

18 May 2021

**MHS GENESIS Order File BDE  
2.4 for the  
MHS Data Repository (MDR)  
(Version 1.00.00)**

**Current Specification**

### Revision History

Version	Date	Originator	Para/Tbl/Fig	Description of Change
1.00.00	05/18/2021	Tracy Comer	• Initial Document	• Initial Document

## MDR Genesis Order File

### I. SOURCE:

The source system is the Cerner Millenium. All records are based on records sent from WH\_CLN\_ORDER file. In order to increase the utility of this file, it is merged against other tables from Cerner Millenium [as well as other files on the MDR, as described below in Section VI.]

### 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/genesis/raw according to routine MDR operating procedures.

Output products: SAS datasets containing all order records where the order\_dt\_tm is in a fiscal year. The Order files are stored at /mdr/pub/genesis/orders/fyxx.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

The primary key for the Order table is the ORDER\_SK field. During the extraction of the raw order records, de-duplication of records, or anytime an order 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. Similar update processes are applied to the other raw data sets.

Once the raw data has been updated, the processor combines them as described here and 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 Order file. Table 1 describes additional files that are used in processing.

Merge	Date Matching	Additional Matching
Code Value Outbound Reference		health_system_source_id = 18635 and active_ind = 1
Order Detail		order_sk where order_sk not in ('0','') and orderable_detail_sk in ('12615','633581','663838','73801613','114199829','23357379','23357394','23357396','23357412','115487725','115487915','291366787','397808379') and health_system_id=18635 keep the record for an orderable_detail_sk for an order_sk with the most recent updt_dt_tm and the highest action_sequence

Merge	Date Matching	Additional Matching
Order Action		order_sk where action_sequence=1 and action_type_ref= 'Order' and order_status_ref='Completed'
Charges File		order_sk
Encounter History		encounter_nk Table manipulated to find initial and ending transaction_dt_tm for a location record associated with an encounter_nk
MDR Genesis Person File		person_sk
MDR Genesis Location File		order_loc_o=location_sk order_loc_od=location_sk order_loc_ref_oa=location_sk order_loc_charges=location_sk loc_code_enc_adm=location_sk enc_loc_eh=location_sk loc_code_enc=location_sk
MDR Genesis Personnel File		order_doc_prsnl=person_sk order_prov_od=person_sk order_prov_oa=person_sk super_prsnl_oa=person_sk order_prov_charges=person_sk
MDR GENESIS Encounter File	order_dt=visit_dt (merge 1 on encounter file where earliest visit_dt_tm records for an encounter is kept (referred to as the Encounter Admission, or enc_adm file), merge 2 on encounter file with all visit_dts associated with an encounter_nk)	encounter_nk

Upon matching to the MDR Genesis Person file, MDR Genesis Personnel file, and MDR Genesis Location file, records that meet the following criteria are deleted:

- Records where the test\_person\_ind is 1 in the MDR Genesis Person File.
- Records with a facility display beginning with "MB ".

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 Orders file is stored in a SAS data set. Table 2 provides the file layout and processing rules.

**Table 2 File Layout for MDR Genesis Order File**

Field	Format	SAS Name	Source Element	Transformation
Accession	Char(100)	accession	accession	No transformation
Order Activity Type	Char(30)	activity_type	activity_type_ref	Apply format to activity_type_ref variable for code set '106'
Canceled Date and Time- Local Time	E8601DT19.2	canceled_dt_tm	canceled_dt_tm	Converted to local date time
Canceled Date and Time- UTC	DATETIME19	canceled_dt_tm_utc	canceled_dt_tm	No transformation

Field	Format	SAS Name	Source Element	Transformation
Order Cancellation Reason	Char(30)	canceled_reason	canceled_reason_ref	Apply format to canceled_reason_ref variable for code set '1304'
Catalog Reference	Char(40)	catalog_ref	catalog_ref	No transformation
Catalog Type Reference	Char(40)	catalog_type_ref	catalog_type_ref	No transformation
Catalog Type Definition	Char(20)	catalog_type_ref2	catalog_type_ref	Apply format to catalog_type_ref variable for code set '6000'
Clinical Display Line	Char(255)	clinical_display_line	clinical_display_line	No transformation
Completed Date and Time-Local Time	E8601DT19.	completed_dt_tm	completed_dt_tm	Converted to local date time
Completed Date and Time-UTC	DATETIME19.	completed_dt_tm_utc	completed_dt_tm	No transformation
Completed Personnel	Char(100)	completed_prsnl	completed_prsnl	No transformation
Contributor System	Char(40)	contributor_system	contributor_system_ref	Apply format to contributor_system_ref variable for code set '89'
Contributor System Reference	E8601DT19.2	contributor_system_ref	contributor_system_ref	No transformation
Department Status Reference	Char(40)	dept_status_ref	dept_status_ref	No transformation
Department Status	Char(20)	dept_status_ref2	dept_status_ref	Apply format to dept_status_ref variable for code set '14281'
Discontinue Date and Time- Local Time	Char(4)	discontinue_dt_tm	discontinue_dt_tm	Converted to local date time
Discontinue Date and Time- UTC	N(8)	discontinue_dt_tm_utc	discontinue_dt_tm	No transformation
Discontinue Reason	Char(30)	discontinue_reason	discontinue_reason_ref	Apply format to discontinue_reason_ref variable for code set '1309'
Discontinue Reason Reference	Char(40)	discontinue_reason_ref	discontinue_reason_ref	No transformation
Encounter Key	N(8)	encounter_key	encounter_key	No transformation
Encounter NK	Char(100)	encounter_nk	encounter_nk	No transformation
Extract Date and Time- UTC	E8601DT19.2	extract_dt_tm_utc	extract_dt_tm_utc	No transformation
Freq Type Flag	N(8)	freq_type_flg	freq_type_flg	No transformation
Group Order SK	Char(100)	group_order_sk	group_order_sk	No transformation
Grouper Flag	N(8)	grouper_flg	grouper_flg	No transformation
Health System ID	N(8)	health_system_id	health_system_id	No transformation
Last Action Sequence	N(8)	last_action_sequence	last_action_sequence	No transformation
Last Order Status	Char(30)	last_order_status_o	last_order_status_ref	Apply format to last_order_status_ref variable for code set '6004'
Last Order Status Personnel	Char(100)	last_order_status_prsnl	last_order_status_prsnl	No transformation
Last Order Status Reference	Char(40)	last_order_status_ref	last_order_status_ref	No transformation
Link Order SK	N(8)	link_order_sk	link_order_sk	No transformation
Ordering Provider from the Orders table	Char(100)	order_doc_prsnl	order_doc_prsnl	No transformation
Order Submitted Date/Time- Local Time	E8601DT19.2	order_dt_tm	order_dt_tm, order_tm_zn	Converted to local date time. Order_dt_tm_utc reflects the dt tm in the MHS Genesis bulk data extract.
Order Submitted Date/Time- UTC	DATETIME19.	order_dt_tm_utc	order_dt_tm	No transformation
Order PI-EDW Key	N(8)	order_key	order_key	No transformation

