

15 July 2025

**MHS GENESIS Referral File BDE 3.0
for the
MHS Data Repository (MDR)
(Version 1.00)**

Current Specification

Revision History

Version	Date	Originator	Para/Tbl/Fig	Description of Change
1.00.00	07/15/2025	Tracy Comer	• Initial Document	• Initial Document

MDR Genesis Referral 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 referral records where the referral_written_dt_tm is in a fiscal year. The Referral files are stored at /mdr/pub/genesis3/referral/fyxx.sas7bdat

IV. RECEIVING FILTERS

Referral orders are identified within the GENESIS 3.0 Referral view. New and changed records are updated each week.

V. UPDATE PROCESS

The primary key for the Referral table is the Referral_ID field. During the extraction of the raw records, de-duplication of records, or anytime a Referral_ID 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 Referral file. Table 1 describes additional files that are used in processing.

Table 1 Table Merges

Merge	Date Matching	Additional Matching
GENESIS_VW.CODE_VALUE		ACTIVE_IND = 1
GENESIS_VW.LONG_TEXT		REFERRAL_REASON_TEXT_ID
GENESIS_VW.ORDERS		ORDER_ID
GENESIS_VW.ORDER_ACTION		ORDER_ID

Merge	Date Matching	Additional Matching
GENESIS_VW.PRACTICE_SITE		GENESIS_REFERRAL.REFER_TO_PRACTICE_SITE matches PRACTICE_SITE_ID where PRIMARY_ENTITY_NAME='LOCATION'
GENESIS_VW.REFERRAL_ACTION		REFERRAL_ID
GENESIS_VW.REFERRAL_ENTITY_RELTN		ACTIVE_IND=1
GENESIS_VW.REFERRAL_P_PLAN_AUTH_R		REFERRAL_P_PLAN_RELTN_ID
GENESIS_VW.SCH_EVENT_ACTION		SCH_EVENT_ID matches to PARENT_ENTITY_ID from GENESIS_VW.REFERRAL_ENTITY_RELTN
MDR Genesis 3.0 Appointment File		SCH_EVENT_SK
MDR Genesis 3.0 Encounter File		ENCOUNTER_SK
MDR Genesis 3.0 Person File		PERSON_SK
MDR Genesis 3.0 Location File		REFER_FROM_LOC=LOCATION_SK
MDR Genesis 3.0 Personnel File		REFER_FROM_PROV=PRSNL_SK
TEDN		UIN (minus leading zeroes and non-numeric digits)=REFERRAL_ID
Longitudinal VM6 (LVM6)	order_dt_tm between the begin and end dates associated with the segment	EDIPN
Master Person Index (MPI)		edipn, ssn, gender_r, dob_r, last_name, first_name
OMNI CAD	Year and month of CAD = order date year and month	patzip, sponsvc
DMIS ID Index	FY	MTF and denrsite (2 separate merges)

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 either 1 or blank in the MDR Genesis Person File.
- Records where any of the Refer_from test_personnel_ind fields is either 1 or blank in the MDR Genesis Personnel File.
- Records where the test_location_ind=1 in the MDR Genesis Location File.

