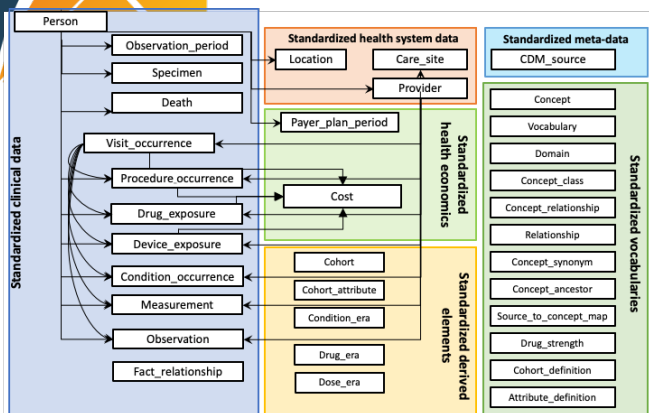
2017



CDM v5.3

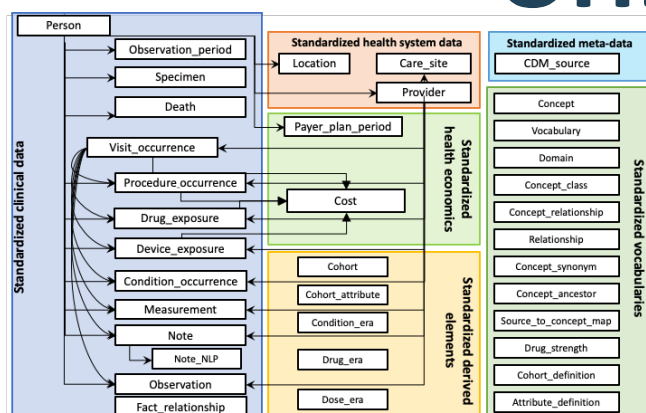
2020

OHDSI



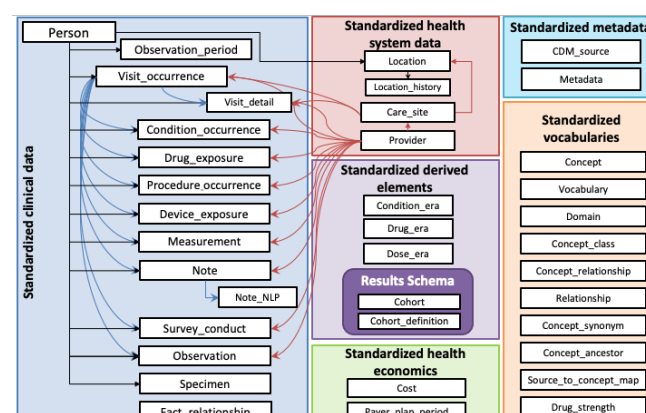
CDM v5.0.1

2017



CDM v5.2

2018



CDM v6.0

2016

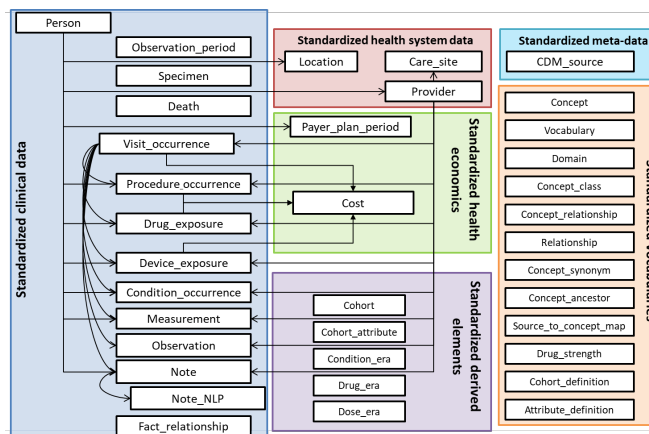
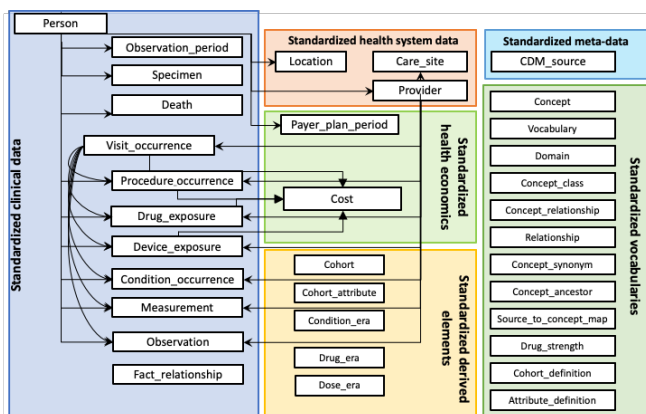
CDM v5.1