Field	Format	SAS Name	Source Element	Transformation
The order location code from the Orders table	Char(40)	order_loc_o	patient_loc	No transformation
Order Key	Char(100)	order_sk	order_sk	No transformation
Orderable Item Display	Char(100)	orderable_disp	orderable_disp	No transformation
Orderable Mnemonic	Char(255)	orderable_mnemonic	orderable_mnemonic	No transformation
Parent Order SK	Char(100)	parent_order_sk	parent_order_sk	No transformation
MHS GENESIS Person ID	Char(100)	person_sk	person_sk	No transformation
Order Priority	Char(30)	priority	priority_ref	Apply format to priority_ref variable for code set '1304'
Requested Start Date/Time- Local Time	E8601DT19.2	requested_start_dt_tm	requested_start_dt_tm, requested_start_tm_zn	Converted to local date time
Requested Start Date/Time- UTC	DATETIME19	requested_start_dt_tm_utc	requested_start_dt_tm	No transformation
Template Orderable	Char(40)	template_ordbl	template_ordbl	No transformation
Template Order Key	Char(100)	template_order_sk	template_order_sk	No transformation
Top Parent Orderable	Char(40)	top_parent_ordbl	top_parent_ordbl	No transformation
Top Parent Order Key	Char(100)	top_parent_order_sk	top_parent_order_sk	No transformation
Update Date/Time of the Order Record	E8601DT19.2	updt_dt_tm_utc	updt_dt_tm_utc	No transformation
<b>Fields from MHS Genesis Person File</b>				
Date of Birth	DATETIME19	dob_r	dob	No transformation
EDIPN	Char(10)	edipn	edipn	No transformation
Ethnicity	Char(1)	ethnic_r	ethnic	No transformation
First Name	Char(100)	first_name	first_name	No transformation
Gender	Char(10)	gender_r	gender	No transformation
Interim Person Identifier	Char(10)	ipi	ipi	No transformation
Last Name	Char(100)	last_name	last_name	No transformation
Marital Status	Char(20)	marital_r	marital	No transformation
MRN	Char(40)	mrn	mrn	No transformation
Patient Zip Code of record	Char(25)	patzip_r	zip	No transformation
Race	Char(41)	race_r	race	No transformation
SSN	Char(9)	ssn	ssn	No transformation
Test Person Flag	N(8)	test_person_ind	test_record_ind	No transformation
<b>Fields from the MDR Genesis Location File</b>				
Active Indicator of location from the Charges table	N(8)	active_ind_loc_charges	active_ind	Return active_ind where the order_loc_charges=location_sk
Active Indicator of location from the Encounter History table	N(8)	active_ind_loc_eh	active_ind	Return active_ind where the enc_loc_eh=location_sk
Active Indicator of location from the MHS GENESIS Encounter File	N(8)	active_ind_loc_enc	active_ind	Return active_ind where the loc_code_enc=location_sk
Active Indicator of the initial admitting	N(8)	active_ind_loc_enc_adm	active_ind	Return active_ind where the loc_code_enc_adm=location_sk