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

Table 2 File Layout for MDR Genesis Referral File

Field	Format	SAS Name	Source Element	Transformation
ACCEPT_DT_TM	DATE/TIME	accept_dt_tm	accept_dt_tm	Converted to local date time
ADMINISTRATIVE_PROBLEM	\$40	administrative_problem	administrative_problem_cd	Apply format to administrative_problem_cd; field is currently blank
AUTHORIZATION_ID	8	authorization_id	authorization_code_txt	No transformation
CASE_NUMBER2	\$20	case_number2	referral_id	Convert format of referral_id to 20 char field
ORDER_SK	\$100	order_sk	order_id	Convert format of order_id to 100 char field
PERSON_SK	\$100	person_sk	person_id	Convert format of person_id to 100 char field
PRIORITY	8	priority	priority_cd	No transformation
REFER_FROM_PROVIDER	\$100	refer_from_prov	refer_from_provider_id	Convert to character field
REFER_FROM_LOCATION	\$100	refer_from_loc	refer_from_location_cd	Convert to character field
REFERRAL_ID	8	referral_id	referral_id	No transformation
REFERRAL_PRIORITY	\$60	referral_priority	priority_cd	Apply format for code set '14776' to priority_cd
REFERRAL_STATUSES	\$18	referral_status	referral_status_cd	Apply format for code set '4002978' to referral_status_cd
REFERRAL_SUBSTATUS	\$37	referral_sub_status	referral_substatus_cd	Apply format for code set '4640011' to referral_substatus_cd
REFERRAL_WRITTEN_DT_TM	DATE/TIME	referral_written_dt_tm	referral_written_dt_tm	Converted to local date time
REQUESTED_START_DT_TM	DATE/TIME	requested_start_dt_tm	requested_start_dt_tm	Converted to local date time
SERVICE_CATEGORY	\$60	service_category	service_category_cd	Apply format to service_category_cd; field is currently blank
SERVICE_TYPE	\$60	service_type	service_type_requested_cd	Apply format for code set '14776' to service_type_requested_cd
Fields from GENESIS_VW.LONG_TEXT				
REASON_FOR_REFERRAL	\$100	reason_for_refer	long_text	Populate with long_text field where referral_reason_text_id from GENESIS_VW.REFERRAL equals long_text_id from GENESIS_VW.LONG_TEXT
Fields from GENESIS_VW.ORDERS				
ACTIVITY_TYPE	\$30	activity_type	activity_type_cd	No transformation
ACTIVITY_TYPE_CD_DISP	\$60	activity_type_cd_disp	activity_type_dis_p	Apply format for code set '23274635' to activity_type_cd
LAST_ORDER_STATUS_O	\$60	last_order_status_o	order_status_cd	Apply format for code set '6004' to order_status_cd
ORDERABLE_DISP	\$100	orderable_disp	order_detail_dis_lay_line	No transformation
ORDERABLE_MNEMONIC	\$150	orderable_mnemonic	order_mnemonic	No transformation
ORDER_DT_TM	DATE/TIME	order_dt_tm	order_dt_tm	Converted to local date time

Field	Format	SAS Name	Source Element	Transformation
Fields from GENESIS_VW.PR ACTICE_SITE				
REFER_TO_PRAC TICE_SITE	\$100	refer_to_practice _site	practice_site_dis play	Populate with practice_display where refer_to_practice_site_id field matches the primary_entity_id and the primary_entity_name='LOCATION'
REFER_TO_LOC	\$100	refer_to_loc	primary_entity_i d	Populate with primary_entity_id where refer_to_practice_site_id field matches the primary_entity_id and the primary_entity_name='LOCATION'
Fields from GENESIS_VW.REF ERRAL_ACTION				
CANCELED_DT_T M	DATE/TIME	canceled_dt_tm	action_dt_tm	Convert action_dt_tm to local date time where referral_action_type_cd with code set '4242006' applied equals 'Cancel'
CANCELED_REAS ON	\$40	canceled_reason	referral_action_t ype_cd	Apply format for code set '4002958' to reason_cd where referral_action_type_cd with code set '4242006' applied equals 'Cancel'
DEFER_DT_TM	DATE/TIME	defer_dt_tm	action_dt_tm	Convert action_dt_tm to local date time where referral_action_type_cd with code set '4242006' applied equals 'DEFER'
DEFER_TO_NETW ORK_REASON	\$40	defer_to_networ k_reason	referral_action_t ype_cd	Apply format for code set '4002958' to reason_cd where referral_action_type_cd with code set '4242006' applied equals 'DEFER'
PEND_ACCEPT_D T_TM	DATE/TIME	pend_accept_dt_ tm	action_dt_tm	Convert action_dt_tm to local date time where referral_action_type_cd with code set '4242006' applied equals 'Pending Acceptance'
PT_REFUSAL_DT_ TM	DATE/TIME	pt_refusal_dt_tm	action_dt_tm	Convert action_dt_tm to local date time where referral_action_type_cd with code set '4242006' applied equals 'Reject' and reason_cd with code set '4002958' applied equals 'Patient Declined'
RECEIVE_DT_TM	DATE/TIME	receive_dt_tm	action_dt_tm	Convert action_dt_tm to local date time where referral_action_type_cd with code set '4242006' applied equals 'Receive'
REJECT_REASON	\$40	reject_reason	referral_action_t ype_cd	Apply format for code set '4002958' to reason_cd where referral_action_type_cd with code set '4242006' applied equals 'Reject'
Fields from GENESIS_VW.REF ERRAL_ENTITY_R ELTN				
SCH_EVENT_SK	\$100	sch_event_sk	sch_event_sk	Return parent_entity_id from record where referral_id matches and where parent_entity_name='SCH_EVENT'
Fields from GENESIS_VW.SC H_EVENT_ATTAC H				
DESCRIPTION_SE A	\$60	description_sea	description	Return description from record where referral_entity_reltn.parent_entity_id equals sch_event_id where referral_entity_reltn.parent_entity_name='SC H_EVENT'

