MHS GENESIS Person File BDE 2.4
for the
MHS Data Repository (MDR)
(Version 1.01.00)

Current Specification

Revision History

Version	Date	Originator	Para/Tbl/Fig	Description of Change
1.00.00	01/15/2018	Wendy Funk	• Initial Document	• Initial Document
1.01.00	02/06/2019	Tracy Comer for Wendy Funk	• Section 3 • Table 2	• Adjusted wording regarding restricted file • Added wording to place person_key field in the restricted file

MDR Genesis Person File

I.   SOURCE:

The source system is the Cerner Millennium database. All records are sent from WH_CLN_PERSON_REF table, with joins to other alias and reference tables that enhance the MDR Genesis Person file.

II.   TRANSMISSION (FORMAT AND FREQUENCY)

TBD

III.   ORGANIZATION AND BATCHING

Source data: The first step in MDR processing is to batch records received from MHS Genesis. Raw data batches are stored in /mdr/raw/genesis according to routine MDR operating procedures.

Output products:

Two SAS datasets will be produced from MHS Genesis person data. These datasets are described below.

File Name	Description	Location
Person File	File with most patient information and ordered by the MHS Genesis Person Key	/mdr/pub/genesis/person/ person.sas7bdat
Person File Restricted	File with patient addresses, phone numbers, and email addresses and ordered by the MHS Genesis Person Key	/mdr/restricted/genesis/person/ person.sas7bdat

IV.   RECEIVING FILTERS

All records were provided with the initial batch of data. Thereafter, new and changed records are sent each week.

V.   UPDATE PROCESS

After sending the initial batch of person data (11/16/2017), the raw feeds for the person file represent either insert and update records. These records shall be used to maintain the master MDR person dataset.

The primary key for the person table is the PERSON_KEY field. During the extraction of the raw person records, de-duplication of records, or anytime a person key collision occurs between incoming data and existing master data, the processor de-duplicates data by selecting the record with the most recent value of the update date/time (UPDT_DT_TM) for any multiple of records with the same primary key.

Once the dataset has been updated, the processor assigns many other internally-derived variables as described in Table 2.

VI.   FIELD TRANSFORMATIONS AND DELETIONS FOR MDR CORE DATABASE

This section of this functional specification describes the data merges that are necessary to append fields in the MDR Genesis Person file. Table 1 describes the reference files that are used in processing.

Merge	Date Matching	Additional Matching
Person Alias Table	beg_effective_dt_tm end_effective_dt_tm	person_sk
Code Value Out table	N/A	code value ref, contributor source; health_system_id; active_ind
Code Value table	N/A	code value ref, health_system_id; active_ind
Person Name Table	N/A	person_sk, health_system_source_id where src_active_ind=1
Phone Table	N/A	person_sk= src_parent_entity_sk (and src_parent_entity_name=person, src_active_ind=1, health_system_source_id=18635
DEERS VM-6 Beneficiary File	Most recent file	EDIPN, where primary record is 1 and eligibility indicator is 1. Only match where src_active_ind
Encounter Table	N/A	person_sk
Person to Person Relationship Table	N/A	person_sk

Business rules for each of the appended fields are described in the body of the format table in Section VII.

VII.   FILE LAYOUT

The MDR Genesis Person file is stored in a SAS data set. Table 2 provides the file layout and processing rules.

Table 2 File Layout for MDR Genesis Person File

Field	Format	SAS Name	Source Element	Transformation
MHS Genesis Unique Person ID	$100	person_sk	person_sk	No transformation
MHS Genesis Person Key	8	person_key	person_key	No transformation. Also available in /restricted. Can be used for linking restricted file to pub file.
Health System ID	8	hs_id	health_system_id	No transformation
Birth Date/Time	Date/Time	dob	birth_dt_tm	No transformation
Gestational Age	8	gest_age	gestational_age_days_at_birth	No transformation
Sex Change Flag	$1	sex_chg	sex_change_ind	No transformation
Birth Weight	8	birth_weight	birth_weight	No transformation
First Name	$100	first_name	first_name	No transformation
Middle Name	$100	mid_name	middle_name	No transformation
Last Name	$100	last_name	last_name	No transformation
Full Name	$100	full_name	full_name	No transformation
Address Line 1	$100	addr_line1	address_line_1	No transformation. Only available in /restricted.
Address Line 2	$100	addr_line2	address_line_2	No transformation. Only available in /restricted.
Address Line 3	$100	addr_line3	address_line_3	No transformation. Only available in /restricted.
Address Line 4	$100	addr_line4	address_line_4	No transformation. Only available in /restricted.

