MHS GENESIS Encounter Episodic File BDE 3.0 for the MHS Data Repository (MDR) (Version 1.08)

Future Specification

Revision History

Version	Date	Originator	Para/Table/Fig	Description of Change
1.0	2/28/24	D. Juckett, C. Kangas	Initial Document	Initial Document
1.01	3/8/24	C. Kangas	• Table 3	Changed source of appt_stat field.
			 Appendix A.2 	Incorporated the usage of BDE 2.4 data to fill in
				the missing BDE 3.0 Appointment data that was
				purged by Oracle Cerner from FY17-FY20.
1.02	4/10/24	C. Kangas, D. Juckett	VI. Receiving Filters Table 3	Added a filter on Encounter Type Added a filter on Encounter Type
			• Table 3	Updated logic for MTF field.
				Added the PARC field. Added the EVALVIS field.
				Added the EVALVIS field. Added Appointment Made Date.
1.03	5/30/24	C. Kangas, D. Juckett	• Table 1	Added fields: PCM_NPI, PCM_NAME,
1.03	3/30/24	C. Kaligas, D. Juckett	• Table 1	PAT ATTCH UIC, PAT ASSGN UIC,
				PIP_PLAN_NAME, PIP_SPONSOR_STATUS,
				PIP_SPONSOR_RANK,
				PIP_SPONSOR_GRADE,
				PIP_SPONSOR_BRANCH, SPONSOR_PERSON_ID, MEMBER_NBR
				Updated PROV_EDIPN_APPT,
				ATTENDING_PHYS_EDIPN, and
	2/2-/2		T.I. 0	ADMITTING_PROV_EDIPN logic
1.04	6/27/24	C. Kangas, D. Juckett	• Table 3	Added Profile field Addition to a significant data to a few dentals.
1.05	7/1/24	C. Kangas, D. Juckett	• Table 3	Adjust logic for visit_dt_tm for dental encounters to use create_dt_tm.
1.06	7/3/24	C. Kangas, D. Juckett	• Table 3	Added Financial Class field
1.07	8/19/24	C. Kangas, D. Juckett	• Table 3	Added DOD_Clinic_Group field
1.08	<mark>10/22/2</mark> 4	C. Kangas, D. Juckett	• Table 3	DEERS Beneficiary Category update logic for no
				match to OTH, rather than UNK.
				 Added fields: PROVID_CREDITED, PROV_NPI_
				CREDITED, PROV_EDIPN_ CREDITED,
				PROV_NAME_ CREDITED, PROV_HIPAA_
				CREDITED, MEPRS1_MED_SVC,
				MEPRS2_MED_SVC , MEPRS3_MED_SVC Update the transformation rules for
				 Update the transformation rules for DISPCODE LEGACY
				Add DX21-DX50
				Add CCE_DX21-CCE_DX50
				 Add PC_DX21- PC_DX50
				 Add CHRG_DX21- CHRG_DX50
				 Rename Profile to PIP Profile

MDR GENESIS Encounter Table

I. BACKGROUND

This specification describes the transformation process required to create the Military Health System (MHS) Data Repository (MDR) GENESIS Encounter table based on data received from the Oracle Bulk Data Extract (BDE) 3.0 feeds.

II. SOURCE

The source system is the MHS GENESIS Oracle Millennium database.

III. RAW

All records in the Encounter table are based on data pulled from the raw MIP Redshift genesis_vw.encounter view. To increase the utility of the MDR Encounter table, variables from other MDR tables in the following subject areas have been added: CPT Charge, Person, Personnel, and Location. Additionally, variables from the DEERS LVM, CPT RVU Table, Omni CAD, DMHRSi, and DMISID Index tables have been added. The MDR Encounter records are processed by the TRICARE APC Grouper to add APC codes and weights. Table 1 provides a listing of raw Redshift views that are used during the creation of the MDR Encounter table.

Table 1: MIP Redshift Raw Source Views

Raw Source Table	View Name	Feed Description
Charge	genesis_vw.charge	Contains charge-level events, both CPTs and other types of charges.
Encounter	genesis_vw.encounter	Contains information related to the encounter including patient, provider, time, and location details.
Encounter Alias	genesis_vw.encntr_alias	Used to look up encounter identifiers such as the FIN.
Encounter Personnel Relationship	genesis_vw.encntr_prsnl_reltn	Contains personnel and their relationship (i.e., admitting physician, attending, etc.) to the encounter.
Schedule Appointment	genesis_vw.sch_appt	Contains appointment and scheduling information related to the encounter record.
Schedule Event Actions	genesis_vw.sch_event_action	Contains additional appointment and scheduling information related to the encounter record.
Person	genesis_vw.person	Contains person level demographic information (i.e, race).

Raw Source Table	View Name	Feed Description
Person Information	genesis_vw.person_info	Contains additional person level information (i.e., patcat).
Encounter Information	genesis_vw.encntr_info	Contains additional encounter level information.
Diagnosis	genesis_vw.diagnosis	Contains ICD-10-Dx diagnosis codes as assigned by the provider and coder.
Clinical Event	genesis_vw.clinical_event	Contains discrete events related to the medical record, including results, medications, documents, and many more.
Personnel	genesis_vw.prsnl	Contains information for all people identified within GENESIS as personnel (i.e., doctors, nurses).
Organization	genesis_vw.organization	Used to look up billing organization details (i.e., Coast Guard, DHP).
Personnel Alias	genesis_vw.prsnl_alias	Used to look up personnel identifiers such as the NPI.
Person Alias	genesis_vw.person_alias	Used to look up key person identifiers such as the EDIPI.
Code Value	genesis_vw.code_value	A reference table used to look up descriptions for many code values.
Billing Entity	genesis_vw.billing_entity	Contains descriptions of billing entities.
Health Plan	genesis_vw.health_plan	Contains descriptions of health plans such as TRICARE PRIME.
Time Zone	mdr_processing.vw_gen_mdr_time_zone	Used to identify the MTF time zone to convert UTC datetimes to local time.
Test Patients	mdr_processing.vw_gen_test_pats	Used to remove test patients from the final dataset.
Encounter Health Plan Relationship	genesis_vw.encntr_plan_reltn	Used to look up Patient Identification Process (PIP) fields
Person Organization Relationship	genesis_vw.person_org_reltn	Used to look up Patient Identification Process (PIP) fields
Health Plan	genesis_vw.health_plan	Used to look up Patient Identification Process (PIP) fields

IV. TRANSMISSION FREQUENCY

The MDR GENESIS Encounter table is updated daily.

V. ORGANIZATION

Output products: FY-based SAS datasets containing all Encounter records where the Visit Date is in a fiscal year. The Encounter tables are stored as fiscal year datasets located at: /mdr/pub/genesis3/encounter/m2/fy[##].sas7bdat.

VI. RECEIVING FILTERS

Encounter records are kept based on the following logic criteria:

- Only records with an active_ind = 1 are kept.
- Test patients are excluded.
- Records with an encounter type of 'Lifetime Pharmacy', 'History', 'Outside Documentation Only', 'Referral Tracking', or 'Care Not Rendered' are excluded.

VII. UPDATE PROCESS

Raw BDE feeds from Oracle are sent to MIP Redshift, and the Redshift tables and views (ex. genesis_vw.encounter) are updated daily. New and updated records are sent by Oracle each day. New records are added to the existing table. Updated records replace the original record in the table based on the ENCNTR_ID field, which is the primary key for the encounter view. Similar processes are applied to the other raw supporting views within Redshift.

Once the raw data has been updated, the MDR processes it into the analytic table as described in this specification and assigns many other internally derived variables as described in Table 3. Additional logic is necessary to get to the final level of granularity for an individual Encounter record, leading to the formation of the composite key of the MDR Encounter table: ENCNTR_ID + ENC_SFX (see Appendix B).

VIII. MDR Merges and Field Additions

This section of this functional specification describes data merges that are necessary to append fields into the MDR GENESIS Encounter table. Table 2 lists additional MDR tables that are used during ETL processing. Table 3 lists in detail all the fields added from these merges as well as any additional transformation rules.

Table 2: MDR Table Merges for MDR GENESIS Encounter Table

Merge	Date Matching	Additional Matching Methodology	Purpose
MDR CPT Charges	VISIT_DT, SERVICE_DT_TM	ENCOUNTER_SK	Adds CPT Charge fields to the Encounter, including CPT/HCPCS, modifiers, and RVUs.
MDR GENESIS Person Table	N/A	PERSON_SK	Adds patient-related fields from GENESIS such as the patient's name and other demographic fields (i.e., race, ethnicity)
MDR GENESIS Personnel Table	N/A	PERSON_SK	Adds provider-related fields from GENESIS such as the attending physician's name.
MDR GENESIS Location Table	N/A	CURRENT_LOC	Adds the MTF, MEPRS Code, time zone and other location related fields for the encounter.
DEERS Longitudinal VM (LVM)	Visit date between the begin and end dates associated with the segment	EDIPN, SPONSSN	Adds patient-related fields from DEERS such as enrollment, gender, race, date of birth, etc.
Omni Cad	Visit Date	PATZIP Sponsor Service	Adds patient-related geographic concepts such as catchment, PRISM, beneficiary region, etc.
DMHRSi	Visit Date	Provider EDIPN, Provider NPI	Adds provider-related DHA fields such as assigned MTF, provider military service, etc.
DMISID Index	Visit Date	MTF	Adds DMIS ID-related fields such as branch of service, network, TRICARE region, etc.
CPT RVU table	Calendar Year	CPT_[#], CPTMOD_[#]	Adds Work RVU and Practice Expense RVU related fields. See MDR CPT Charge table specification, Appendix A.

IX. FILE LAYOUT

The MDR GENESIS Encounter table is partitioned and stored as fiscal year SAS data sets. Table 3 provides the file layout and transformation rules.