Field	Format	SAS Name	Source Element	Transformation
Fields from MHS Genesis Person File				
Person EDIPN	\$10	edipn	N/A	Return edipn where person_sk from referral file=person_sk
SSN	\$9	ssn	N/A	Return ssn where person_sk from referral file=person_sk. If the MPI merge results in a different SSN for this EDIPN, fill with the SSN from the MPI.
First Name	\$100	first_name	N/A	Return first_name where person_sk from referral file=person_sk
Last Name	\$100	last_name	N/A	Return last_name where person_sk from referral file=person_sk
MRN	\$40	mrn	N/A	Return mrn where person_sk from referral file=person_sk
IPI	\$10	ipi	N/A	Return ipi where person_sk from referral file=person_sk
Gender of Record	\$10	gender_r	N/A	Return gender where person_sk from referral file=person_sk
Date and Time of Birth of Record	Date/Time	dob_r	N/A	Return dob where person_sk from referral file=person_sk
Race of Record	\$41	race_r	N/A	Return race where person_sk from referral file=person_sk
Ethnic Group of Record	\$1	ethnic_r	N/A	Return ethnic where person_sk from referral file=person_sk
ZIP Code of Record	\$25	patzip_r	N/A	Return zip where person_sk from referral file=person_sk
Marital Status of Record	\$20	marital_r	N/A	Return marital where person_sk from referral file=person_sk
Test Person Indicator	8	test_person_ind	N/A	Return test_record_indicator value where there is match on person_sk
Fields from the MDR Genesis Location File				
Referring from Clinic Name	\$100	refer_from_loc_unit_name	N/A	Return unit_name where refer_from_loc_cd of the GENESIS_VW.REFERRAL table equals location_sk
Referring from Nurse Unit Display	\$45	refer_from_loc_unit_display	N/A	Return unit_display where refer_from_loc_cd of the GENESIS_VW.REFERRAL table equals location_sk
Referring from Clinic (MEPRS 4 Code)	\$4	refer_from_loc_meprs_cd	N/A	Return meprs_cd where refer_from_loc_cd of the GENESIS_VW.REFERRAL table equals location_sk
Referring from DMIS ID	\$4	refer_from_loc_mtf		Return mtf where refer_from_loc_cd of the GENESIS_VW.REFERRAL table equals location_sk
Referring from Parent DMIS ID	\$4	refer_from_loc_mtf_parent	N/A	Return mtf_parent where refer_from_loc_cd of the GENESIS_VW.REFERRAL table equals location_sk
Referring from Clinic Active Indicator	8	refer_from_loc_active_ind	N/A	Return the active_ind where refer_from_loc_cd of the GENESIS_VW.REFERRAL table equals location_sk