2017

CDM v5.3

2018

2020



OMOP Common Data Model

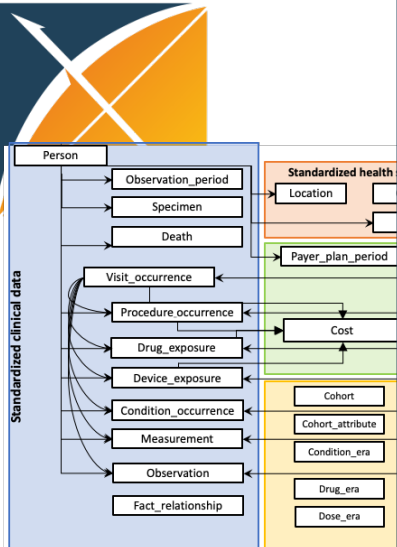
The Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM) is an open standard to standardize the structure and content of observational data and to enable efficient analyses thereof. A key component of the OMOP CDM is the OHDSI standardized vocabularies. The OHDSI vocabularies provide a common set of terms to be used across the various clinical domains of the OMOP common data model and enable the creation of a common knowledge base when constructing exposure and outcome phenotypes and other features with machine learning, estimation, and patient-level prediction studies.

This website is meant to serve as a resource describing the specification of the available version of the model itself and the agreed upon conventions for each table and field as decided by the community. The tables are part of the model and, as such, are detailed here. To download the vocabulary itself, or for more information about the OHDSI suite of tools designed to implement best practices in characterizing cohorts for patient-level prediction, please visit <https://ohdsi.github.io/Hades/>.

Current CDM Version

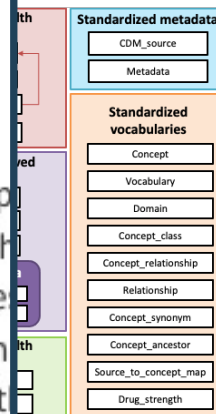
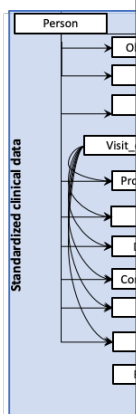
The current CDM version is [CDM v5.4](#), depicted below. This CDM version was developed over the course of 2016 and was sent via our [issues page](#). The list of proposed changes was then shared with the community in OHDSI Community calls, discussions with the OHDSI Steering Committee, and discussions with the community. [Changes](#) were then delivered to the Community through a new R package designed to dynamically generate supported SQL dialects.

- [Link to DDLs for CDM v5.4](#)
- [Link to ReadMe for instructions on how to use the R package](#)