Table 3: Fields in the MDR GENESIS Encounter Table

Field	Format	SAS Name	Source Element	Transformation Rule
Encounter Koy	\$100	ENCOLINTED CV	ancounter anontr id	Derive as character version of encntr_id using put function:
Encounter Key	\$100	ENCOUNTER_SK	encounter.encntr_id	encounter_sk = put(encntr_id, 21L);
				Sort encounter records by encounter_sk, encounter_type, and
Encounter Suffix	N(8)	ENC SFX		visit_dt. Then set enc_sfx as follows:
Encounter Surfix	14(0)	EINC_SFX		if first.encounter_sk then enc_sfx = 1;
				else enc_sfx + 1; See Appendix A for more detail on granularity.
Financial Information				Join to encntr_alias table where encntr_id matches and
Number (FIN)	\$40	FIN	encounter.encntr_id	encntr_alias_type_cd = 1077 and active_ind = 1 and
Number (FIN)				<pre>end_effective_dt_tm > sysdate and retrieve alias.</pre>
				Join to code_value table where encntr_type_cd matches the
Encounter Type	\$26	ENCOUNTER_TYPE	encounter.encntr_type_cd	code_value and code_set = 71 and active_ind = 1 and retrieve
				display.
			reg dt tm, appt dt tm,	if appt_dt_tm ne . then visit_dt_tm = appt_dt_tm
	N(8)	VISIT_DT_TM	arrive_dt_tm,	else if reg_dt_tm ne . then visit_dt_tm = reg_dt_tm
Visit Date & Time			inpatient_admit_dt_tm,	else visit_dt_tm = arrive_dt_tm
			create_dt_tm	else if encounter_type = 'Dental' then visit_dt_tm =
			create_dt_tiii	create_dt_tm
Visit Date	N(8)	VISIT_DT	visit_dt_tm	visit_dt = datepart(visit_dt_tm)
Arrival Date & Time	N(8)	ARRIVE_DT_TM	encounter.arrive_dt_tm	Converted to local time.
Appointment Date &	N(8)	APPT_DT_TM	sch_appt.beg_dt_tm	Converted to local time.
Time	IV(O)	AFFI_DI_IIVI	scii_appt.beg_ut_tiii	Converted to local time.
Registration Date & Time	N(8)	REG_DT_TM	encounter.reg_dt_tm	Converted to local time.
Discharge Date & Time	N(8)	DISCHARGE_DT_TM	encounter.discharge_dt_tm	Converted to local time.
Military Treatment	\$4	MTF	encounter.location cd	Join to MDR Location table where the location_cd matches and
Facility (MTF)	? 4	IVIIF	encounter.location_cd	return mtf. If ERSA = 1, then mtf = substr(place_of_svc_org,1,4).
				Join to code_value table where med_service_cd matches the
Medical Service	\$43	MEDICAL_SVC	encounter.med_service_cd	code_value and code_set = 34 and active_ind = 1 and retrieve
		_		display.
Nursing Unit Location	\$45	NURSELOC ENC	encounter.location cd	Join to MDR Location table where the location_cd matches and
Code	34J	NONSELUC_LINC	encounter.location_cu	return loc_nurse_unit_disp.
Encounter ID	N(8)	ENCNTR_ID	encounter.encntr_id	No transformation.

Field	Format	SAS Name	Source Element	Transformation Rule
Encounter Class	\$33	ENCOUNTER_CLASS	encounter.encntr_type_class_cd	Join to code_value table where encntr_type_class_cd matches the code_value and code_set = 69 and active_ind = 1 and retrieve display.
Encounter Status	\$25	ENCOUNTER_STATUS	encounter.encntr_status_cd	Join to code_value table where encntr_status_cd matches the code_value and code_set = 261 and active_ind = 1 and retrieve display.
Admission Type	\$32	ADMIT_TYPE	encounter.admit_type_cd	Join to code_value table where admit_type_cd matches the code_value and code_set = 3 and active_ind = 1 and retrieve display.
Admission Source	\$43	ADMIT_SOURCE	encounter.admit_src_cd	Join to code_value table where admit_src_cd matches the code_value and code_set = 2 and active_ind = 1 and retrieve display.
Organization ID	N(8)	ORGANIZATION_ID	location.organization_id	Join to MDR Location table where the location_cd matches and return organization_id.
Billing Entity ID	N(8)	BILLING_ENTITY_ID	billing_entity.billing_entity_id	Join to billing entity table on organization_id and return billing_entity_id
Billing Entity Name	\$50	BILLING_ENTITY_NAME	encounter.location_cd, location.organization_id, billing_entity.billing_entity_id	Join to billing_entity table where billing_entity_id matches and retrieve be_name, and inner join to the be_org_reltn table on billing_entity_id, and inner join to the organization table where organization_id matches and active_ind = 1.
Charged Flag	N(8)	IS_CHARGED	charge.encounter_id	Join to charge table where the encounter_id matches. If there is a match, then is charged = 1, otherwise is charged = 0.
Countable Flag	N(8)	IS_COUNTABLE	encounter.encntr_type_cd	If encounter_type is in (Absent Sick, Between Visit, Care Not Rendered, History, Lifetime Pharmacy, Outside Documentation Only, Pre Occupational Health, Pre Outpatient, PreRecurring, Preadmit, Preclinic, Prereg, Referral Tracking) then is_countable = 0, otherwise is_countable = 1.
Inpatient Admission Date & Time	N(8)	INPATIENT_ADMIT_DT_T M	encounter.inpatient_admit_dt_tm	Converted to local time.
Update Date & Time	N(8)	UPDT_DT_TM	encounter.updt_dt_tm	No transformation.
Last Clinic Note Date & Time	N(8)	LAST_CLINIC_NOTE_DT_TM	clinical_event.event_end_dt_tm	Join to Clinical_Event table on encntr_id, and return the end_dt_tm value on the most recent Inpatient record where the disch_dt_tm is missing.
Place of Service Organization	\$150	PLACE_OF_SVC_ORG	encounter.place_of_svc_org_id organization.organization_id	Join to the organization table where e.place_of_svc_org_id = o.organization_id and return org_name.
Current Location	\$40	CURRENT_LOC	encounter.location_cd	No transformation.
Discharge Disposition Code	\$60	DISPCODE	encounter.disch_disposition_cd	Join to code_value table where discharge_disposition_cd matches the code_value and code_set = 19 and active_ind = 1 and retrieve display.

Field	Format	SAS Name	Source Element	Transformation Rule
Legacy Discharge Disposition Code	\$2	DISPCODE_LEGACY	encounter.disch_disposition_cd	if dispcode in ('Home' 'Home or Self Care' 'Released Without Limitations' 'Returned to Duty') then dispcode_caper = '1'; else if dispcode = 'Released With Work Duty Limitations' then dispcode_caper = '2'; else if dispcode = 'Sick at Home/Quarters' then dispcode_caper = '3'; else if dispcode = 'Immediate Referral' then dispcode_caper = '4'; else if dispcode in ('Against Medical Advise' 'Elopement' 'Left Against Medical Advice') then dispcode_caper = '6'; else if dispcode = 'Admitted to Inpatient' then dispcode_caper = '7'; else if (dispcode = 'Patient has expired' or substr(dispcode,1,7) = 'Expired' or find(discharge_disposition,'CRO','i')) then dispcode_caper = '8'; else if dispcode in ('Discharged to Civilian Facility'
DEERS Patient Identifier (EDIPN)	\$10	EDIPN	encounter.person_id	Join to person_alias where person_id matches and person_alias_type_cd = 22 and active_ind = 1
Encounter Location (Numeric Code)	\$40	ENCOUNTER_LOC_CODE	encounter.location_cd	No transformation.

Field	Format	SAS Name	Source Element	Transformation Rule
Encounter Location	\$10	ENCOUNTER_LOC_COMPSPE	nurseloc_enc	Capture the 2 nd segment of the nurseloc_enc value using the
(Clinic Specialty)	7	С		scan function: scan(nurseloc_enc,2,'-')
Encounter Location	\$10	ENCOUNTER_LOC_COMPCAR	nurseloc_enc	Capture the 3 rd segment of the nurseloc_enc value using the
(Location of Care)	7	E		scan function: scan(nurseloc_enc,3,'-')
Encounter Key	\$100	ENCOUNTER NK	encounter sk	Concatenate the encounter_sk value and '18365' using the cat
(Composite)	7-00			function: cat(encounter_sk, '18635')
Appointment ID	\$10	APPTIDNO	encounter.encntr id	Derive as character version of encntr_id using put function:
	'		_	encounter_sk = put(encntr_id, 21L);
Treatment MEPRS Code	\$4	MEPRSCD	encounter.location_cd	Join to MDR Location table where location_cd matches and
			_	return MEPRS field.
Treatment MEPRS 1	\$1	MEPR1	meprscd	Use a substring function to take the first character of the
Code				meprscd: substr(meprscd,1,1)
Treatment MEPRS 2	\$2	MEPR2	meprscd	Use a substring function to take the first two characters of the
Code				meprscd: substr(meprscd,1,2)
Treatment MEPRS 3	\$3	MEPR3	meprscd	Use a substring function to take the three characters of the
Code				meprscd: substr(meprscd,1,3)
				Join to the encntr_info table on encntr_id where the
Patient Category	\$40	PATCAT_E	encntr_info.value_cd	info_sub_type_cd = 109901051 and retrieve the value_cd. Then
(Encounter Table)				join to code_value table where value_cd matches the code_value and code_set = 100075 and active_ind = 1 and
				retrieve display.
				Join to the person info table on person id where the
				info sub type cd = 114540103 and retrieve the value cd. Then
Patient Category (Person	\$40	PATCAT_P	person_info.value_cd	join to code value table where value cd matches the
Table)				code_value and code_set = 100075 and active_ind = 1 and
				retrieve display.
				Join to the person table on person id and retrieve the
Patient Name	\$74	PATNAME	person.name_full_formatted	name full formatted.
Person ID	\$100	PERSON SK	encounter.person id	No transformation.
		_	· <u>-</u>	Join to the diagnosis table on encntr_id and return the first 3
				values based on diag_dt_tm where the diag_type_cd = '87' to
Admitting Diagnosis 1-3	\$7	ADM_DX1 - ADM_DX3	diagnosis.nomenclature_id	retrieve nomenclature_id. Then join to the nomenclature table
			nomenclature.source_identifier	where the nomenclature_id matches and retrieve the
				source_identifier.
				Populate up to 50 diagnosis values, based on the following
			cce_dx[50]	hierarchy:
Diagnosis 1-50 (Hybrid)	<mark>\$7</mark>	DX1 – DX50	pc_dx[50]	1. If CCE_Dx values are present, populate DX1-DX50 with them
			chrg_dx[50]	2. If CHRG_Dx values are present, populate DX1-DX50 with them
	1			3. If PC_Dx values are present, populate DX1-DX50 with them