Field	Format	SAS Name	Source Element	Transformation
Referring from Test Location Indicator	8	refer_from_loc_test_flag	N/A	Return test_location_ind where refer_from_loc_cd of the GENESIS_VW.REFERRAL table equals location_sk
Refer to Clinic Name	\$100	refer_to_loc_unit_name	N/A	Return unit_name where refer_to_loc_cd equals location_sk
Referring to Nurse Unit Display	\$45	refer_to_loc_unit_display	N/A	Return unit_display where refer_to_loc_cd equals location_sk
Referring to Clinic (MEPRS 4 Code)	\$4	refer_to_loc_meprs_cd	N/A	Return meprs_cd where refer_to_loc_cd equals location_sk
Referring to DMIS ID	\$4	refer_to_loc_mtf	N/A	Return mtf where refer_to_loc_cd equals location_sk
Referring to Parent DMIS ID	\$4	refer_to_loc_mtf_parent	N/A	Return mtf_parent where refer_to_loc_cd equals location_sk
Referring to Test Location Indicator	8	refer_to_loc_test_flag	N/A	Return test_location_ind where refer_to_loc_cd of the GENESIS_VW.REFERRAL table equals location_sk
Fields from the MDR Genesis Personnel File				
Referring from provider Skill Type	\$1	refer_from_prov_st	N/A	Return the skill_type where refer_from_provider_id from GENESIS_VW_REFERRAL file =person_id
Referring from provider Skill Type Suffix	\$1	refer_from_prov_stsuff	N/A	Return the skill_type_suffix where refer_from_provider_id from GENESIS_VW_REFERRAL file =person_id
Referring from provider EDI_PN	\$10	refer_from_prov_edipn	N/A	Return the prsnl_edipn where refer_from_provider_id from GENESIS_VW_REFERRAL file =person_id
Referring from provider NPI	\$100	refer_from_prov_npi	N/A	Return the npi where refer_from_provider_id from GENESIS_VW_REFERRAL file =person_id
Referring from physician Indicator	8	refer_from_prov_phys_ind	N/A	Return the physician_ind where refer_from_provider_id from GENESIS_VW_REFERRAL file =person_id
Referring from physician's assigned MTF	\$4	refer_from_prov_assig_dmisid	N/A	Return the assig_dmisid where refer_from_provider_id from GENESIS_VW_REFERRAL file =person_id
Referring from physician's people group	\$4	refer_from_prov_pg_dmisid	N/A	Return the pg_dmisid where refer_from_provider_id from GENESIS_VW_REFERRAL file =person_id
Referring from Personnel Test Indicator	\$1	refer_from_prov_test_flag	N/A	Return the test_record_ind where refer_from_provider_id from GENESIS_VW_REFERRAL file= person_id
Referring from Personnel HIPAA Taxonomy 1-5	\$10	refer_from_prov_hipaa1-5	N/A	Return the hipaa1-hipaa5 where refer_from_provider_id from GENESIS_VW_REFERRAL file= person_id
Provider Full Name	\$100	prov_full_name_o	N/A	Return full_name where refer_from_provider_id from GENESIS_VW_REFERRAL file= person_id
Referring to provider Skill Type	\$1	refer_to_prov_st	N/A	Return the skill_type where refer_to_provider_id = person_id

Field	Format	SAS Name	Source Element	Transformation
Referring to provider Skill Type Suffix	\$1	refer_to_prov_st_suff	N/A	Return the skill_type_suffix where refer_to_provider_id =person_id
Referring to provider EDI_PN	\$10	refer_to_prov_edipn	N/A	Return the prsnl_edipn where refer_to_provider_id =person_id
Referring to provider NPI	\$100	refer_to_prov_npi	N/A	Return the npi where refer_to_provider_id =person_id
Referring to physician indicator	8	refer_to_prov_phys_ind	N/A	Return the physician_ind where refer_to_provider_id =person_id
Referring to physician's assigned MTF	\$4	refer_to_prov_assigned_dmisid	N/A	Return the assign_dmisid where refer_to_provider_id =person_id
Referring to physician's people group	\$4	refer_to_prov_pg_dmisid	N/A	Return the pg_dmisid where refer_to_provider_id =person_id
Referring to Personnel Test Indicator	\$1	refer_to_prov_test_flag	N/A	Return the test_record_ind where refer_to_provider_id =person_id
Referring to Personnel HIPAA Taxonomy 1-5	\$10	refer_to_prov_hipaa1-5	N/A	Return the hipaa1-hipaa5 where refer_to_provider_id =person_id
Fields from the MDR Appointment File				
Refer to Encounter Class	\$40	refer_to_encounter_class	N/A	Return encounter_class where encounter_sk= refer_to_encounter_sk
Refer to Encounter Type	\$40	refer_to_encounter_type	N/A	Return encounter_type where encounter_sk= refer_to_encounter_sk
Refer to Appointment Status	\$20	refer_to_appt_status	N/A	Return the appt_stat where encounter_sk= refer_to_encounter_sk
Refer to Appointment Legacy Status	\$2	refer_to_appt_status_legacy	N/A	Return the appt_status_legacy where encounter_sk= refer_to_encounter_sk
Refer to Appointment Date	DATE/TIME	refer_to_appt_dt_tm	N/A	Return the appt_dt_tm where encounter_sk= refer_to_encounter_sk
Refer to Financial Number	\$40	refer_to_financial_nbr	N/A	Return the fin where encounter_sk= refer_to_encounter_sk
Refer to Appointment Type	\$16	refer_to_appt_type	N/A	Return the appt_type where encounter_sk= refer_to_encounter_sk
Refer to Appointment Made Date Time	DATE/TIME	refer_to_appt_made_dt_tm	N/A	Return the appt_made_dt_tm where encounter_sk= refer_to_encounter_sk
Refer to Appointment Legacy Type	\$6	refer_to_appt_type_legacy	N/A	Return the appt_type_legacy where encounter_sk= refer_to_encounter_sk
Refer to Appointment Identifier	\$100	refer_to_appt_sk	N/A	Return the sch_appointment_sk where encounter_sk= refer_to_encounter_sk