Field	Format	SAS Name	Source Element	Transformation
location from the MHS GENESIS Encounter File				
Active Indicator of location from the Orders table	N(8)	active_ind_loc_o	active_ind	Return active_ind where the order_loc_o=location_sk
Active Indicator of location from the Order Action table	N(8)	active_ind_loc_oa	active_ind	Return active_ind where the order_loc_ref_oa=location_sk
Active Indicator of location from the Order Detail table	N(8)	active_ind_loc_od	active_ind	Return active_ind where the order_loc_od=location_sk
Active Indicator of location from the suggested final source	N(8)	active_ind_loc_sugg_final	active_ind	Return active_ind where the order_loc_suggested=location_sk
MHS GENESIS Transition Date of location from the Charges table	MMDDYY10.	gen_begin_dt_charges	gen_begin_dt	Return gen_begin_dt where the order_loc_charges=location_sk
MHS GENESIS Transition Date of location from the Encounter History table	MMDDYY10.	gen_begin_dt_eh	gen_begin_dt	Return gen_begin_dt where the enc_loc_eh=location_sk
MHS GENESIS Transition Date of location from the MHS GENESIS Encounter File	MMDDYY10.	gen_begin_dt_enc	gen_begin_dt	Return gen_begin_dt where the loc_code_enc=location_sk
MHS GENESIS Transition Date of admitting location from the MHS GENESIS Encounter File	MMDDYY10.	gen_begin_dt_enc_adm	gen_begin_dt	Return gen_begin_dt where the loc_code_enc_adm=location_sk
MHS GENESIS Transition Date of location from the Orders table	MMDDYY10.	gen_begin_dt_o	gen_begin_dt	Return gen_begin_dt where the order_loc_o=location_sk
MHS GENESIS Transition Date of location from the Order Action table	MMDDYY10.	gen_begin_dt_oa	gen_begin_dt	Return gen_begin_dt where the order_loc_ref_oa=location_sk
MHS GENESIS Transition Date of location from the Order Detail table	MMDDYY10.	gen_begin_dt_od	gen_begin_dt	Return gen_begin_dt where the order_loc_od=location_sk
MHS GENESIS Transition Date of location from the suggested final source	MMDDYY10.	gen_begin_dt_sugg_final	gen_begin_dt	Return gen_begin_dt where the order_loc_suggested=location_sk
Building display of location from the Charges table	Char(100)	loc_bldg_disp_charges	loc_building_disp	Return loc_building_disp where the order_loc_charges=location_sk
Building display of location from the Encounter History table	Char(100)	loc_bldg_disp_eh	loc_building_disp	Return loc_building_disp where the enc_loc_eh=location_sk
Building display of location from the MHS GENESIS	Char(100)	loc_bldg_disp_enc	loc_building_disp	Return loc_building_disp where the loc_code_enc=location_sk

Field	Format	SAS Name	Source Element	Transformation
Encounter Episodic File				
Building display of the initial admitting location from the MHS GENESIS Encounter File	Char(100)	loc_bldg_disp_enc_adm	loc_building_disp	Return loc_building_disp where the loc_code_enc_adm=location_sk
Building display of location from the Orders table	Char(100)	loc_bldg_disp_o	loc_building_disp	Return loc_building_disp where the order_loc_o=location_sk
Building display of location from the Order Action table	Char(100)	loc_bldg_disp_oa	loc_building_disp	Return loc_building_disp where the order_loc_ref_oa=location_sk
Building display of location from the Order Detail table	Char(100)	loc_bldg_disp_od	loc_building_disp	Return loc_building_disp where the order_loc_od=location_sk
Building display of location from the suggested final source	Char(100)	loc_bldg_disp_sugg_final	loc_building_disp	Return loc_building_disp where the order_loc_suggested=location_sk
Facility Display of location from the Charges table	Char(100)	loc_fac_disp_charges	loc_facility_disp	Return loc_facility_disp where the order_loc_charges=location_sk
Facility Display of location from the Encounter History table	Char(100)	loc_fac_disp_eh	loc_facility_disp	Return loc_facility_disp where the enc_loc_eh=location_sk
Facility Display of location from the MHS GENESIS Encounter File	Char(100)	loc_fac_disp_enc	loc_facility_disp	Return loc_facility_disp where the loc_code_enc=location_sk
Facility Display of the initial admitting location from the MHS GENESIS Encounter File	Char(100)	loc_fac_disp_enc_adm	loc_facility_disp	Return loc_facility_disp where the loc_code_enc_adm=location_sk
Facility Display of location from the Orders table	Char(100)	loc_fac_disp_o	loc_facility_disp	Return loc_facility_disp where the order_loc_o=location_sk
Facility Display of location from the Order Action table	Char(100)	loc_fac_disp_oa	loc_facility_disp	Return loc_facility_disp where the order_loc_ref_oa=location_sk
Facility Display of location from the Order Detail table	Char(100)	loc_fac_disp_od	loc_facility_disp	Return loc_facility_disp where the order_loc_od=location_sk
The facility display of the ordering location as per the suggested final source	Char(100)	loc_fac_display_sugg_final	loc_facility_disp	Return loc_facility_disp where the order_loc_suggested=location_sk
MEPRS code of location from the Charges table	Char(40)	meprs_cd_charges	meprs_cd	Return meprs_cd where the order_loc_charges=location_sk
MEPRS code of location from the Encounter History table	Char(4)	meprs_cd_eh	meprs_cd	Return meprs_cd where the enc_loc_eh=location_sk
MEPRS code of location from the MHS GENESIS Encounter File	Char(4)	meprs_cd_enc	meprs_cd	Return meprs_cd where the loc_code_enc=location_sk
MEPRS code of the initial admitting location from the	Char(4)	meprs_cd_enc_adm	meprs_cd	Return meprs_cd where the loc_code_enc_adm=location_sk