Field	Format	SAS Name	Source Element	Transformation Rule
3M/CCE Diagnosis Code 1-50	\$7	CCE_DX1 - CCE_DX50	diagnosis.nomenclature_id nomenclature.source_identifier	Join to the diagnosis table on encntr_id and return up to 50 records sorted by diag_priority with contributor_system_cd in (110586353,459) to retrieve the nomenclature_id. Then join to the nomenclature table where the nomenclature_id matches and retrieve the source identifier.
PowerChart Diagnosis Code 1-50	\$7	PC_DX1 - PC_DX50	diagnosis.nomenclature_id nomenclature.source_identifier	Join to the diagnosis table on encntr_id and return up to 50 records sorted by clinical_diag_priority with contributor_system_cd = 469 to retrieve the nomenclature_id. Then join to the nomenclature table where the nomenclature_id matches and retrieve the source_identifier.
Charges Diagnosis Code 1-50	<mark>\$7</mark>	CHRG_DX1 - CHRG_DX50	charge_mod.field6	Join to charge table on enctr_id, then to the charge_mod table on charge_item_id to retrieve up to 50 field6 values (based on sorted field2_id) where the field1_id represents an ICD10-Dx code.
Provider EDIPN For Attending Provider	\$10	PROV_EDIPN_ATT	provid_att, alias	Join to the prsnl table where provid_att = person_id. Then join to the prsnl_alias table on person_id where the alias_pool_cd = 106935631 and prsnl_alias_type_cd = 685806 and alias like '1%' and alias similar to '[0-9]{10}' and active_ind = 1 and retrieve the alias value.
Primary HIPAA Taxonomy For Attending Provider	\$10	PROV_HIPAA_ATT	prov_npi_att, hipaa1	Join to MDR NPPES table on prov_npi_att and return the hipaa1 field.
Provider Name For Attending Provider	\$100	PROV_NAME_ATT	provid_att, name_full_formatted	Join to the prsnl table where provid_att = person_id. Then return the name_full_formatted field.
Provider NPI For Attending Provider	\$10	PROV_NPI_ATT	provid_att, alias	Join to the prsnl table where provid_att = person_id. Then join to the prsnl_alias table on provid_att where the alias_pool_cd = 4038127 and active_ind = 1 and return the alias value.
Provider ID For Attending Provider	\$100	PROVID_ATT	encounter.encntr_id, encntr_prsnl_reltn.prsnl_person_id	Join to encntr_prsnl_reltn table where the encntr_prsnl_r_cd = 1119 and return the first prsnl_person_id value ordered by priority_seq.
Reason For Visit	\$255	REASON_FOR_VISIT_TXT	encounter.reason_for_visit	No transformation.
Schedule Event ID	N(8)	SCH_EVENT_ID	sch_appt.sch_event_id	Join to sch_appt on encntr_id where sch_state_cd in (4536,4537) and sch_role_cd = 4572 and active_ind = 1 and retrieve sch_event_id.
Appointment Status	\$20	APPT_STAT	sch_appt.sch_state_cd	Join to sch_appt on encntr_id and retrieve sch_state_cd. Then join to code_value table where sch_state_cd matches the code_value and code_set = 14233 and active_ind = 1 and retrieve display. Convert text to upper case.
Apppointment Type (full text)	\$255	APPT_TYPE_TXT	sch_event.appt_synonym_free	Join to sch_appt on encntr_id, then join to sch_event on sch_event_id and retrieve appt_synonym_free.

Field	Format	SAS Name	Source Element	Transformation Rule
Assigned Appointment Duration	\$3	ASSGNDUR	sch_appt.duration	Join to sch_appt on encntr_id where sch_state_cd in (4536,4537) and sch_role_cd = 4572 and active_ind = 1 and retrieve duration.
Appointment Provider ID	\$100	PROVID_APPT	sch_appt.person_id	Join to sch_appt on encntr_id where role_meaning is not equal to 'PATIENT' and retrieve the person_id on the first record after sorting by the schedule_seq field.
Resource Code (scheduled)	\$100	RESOURCE_CD	sch_appt.resource_cd	Join to sch_appt on encntr_id where role_meaning is not equal to 'PATIENT' and retrieve the resource_cd on the first record after sorting by the schedule_seq field.
Appointment Made Date & Time	N(8)	APPT_MADE_DT_TM	sch_event_action.action_dt_tm	Join to sch_event_action on sch_event_id where sch_action_cd = 4517 and active_ind = 1 and action_meaning = 'SCHEDULE' and retrieve the latest action_dt_tm value. If the value is missing, set to missing. If populated and earlier than the appt_dt_tm, set to action_dt_tm. Otherwise, set to the appt_dt_tm. Converted to local time.
Provider Name For Appointment Provider	\$100	PROV_NAME_APPT	prsnl.name_full_formatted	Join to the prsnl table on provid_appt = prsnl.person_id and retrieve the name_full formatted.
Provider NPI For Appointment Provider	\$10	PROV_NPI_APPT	prsnl_alias.alias	Join to the prsnl_alias table on prsnl.person_id = prsnl_alias.person_id where the prsnl_alias_type_cd = 4038127 and active_ind = 1 and retrieve the alias value
Provider EDIPN For Appointment Provider	\$10	PROV_EDIPN_APPT	prsnl_alias.alias	Join to the prsnl_alias table on prsnl.person_id = prsnl_alias.person_id where the alias_pool_cd = 106935631 and prsnl_alias_type_cd = 685806 and alias like '1%' and alias similar to '[0-9]{10}' and active_ind = 1 and retrieve the alias value.
Provider HIPAA taxonomy for Appointment Provider	\$10	PROV_HIPAA_APPT	nppes.hipaa1	Join to the MDR NPPES table on prov_npi_appt = nppes.npi and retrieve the hipaa1 value.
Attending Provider ID	N(8)	ATTENDING_PROV_ID	encounter.encntr_id encntr_prsnl_reltn.prsnl_person_id	Join to encntr_prsnl_reltn table where the encntr_prsnl_r_cd = 1119 and return the first prsnl_person_id value ordered by priority seq.
Attending Provider HIPAA	\$10	ATTENDING_PROV_HIPAA	prov_npi_att, hipaa1	Join to MDR NPPES table on prov_npi_att and return the hipaa1 field.
Attending Provider EDIPN	\$10	ATTENDING_PROV_EDIPN	provid_att, alias	Join to the prsnl table where provid_att = person_id. Then join to the prsnl_alias table on person_id where the alias_pool_cd = 106935631 and prsnl_alias_type_cd = 685806 and alias like '1%' and alias similar to '[0-9]{10}' and active_ind = 1 and retrieve the alias value.
Attending Provider Name	\$100	ATTENDING_PROV_NAME	provid_att, name_full_formatted	Join to the prsnl table where provid_att = person_id. Then return the name_full_formatted field.

Field	Format	SAS Name	Source Element	Transformation Rule
Attending Provider NPI	\$10	ATTENDING_PROV_NPI	provid_att, alias	Join to the prsnl table where provid_att = person_id. Then join to the prsnl_alias table on provid_att where the alias_pool_cd = 4038127 and active_ind = 1 and return the alias value.
Attending Provider Skill Type	\$2	ATTENDING_PROV_SKILL	prov_hipaa_att	Apply SKILLTYPE&fy.H format from /mdr/ref/caper.hskilltype.fy&fytxt to PROV_HIPAA_ATT
Admitting Provider ID	N(8)	ADMITTING_PROV_ID	encounter.encntr_id encntr_prsnl_reltn.prsnl_person_id	Join to encntr_prsnl_reltn table where the encntr_prsnl_r_cd = 1116 and return the first prsnl_person_id value ordered by priority_seq.
Admitting Provider HIPAA	\$10	ADMITTING_PROV_HIPAA	admitting_prov_id, hipaa1	Join to MDR NPPES table on admitting_prov_npi and return the hipaa1 field.
Admitting Provider EDIPN	\$10	ADMITTING_PROV_EDIPN	admitting_prov_id, alias	Join to the prsnl table where admitting_prov_id = person_id. Then join to the prsnl_alias table on person_id where the alias_pool_cd = 106935631 and prsnl_alias_type_cd = 685806 and alias like '1%' and alias similar to '[0-9]{10}' and active_ind = 1 and retrieve the alias value.
Admitting Provider Name	\$100	ADMITTING_PROV_NAME	admitting_prov_id, name_full_formatted	Join to the prsnl table where admitting_prov_id = person_id. Then return the name_full_formatted field.
Admitting Provider NPI	\$10	ADMITTING_PROV_NPI	admitting_prov_id, alias	Join to the prsnl table where admitting_prov_id = person_id. Then join to the prsnl_alias table on admitting_prov_id where the alias_pool_cd = 4038127 and active_ind = 1 and return the alias value.
Admitting Provider Skill Type	\$2	ADMITTING_PROV_SKILL	admitting_prov_hipaa	Apply SKILLTYPE&fy.H format from /mdr/ref/caper.hskilltype.fy&fytxt to admitting_prov_hipaa
Provider Skill Type For Attending Provider	\$2	PROV_SKILL_ATT	prov_hipaa_att	Apply SKILLTYPE&fy.H format from /mdr/ref/caper.hskilltype.fy&fytxt to PROV_HIPAA_ATT
Provider Skill Type For Appointment Provider	\$2	PROV_SKILL_APPT	prov_hipaa_appt	Apply SKILLTYPE&fy.H format from /mdr/ref/caper.hskilltype.fy&fytxt to PROV_HIPAA_APPT
GENESIS Provider ID for Providers 1-6	\$10	PROVID1 - PROVID6	encounter.encntr_id encntr_prsnl_reltn.prsnl_person_id	Join to encntr_prsnl_reltn table on encntr_id. Retrieve up to 6 additional providers associated with the encounter, ordered by skill_type. Populate the provid1-provid6 array with the prsnl_person_id values. If the Attending Physician is available, populate provid1 with PROVID_ATT unless the encounter_type = Recurring. If the encounter_type = Recurring, set provid1 = PROVID_APPT.