Field	Format	SAS Name	Source Element	Transformation
Refer to Encounter Identifier (numeric)	8	refer_to_encounter_key	N/A	Return the encounter_key where encounter_sk= refer_to_encounter_sk
Refer to Encounter Identifier	\$100	refer_to_encounter_sk	N/A	Return encounter_sk from record where numeric form of the referral sch_event_sk equals sch_event_id
Fields from the Encounter File				
Encounter Number	\$100	encounter_sk	N/A	Return encounter_sk from encounter record where outbound_encntr_id in the referral file equals encntr_id
Financial Number	\$40	refer_from_financial_nbr	N/A	Return fin from encounter record where outbound_encntr_id in the referral file equals encntr_id
Admission Location	\$40	admit_loc_enc	N/A	Return encounter_loc_code from encounter record where outbound_encntr_id in the referral file equals encntr_id
Encounter Type Class	\$26	enc_type_enc	N/A	Return encounter_class where outbound_encntr_id in the referral file equals encntr_id
Medical Service	\$43	med_service_enc	N/A	Return medical_svc where outbound_encntr_id in the referral file equals encntr_id
Fields from the MPI				
Sponsor SSN	\$9	sponsn	N/A	If a record is found in the MPI with matching EDIPN or Patient SSN, fill with the Sponsor SSN from the MPI.
Person Association Reason Code	\$2	parc	N/A	If a record is found in the MPI with matching EDIPN or Patient SSN, fill with the PARC for the relationship between this patient and the sponsor on that record.
Fields from the LVM6				
Gender	\$1	gender	N/A	Fill with gender associated with this EDIPN. If not found and gender_r = F or M, set to gender_r.
Date of Birth	SAS Date	patdob	N/A	Fill with date of birth associated with this EDIPN
DEERS Sponsor Service Aggregate	\$1	sponsvc	N/A	Fill with sponsvc code if the order_date is between the begin and end date associated with the enrollment record.
DEERS Health Care Delivery Program Code – Enrolled	\$3	hcdp	N/A	Fill with enrollment HCDP code if the order_date is between the begin and end date associated with the enrollment HCDP code.
DEERS Alternate Care Value	\$1	acv	N/A	Fill with acv if the order_date is between the begin and end date associated with the enrollment record.
ACV Group	\$2	acvgroup	N/A	Derived from ACV and comben (before 1/1/18) or enrollment group, PCM type, eligibility group, and comben (after 1/1/18). If there is no match for this patient in the LVM, set to O. See VM6 Specification, section G.3 for derivation.