Field	Format	SAS Name	Source Element	Transformation
MHS GENESIS Encounter File				
MEPRS code of location from the Orders table	Char(4)	meprs_cd_o	meprs_cd	Return meprs_cd where the order_loc_o=location_sk
MEPRS code of location from the Order Action table	Char(4)	meprs_cd_oa	meprs_cd	Return meprs_cd where the order_loc_ref_oa=location_sk
MEPRS code of location from the Order Detail table	Char(4)	meprs_cd_od	meprs_cd	Return meprs_cd where the order_loc_od=location_sk
MEPRS code of location from the suggested final source	Char(4)	meprs_cd_sugg_final	meprs_cd	Return meprs_cd where the order_loc_suggested=location_sk
MTF of location from the Charges table	Char(4)	mtf_charges	mtf	Return mtf where the order_loc_charges=location_sk
MTF of location from the Encounter History table	Char(4)	mtf_eh	mtf	Return mtf where the enc_loc_eh=location_sk
MTF of location from the MHS GENESIS Encounter File	Char(4)	mtf_enc	mtf	Return mtf where the loc_code_enc=location_sk
MTF of the initial admitting location from the MHS GENESIS Encounter File	Char(4)	mtf_enc_adm	mtf	Return mtf where the loc_code_enc_adm=location_sk
MTF of location from the Orders table	Char(4)	mtf_o	mtf	Return mtf where the order_loc_o=location_sk
MTF of location from the Order Action table	Char(4)	mtf_oa	mtf	Return mtf where the order_loc_ref_oa=location_sk
MTF of location from the Order Detail table	Char(4)	mtf_od	mtf	Return mtf where the order_loc_od=location_sk
Parent MTF of location from the Charges table	Char(4)	mtf_parent_charges	mtf_parent	Return mtf_parent where the order_loc_charges=location_sk
Parent MTF of location from the Encounter History table	Char(4)	mtf_parent_eh	mtf_parent	Return mtf_parent where the enc_loc_eh=location_sk
Parent MTF of location from the MHS GENESIS Encounter File	Char(4)	mtf_parent_enc	mtf_parent	Return mtf_parent where the loc_code_enc=location_sk
Parent MTF of the initial admitting location from the MHS GENESIS Encounter File	Char(4)	mtf_parent_enc_adm	mtf_parent	Return mtf_parent where the loc_code_enc_adm=location_sk
Parent MTF of location from the Orders table	Char(4)	mtf_parent_o	mtf_parent	Return mtf_parent where the order_loc_o=location_sk
Parent MTF of location from the Order Action table	Char(4)	mtf_parent_oa	mtf_parent	Return mtf_parent where the order_loc_ref_oa=location_sk
Parent MTF of location from the Order Detail table	Char(4)	mtf_parent_od	mtf_parent	Return mtf_parent where the order_loc_od=location_sk

Field	Format	SAS Name	Source Element	Transformation
Parent MTF of location from the final suggested source table	Char(4)	mtf_parent_sugg_final	mtf_parent	Return mtf_parent where the order_loc_suggested=location_sk
MTF of location from the final suggested source table	Char(4)	mtf_sugg_final	mtf	Return mtf where the order_loc_suggested=location_sk
Test Location Indicator of location from the Charges table	N(8)	test_loc_flag_charges	test_location_flag	Return test_location_flag where the order_loc_charges=location_sk
Test Location Indicator of location from the Encounter History table	N(8)	test_loc_flag_eh	test_location_flag	Return test_location_flag where the enc_loc_eh=location_sk
Test Location Indicator of location from the MHS GENESIS Encounter File	N(8)	test_loc_flag_enc	test_location_flag	Return test_location_flag where the loc_code_enc=location_sk
Test Location Indicator of the initial admitting location from the MHS GENESIS Encounter File	N(8)	test_loc_flag_enc_adm	test_location_flag	Return test_location_flag where the loc_code_enc_adm=location_sk
Test Location Indicator of location from the Order Action table	N(8)	test_loc_flag_oa	test_location_flag	Return test_location_flag where the order_loc_ref_oa=location_sk
Test Location Indicator of location from the Order Detail table	N(8)	test_loc_flag_od	test_location_flag	Return test_location_flag where the order_loc_od=location_sk
Test Location Indicator of location from the final suggested table	N(8)	test_loc_flag_sugg_final	test_location_flag	Return test_location_flag where the order_loc_suggested=location_sk
Test Location Indicator of location from the Orders table	N(8)	test_location_flag	test_location_flag	Return test_location_flag where the order_loc_o=location_sk
Unit Display of location from the Charges table	Char(45)	unit_display_charges	unit_display	Return unit_display where the order_loc_charges=location_sk
Unit Display of location from the Encounter History table	Char(45)	unit_display_eh	unit_display	Return unit_display where the enc_loc_eh=location_sk
Unit Display of location from the MHS GENESIS Encounter File	Char(45)	unit_display_enc	unit_display	Return unit_display where the loc_code_enc=location_sk
Unit Display of the initial admitting location from the MHS GENESIS Encounter File	Char(45)	unit_display_enc_adm	unit_display	Return unit_display where the loc_code_enc_adm=location_sk
Unit Display of location from the Orders table	Char(45)	unit_display_o	unit_display	Return unit_display where the order_loc_o=location_sk