Field	Format	SAS Name	Source Element	Transformation Rule
Provider Role For Providers 1-6	\$40	PROV_ROLE1 - PROV_ROLE6	encntr_prsnl_reltn. encntr_prsnl_r_cd	Join to the encntr_prsnl_reltn table on encntr_id to retrieve the encntr_prsnl_r_cd. Then join to code_value table where encntr_prsnl_r_cd matches the code_value and code_set = 333 and active_ind = 1 and retrieve display as prov_role. If the prov_role = 'Attending Provider', set prov_role1 = prov_role. Fill remaining open prov_role array values (up to 6) based on sorted skill_type.
CCE Completed Date and Time	N(8)	CCE_COMPLETED_DT_TM	coding.completed_dt_tm	Join to the coding table on encntr_id where contributor_system_cd = 459 or 110586353 and retrieve the completed_dt_tm.
CCE Encounter Status Flag	\$1	CCESTAT	coding.encntr_id	Join to the coding table on encntr_id, setting ccestat = 4 for matching records where contributor_system_cd = 459 or 110586353.
PIP Plan Name	\$150	PIP_PLAN_NAME	health_plan.plan_name	Join to enctr_plan_reltn table on encntr_id, then join to health plan table on health_plan_id where active_ind = 1 and return plan_name.
PIP Sponsor Status	\$60	PIP_SPONSOR_STATUS	person_org_reltn. empl_occupation_cd	Join to enctr_plan_reltn table on encntr_id, then join to person_org_reltn where sponsor_person_org_reltn_id = person_org_reltn_id to obtain empl_occupation_cd. Join to code_value table where empl_occupation_cd matches the code_value and code_set = 374 and active_ind = 1 and retrieve display.
PIP Sponsor Rank	\$60	PIP_SPONSOR_RANK	person_org_reltn.empl_title_cd	Join to enctr_plan_reltn table on encntr_id, then join to person_org_reltn where sponsor_person_org_reltn_id = person_org_reltn_id to obtain empl_title_cd. Join to code_value table where empl_title_cd matches the code_value and code_set = 376 and active_ind = 1 and retrieve display.
PIP Sponsor Grade	\$60	PIP_SPONSOR_GRADE	person_org_reltn.empl_type_cd	Join to enctr_plan_reltn table on encntr_id, then join to person_org_reltn where sponsor_person_org_reltn_id = person_org_reltn_id to obtain empl_type_cd. Join to code_value table where empl_type_cd matches the code_value and code_set = 26 and active_ind = 1 and retrieve display.
PIP Sponsor Branch	\$150	PIP_SPONSOR_BRANCH	organization.org_name	Join to enctr_plan_reltn table on encntr_id, then join to person_org_reltn where sponsor_person_org_reltn_id = person_org_reltn_id, then join to organization on organization_id and return org_name.
Sponsor Person ID	N(8)	SPONSOR_PERSON_ID	encntr_plan_reltn.person_id	Join to enctr_plan_reltn table on encntr_id and return person_id.
Member Number	\$20	MEMBER_NBR	encntr_plan_reltn.member_nbr	Join to enctr_plan_reltn table on encntr_id and return member_nbr.

Field	Format	SAS Name	Source Element	Transformation Rule
PIP Profile	\$40	PROFILE	encounter.person_plan_profile_typ e_cd	Join to code_value table where person_plan_profile_type_cd matches the code_value and code_set = 368 and active_ind = 1 and retrieve display.
Fields from MDR CPT Charge Table				
E&M Code 1 - 3, CPT/HCPCS Code 1 - 20	\$5	CPT_1 - CPT_23	mdr_cpt_charge.proc	Up to 23 arrayed CPTs from MDR CPT Charge table. See Appendix B for logic.
Modifier 1; E&M Code 1–3, CPT/HCPCS Code 1 – 20	\$2	CPTMOD1_1 - CPTMOD1_23	mdr_cpt_charge.cptmod1	Up to 23 arrayed CPT Modifier 1 values from MDR CPT Charge table. See Appendix B for logic.
Modifier 2; E&M Code 1–3, CPT/HCPCS Code 1 – 20	\$2	CPTMOD2_1 - CPTMOD2_23	mdr_cpt_charge.cptmod2	Up to 23 arrayed CPT Modifier 2 values from MDR CPT Charge table. See Appendix B for logic.
Units of Service; E&M Code 1–3, CPT/HCPCS Code 1 - 20	N(8)	CPTUOS_1 - CPTUOS_23	mdr_cpt_charge.cptuos	Up to 23 arrayed CPT Units of Service from MDR CPT Charge table. See Appendix B for logic.
RVU, Raw Work; E&M Code 1 - 3, CPT/HCPCS Code 1 - 20	N(8)	RRVU1 – RRVU23	mdr_cpt_charge.rrvu	Up to 23 arrayed Raw Work RVU values per corresponding CPTs from MDR CPT Charge table. See Appendix B for logic.
RVU, Raw Facility Practice; E&M Code 1 - 3, CPT/HCPCS Code 1 – 20	N(8)	FPRVU1 – FPRVU23	mdr_cpt_charge.fprvu	Up to 23 arrayed Raw Facility Practice Expense RVU values per corresponding CPTs from MDR CPT Charge table. See Appendix B for logic.
RVU, Raw Non-Facility Practice; E&M Code 1 - 3, CPT/HCPCS Code 1 – 20	N(8)	NPRVU1 – NPRVU23	mdr_cpt_charge.nprvu	Up to 23 arrayed Raw Non-Facility Practice Expense RVU values per corresponding CPTs from MDR CPT Charge table. See Appendix B for logic.
RVU, Raw Total (based on FAC_FLAG); E&M Code 1 - 3, CPT/HCPCS Code 1 - 20	N(8)	TRVU1 – TRVU23	mdr_cpt_charge.trvu	Up to 23 arrayed Raw Total RVU values per corresponding CPTs from MDR CPT Charge table. See Appendix B for logic.
Non-Provider Affected Work RVU; E&M Code 1 - 3, CPT/HCPCS Code 1 – 20	N(8)	NWRVU1 – NWRVU23	mdr_cpt_charge.nwrvu	Up to 23 arrayed Enhanced Work RVU values per corresponding CPTs from MDR CPT Charge table. See Appendix B for logic.
Non-Provider Affected PE RVU; E&M Code 1 - 3, CPT/HCPCS Code 1 – 20	N(8)	NPERVU1 – NPERVU23	mdr_cpt_charge.npervu	Up to 23 arrayed Enhanced Practice Expense RVU values per corresponding CPTs from MDR CPT Charge table. See Appendix B for logic.
Credited Provider ID	<mark>\$100</mark>	PROVID_CREDITED	mdr_cpt_charge.provid_credited	From MDR CPT Charges, populate with the provid_credited associated with the highest sum of TRVU.

Field	Format	SAS Name	Source Element	Transformation Rule
Credited Provider NPI	\$10	PROV_NPI_CREDITED	mdr_cpt_charge.prov_npi_credited	From MDR CPT Charges, populate with the prov_npi_credited
Credited Provider NFI	\$10	FROV_NFI_CREDITED		associated with the highest sum of TRVU.
Credited Provider EDIPN	<mark>\$10</mark>	PROV EDIPN CREDITED	mdr_cpt_charge.prov_edipn_credit	From MDR CPT Charges, populate with the prov_edipn_credited
			ed	D associated with the highest sum of TRVU.
Credited Provider Name	<mark>\$100</mark>	PROV_NAME_CREDITED	mdr_cpt_charge.prov_name_credit ed	From MDR CPT Charges, populate with the prov_name_credited associated with the highest sum of TRVU.
Credited Provider HIPAA Taxonomy	<mark>\$10</mark>	PROV_HIPAA_CREDITED	mdr_cpt_charge.prov_hipaa_credit	From MDR CPT Charges, populate with the prov_hipaa_credited associated with the highest sum of TRVU.
Fields from MDR GENESIS				
Person Table				
Medical Record Number	\$40	MRN	mdr person.mrn	Join to the MDR GENESIS Person table on person_sk and
(Patient)	' '			retrieve the mrn.
Test Record Indicator	N(8)	TEST_RECORD_IND	mdr person.test record ind	Join to the MDR GENESIS Person table on person_sk and
Dationt Contal Consults				retrieve the test_record_ind.
Patient Social Security	\$9	PATSSN	mdr_person.ssn	Join to the MDR GENESIS Person table on person_sk and
Number				retrieve the ssn. Join to the MDR GENESIS Person table on person sk and
Patient Gender	\$1	PATSEX	mdr_person.gender	retrieve the gender.
				Join to the MDR GENESIS Person table on person sk and
Patient Race	\$41	RACE_GENESIS	mdr_person.race_cd	retrieve the race value.
				Join to the MDR GENESIS Person table on person_sk and
Patient Ethnicity Code	\$1	ETHNIC	mdr_person.ethnic	retrieve the ethnic value.
Dations Date of Disth	NI/O)	DATROR	and a second binth of	Join to the MDR GENESIS Person table on person_sk and
Patient Date of Birth	N(8)	PATDOB	mdr_person.birth_dt	retrieve the birth_dt.
Sponsor Social Security	\$9	SPONSSN	mdr_person.sponssn	Join to the MDR GENESIS Person table on person_sk and
Number	ŞE	SPUNSSIN	mar_person:sponssii	retrieve the sponssn.
Patient First Name	\$20	FIRSTNAME	mdr person.first name	Join to the MDR GENESIS Person table on person_sk and
T defent this traine	720	THOTHAND	mar_personmist_name	retrieve the first_name.
Patient Last Name	\$26	LASTNAME	mdr person.last name	Join to the MDR GENESIS Person table on person_sk and
	' -			retrieve the last_name.
Person Association	\$2	PARC	mdr_person.parc	Join to the MDR GENESIS Person table on person_sk and
Reason Code Fields from MDR GENESIS				retrieve the parc.
Personnel Table				
Provider NPI For				Join to the MDR GENESIS Personnel table where the provid[#]
Providers 1-6	\$10	PROV_NPI1 - PROV_NPI6	mdr_personnel.npi	matches the prsnl id and retrieve the NPI.
Provider EDIPN For	440	PROV_EDIPN1 -	<u> </u>	Join to the MDR GENESIS Personnel table where the provid[#]
Providers 1-6	\$10	PROV_EDIPN6	mdr_personnel.prsnl_edipn	matches the prsnl id and retrieve the prsnl edipn.
HIPAA Based Skill Type	\$2	CKILLIA CKILLIG	mdr parsannal skill tuna	Join to the MDR GENESIS Personnel table where the provid[#]
for Providers 1-6	پ ک	SKILLH1 - SKILLH6	mdr_personnel.skill_type	matches the prsnl_id and retrieve the skill_type field.

