

## Introduction

This is the release notes for the UK Biobank OMOP CDM conversion.

## UK Biobank OMOP CDM

- a. UK Biobank data set was converted into the OMOP CDM v5.3.

Data Set Converted	Delivered On	Dataset version
UK Biobank March 2020	March 30, 2021	March 2020

All OMOP CDM tables are loaded to Redshift, to the Production environment

The OMOP CDM v5.3 can be found under:

<https://ohdsi.github.io/CommonDataModel/cdm531.html>

The following vocabularies were used during OMOP CDM conversion:

OMOP Vocabularies Used
<p><u>OHDSI Standard vocabularies:</u> SNOMED, RxNorm, RxNorm Extension, OPCS4, dm+d, CVX, OMOP Extension, UCUM, LOINC, ICDO3, Cancer Modifier, CPT4, Nebraska Lexicon, Medicare Specialty, NUCC, Provider, Race</p> <p><u>New OHDSI vocabulary is introduced:</u> UK Biobank</p> <p><u>Custom vocabularies:</u> UKB_GP_Script_drug, UKB_GP_Script_read_2, UKB_GP_Clinical_read_3, UKB_GP_Clinical_unit, UKB_MAIN_ICDO3, UKB_HESIN_Oper</p>

The OMOP CDM vocabularies used are from version v5.0 23-MAR-21

<https://github.com/OHDSI/Vocabulary-v5.0/releases>

- b. The following source tables were converted:

Hospital inpatient dataset:

- hesin
- hesin\_diag
- hesin\_oper
- hesin\_psych
- hesin\_maternity
- hesin\_delivery

Primary Care:

- gp\_clinical
- gp\_scripts

Main dataset:

- ukb41065

The following source tables are not converted due to lack of value for OMOP CDM:

- gp\_registrations

- c. All source codes from custom vocabularies are available in OMOP CDM CONCEPT table with concept\_ids > 2000000000 and with links to standard concepts through the OMOP CDM CONCEPT\_RELATIONSHIP table. Data for custom mapping is gathered from the following source tables: gp\_clinical, gp\_scripts, ukb41065 (Cancer register category). Custom mapping is created for the following OMOP CDM tables: CONDITION\_OCCURRENCE, PROCEDURE\_OCCURRENCE, MEASUREMENT, OBSERVATION, DRUG\_EXPOSURE, DEVICE\_EXPOSURE, SPECIMEN tables.

## Known Issues

None.