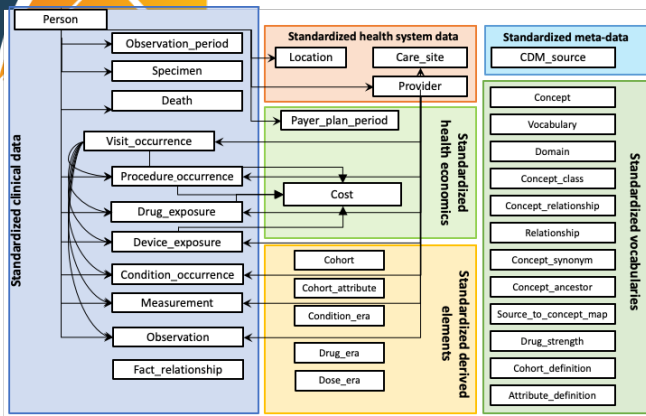
CDM v5.0.1

2016



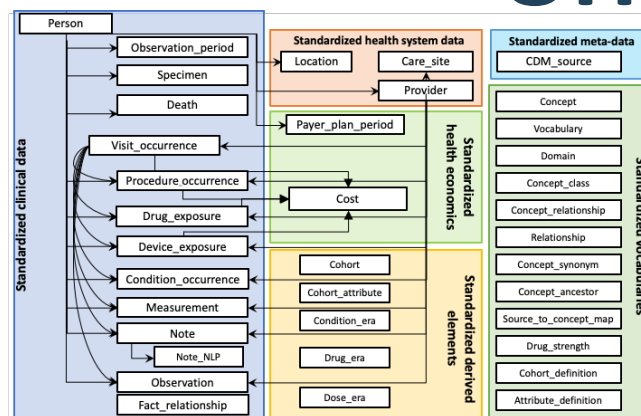
2020

OHDSI



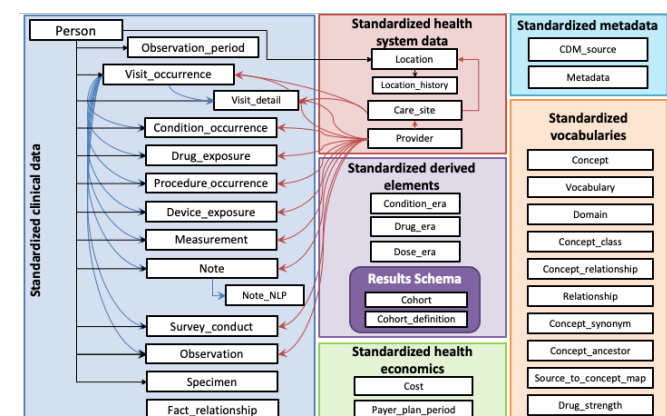
CDM v5.0.1

2017



CDM v5.2

2018



CDM v6.0

2016

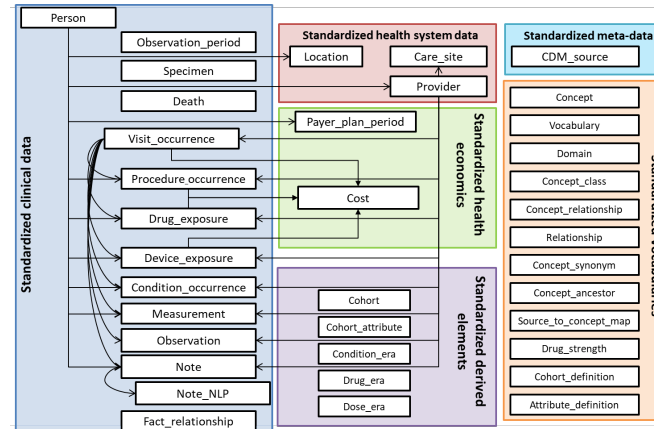
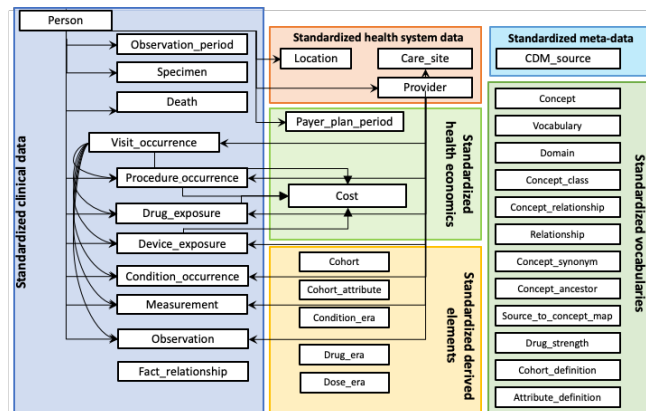
CDM v5.1

2017

CDM v5.3

2018

2020



OMOP Common Data Model

Background Conventions CDM Versions

OMOP Common Data Model

The Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM) is an open standard for the structure and content of observational data and to enable efficient analyses of this data. The OMOP CDM is the OHDSI standardized vocabularies. The OHDSI vocabularies are terms to be used across the various clinical domains of the OMOP common data model and are the knowledge base when constructing exposure and outcome phenotypes and other features with patient-level prediction, please visit <https://ohdsi.github.io/Hades/>.

This website is meant to serve as a resource describing the specification of the available version of the model itself and the agreed upon conventions for each table and field as decision tables are part of the model and, as such, are detailed here. To download the vocabulary itself, information about the OHDSI suite of tools designed to implement best practices in characterizing patient-level prediction, please visit <https://ohdsi.github.io/Hades/>.