Provider HIPAA For Providers 1-6 510 PROV_HIPAA1 - Modr_personnel.hipaa1 Matches the prost lable where the provid(gf) Providers 1-6 PROV_HIPAA5 Mdr_personnel.full_name Mdr_portion.postal_code Mdr_po	Field	Format	SAS Name	Source Element	Transformation Rule
PROVIDENTIAL STATES IN THE PROVIDENTIAL STATES IN THE PROVIDENTIAL STATES IN THE PROVIDENT STATES IN T	Provider HIPAA For	ć10	PROV_HIPAA1 -	made page and bigget	Join to the MDR GENESIS Personnel table where the provid[#]
Providers 1-6 Fields from the MDR GENESIS Location Table Clinic State \$50 CLINSTAT_R mdr_location.state Join to the MDR GENESIS Location table where the current_loc matches the location, sk and return the state. Clinic ZIP Code \$25 CLINZIP_R mdr_location.postal_code Nursing Unit Location S100 Name Name S100 NomEPRS Reporting N(8) NOMEPRS_FLAG mdr_location.omeprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location sk and return the postal_code. Nom MEPRS Reporting N(8) NOMEPRS_FLAG mdr_location.nomeprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location sk and return the postal_code. Nom MEPRS Reporting N(8) TEST_LOCATION_FLAG mdr_location.nomeprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location sk and return the unit _name. Nomethes the location S4 not return the onemprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location S4 not return the onemprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location S4 not return the test_location S4 not return	Providers 1-6	\$10	PROV_HIPAA6	mar_personnei.nipaa1	matches the prsnl_id and retrieve the hipaa1 value.
Fields from the MDR GENESIS Location Table Clinic State S50 CLINSTAT_R mdr_location.state mdr_location.state Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the state. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the postal_code. Nursing Unit Location Name Non MEPRS Reporting N(8) NOMEPRS_FLAG Mdr_location.unit_name Non MEPRS Reporting Site Flag N(8) TEST_LOCATION_FLAG Mdr_location.test_location_flag Treatment Parent MTF (GENESIS Location table where the current_loc matches the location_sk and return the unit_name. Join to the MDR GENESIS Location table where the current_loc matches the location.sk and return the unit_name. Non MEPRS Reporting Site Flag N(8) TEST_LOCATION_FLAG Mdr_location.test_location.flag MfF_PARENT_G Mdr_location.mtr_parent Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the nomeprs_flag. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the nomeprs_flag. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS) AMTF_PARENT_G Mdr_location.mtr_parent Mdr_location.mtr_parent Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtr_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtr_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtr_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtr_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtr_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtr_parent. In the MDR GENESIS Location table where the cur	Provider Name For	\$100		mdr. porsonnol full, namo	Join to the MDR GENESIS Personnel table where the provid[#]
Clinic State \$50 CLINSTAT_R mdr_location.state mbr_lot to the MDR GENESIS Location table where the current_loc matches the location_sk and return the state. Clinic ZIP Code \$25 CLINZIP_R mdr_location.postal_code Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the state. Nursing Unit Location \$100 UNIT_NAME mdr_location.unit_name Join to the MDR GENESIS Location table where the current_loc matches the location sk and return the postal_code. Nursing Unit Location \$100 UNIT_NAME mdr_location.unit_name Join to the MDR GENESIS Location table where the current_loc matches the location sk and return the unit_name. Non MEPRS Reporting \$100 N(8) NOMEPRS_FLAG mdr_location.nomeprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the nomeprs_flag. Test Location Flag N(8) TEST_LOCATION_FLAG mdr_location.nomeprs_flag Mdr_location.mdr_parent mdr_location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS) Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS Loc		\$100	PROV_NAME6	mui_personnei.ruii_name	matches the prsnl_id and retrieve the full_name.
Clinic ZIP Code S25 CLINZIP_R mdr_location.postal_code Morsing Unit Location S100 UNIT_NAME Mdr_location.unit_name Mdr_location.unit_name Mor_location.to the MDR GENESIS Location table where the current_loc matches the location, sk and return the postal_code. Nursing Unit Location S100 UNIT_NAME Mdr_location.unit_name Mor_location.unit_name Mor_location.unit_name Mor_location.unit_name Mor_location.nomeprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location, sk and return the unit_name. Non MEPRS Reporting N(8) NOMEPRS_FLAG Mdr_location.nomeprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location is and return the nonemprs_flag. Join to the MDR GENESIS Location table where the current_loc matches the location is and return the nonemprs_flag. Join to the MDR GENESIS Location table where the current_loc matches the location is and return the rest_location_flag. Join to the MDR GENESIS Location table where the current_loc matches the location is and return the rest_location_flag. Join to the MDR GENESIS Location table where the current_loc matches the location is and return the more than the rest_location_flag. Join to the MDR GENESIS Location table where the current_loc matches the location is and return the more than the rest_location_flag. Join to the MDR GENESIS Location table where the current_loc matches the location is and return the more than the rest_location_flag. Join to the MDR GENESIS Location table where the current_loc matches the location_s and return the dod_clinic_group. Fill with a thin to the MDR GENESIS Location table where the current_loc matches the location_s and return the dod_clinic_group. Fill with spatial to the MDR GENESIS Location table where the current_loc matches the location_s and return the dod_clinic_group. Fill with spatial to the MDR GENESIS Location table where the current_loc matches the location_s and return the dod_clinic_group. Fill with spatial to the MDR GENESIS Locati					
Clinic ZIP Code \$25	Clinic State	\$50	CLINSTAT_R	mdr_location.state	-
Nursing Unit Location Name S100 UNIT_NAME Mdr_location.unit_name Mishes Reporting Site Flag N(8) NOMEPRS_FLAG Mdr_location.nomeprs_flag mdr_location.nomeprs_flag Treatment Parent MTF (GENESIS) Clarify (GENESIS) S100 UNIT_NAME Mdr_location.nomeprs_flag Mdr_location.nomeprs_flag Mdr_location.nomeprs_flag Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the unit_name. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the nomeprs_flag. Test Location Flag N(8) TEST_LOCATION_FLAG Mdr_location.test_location_flag Mdr_location.test_location_flag Mdr_location.sk and return the nomeprs_flag. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS) S4 MTF_PARENT_G Mdr_location.mdr_parent Mdr_location.mdr_parent Mdr_location.mdr_parent Mdr_location.dod_clinic_group Mdr_location.dod_clinic_group Mdr_location.dod_clinic_group Mdr_location.dod_clinic_group Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtf_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtf_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mtf_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the dod_clinic_group. Fill with Pare location_sk and return the dod_clinic_group. Fill with Elocation_sk and return the dod_clinic_group. Fill with the location_sk and return the dod_clinic_group. Fill with the location_scaladed with this EDIPN. If there is no match for this patient in the LVM, set to Z. Fill with beneat				+	
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Non MEPRS Reporting Non Meprs Reputs Rand return the noneprs flag. Join to the MDR GENESIS Location table where the current Joc matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the merurn to matches the location sk and return the dod_clinic_group. Identify In the MDR GENESIS Location table where the current Joc matches the location sk and return the dod_clinic_group. Identify In the MDR GENESIS Location table where the current Joc matches the location sk and return the merurn	Nursing Unit Location	¢100	LINUT NANAE	mdr location unit name	
Site Flag N(8) NOMEPRS_FLAG mar_location.nomeprs_flag matches the location_sk and return the nomeprs_flag. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Treatment Parent MTF (GENESIS) \$4	Name	\$100	UNIT_NAME	mur_location.unit_name	matches the location_sk and return the unit_name.
Test Location Flag N(8) TEST_LOCATION_FLAG mdr_location.test_location_flag mdr_location.test_location_flag mdr_location.mtf_parent mdr_location.mtf_parent MfF_QENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the test_location_flag. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mff_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the mff_parent. Join to the MDR GENESIS Location table where the current_loc matches the location_sk and return the dod_clinic_group. Fill with PARENISIS Location table where the current_loc matches the location_sk and return the dod_clinic_group. Fill with mace associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Fill with parea associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Fill with bencat associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Fill with parea associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Fill with parea associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Fill with Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service, or there is no match for this patient in the LVM, set to Z. Fill with Sponsor Service Aggregated if the visit date in the encounter record is between the begin and end date associated with the Sponsor Service Aggregated. If the visit date in outside of the dates associated with the Sponsor Service Aggregated. If the visit date in outside of the dates associated with the Sponsor Service Aggregated. If the visit date in outside of the dates associated with the Sponsor Service Aggregated. If the visit date in outside of	Non MEPRS Reporting	NI/O)	NOMEDRS ELAC	mdr location nomenrs flag	Join to the MDR GENESIS Location table where the current_loc
Treatment Parent MTF (GENESIS) \$4 MTF_PARENT_G mdr_location.mtf_parent Mor_location.mtf_parent Mor_location.dtp.mtp.mtp.mtp.mtp.mtp.mtp.mtp.mtp.mtp.m	Site Flag	N(o)	NOIVIEPRS_FLAG	mur_location.nomeprs_nag	matches the location_sk and return the nomeprs_flag.
Treatment Parent MTF (GENESIS) \$4	Test Location Flag	NI/Q)	TEST LOCATION FLAG	mdr location test location flag	_
GENESIS S4 MIT_PARENT_S mod_location.mtt_parent matches the location_sk and return the mtf_parent.	Test Location Flag	IV(O)	TL3T_LOCATION_FLAG	indi_location.test_location_nag	
Clinic Group \$17 DOD_CLINIC_GROUP mdr_location.dod_clinic_group mdr_location.dod_clinic_group matches the location_sk and return the mtr_parent. Fields from the LVM Patient Race Code (DEERS) \$1 RACE_DEERS lvm.race Fill with race associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Patient Ethnicity (DEERS) \$1 ETHNIC_DEERS lvm.ethnic Fill with pencat associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. DEERS Beneficiary Category \$3 BENCAT lvm.r_ben_cat_cd Fill with Dencat associated with this EDIPN. If there is no match for this patient in the LVM, set to OTH. DEERS Patient Zip Code \$5 PATZIP lvm.zip Fill with Zip Code if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service or there is no match for this patient in the LVM, set to Z. Fill with Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service Aggregated if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service Aggregated if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service Aggregated if the visit date is outside of the dates associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no	Treatment Parent MTF	¢Λ	MTE DARENT G	mdr location mtf narent	Join to the MDR GENESIS Location table where the current_loc
Fields from the LVM Patient Race Code (DEERS) Patient Ethnicity (DEERS) \$1 RACE_DEERS Vm.ethnic	(GENESIS)	ب در	WITT_PARLINI_G	mu_location.mti_parent	matches the location_sk and return the mtf_parent.
Fields from the LVM Patient Race Code (DEERS) \$1 RACE_DEERS Vm.race Fill with race associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Patient Ethnicity (DEERS) S1 ETHNIC_DEERS Fill with ethnicity associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Patient Ethnicity (DEERS) S2 BENCAT Vm.r_ben_cat_cd Fill with ethnicity associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Fill with patient in the LVM, set to OTH.	Clinic Group	\$17	DOD CLINIC GROUP	mdr location dod clinic group	<u> </u>
Patient Race Code (DEERS) \$1 RACE_DEERS Ivm.race Fill with race associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Patient Ethnicity (DEERS) \$1 ETHNIC_DEERS Ivm.ethnic Patient Ethnicity (DEERS) \$1 ETHNIC_DEERS Ivm.ethnic DEERS Beneficiary Category \$3 BENCAT Ivm.r_ben_cat_cd Ivm.r_ben_cat_cd Fill with bencat associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. Fill with Dencat associated with this EDIPN. If there is no match for this patient in the LVM, set to OTH. DEERS Patient Zip Code \$5 PATZIP Ivm.zip Fill with ZIP Code if the visit date on the encounter record is between the begin and end date associated with the ZIP Code. Fill with Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service. If the visit date is outside of the dates associated with the Sponsor Service Aggregated if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no match for this patient in the LVM, set to Z. Fill with Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no match for this patient in the LVM, set to Z.	<u>'</u>	71,	202_02.1110_011001	mar_location.ada_cimic_group	matches the location_sk and return the dod_clinic_group.
Patient Ethnicity (DEERS) \$1 ETHNIC_DEERS Ivm.ethnic ETHNIC_DEERS Ivm.ethnic Fill with ethnicity associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. DEERS Beneficiary Category \$3 BENCAT Ivm.r_ben_cat_cd Fill with bencat associated with this EDIPN. If there is no match for this patient in the LVM, set to OTH. DEERS Patient Zip Code \$5 PATZIP Ivm.zip Fill with ZIP Code if the visit date on the encounter record is between the begin and end date associated with the ZIP Code. Sponsor Service from DEERS \$1 SSVCLVM Ivm.svc Sponsor Service. If the visit date is outside of the dates associated with the Sponsor Service, or there is no match for this patient in the LVM, set to Z. DEERS Sponsor Service \$1 SAGGLVM Ivm.aggsvc Ivm.aggsvc Ivm.aggsvc Fill with Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no match for the dates associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no match for the dates associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the Sponsor Service, or there is no of the dates associated with the					
DEERS Beneficiary Category \$3 BENCAT vm.r_ben_cat_cd vm.etnnic watch for this patient in the LVM, set to Z. Fill with bencat associated with this EDIPN. If there is no match for this patient in the LVM, set to OTH. DEERS Patient Zip Code \$5 PATZIP vm.zip Fill with ZIP Code if the visit date on the encounter record is between the begin and end date associated with the ZIP Code. Fill with Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service. If the visit date is outside of the dates associated with the Sponsor Service, or there is no match for this patient in the LVM, set to Z. DEERS Sponsor Service \$1 SAGGLVM		\$1	RACE_DEERS	lvm.race	
DEERS Beneficiary Category \$3 BENCAT Ivm.r_ben_cat_cd	Patient Ethnicity (DEERS)	\$1	FTHNIC DEERS	lym ethnic	•
Category DEERS Patient Zip Code \$5 PATZIP Ivm.zip Fill with ZIP Code if the visit date on the encounter record is between the begin and end date associated with the ZIP Code. Fill with Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the ZIP Code. Fill with Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service. If the visit date is outside of the dates associated with the Sponsor Service, or there is no match for this patient in the LVM, set to Z. DEERS Sponsor Service Aggregate \$1 SAGGLVM		Ψ-	2111110_222110		
DEERS Patient Zip Code \$5 PATZIP Ivm.zip Ivm.zip Fill with ZIP Code if the visit date on the encounter record is between the begin and end date associated with the ZIP Code. Fill with Sponsor Service if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service. If the visit date is outside of the dates associated with the Sponsor Service, or there is no match for this patient in the LVM, set to Z. DEERS Sponsor Service Aggregate \$1 SAGGLVM Ivm.aggsvc Fill with Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no		\$3	BENCAT	lvm.r ben cat cd	
DEERS Patient Zip Code \$5 PATZIP Ivm.zip between the begin and end date associated with the ZIP Code.	Category	7.7			
Sponsor Service from DEERS \$1 SSVCLVM	DEERS Patient Zip Code	\$5	PATZIP	lvm.zip	
Sponsor Service from DEERS \$1 SSVCLVM					·
Sponsor Service from DEERS \$1 SSVCLVM					· · · · · · · · · · · · · · · · · · ·
associated with the Sponsor Service, or there is no match for this patient in the LVM, set to Z. Fill with Sponsor Service Aggregated if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no	Sponsor Service from	Ċ1	SSVCLVM	hum cue	-
DEERS Sponsor Service Aggregate \$1 SAGGLVM Ivm.aggsvc this patient in the LVM, set to Z. Fill with Sponsor Service Aggregated if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no	DEERS	\$1	SSVCLVIVI	IVIII.SVC	· ·
DEERS Sponsor Service Aggregate SAGGLVM Fill with Sponsor Service Aggregated if the visit date on the encounter record is between the begin and end date associated with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no					·
DEERS Sponsor Service Aggregate \$1 SAGGLVM SA					·
Aggregate \$1 SAGGLVM Ivm.aggsvc with the Sponsor Service Aggregated. If the visit date is outside of the dates associated with the Sponsor Service, or there is no					,
of the dates associated with the Sponsor Service, or there is no	DEERS Sponsor Service	\$1	SAGGLVM	lym aggsyc	
	Aggregate	1 ب	1 SAGGLVM	lvm.aggsvc	
					match for this patient in the LVM, set to Z.