Field	Format	SAS Name	Source Element	Transformation
City	$100	city	city	No transformation
Postal Code	$11	zip	postal_code	No transformation
Email Address	$100	email	email_address	No transformation. Only available in /restricted
Rank	$100	rank	employee_title	No transformation
Death Date/Time	Date/Time	death_dt	deceased_dt_tm	No transformation
Begin Effective Date/Time	Date/Time	beg_dt	beg_effective_dt_tm	No transformation
End Effective Date/Time	Date/Time	end_dt	end_effective_dt_tm	No transformation
Extract Date to MDR	Date/Time	extract_dt_tm	extract_dt_tm	No transformation
Update Date/Time	Date/time	updt_dt_tm	updt_dt_tm	No transformation
Fields from the Person Alias File				
MRN	$40	mrn	alias	Alias, where alias_type_ref=10
EDIPN	$10	edipn	alias	Alias, where alias_type_ref=22
SSN	$9	ssn	alias	Alias, where alias_type_ref=18. If length ne 9, then set to null.
Interim Person Identifier	$40	ipi	alias	Alias, where alias_type_ref=106127789
Foreign Identifier	$40	foreign_id	alias	Alias, where alias_type_ref=106127795
Fields from the Code Value Out File				
State	$30	state	alias	Retrieve the alias where state_ref matches code_value_ref and code_set=62
Country	$30	country	alias	Retrieve the alias where country_ref matches code_value_ref and code_set=15
Gender	$10	gender	alias	Retrieve the alias where gender_ref matches code_value_ref and code_set=57
Ethnicity	$22	ethnic	alias	Retrieve the alias where ethnic_group_ref matches code_value_ref and code_set=27 and contributor_source_ref = '105499759'
Race	$41	race	alias	Retrieve the alias where race_ref matches code_value_ref and code_set=282 and contributor_source_ref = '105099617'
Marital Status	$20	marital	alias	Retrieve the alias where marital_status_ref matches code_value_ref and code_set=38
Language	$20	language	alias	Retrieve the alias where language_ref matches code_value_ref and code_set=36
Fields from the Code Value File				
Birth Weight Units	$10	birth_weight_units	desc_meaning	Retrieve the desc_meaning where birth_weight_units matches code_value_ref and the code set =14659
Religion	$40	religion	desc_display	Retrieve the desc_display where religion_ref matches code_value_ref and code_set=49
Fields from the Person Name File				
Name suffix	$100	suffix	name_suffix	No transformation.
Fields from the Phone Number File				
Home Phone Number	$20	home_phone	phone_nbr	Most recently reported phone_nbr (based on begin and end effective dates), where

Field	Format	SAS Name	Source Element	Transformation
				phone_type_ref=170. Only available in /restricted.
Work Phone Number	$20	work_phone	phone_nbr	Most recently reported phone_nbr (based on begin and end effective dates), where phone_type_ref=163. Only available in /restricted.
Cell Phone Number	$20	cell_phone	phone_nbr	Most recently reported phone_nbr (based on begin and end effective dates), where phone_type_ref=4149712. Only available in /restricted.
Fields from DEERS VM6				
DEERS Eligibility Indicator	$1	eligibility_ind	d_mhs_elig_indic	No transformation.
DEERS File Date	YYMM	deers_month	d_fde_ext_month	No transformation.
Sponsor SSN	$9	sponssn	spn_pn_id	No transformation.
Beneficiary Category	$3	bencat	r_ben_cat_cd	No transformation.
HCDP - Enrolled	$3	hcdp_enr	d_mi_hcdp_pln_cvg_cd	If enrollment group is P, L or U.
HCDP - Assigned	$3	hcdp_asgn	asg_hcdp_pln_cvg_cd	
PCM ID	$10	pcm_id	d_mi_pcm_id	If enrollment group is P, L or U.
Enrollment MTF	$4	enr_dmisid	d_mi_pcm_edvsn_dmis_id	If enrollment group is P, L or U.
Enrollment Group	$1	enr_grp	d_enr_grp_cd	No transformation.
Eligibility Group	$1	elg_grp	d_elg_grp_cd	No transformation.
Enrollment PCM Type	$1	pcm_type	d_pcm_typ_cd	No transformation.
Internally Derived Fields				
Test Record Indicator	$1	test_record_ind	N/A	If any of the following are true set to 1: • Test patient indicator is 1 in feed; or • Last name begins with QQQ; or • Patient has no encounter; or • Patient does not have a person relationship Otherwise set to 0
Encounter Flag	8	enc_fl	N/A	If person_sk has a record in the Encounter table, set to 1.
Relationship Flag	8	reltn_fl	N/A	If person_sk has a record in the Person-Person Relationship table, set to 1.
Workload Flag	8	wkld_fl	N/A	If person_sk has a record in the Encounter table, and the encounter type is not in('History','Lifetime Pharmacy'), then set to 1.

VIII.   REFRESH FREQUENCY

Weekly

IX.   DATA MARTS

N/A.

X.   **SPECIAL OUTPUTS**

N/A