Field	Format	SAS Name	Source Element	Transformation
Unit Display of location from the Order Action table	Char(45)	unit_display_oa	unit_display	Return unit_display where the order_loc_ref_oa=location_sk
Unit Display of location from the Order Detail table	Char(45)	unit_display_od	unit_display	Return unit_display where the order_loc_od=location_sk
Unit Display of location from the final suggested table	Char(45)	unit_display_sugg_final	unit_display	Return unit_display where the order_loc_suggested=location_sk
Unit Description of location from the Charges table	Char(100)	unit_name_charges	unit_name	Return unit_name where the order_loc_charges=location_sk
Unit Description of location from the Encounter History table	Char(100)	unit_name_eh	unit_name	Return unit_name where the enc_loc_eh=location_sk
Unit Description of location from the MHS GENESIS Encounter File	Char(100)	unit_name_enc	unit_name	Return unit_name where the loc_code_enc=location_sk
Unit Description of the initial admitting location from the MHS GENESIS Encounter File	Char(100)	unit_name_enc_adm	unit_name	Return unit_name where the loc_code_enc_adm=location_sk
Unit Description of location from the Orders table	Char(100)	unit_name_o	unit_name	Return unit_name where the order_loc_o=location_sk
Unit Description of location from the Order Action table	Char(100)	unit_name_oa	unit_name	Return unit_name where the order_loc_ref_oa=location_sk
Unit Description of location from the Order Detail table	Char(100)	unit_name_od	unit_name	Return unit_name where the order_loc_od=location_sk
Unit Description of location from the final suggested table	Char(100)	unit_name_sugg_final	unit_name	Return unit_name where the order_loc_suggested=location_sk
<b>Fields from the MDR Genesis Personnel File</b>				
HIPAA Taxonomy Codes for Ordering Provider as per the Order table	Char(10)	order_prov_hipaax	hipaa1-hipaa5	Return hipaa1-hipaa5 where order_doc_prsnl=person_sk
HIPAA Taxonomy Codes for the Provider on the Charges table	Char(10)	order_prov_hipaax_chg	hipaa1-hipaa5	Return hipaa1-hipaa5 where order_prov_charges=person_sk
HIPAA Taxonomy Codes for the Provider on the Encounter Admission table	Char(10)	order_prov_hipaax_enc_adm	hipaa1-hipaa5	Return hipaa1-hipaa5 where prov_enc_adm=person_sk
HIPAA Taxonomy Codes for the Provider on the Order Action table	Char(10)	order_prov_hipaax_oa	hipaa1-hipaa5	Return hipaa1-hipaa5 where order_prov_oa=person_sk
HIPAA Taxonomy Codes for the Suggested Final Provider	Char(10)	order_prov_hipaax_sugg_final	hipaa1-hipaa5	Return hipaa1-hipaa5 where order_prov_suggested=person_sk

Field	Format	SAS Name	Source Element	Transformation
HIPAA Taxonomy Codes for the Supervising Provider on the Order Action table	Char(10)	order_prov_hipaax_supv_oa	hipaa1-hipaa5	Return hipaa1-hipaa5 where super_prsnl_oa=person_sk
Primary Provider Name for the Order from the Charges table	Char(100)	order_prov_name_chg	full_name	Return full_name where order_prov_charges=person_sk
Primary Provider Name for the Encounter Associated with the Order	Char(100)	order_prov_name_enc_adm	full_name	Return full_name where prov_enc_adm=person_sk
Ordering Provider Name as per the Order table	Char(100)	order_prov_name_o	full_name	Return full_name where order_doc_prsnl=person_sk
Provider Name on the Initial Order Action in the Order Action table	Char(100)	order_prov_name_oa	full_name	Return full_name where order_prov_oa=person_sk
Provider Name on the Order Detail table	Char(100)	order_prov_name_od	full_name	Return full_name where order_prov_od=person_sk
Provider Name on the final suggested source table	Char(100)	order_prov_name_sugg_final	full_name	Return full_name where order_prov_suggested=person_sk
Supervising Provider Name on the Initial Order Action in the Order Action table	Char(100)	order_prov_name_supv_oa	full_name	Return full_name where super_prsnl_oa=person_sk
Provider Flag of the Ordering Provider as per the Charges table	N(8)	phys_ind_charges	physician_ind	Return physician_ind where order_prov_charges=person_sk
Provider Flag of the Primary Provider for the encounter associated with the order	N(8)	phys_ind_enc_adm	physician_ind	Return physician_ind where prov_enc_adm=person_sk
Provider Flag of the Ordering Provider as per the Order table	N(8)	phys_ind_o	physician_ind	Return physician_ind where order_doc_prsnl=person_sk
Provider Flag of the Initial Order Action personnel in the Order Action table	N(8)	phys_ind_oa	physician_ind	Return physician_ind where order_prov_oa=person_sk
Provider Flag of the Ordering Provider as per the Order Detail table	N(8)	phys_ind_od	physician_ind	Return physician_ind where order_prov_od=person_sk
Provider Flag of the Suggested Ordering Provider	N(8)	phys_ind_sugg_final	physician_ind	Return physician_ind where order_prov_suggested=person_sk
Provider Flag of the Supervising Provider on the Initial Order Action in the Order Action table	N(8)	phys_ind_supv_oa	physician_ind	Return physician_ind where super_prsnl_oa=person_sk
Assigned DMIS ID of the Ordering	Char(4)	prov_assig_dmisid_chg	assig_dmisid	Return assig_dmisid where order_prov_charges=person_sk