Current CDM Version

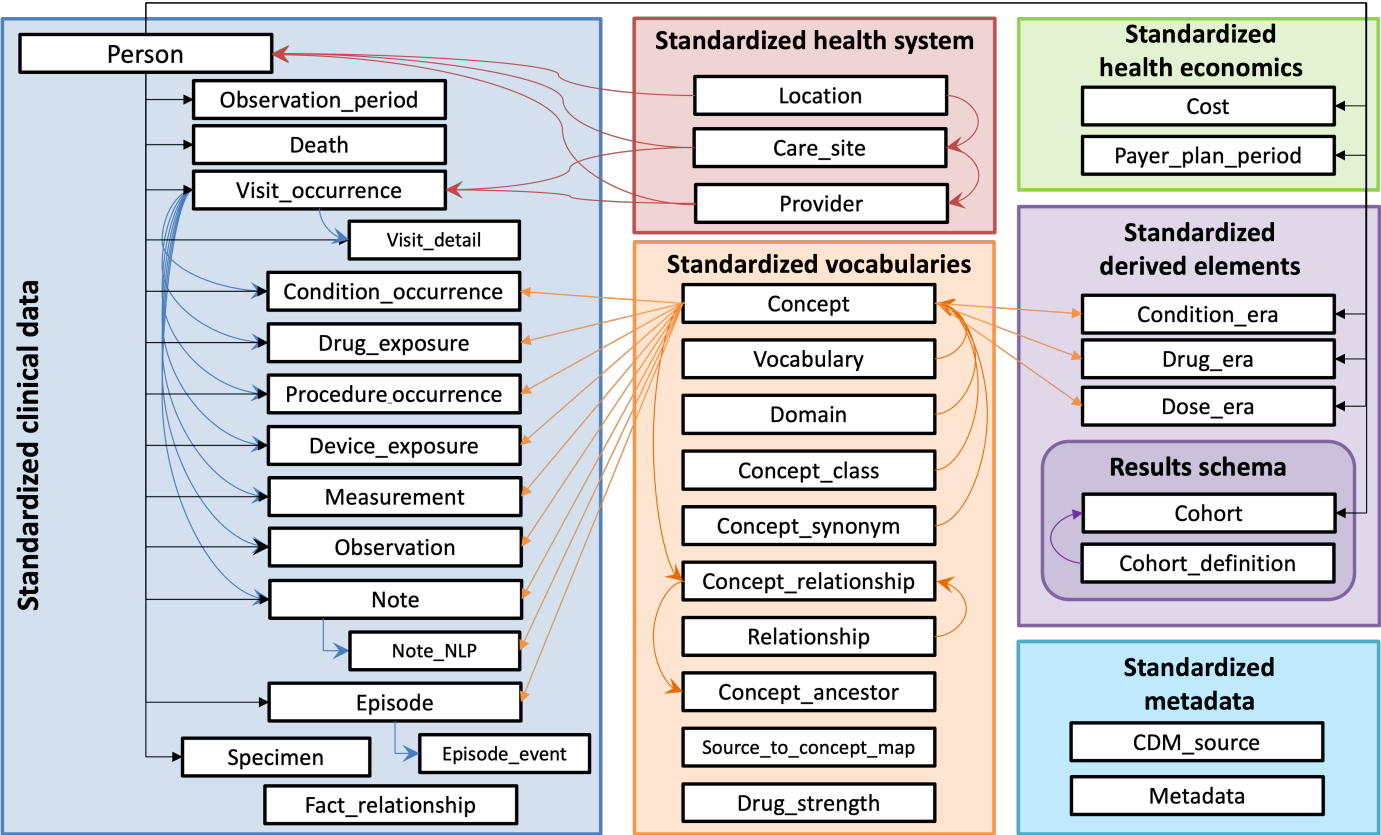
The current CDM version is CDM v5.4, depicted below. This CDM version was developed over the past year via our [issues](#) page. The list of proposed changes was then shared with the community in OHDSI Community calls, discussions with the OHDSI Steering Committee, and discussions with [changes](#) were then delivered to the Community through a new R package designed to dynamically support SQL dialects.

- Link to DDLs for CDM v5.4
- Link to README for instructions on how to use the R package



CDM v5.4

OMOP Common Data Model 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.