

ETL Documentation from VA (MEDSAFE)

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Observational Medical Outcomes Partnership
VA (MEDSAFE)

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ETL documentation provides a guide to the field mapping done by VA for creation of CDM. Details are provided per table.

PERSON TABLE:

Destination Field	Source Field	Applied Rule	Comment
PERSON_ID	UNIQUE_ID	Extrapolated from existing unique ID with an Algorithm.	To meet HIPPA and VA compliance UNIQUE_ID is stripped of any person information
YEAR_OF_BIRTH	DOB, BIRTH_DAY	Extrapolated from DOB for outpatient and Birth_day in outpatient.	The year of birth will be populated. To verify that the dates are correct the file is merged with the vital status file (VSF).
GENDER_CONCEPT_ID	SEX	Mapped to OMOP standard vocabulary with corresponding VA	Lookup table will help translate the values to concept ID
RACE_CONCEPT_ID	RACE	Mapped to OMOP standard vocabulary	Used race field from our inpatient and outpatient data.
LOCATION_CONCEPT_ID	STA5A & STA6A	Will be extrapolated from station number to state.	Any location data below state level cannot be shared. We used our station level data and mapped it to states of USA. An additional state of Puerto Rico was added by OMOP specific to VA
SOURCE_PERSON_KEY	UNIQUE_ID	NULL	This is de-identified data
SOURCE_GENDER_CODE	SEX		
SOURCE_LOCATION_CODE	STA5A & STA6A		
SOURCE_RACE_CODE	RACE		

DRUG EXPOSURE TABLE

Destination Field	Source Field	Applied Rule	Comment
DRUG_EXPOSURE_ID		sequential ID created by system	
DRUG_EXPOSURE_START_DATE	DRUG_START_DATE		Rel_date from our database was used
DRUG_EXPOSURE_END_DATE	DRUG_END_DATE	Not available- use NULL	A lookup table to translate local values to Concept IDs
PERSON_ID	UNIQUE_ID		Refer to ETL mapping details for person table for details
DRUG_CONCEPT_ID	VA_PRODUCT_NDFRT	Used mapping table to get the drug concept ID	VAUID- VA unique ID was used to map VA Product to Rxnorm
DRUG_EXPOSURE_TYPE	1	Use prescription dispensed (1) from reference table	Used the reference table provided by OMOP for the value
STOP_REASON	STOP_REASON	Not available- use NULL	
REFILLS	REL_COUNT		Used missing. Since, we were not confident of the NRD_IND variable
DRUG_QUANTITY	T1_QTY	Coming as is from our variable name t1_qty	
DAYS_SUPPLY	DAY_SUPPLY	Coming as is from our variable name t1_qty	
SOURCE_DRUG_CODE	VA_PRODUCT		

CONDITION OCCURRENCE TABLE

Destination Field	Source Field	Applied Rule	Comment
CONDITION_OCCURRENCE_ID			
CONDITION_START_DATE	CONDITION_START_DATE	Use ADMITDAY for inpatient and VIZDAY for outpatient	VIZDAY and ADMITDAY were used to create the condition start date. If admit day was missing for inpatient disday was used
PERSON_ID	UNIQUE_ID		
CONDITION_END_DATE	CONDITION_END_DATE	DOD from BIRLS if patient still active in our syatem then NULL	
CONDITION_OCCURRENCE_TYPE	COND_OCCUR_TYPE	USE INPATIENT DETAIL & OUT PATIENT DETAIL & DEATH AT DISCHARGE IN CDM	Number 66 (Dead), 599(Inpatient) and 612(Outpatient) were used from OMOP reference tables.
CONDITION_CONCEPT_ID	ICD9		Used Source vocabulary code=02 for mapping to OMOP condition Mapping
STOP_REASON	STOP_REASON	Not available and so "null"	
DX_QUALIFIER	DX_QUALIFIER	Not available and so "null"	
SOURCE_CONDITION_CODE	DXF		