Field	Format	SAS Name	Source Element	Transformation
DEERS Enrollment DMIS ID	\$4	denrsite	N/A	Fill with denrsite if the order_date is between the begin and end date associated with the enrollment record.
DEERS Beneficiary Category	\$3	bencat	N/A	Fill with bencat if the order_date is between the begin and end date associated with the enrollment record.
DEERS Common Beneficiary Category	\$1	comben	N/A	Fill with comben if the order_date is between the begin and end date associated with the enrollment record.
Marital Status	\$1	marital	N/A	Fill with Marital Status if the begin date on the appointment record is between the begin and end date associated with the Marital Status. See VM6 Specification, Exhibits G-18 and 19 for segment and field positions.
Race	\$1	race	N/A	Fill with race associated with this EDIPN. If there is no match for this patient in the LVM, set to Z.
Ethnic Group	\$1	ethnic	N/A	Fill with ethnicity associated with this EDIPN. . If there is no match for this patient in the LVM, set to Z.
DEERS Zip Code	\$5	patzip	N/A	Fill with patzip if the order_date is between the begin and end date associated with the enrollment record.
Enrollment Group	\$1	enr_grp	N/A	Fill with enr_grp if the order_date is between the begin and end date associated with the enrollment record.
Eligibility Group	\$1	elg_grp	N/A	Fill with elg_grp if the order_date is between the begin and end date associated with the enrollment record.
PCM ID	\$18	pcmid	N/A	Fill with PCM ID if the begin date on the referral record is between the begin and end dates associated with the PCM ID. See VM6 Specification, Exhibits G-18 and 19 for segment and field positions.
PCM Name	\$40	pcm_name	N/A	Fill with PCM Name if the begin date on the appointment record is between the begin and end date associated with the Enrollment PCM Type. If the appointment date is on or after 1/1/18 and the appointment date is outside of the dates associated with the Enrollment Group, or there is no match for this patient in the LVM, set to Z. If the appointment date is before 1/1/18, set to blank. See VM6 Specification, Exhibit G-19 for segment and field positions.

Field	Format	SAS Name	Source Element	Transformation
PCM NPI	\$10	pcm_npi	N/A	Fill with the PCM NPI if the begin date on the appointment record is between the begin and end date associated with the Enrollment PCM Type. If the appointment date is on or after 1/1/18 and the appointment date is outside of the dates associated with the Enrollment Group, or there is no match for this patient in the LVM, set to Z. If the appointment date is before 1/1/18, set to blank. See VM6 Specification, Exhibit G-19 for segment and field positions.
PCM Type	\$1	pcm_type	N/A	Fill with Enrollment PCM Type if the begin date on the appointment record is between the begin and end date associated with the Enrollment PCM Type. If the appointment date is on or after 1/1/18 and the appointment date is outside of the dates associated with the Enrollment Group, or there is no match for this patient in the LVM, set to Z. If the appointment date is before 1/1/18, set to blank. See VM6 Specification, Exhibit G-19 for segment and field positions.
Medicare Eligibility Flag	\$1	medicare_flag	N/A	Fill with Medicare Eligibility Code if the begin date on the appointment record is between the begin and end date associated with the Medicare Eligibility Code. If the appointment date is outside of the dates associated with the Medicare Flag, or there is no match for this patient in the LVM, set to N. See VM6 Specification, Exhibits G-18 and 19 for segment and field positions.
Privilege Code	\$1	privilege	N/A	Fill with Medical Privilege Code if the begin date on the appointment record is between the begin and end date associated with the Medical Privilege Code. If the appointment date is outside of the dates associated with the Privilege Code, or there is no match for this patient in the LVM, set to 9. See VM6 Specification, Exhibits G-18 and 19 for segment and field positions.
HCDP - Assigned	\$3	hcdp_assgn	N/A	Fill with hcdp-assgn if the order_date is between the begin and end date associated with the enrollment record.
Fields from the DMIS ID Index Table (merging by refer_from_loc_mtf)				
Treatment Service	\$1	txsvc	N/A	After matching on FY and refer_from_loc_mtf, set to ubu_svc
Treatment Parent DMIS ID	\$4	mtf_parent	N/A	After matching on FY and refer_from_loc_mtf, set to ubu_par

