



**2018 OHDSI  
Symposium**

# Syllabus

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**Course:** OMOP Common Data Model and Standardized Vocabularies

**Instructors:** Christian Reich, MD, PhD  
Erica A. Voss, MPH, PMP  
Mui van Zandt  
Clair Blacketer  
Rimma Belenkaya  
Dmytry Dymshyts  
Don Torok  
Stephen Lyman  
Karthik Natarajan

**Course Date:** 11-October-2018

**Schedule:** Course: 9:00 AM till 5:00 PM EST  
Lunch: 12:00PM till 1:00 PM EST (Foyer outside of White Oak A)

**Course Room:** White Oak A  
Bethesda North Marriott Hotel & Conference Center  
5701 Marinelli Rd, North Bethesda, MD 20852

**Contact:** Mui van Zandt ([Mui.vanZandt@iqvia.com](mailto:Mui.vanZandt@iqvia.com))  
Erica A. Voss ([evoss3@its.jnj.com](mailto:evoss3@its.jnj.com))

**Required Materials:**

A laptop that is able to access the Internet.

**Required Homework:**

There is no required homework however the following pre-reads may be of interest:

- OMOP Common Data Model  
<https://github.com/OHDSI/CommonDataModel/wiki>
- OMOP Standardized Vocabularies  
*Reich C, Ryan PB, Stang PE, Rocca M. Evaluation of alternative standardized terminologies for medical conditions within a network of observational healthcare databases. J Biomed Inform. 2012 Aug;45(4):689-96. doi: 10.1016/j.jbi.2012.05.002. Epub 2012 Jun 7. PubMed PMID: 22683994.*

**Course Description:**

This course will give an introduction into the history of Observational Medical Outcomes Partnership (OMOP) and the birth of Observation Health Data Sciences and Informatics (OHDSI). It highlights OHDSI's vision as well as how OHDSI is trying to drive the future of observational research through network studies. All of this introduction lays the importance for the rest of the course's material.



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The course will then move on to understanding the OMOP Vocabularies; it is important to understand how the Vocabulary is used and work through examples prior to moving on to the OMOP Common Data Model (CDM). The final portion of the course will explain in detail the layout of the CDM as well as some key concepts such as era logic.

Similar courses have been provided in the past if you would like to review:

[https://www.youtube.com/watch?v=wL\\_TpWVmuuxg](https://www.youtube.com/watch?v=wL_TpWVmuuxg)

**Course Objectives:**

After successful completion of this course students should understand why the OMOP Vocabulary is important to the OHDSI standardization process and conceptually understand how to navigate it. Additionally, students will understand the structure of the OMOP CDM and how one might conduct observational research using it. This course will not go into detail on how to perform a transformation into the CDM (commonly referred to the Extract, Transform, & Load (ETL) process) nor will it explore in detail OHDSI tools such as ATLAS.