Field	Format	SAS Name	Source Element	Transformation
Provider as per the Charges table				
Assigned DMIS ID of the Primary Provider for the encounter associated with the order	Char(4)	prov_assig_dmisid_enc_adm	assig_dmisid	Return assig_dmisid where prov_enc_adm=person_sk
Assigned DMIS ID of the Ordering Provider as per the Order table	Char(4)	prov_assig_dmisid_o	assig_dmisid	Return assig_dmisid where order_doc_prsnl=person_sk
Assigned DMIS ID of the Initial Order Action personnel in the Order Action table	Char(4)	prov_assig_dmisid_oa	assig_dmisid	Return assig_dmisid where order_prov_oa=person_sk
Assigned DMIS ID of the Ordering Provider as per the Order Detail table	Char(4)	prov_assig_dmisid_od	assig_dmisid	Return assig_dmisid where order_prov_od=person_sk
Assigned DMIS ID of the Ordering Provider using the suggested provider hierarchy	Char(4)	prov_assig_dmisid_sugg_final	assig_dmisid	Return assig_dmisid where order_prov_suggested=person_sk
Assigned DMIS ID of the Initial Order Action supervisory personnel in the Order Action table	Char(4)	prov_assig_dmisid_supv_oa	assig_dmisid	Return assig_dmisid where super_prsnl_oa=person_sk
EDIPN of the Ordering Provider as per the Charges table	Char(10)	prov_edipn_chg	prsnl_edipn	Return prsnl_edipn where order_prov_charges=person_sk
EDIPN of the Primary Provider for the encounter associated with the order	Char(10)	prov_edipn_enc_adm	prsnl_edipn	Return prsnl_edipn where prov_enc_adm=person_sk
EDIPN of the Ordering Provider as per the Order table	Char(10)	prov_edipn_o	prsnl_edipn	Return prsnl_edipn where order_doc_prsnl=person_sk
EDIPN of the Initial Order Action personnel in the Order Action table	Char(10)	prov_edipn_oa	prsnl_edipn	Return prsnl_edipn where order_prov_oa=person_sk
EDIPN of the Ordering Provider as per the Order Detail table	Char(10)	prov_edipn_od	prsnl_edipn	Return prsnl_edipn where order_prov_od=person_sk
EDIPN of the Ordering Provider as per the final suggested table	Char(10)	prov_edipn_sugg_final	prsnl_edipn	Return prsnl_edipn where order_prov_suggested=person_sk
EDIPN of the Supervising Provider on the Initial Order Action in the Order Action table	Char(10)	prov_edipn_supv_oa	prsnl_edipn	Return prsnl_edipn where super_prsnl_oa=person_sk

Field	Format	SAS Name	Source Element	Transformation
NPI of the Ordering Provider as per the Charges table	Char(100)	prov_npi_chg	npi	Return npi where order_prov_charges=person_sk
NPI of the Primary Provider for the encounter associated with the order	Char(100)	prov_npi_enc_adm	npi	Return npi where prov_enc_adm=person_sk
NPI of the Ordering Provider as per the Order table	Char(100)	prov_npi_o	npi	Return npi where order_doc_prsnl=person_sk
NPI of the Initial Order Action personnel in the Order Action table	Char(100)	prov_npi_oa	npi	Return npi where order_prov_oa=person_sk
NPI of the Ordering Provider as per the Order Detail table	Char(100)	prov_npi_od	npi	Return npi where order_prov_od=person_sk
NPI of the Ordering Provider as per the suggested final table	Char(100)	prov_npi_sugg_final	npi	Return npi where order_prov_suggested=person_sk
NPI of the Supervising Provider on the Initial Order Action in the Order Action table	Char(100)	prov_npi_supv_oa	npi	Return npi where super_prsnl_oa=person_sk
People Group Assignment of the Ordering Provider as per the Charges table	Char(4)	prov_pg_dmisid_chg	pg_dmisid	Return pg_dmisid where order_prov_charges=person_sk
People Group Assignment of the Primary Provider for the encounter associated with the order	Char(4)	prov_pg_dmisid_enc_adm	pg_dmisid	Return pg_dmisid where prov_enc_adm=person_sk
People Group Assignment of the Ordering Provider as per the Order table	Char(4)	prov_pg_dmisid_o	pg_dmisid	Return pg_dmisid where order_doc_prsnl=person_sk
People Group Assignment of the Initial Order Action personnel in the Order Action table	Char(4)	prov_pg_dmisid_oa	pg_dmisid	Return pg_dmisid where order_prov_oa=person_sk
People Group Assignment of the Ordering Provider as per the Order Detail table	Char(4)	prov_pg_dmisid_od	pg_dmisid	Return pg_dmisid where order_prov_od=person_sk
People Group Assignment of the Ordering Provider as per the final suggested table	Char(4)	prov_pg_dmisid_sugg_final	pg_dmisid	Return pg_dmisid where order_prov_suggested=person_sk
People Group Assignment of the Supervising Provider on the Initial Order Action	Char(4)	prov_pg_dmisid_supv_oa	pg_dmisid	Return pg_dmisid where super_prsnl_oa=person_sk

Field	Format	SAS Name	Source Element	Transformation
in the Order Action table				
Skill Type of the Ordering Provider as per the Charges table	Char(1)	prov_skill_type_chg	skill_type	Return skill_type where order_prov_charges=person_sk
Skill Type of the Primary Provider for the encounter associated with the order	Char(1)	prov_st_enc_adm	skill_type	Return skill_type where prov_enc_adm=person_sk
Skill Type of the Ordering Provider as per the Order table	Char(1)	prov_st_o	skill_type	Return skill_type where order_doc_prsnl=person_sk
Skill Type of the Initial Order Action personnel in the Order Action table	Char(1)	prov_st_oa	skill_type	Return skill_type where order_prov_oa=person_sk
Skill Type of the order personnel as per the Order Detail table	Char(1)	prov_st_od	skill_type	Return skill_type where order_prov_od=person_sk
Skill Type of the Ordering Provider as per the final suggested table	Char(1)	prov_st_sugg_final	skill_type	Return skill_type where order_prov_suggested=person_sk
Skill Type of the Supervising Provider on the Initial Order Action in the Order Action table	Char(1)	prov_st_supv_oa	skill_type	Return skill_type where super_prsnl_oa=person_sk
Skill Type Suffix of the Primary Provider for the ordering provider form the Charges table	Char(1)	prov_stsuff_chg	skill_type_suffix	Return skill_type_suffix where order_prov_charges=person_sk
Skill Type Suffix of the Primary Provider for the encounter associated with the order	Char(1)	prov_stsuff_enc_adm	skill_type_suffix	Return skill_type_suffix where prov_enc_adm=person_sk
Skill Type Suffix of the Ordering Provider as per the Order table	Char(1)	prov_stsuff_o	skill_type_suffix	Return skill_type_suffix where order_doc_prsnl=person_sk
Skill Type Suffix of the Initial Order Action personnel in the Order Action table	Char(1)	prov_stsuff_oa	skill_type_suffix	Return skill_type_suffix where order_prov_oa=person_sk
Skill Type Suffix of the Primary Provider for the ordering provider form the Order Detail table	Char(1)	prov_stsuff_od	skill_type_suffix	Return skill_type_suffix where order_prov_od=person_sk
Skill Type Suffix of the Primary Provider for the ordering provider	Char(1)	prov_stsuff_sugg_final	skill_type_suffix	Return skill_type_suffix where order_prov_suggested=person_sk