Field	Format	SAS Name	Source Element	Transformation
Treatment T3 Region	\$2	mtf_t3_reg	N/A	After matching on FY and refer_from_loc_mtf, set to t3_reg
Treatment T17 Region	\$2	mtf_t17_reg	N/A	After matching on FY and refer_from_loc_mtf, set to t17_reg
Treatment T5 Region	\$2	mtf_t5_reg	N/A	After matching on FY and refer_from_loc_mtf, set to t5_reg
Treatment Major Command	\$8	txcmnd	N/A	After matching on FY and refer_from_loc_mtf, set to majcmnd
Treatment MSM Area ID	\$3	txmsma	N/A	After matching on FY and refer_from_loc_mtf, set to msm_id
Fields from the DMIS ID Index Table (merging by denrsite)				
Enrollment Service	\$1	enrsvc	N/A	After matching on FY and denrsite, set to ubu_svc
Enrollment Site Parent DMIS ID	\$4	enr_parent	N/A	After matching on FY and denrsite, set to ubu_par
Enrollment T3 Region	\$2	enr_t3_reg	N/A	After matching on FY and denrsite, set to t3_reg
Enrollment T17 Region	\$2	enr_t17_reg	N/A	After matching on FY and denrsite, set to t17_reg
Enrollment T5 Region	\$2	enr_t5_reg	N/A	After matching on FY and denrsite, set to t5_reg
Fields from the Omni-CAD				
Catchment Area ID	\$4	catch	N/A	Based on matching FY, FM and patzip; if sponsvc = A then set equal to AWORLD, if sponsvc = F then set equal to FWORLD; if sponsvc in (M, N, V) then set equal to NWORLD, otherwise set equal to OWORLD. If zip code not found in MDR Omni-CAD, set equal to '0999'
PRISM Area ID	\$4	prism	N/A	Based on matching FY, FM and patzip; if sponsvc = A then set equal to APRISM, if sponsvc = F then set equal to FPRISM; if sponsvc in (M, N, V) then set equal to NPRISM, otherwise set equal to OPRISM. If zip code not found in MDR Omni-CAD, set equal to '0999'
MTF Service Area ID	\$4	mtfsvcarea	N/A	Based on matching FY, FM and patzip; if sponsvc = A then set equal to ABPA, if sponsvc = F then set equal to FBPA; if sponsvc in (M, N, V) then set equal to NBPA, otherwise set equal to OPRISM. If zip code not found in MDR Omni-CAD, set equal to '0999'
T3 Residence Region	\$2	ben_t3_reg	N/A	Based on matching FY, FM and patzip; Set equal to T3_REG. If zip code not found in MDR Omni-CAD, leave blank.
T17 Residence Region	\$2	ben_t17_reg	N/A	Based on matching FY, FM and patzip; Set equal to T17_REG. If zip code not found in MDR Omni-CAD, leave blank.
T5 Residence Region	\$2	ben_t5_reg	N/A	Based on matching FY, FM and patzip; Set equal to T5_REG. If zip code not found in MDR Omni-CAD, leave blank.