Field	Format	SAS Name	Source Element	Transformation Rule
				Fill with Marital Status if the visit date on the encounter record
DEERS Marital Status	\$1	MARITAL	lvm.ms	is between the begin and end date associated with the Marital
				Status.
· · · · · · · · · · · · · · · · · · ·				Fill with Medical Privilege Code if the visit date on the encounter
Patient Privilege Code	\$1	PRIVILEGE	lvm.priv	record is between the begin and end date associated with the
<u> </u>				Medical Privilege Code.
				Fill with Medicare Eligibility Code if the visit date on the
Medicare Flag	\$1	MEDICARE_FLAG	lvm.mf	encounter record is between the begin and end date associated
				with the Medicare Eligibility Code.
TRICARE Young Adult				Fill with TRICARE Young Adult status if the visit date on the
Flag	\$1	TYAFLAG	lvm.tya	encounter record is between the begin and end date associated
i iag				with the TYA status.
Alternate Care Value	\$1	ACV	lvm.acv	Fill with ACV if the visit date on the encounter record is between
(ACV)	ŞΙ	ACV	IVIII.acv	the begin and end date associated with the ACV.
				Fill with Enrollment MTF if the visit date on the encounter
Enrollment MTF	\$4	ENR_MTF	lvm.enr	record is between the begin and end date associated with the
				enrollment of the patient to the MTF.
Health Care Delivery				Fill with enrollment HCDP code if the visit date of the encounter
Program (HCDP) Code	\$3	HCDPLVM	lvm.hcdp	record is between the begin and end date associated with the
				enrollment HCDP code.
Primary Care Manager	\$18	PCMIDLVM	lvm.pcm	Fill with PCM ID if the visit date on the encounter record is
(PCM) Provider ID	710	FCIVIIDEVIVI	Will.pelli	between the begin and end dates associated with the PCM ID.
				Derived from Beneficiary Category during LVM merge:
DEERS Common				1 = Dep Active Duty / Guard
Beneficiary Category	\$1	COMBEN	lvm.cben	2 = Retired
beneficiary category				3 = Dep of Retired / Survivor / Other / Unknown / IGR / IDG
				4 = Active Duty / Guard
TRICARE Prime Remote				Fill with TRICARE Prime Remote status if the visit date on the
(TPR) Eligibility Flag	\$1	TPRELIG	lvm.tpr	encounter record is between the begin and end date associated
(11 K) Eligibility Flag				with the TPR status.
Primary Care Manager				Fill with Enrollment PCM Type if the visit date on the encounter
(PCM) Type	\$1	PCM_TYPE	lvm.pcmtyp	record is between the begin and end date associated with the
(i civi) Type				Enrollment PCM Type.
Assigned Health Care				Fill with assigned HCDP code if the visit date on the encounter
Delivery Program (HCDP)	\$3	HCDP_ASSGN	lvm.asghcdp	record is between the begin and end date associated with the
Delivery Frogram (FICDF)				assigned HCDP code.
				Fill with Eligibility Group if the visit date on the encounter
DEERS Eligibility Group	\$1	ELG_GRP	lvm.elggrp	record is between the begin and end date associated with the
				Eligibility Group.