Field	Format	SAS Name	Source Element	Transformation
form the final suggested table				
Skill Type Suffix of the Supervising Provider on the Initial Order Action in the Order Action table	Char(1)	prov_stsuff_supv_oa	skill_type_suffix	Return skill_type_suffix where super_prsnl_oa=person_sk
Test Provider Flag of the Ordering Provider as per the Charges table	Char(1)	test_prov_ind_chg	test_record_ind	Return test_record_ind where order_prov_charges=person_sk
Test Provider Flag of the Primary Provider for the encounter associated with the order	#N/A	test_prov_ind_enc_adm	test_record_ind	Return test_record_ind where prov_enc_adm=person_sk
Test Provider Flag of the Ordering Provider as per the Order table	Char(1)	test_prov_ind_o	test_record_ind	Return test_record_ind where order_doc_prsnl=person_sk
Test Provider Flag of the Initial Order Action personnel in the Order Action table	Char(1)	test_prov_ind_oa	test_record_ind	Return test_record_ind where order_prov_oa=person_sk
Test Provider Flag of the Ordering Provider as per the Order Detail table	Char(1)	test_prov_ind_od	test_record_ind	Return test_record_ind where order_prov_od=person_sk
Test Provider Flag of the Ordering Provider as per the final suggested table	Char(1)	test_prov_ind_sugg_final	test_record_ind	Return test_record_ind where order_prov_suggested=person_sk
Test Provider Flag of the Supervising Provider on the Initial Order Action in the Order Action table	Char(1)	test_prov_ind_supv_oa	test_record_ind	Return test_record_ind where super_prsnl_oa=person_sk
<b>Fields from the MDR Encounter-Initial Admission File</b>				
Admitting Encounter Type from the MHS GENESIS Encounter file	Char(22)	enc_type_enc_adm	encounter_type	No transformation
Medical service of the initial record from the MHS Encounter file	Char(40)	med_svc_enc_adm	medical_svc	No transformation
Admitting location from the encounter file	Char(40)	loc_code_enc_adm	encounter_loc_code	No transformation
Ordering Provider from the initial admission on the Encounter table	Char(100)	prov_enc_adm	provid1	No transformation



Field	Format	SAS Name	Source Element	Transformation
<b>Fields from the MDR Encounter File</b>				
Encounter Type from the MHS GENESIS Encounter file	Char(22)	enc_type_enc	encounter_type	No transformation
Medical service from the MHS GENESIS Encounter file	Char(40)	med_svc_enc	medical_svc	No transformation
Location code from the encounter file	Char(40)	loc_code_enc	encounter_loc_code	No transformation
<b>Fields from the Order Detail File</b>				
Ordering Provider from the Order Detail table	Char(40)	order_prov_od	order_detail_value	Populate with order_detail_value where order_sk not in ('0',) and orderable_detail_sk in ('633581','663838','73801613')
Order Reason	Char(255)	order_reason	order_detail_freetext_value	Populate with order_detail_freetext_value where order_sk not in ('0',) and orderable_detail_sk in ('114199829','23357379','23357394','23357396','23357412','115487725','115487915','291366787','397808379')
The order location code from the Order Detail table	Char(40)	order_loc_od	order_detail_value	Populate with order_detail_value where order_sk not in ('0',) and orderable_detail_sk in ('12615')
<b>Fields from the Order Action File</b>				
Ordering Provider from the initial Order Action on the Order Action table	Char(100)	order_prov_oa	order_provider_prsnl	No transformation
Ordering Supervisory Provider from the initial Order Action on the Order Action table	Char(100)	super_prsnl_oa	supervising_prsnl	No transformation
MHS GENESIS unique identifier for the initial Order Action location as per the Order Action table	Char(40)	order_loc_ref_oa	order_loc_ref	No transformation
<b>Fields from the Charges File</b>				
Ordering Provider from the Charges table	Char(100)	order_prov_charges	order_prsnl, verified_physician_prsnl, poster_prsnl	If order_prsnl is not blank or '0', then fill with order_prsnl. Else if verified_physician_prsnl is not blank or '0', then fill with verified_physician_prsnl. Else fill with poster_prsnl.
The order location code from the Charges table	Char(40)	order_loc_charges	order_loc	No transformation