Field	Format	SAS Name	Source Element	Transformation
Fields from TEDN				
TEDN UIN	\$17	tedn_uin	N/A	Fill with the uin from the TEDN Record where the uin (minus leading zeroes and non-numeric characters) is populated and matches the referral_id OR the uin from the Referral Crosswalk table record where the uin (minus leading zeroes and non-numeric characters) is populated and matches the referral_id
Record Number	\$24	tedn_recno	N/A	No transformation
Type Service	\$1	tedn_tpsvc	N/A	No transformation
Internally Derived Fields				
Age Group	\$1	agegrp	N/A	If Patient Age is 0-4, set to A; if 5-14, B; if 18-24, C; if 25-34, D; if 35-44, F; if 45-64, G; if 65+, H; else X.
Consulting MTF	\$78	consulting_mtf	N/A	Substr(left(refer_to_practice_site),1,78)
Referral CM	\$2	cm	N/A	Calendar Month of referral_written_dt_tm
Referral CY	\$4	cy	N/A	Calendar Year of referral_written_dt_tm
Defer to Network Indicator	8	defer_to_network	N/A	If defer_dt_tm is populated, set to 1, set to 0.
Referral FM	\$2	fm	N/A	Fiscal Month of referral_written_dt_tm
Referral FY	\$4	fy	N/A	Fiscal Year of referral_written_dt_tm
MTF Kept	8	mtf_kept	N/A	If refer_to_encounter_sk is not blank then mtf_kept=1, else mtf_kept=0
MTF Network Referral Flag	8	net_ref	N/A	If referral_id is equal to a UIN on the TEDN file, net_ref=1, else net_ref=0
Patient Age	8	patage	N/A	Age in years from date of birth (from DEERS) to appointment date. If date of birth from DEERS is not available, use dob_r.
Race Final	\$1	race_final	N/A	If the patient is Active Duty or Guard, use DEERS race value as primary over GENESIS race value, except for 'Other' and 'Unknown'. If the patient is not Active Duty or Guard, use GENESIS race value as primary over DEERS. See Appendix 1: Race Derivation for additional details.
Referring to Location Code	\$100	refer_to_loc_cd	Primary_entity_id (PRACTICE SITE) Scheduled_Loc (Appointment file)	Populate with primary_entity_id where refer_to_practice_site_id field matches the primary_entity_id and the primary_entity_name='LOCATION'. If not possible, use the scheduled_loc from the appointment file merge.
Referring to Provider ID	\$100	refer_to_prov	Refer_to_provider_id (REFERRAL) Provid_prim (Appointment file)	Return refer_to_provider_id from GENESIS_VW_REFERRAL file if populated or the provid_prim of the refer to appointment record
Refer to Specialty	\$40	refer_to_specialty	N/A	Scan(order_detail_display_line,2,',')
Referral Match	8	ref_mtch	N/A	If stripped uin =referral_id, then set to 1. Else set to 0.
TEDN Match Flag	8	tedn_mtch	N/A	If referral_id and tedn_uin or case_number and tedn_uin are both populated in a record, tedn_mtch=1 else tedn_mtch is null.

VIII. REFRESH FREQUENCY

Weekly

IX. DATA MARTS

N/A.

X. SPECIAL OUTPUTS

N/A

Appendix 1: Race Derivation

* if active duty or active guard, use deers as primary over genesis, except for 'other' and 'unknown';

```
if bencat in ('ACT','GRD') then do;
  if (race_deers='C' or race_deers='E') then race = 'E';
  else if (race_deers='N' or race_deers='G') then race = 'G';
  else if (race_deers='R' or race_deers='A') then race = 'A';
  else if ((race_deers='M' and ethnic_deers not in ('E','H','L','Q','W')) or race_deers = 'B') then race = 'B';
  else if ((race_deers='M' and ethnic_deers in ('E','H','L','Q','W')) or race_deers = 'D') then race='D';
  else if find(race_genesis,'alaska','i') then race = 'A';
  else if find(race_genesis,'asian','i') then race='B';
  else if find(race_genesis,'hawaiian','i') then race = 'D';
  else if find(race_genesis,'white','i') then race = 'E';
    else if find(race_genesis,'black','i') then race='G';
  else if race_deers='X' then race='X';
    else if race_genesis = 'Other Race' then race = 'X';
    else if race_deers='Z' then race='Z';
    else race='Z';
end;
* if not active duty or guard, use genesis as primary over deers;
if bencat not in ('ACT','GRD') then do;
  if find(race_genesis,'alaska','i') then race = 'A';
  else if find(race_genesis,'asian','i') then race='B';
  else if find(race_genesis,'hawaiian','i') then race = 'D';
  else if find(race_genesis,'white','i') then race = 'E';
  else if find(race_genesis,'black','i') then race='G';
  else if (race_deers='C' or race_deers='E') then race = 'E';
  else if (race_deers='N' or race_deers='G') then race = 'G';
  else if (race_deers='R' or race_deers='A') then race = 'A';
  else if ((race_deers='M' and ethnic_deers not in ('E','H','L','Q','W')) or race_deers = 'B') then race = 'B';
  else if ((race_deers='M' and ethnic_deers in ('E','H','L','Q','W')) or race_deers = 'D') then race='D';
  else if race_genesis = 'Other Race' then race = 'X';
  else if race_deers='X' then race='X';
  else if race_deers='Z' then race='Z';
  else race='Z';
end;
```