VISIT OCCURRENCE TABLE

Destination Field	Source Field	Applied Rule	Comment
VISIT_OCCURRENCE_ID			
VISIT_START_DATE	ADMITDAY, VIZDAY	Use Admitday for InPatient and Vizday for Outpatient	
VISIT_END_DATE	DISDAY, VIZDAY	Inpatient DISDAY & VIZDAY for outpatient	
PERSON_ID	UNIQE_ID		
VISIT_CONCEPT_ID		INPATIENT-9201 OUTPATIENT-9202	Provided the concept ID code 9201 from OMOP to all inpatient cases in the database and 9202 to all outpatient cases
SOURCE_VISIT_CODE	VISIT_CODE		Provided the source visit code 'inpatient' to all inpatient cases in the database and 'outpatient' to all outpatient cases

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OBSERVATION TABLE

Destination Field	Source Field	Applied Rule	Comment
OBS_OCCURRENCE_ID		Sequential unique number created using program for the table	
PERSON_ID	UNIQUE_ID		
SOURCE_OBS_CODE	LOINC_CODE	Value from "LOINC_CODES" were taken as is	
OBS_CONCEPT_ID	LOINC_CODE	MAP TO CONCEPT ID IN CDM using Loinc_code from VA	
OBS_VALUE_AS_NUMBER	RESULTS	All results documented as number in the Results column	
OBS_DATE	LAB_DATE	Date from "LAB_DATE" were taken as is	
OBS_RANGE_LOW	LOW	Value from "LOW" were taken as is	
OBS_RANGE_HIGH	HIGH	Value from "HIGH" were taken as is	
OBS_TYPE		'LAB'	All our OBS_TYPE were named 'LAB' by default
OBS_VALUE_AS_STRING	RESULTS	All results documented as text in the Results column	
OBS_VALUE_AS_CONCEPT_ID	RESULTS	If text result in result table were determined to be NO or NEG or POS then following codes from OMOP were applied. 9180- NO ; 9189- NEG; 9191- POS	
OBS_UNITS_CONCEPT_ID	UNITS	Units- Map it to UOM_Mapping to get the concept ID	

PROCEDURE OCCURRENCE TABLE

Destination Field	Source Field	Applied Rule	Comment
PROCEDURE_OCCURRENCE_ID		Sequential unique number created using program for the table	
PROCEDURE_DATE	VIZDAY; PROCDAY; SURGDAY	Use PROCDAY for procedure day, SURGDAY for surgical and VIZDAY for outpatient	
PERSON_ID	UNIQUE_ID		
PROCEDURE_CONCEPT_ID		Used procedure mapping table. Used-source_vocabulary_code='03' for ICD9 codes and source_vocabulary_code='04' for CPT codes to map	
SOURCE_PROCEDURE_CODE	CPT, procde & surg9CD	Use procedure codes for Inpatient and CPT codes for outpatient files	
PROCEDURE_OCCURRENCE_TYPE		Procedure occurrence types used OMOP codes- 612-outpatients and 599 for procedure and surgical patients	

OBSERVATION PERIOD

Destination Field	Source Field	Applied Rule	Comment
OBSERVATION PERIOD _ ID		Sequential unique number created using program for the table	
OBSERVATION_PERIOD_STA RT_DATE	ADMITDAY; DISDAY; VIZDAY; REL_DATE	The very first date they were in the system- Use admission day (ADMITDAY or DISDAY if ADMITDAY is MISSING), prescription release date(REL_DATE) & outpatient visit date(VIZDAY)	
OBSERVATION PERIO _END _ DATE	DOD	DOD-date of Death from BIRLS or 9/30/09	
PERSON_ID	UNIQUE_ID		
PERSON_STAT US_CONCEPT_ID	DOD	These numbers were applied based on date of death. 9181- DEAD OR 9176- ACTIVE	
RX_DATA_AVAI LABILITY		Always yes='Y'	
DX_DATA_AVAI LABILITY		Always yes='Y'	
HOSPITAL_DAT A_AVAI LABILITY		Always yes='Y'	
CONFIDENCE		N/A= ''	