Field	Format	SAS Name	Source Element	Transformation Rule
				Fill with Enrollment Group if the visit date on the encounter
DEERS Enrollment Group	\$1	ENR_GRP	lvm.enrgrp	record is between the begin and end date associated with the
				Enrollment Group.
Alternate Care Value				Blank for all records after Jan 1, 2019. Derived from ACV and
(ACV) Group	\$2	ACVGROUP	lvm.acvgrp	comben (before 1/1/18) or Enrollment Group, PCM type,
(ACV) Group				Eligibility group, and comben (after 1/1/18).
PCM NPI	\$10	PCM NPI	lvm.npi	Fill with PCM NPI if the visit date on the encounter record is
T CIVITAL I	710	T CIVI_IVI I	TVIII.IIPI	between the begin and end dates associated with the PCM NPI.
				Fill with PCM Name if the visit date on the encounter record is
PCM Name	\$100	PCM_NAME	lvm.pcmnm	between the begin and end dates associated with the PCM
				Name.
				Fill with ATTCH_UIC if the visit date on the encounter record is
Patient Attached UIC	\$8	PAT_ATTCH_UIC	lvm.attch_uic	between the begin and end dates associated with the
				ATTCH_UIC, else leave blank.
				Fill with ASSGN_UIC if the visit date on the encounter record is
Patient Assigned UIC	\$8	PAT_ASSGN_UIC	lvm.assgn_uic	between the begin and end dates associated with the
				ASSGN_UIC, else leave blank.
				Fill with PCM NPI TYPE if the visit date on the encounter record
PCM NPI Type	\$1	PCM_NPI_TYPE	lvm.npitype	is between the begin and end dates associated with the PCM
				NPI TYPE.
Fields from the Omni CAD				
				Based on matching FY, FM and patzip; if sagglvm = A then set
Patient PRISM Area	\$4	PRISM	natzin sagglum	equal to APRISM, if sagglvm = F then set equal to FPRISM; if
Patient PRISIVI Area	34	PRISIVI	patzip, sagglvm	sagglvm in (M, N, V) then set equal to NPRISM, otherwise set
				equal to OPRISM.
				Deced on matching EV EM and nation if cogglum - A than cat
				Based on matching FY, FM and patzip; if sagglym = A then set
Patient Catchment Area	\$4	CATCH	patzip, sagglvm	equal to AWORLD, if sagglvm = F then set equal to FWORLD; if sagglvm in (M, N, V) then set equal to NWORLD, otherwise set
				equal to OWORLD.
				Based on matching FY, FM and patzip; if sagglvm = A then set
Patient MTF Service Area	\$4	MTFSVCAREA	patzip, sagglvm	equal to ABPA, if sagglvm = F then set equal to FBPA; if sagglvm
Tation Will Scivice Alea	Ϋ́	IIII SVO/IIIL/I	Patrip, 308814111	in (M, N, V) then set equal to NBPA, otherwise set equal to
				OPRISM.
				Based on matching FY, FM and patzip; Set equal to T3_REG. If
Beneficiary T3 Region	\$2	BEN_T3_REG	patzip	patzip not found in MDR Omni-CAD, leave blank.
Beneficiary T17 Region	\$2	BEN_T17_REG	patzip	Based on matching FY, FM and patzip; Set equal to T17_REG. If
	T =		In security	patzip not found in MDR Omni-CAD, leave blank.

Field	Format	SAS Name	Source Element	Transformation Rule
Fields from the DMHRSi				
Personnel Category For Attending Provider	\$22	PROV_CATD_ATT	dmhrsi.provcatnm	Join to the MDR DMHRSi table on prov_edipn_att or prov_npi_att and return the Personnel Category if the visit date on the encounter record is between the begin and end date associated with the Personnel Category of the provider.
Assigned MTF For Attending Provider	\$4	PROV_MTFD_ATT	dmhrsi.provmtfnm	Join to the MDR DMHRSi table on prov_edipn_att or prov_npi_att and return the Assigned MTF if the visit date on the encounter record is between the begin and end date associated with the Assigned MTF of the provider.
Assigned Organization For Attending Provider	\$8	PROV_ORGD_ATT	dmhrsi.orgnm	Join to the MDR DMHRSi table on prov_edipn_att or prov_npi_att and return the Assigned Organization if the visit date on the encounter record is between the begin and end date associated with the Assigned Organization of the provider.
Provider Service For Attending Provider	\$1	PROV_SVCD_ATT	dmhrsi.svcnm	Join to the MDR DMHRSi table on prov_edipn_att or prov_npi_att and return the Provder Service if the visit date on the encounter record is between the begin and end date associated with the Provder Service of the provider.
Assigned Service For Attending Provider	\$1	PROV_SVC_ASSGD_ATT	dmhrsi.provsvcassgnm	Join to the MDR DMHRSi table on prov_edipn_att or prov_npi_att and return the Assigned Service if the visit date on the encounter record is between the begin and end date associated with the Assigned Service of the provider.
Assigned MEPRS Code For Attending Provider	\$4	PROV_MEPRSD_ATT	dmhrsi.provmeprnm	Join to the MDR DMHRSi table on prov_edipn_att or prov_npi_att and return the Assigned MEPRS if the visit date on the encounter record is between the begin and end date associated with the Assigned MEPRS of the provider.
Assigned UIC For Attending Provider	\$8	PROV_UICD_ATT	dmhsri.provuicnm	Join to the MDR DMHRSi table on prov_edipn_att or prov_npi_att and return the Assigned UIC if the visit date on the encounter record is between the begin and end date associated with the Assigned UIC of the provider.
Personnel Category For Appointment Provider	\$22	PROV_CATD_APPT	dmhrsi.provcatnm	Join to the MDR DMHRSi table on prov_edipn_appt or prov_npi_appt and return the Personnel Category if the visit date on the encounter record is between the begin and end date associated with the Personnel Category of the provider.
Assigned MTF For Appointment Provider	\$4	PROV_MTFD_APPT	dmhrsi.provmtfnm	Join to the MDR DMHRSi table on prov_edipn_appt or prov_npi_appt and return the Assigned MTF if the visit date on the encounter record is between the begin and end date associated with the Assigned MTF of the provider.

Field	Format	SAS Name	Source Element	Transformation Rule
Assigned Organization				Join to the MDR DMHRSi table on prov_edipn_appt or
Assigned Organization For Appointment	\$8	PROV_ORGD_APPT	dmhrsi.orgnm	prov_npi_appt and return the Assigned Organization if the visit
Provider	\$8	PROV_ORGD_APP1	diffinisi.orgiffi	date on the encounter record is between the begin and end
Provider				date associated with the Assigned Organization of the provider.
				Join to the MDR DMHRSi table on prov_edipn_appt or
Provider Service For	\$1	PROV SVCD APPT	dmhrsi.svcnm	prov_npi_appt and return the Provider Service if the visit date
Appointment Provider	21	PROV_3VCD_APP1	dilliisi.svciiii	on the encounter record is between the begin and end date
				associated with the Provider Service of the provider.
				Join to the MDR DMHRSi table on prov_edipn_appt or
Assigned Service For	\$1	PROV SVC ASSGD APPT	dmhrsi.provsvcassgnm	prov_npi_appt and return the Assigned Service if the visit date
Appointment Provider	ŞΙ	FROV_3VC_A33GD_AFF1	ullillisi.provsvcassgilli	on the encounter record is between the begin and end date
				associated with the Assigned Service of the provider.
Assigned MEPRS Code				Join to the MDR DMHRSi table on prov_edipn_appt or
For Appointment	\$4	PROV_MEPRSD_APPT	dmhrsi.provmeprnm	prov_npi_appt and return the Assigned MEPRS Code if the visit
Provider	34	PROV_IVIEPRSD_APP1	diffilisi.provinepriffi	date on the encounter record is between the begin and end
Flovidei				date associated with the Assigned MEPRS Code of the provider.
				Join to the MDR DMHRSi table on prov_edipn_appt or
Assigned UIC For	\$8	PROV_UICD_APPT	dmhsri.provuicnm	prov_npi_appt and return the Assigned UIC if the visit date on
Appointment Provider	70	PROV_OICD_APP1	unnsn.provuicinn	the encounter record is between the begin and end date
				associated with the Assigned UIC of the provider.
				Join to the MDR DMHRSi table on prov_edipn[#] or prov_npi[#]
Personnel Category For	\$22	PROV_CATD1 -	dmhrsi.provcatnm	and return the Personnel Category if the visit date on the
Providers 1-6	722	PROV_CATD6	diffirsi.provcatriffi	encounter record is between the begin and end date associated
				with the Personnel Category of the provider.
				Join to the MDR DMHRSi table on prov_edipn[#] or prov_npi[#]
Assigned MTF For	\$4	PROV_MTFD1 -	dmhrsi.provmtfnm	and return the Assigned MTF if the visit date on the encounter
Providers 1-6	77	PROV_MTFD6	diffinisi.provintiffini	record is between the begin and end date associated with the
				Assigned MTF of the provider.
				Join to the MDR DMHRSi table on prov_edipn[#] or prov_npi[#]
Assigned Organization	\$8	PROV_ORGD1 -	dmhrsi.orgnm	and return the Assigned Organization if the visit date on the
For Providers 1-6	70	PROV_ORGD6	diffinisi.orginii	encounter record is between the begin and end date associated
				with the Assigned Organization of the provider.
				Join to the MDR DMHRSi table on prov_edipn[#] or prov_npi[#]
Provider Service For Providers 1-6	\$1	PROV_SVCD1 -	dmhrsi.svcnm	and return the Provider Service if the visit date on the
	71	PROV_SVCD6	GIIIII 31.3VCIIII	encounter record is between the begin and end date associated
				with the Provider Service of the provider.
				Join to the MDR DMHRSi table on prov_edipn[#] or prov_npi[#]
Assigned Service For	\$1	PROV_SVC_ASSGD1 -	dmhrsi.provsvcassgnm	and return the Assigned Service if the visit date on the
Providers 1-6	"	PROV_SVC_ASSGD6	anni si.provsvcassgiiiii	encounter record is between the begin and end date associated
				with the Assigned Service of the provider.

Field	Format	SAS Name	Source Element	Transformation Rule
Assigned MEPRS Code For Providers 1-6	\$4	PROV_MEPRSD1 - PROV_MEPRSD6	dmhrsi.provmeprnm	Join to the MDR DMHRSi table on prov_edipn[#] or prov_npi[#] and return the Assigned MEPRS Code if the visit date on the encounter record is between the begin and end date associated with the Assigned MEPRS Code of the provider.
Assigned UIC For Providers 1-6	\$8	PROV_UICD1 - PROV_UICD6	dmhsri.provuicnm	Join to the MDR DMHRSi table on prov_edipn[#] or prov_npi[#] and return the Assigned UIC if the visit date on the encounter record is between the begin and end date associated with the Assigned UIC of the provider.
Fields from the DMISID Index Table				
Base Market Code	\$10	BASE_MKT_CODE	dmisid_index.base_mkt_code	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the base_mkt_code.
Treatment DMIS ID Name	\$30	DMISNME	dmisid_index.dmisnme	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the dmisnme.
Expanded Market Code	\$10	EXP_MKT_CODE	dmisid_index.exp_mkt_code	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the exp_mkt_code.
Facilty Type	\$6	FACTYPE	dmisid_index.factype	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the factype.
Final Branch of Service	\$1	FINSVC	dmisid_index.finsvc	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the finsvc.
Market Name (MTF)	\$40	MKT_NAME	dmisid_index.mkt_name	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the mkt name.
Readiness Parent MTF	\$4	READINESS_PAR	dmisid_index.readiness_par	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the readiness par.
Readiness MTF Service	\$1	READINESS_SVC	dmisid_index.readiness_svc	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the readiness svc.
Reporting Market Code	\$10	REP_MKT_CODE	dmisid_index.rep_mkt_code	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the rep_mkt_code.
DHA Network	\$40	REP_MKT_NAME	dmisid_index.rep_mkt_name	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the rep_mkt_name.
Market Code Type	\$10	TYPE_MKT_CODE	dmisid_index.type_mkt_code	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the type_mkt_code.
Treatment MTF Branch of Service	\$1	MTF_SVC	dmisid_index.ubu_svc	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the ubu_svc.
Treatment MTF Major Command	\$8	MTF_CMND	dmisid_index.majcmnd	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the majcmnd.
Treatment MTF Readiness Command	\$8	MTF_READINESS_CMND	dmisid_index.readiness_cmnd	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the readiness_cmnd.
Treatment MTF T17 Region	\$2	MTF_T17_REG	dmisid_index.t17_reg	Join to the DMISID Index table where the treatment mtf matches the dmisid and retrieve the t17_reg.