Field	Format	SAS Name	Source Element	Transformation
<b>Fields from the Encounter History File</b>				
Encounter Type from the Encounter History table	Char(40)	encounter_type_eh	encntr_type_ref	Apply format to encntr_type_ref variable for code set '71'
Encounter Type Class from the Encounter History table	Char(40)	enc_type_class_eh	encntr_type_class_ref	Apply format to encntr_type_class_ref variable for code set '69'
Encounter Location from the Encounter History table	Char(40)	enc_loc_eh	encounter_loc	No transformation
Admission type associated with the encounter at the time of the order	Char(40)	admit_type_eh	admit_type_ref	Apply format to admit_type_ref variable for code set '3'
Medical service from the Encounter History table	Char(40)	medical_service_eh	medical_service_ref	Apply format to medical_service_ref variable for code set '34'
<b>Internally Derived Fields</b>				
Calendar Month	Char(2)	cm	N/A	Calendar month of order date
Calendar Year	Char(4)	cy	N/A	Calendar year of order date
Fiscal Month	Char(2)	fm	N/A	Fiscal month of order date
Fiscal Year	Char(4)	fy	N/A	Fiscal year of order date
Order Submitted Date	N(8)	order_dt	order_dt_tm	datepart(order_dt_tm)
Patient Refusal Date/Time- Local Time	E8601DT19.2	pt_refusal_dt_tm	N/A	If canceled_reason_ref='663921' then pt_refusal_dt_tm=canceled_dt_tm_utc_local; else if canceled_reason_ref not in ('663921') and discontinue_reason_ref='663921' then pt_refusal_dt_tm=discontinue_dt_tm_utc; else pt_refusal_dt_tm set to blank
The Suggested Final order location code	Char(40)	order_loc_suggested	N/A	if order_loc_o not in ('','0') then order_loc_suggested=order_loc_o; else if order_loc_od not in ('','0') then order_loc_suggested=order_loc_od; else if order_loc_charges not in ('','0') then order_loc_suggested=order_loc_charges; else if order_loc_ref_oa not in ('','0') then order_loc_suggested=order_loc_ref_oa; else if loc_code_enc not in ('','0') then order_loc_suggested=loc_code_enc; else if enc_loc_eh not in ('','0') then order_loc_suggested=enc_loc_eh; else if loc_code_enc_adm not in ('','0') then order_loc_suggested=loc_code_enc_adm; else order_loc_suggested="blank";

Field	Format	SAS Name	Source Element	Transformation
Source for the suggested final order location	Char(12)	order_loc_sugg_src	N/A	<pre> if order_loc_suggested=order_loc_o then order_loc_sugg_src="Order"; else if order_loc_suggested=order_loc_od then order_loc_sugg_src="Order Detail"; else if order_loc_suggested=order_loc_cha rges then order_loc_sugg_src="Charges"; else if order_loc_suggested=order_loc_ref _oa then order_loc_sugg_src="Order Action"; else if order_loc_suggested=loc_code_enc then order_loc_sugg_src="Encounter"; else if order_loc_suggested=enc_loc_eh then order_loc_sugg_src="Enc Hist"; else if order_loc_suggested=loc_code_enc _adm then order_loc_sugg_src="Enc Adm"; else order_loc_sugg_src="blank"; </pre>
Suggested Final Ordering Provider	Char(100)	order_prov_suggested	N/A	<pre> if order_doc_prsnl not in ('','0') then order_prov_suggested=order_doc_ prsnl; else if order_prov_od not in ('','0') then order_prov_suggested=order_prov_ od; else if order_prov_charges not in (','','0') then order_prov_suggested=order_prov_ charges; else if order_prov_oa not in ('','0') then order_prov_suggested=order_prov_ oa; else if super_prsnl_oa not in ('','0') then order_prov_suggested=super_prsnl _oa; else if prov_enc_adm not in ('','0') then order_prov_suggested=prov_enc_a dm; else order_prov_suggested="blank"; </pre>
Source for the suggested final ordering provider	Char(12)	order_prov_sugg_src	N/A	<pre> if order_prov_suggested=order_doc_ prsnl then order_prov_sugg_src="Order"; else if order_prov_suggested=order_prov_ od then order_prov_sugg_src="Order Detail"; else if order_prov_suggested=order_prov_ charges then order_prov_sugg_src="Charges"; </pre>

Field	Format	SAS Name	Source Element	Transformation
				<pre> else if order_prov_suggested=order_prov_ oa then order_prov_sugg_src="Order Action"; else if order_prov_suggested=super_prsnl _oa then order_prov_sugg_src="Order Action"; else if order_prov_suggested=prov_enc_a dm then order_prov_sugg_src="Enc Adm"; else order_prov_sugg_src="blank" </pre>
VA Facility Indicator	N(8)	order_loc_va_flag	N/A	<pre> if index(loc_fac_disp_charges,"VA") gt 0 then order_loc_va_flag=1; else if index(loc_fac_disp_eh,"VA") gt 0 then order_loc_va_flag=1; else if index(loc_fac_disp_enc,"VA") gt 0 then order_loc_va_flag=1; else if index(loc_fac_disp_o,"VA") gt 0 then order_loc_va_flag=1; else if index(loc_fac_disp_oa,"VA") gt 0 then order_loc_va_flag=1; else if index(loc_fac_disp_od,"VA") gt 0 then order_loc_va_flag=1; else if index(loc_fac_disp_enc_adm,"VA") gt 0 then order_loc_va_flag=1; else order_loc_va_flag=0; </pre>
Blank Encounter Identifier Flag	N(8)	enc_nk_blnk	N/A	<pre> if encounter_nk in ('','0','18635','018635') then enc_nk_blnk=1; else enc_nk_blnk=0; </pre>
DMIS ID based on Accession Number	Char(4)	access_dmisid	accession	<pre> access_dmisid=substr(accession,2,4) ; </pre>

**VIII. REFRESH FREQUENCY**

Weekly

**IX. DATA MARTS**

N/A.

**X. SPECIAL OUTPUTS**

N/A