Field	Format	SAS Name	Source Element	Transformation Rule
Treatment Parent MTF	\$4	NATE DADENT	desirid index ubu nor	Join to the DMISID Index table where the treatment mtf
Treatment Parent WITF	\$4	MTF_PARENT	dmisid_index.ubu_par	matches the dmisid and retrieve the ubu_par.
Treatment MTF Multi-	\$3	MTF MSMA	dmicid index mem id	Join to the DMISID Index table where the treatment mtf
Service Market Area	၃၁	IVIT_IVISIVIA	dmisid_index.msm_id	matches the dmisid and retrieve the msm_id.
Enrollment MTF Branch	\$1	ENR_SVC	dmisid_index.ubu_svc	Join to the DMISID Index table where the enrollment enr_mtf
of Service	٦٢	LIVIN_3VC	diffisid_ffidex.ubu_svc	matches the dmisid and retrieve the ubu_svc.
Enrollment MTF T17	\$2	ENR_T17_REG	dmisid_index.t17_reg	Join to the DMISID Index table where the enrollment enr_mtf
Region	٧٧	LININ_117_INLO	diffisid_ffidex.t17_feg	matches the dmisid and retrieve the t17_reg.
Enrollment MTF Parent	\$4	ENR PARENT	dmisid index.ubu par	Join to the DMISID Index table where the enrollment enr_mtf
Linoillient Will Farent	74	LINIX_FAILLINI	diffisid_iffdex.dbd_pai	matches the dmisid and retrieve the ubu_par.
Internally Derived Fields				
Patient Age	N(8)	PATAGE	patdob, visit_dt	Derived age in years between the patdob and visit_dt.
Age Group	\$1	AGEGRP	patage	If patage is 0-4, set to A; if 5-14, B; if 18-24, C; if 25-34, D; if 35-
Age Group	ŞΙ	AGEGRA	patage	44, F; if 45-64, G; if 65+, H; else X.
Ambulatory Surgery Flag	N(8)	AMBSURG	encounter type	If encounter_type contains "Day Surgery" and MTF_SVC = A, F,
Allibulatory Surgery Flag	IN(O)	AIVIDOUNG	encounter_type	N or P then ambsurg = 1, otherwise ambsurg = 0.
Source System Flag	\$1	APPTPFIX		Set to 'M' for all records.
(Appointment Prefix)	71	AFFIFIIA		Set to Willor all records.
Calendar Year	\$4	CY	visit_dt_tm	Extract the calendar year from visit_dt_tm.
Calendar Month	\$2	CM	visit_dt_tm	Extract the calendar month from visit_dt_tm.
Fiscal Year	\$4	FY	visit_dt_tm	Extract the fiscal year from visit_dt_tm.
Fiscal Month	\$2	FM	visit_dt_tm	Extract the fiscal month from visit_dt_tm.
Encounter Key (PI-EDW)	N(8)	ENCOUNTER_KEY		Always missing; this is a deprecated field from PI-EDW (2.4).
GENESIS Flag	N(8)	GENESIS_FLAG		Set to 1 on all records.
Health System ID	N(8)	HEALTH_SYSTEM_ID		Set to 18635 on all records.
Inpatient Indicator of	Ċ1	LIOCDCTAT	anacuntar tuna	If apparent as the authority than cot to 1 atherwise act to 0
Record	\$1	HOSPSTAT	encounter_type	If encounter_type = 'Inpatient' then set to 1, otherwise set to 0.
Visit Times (IIIIIANA)	Ċ.F.	VICIT TNA	visit dt too	Extract the time portion of the visit_dt_tm value using the
Visit Time (HH:MM)	\$5	VISIT_TM	visit_dt_tm	timepart function: timepart(visit_dt_tm)
				If there is no discharge_dt_tm value for the encounter, set the
No Discharge Date Flag	N(8)	NO_DISCH_DT_FL	discharge_dt_tm	no_disch_dt_fl = 1, otherwise set to 0.
				no_discin_dt_ii = 1, other wise set to 0.

Field	Format	SAS Name	Source Element	Transformation Rule
Facility/Non-Facility Flag	\$1	FAC_FLAG	meprs_cd mtf proc encounter_type	Apply formats from /mdr/ref/caper.facflag.IP.fy&fy2. to specific variables as follows (see MDR CPT Charge spec for details): Value Criteria R records from VA & External ERS sites F MEPR1 = A or encounter_Type = 'Inpatient' or MEPR3 = BIA or MEPRS_CD = B**5 or B**7 or MTF=0124 & MEPRS_CD = B**6 or Encounter_Type = 'Day Surgery' or at least 1 PROC is in the FCPT&fy.B informat N All other
Appointment Type	\$16	APPT_TYPE	appt_type_txt	From the appointment_type_txt value, use regular expression pattern matching to derive the appt_type.
Legacy Appointment Status	\$2	APPT_STAT_LEGACY	appt_stat	If appt_stat eq 'CANCELED' then appt_stat_legacy = '3'; else if appt_stat eq 'NO SHOW' then appt_stat_legacy = '4'; else if appt_stat in ('CHECKED OUT' 'CHECKED IN') then do; if walk_in_flag eq '1' then appt_stat_legacy = '5'; else if walk_in_flag eq '0' then appt_stat_legacy = '2'; end; else if appt_stat in ('CONFIRMED' 'SCHEDULED') then appt_stat_legacy = '12'; else appt_stat_legacy = '14';
Legacy Appointment Type	\$6	APPT_TYPE_LEGACY	appt_type	Apply the \$appttyplegacy. format to map the appt_type values to the appt_type_legacy_values.
Walk In Flag	\$1	WALK_IN_FLAG	appt_type_txt	If substr(appt_type_txt,1,7) = 'Walk-In' then set the walk_in_flag = 1, otherwise set it to 0.
APC; E&M Code 1–3, CPT/HCPCS Code 1–20	\$5	APC1 - APC23	TRICARE APC grouper	Derived by the TRICARE APC Grouper of CPT procedures 1 to 23. See Appendix A for more information about what records are sent to the grouper.
APC Payment Status Indicator (PSI); E&M Code 1–3, CPT/HCPCS Code 1–20	\$2	APCPSI1 - APCPSI23	TRICARE APC grouper	Derived by the TRICARE APC Grouper of CPT procedures 1 to 23. See Appendix A for more information about on what records are sent to the grouper.
APC Weight (Discounted); E&M Code 1–3, CPT/HCPCS Code 1– 20	N(8)	APC_WT1 - APC_WT23	TRICARE APC grouper	Derived by the TRICARE APC Grouper of CPT procedures 1 to 23. See Appendix A for more information about on what records are sent to the grouper.
APC Aggregate Weight	N(8)	APCAGGWT	apc_wt [J], J = 1 to 23	Derive as the sum of all APC_WT[#] values: ∑ APCWTJ , J=1 to 23
Overall Claim Disposition	\$2	CLAIM_DISP	rt_clmdsp	Derived by the TRICARE APC Grouper.

Field	Format	SAS Name	Source Element	Transformation Rule
Claim Denial Disposition	\$2	CLAIM_DEN	rt_clmdnl	Derived by the TRICARE APC Grouper.
Alternate Care Value (ACV) Group for M2	\$15	ACVGRP	acvgroup	For 2018 to present, derived based on acvgroup as follows: if acvgroup = 'PR' then acvgrp='Prime' else if acvgroup = 'DP' then acvgrp='Desig Prov' else if acvgroup = 'OP' then acvgrp='Overseas Prime' else if acvgroup = 'PL' then acvgrp='Plus' else if acvgroup = 'R' then acvgrp='Reliant' else if acvgroup = 'O' then acvgrp='Other'
Diagnosis Group	\$2	DXGRP	dx1	Use first three characters of Diagnosis 1 (DX1). See Table A1 for derivation rules.
Age Group Common	\$1	EXPAGE	patage	Derived from PATAGE: A = 0-4, B = 5-14, C = 15-17, D = 18-24, E = 25-34, F = 35-44, G = 45-64, H = 65-69, I = 70-74, J = 75-79, K = 80-84, L = 85+, X = All others
Major Diagnostic Category	\$2	MDC	dx1	Apply the MDC format from /mdr/ref/sadr.mdc.txt to DX1 as follows: put(substr(dx1,1,7),\$mdc&fy2.z.)
Service Line	\$5	SERVICE_LINE	mepr3	Apply the Service line format from /mdr/ref/slfmt to MEPR3 as follows: put(mepr3,\$slfmt.);
Product Line	\$7	PRODLINE	mepr3, mtf_svc	Derived based on Clinic (MEPRS3) and Treatment Service (mtf_svc). See Table A2 for derivation rules.
Patient Category	\$3	PATCAT	patcat_e, patcat_p	Derive as the first 3 characters of patcat_e (if populated), otherwise derive as the first 3 characters of patcat_p.
Patient Race	\$1	RACE	bencat race_genesis, race_deers	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 Table A3 for full derivation.
Encounter Workload Inferred Flag	N(8)	ENC_INFR_FLAG	cpt_1, cpt_4, encounter_type	Derive as 1 if cpt_1 and cpt_4 are both missing and the encounter_type is not 'Outpatient Message' or 'Between Visit', otherwise set to 0.
Recoded Sponsor Service	\$1	RSPONSVC	patcat_e, patcat_p, ssvclvm	Derive from 1 st character of PATCAT_E if available. Otherwise, use SSVCLVM. If A, C, F, M, N then retain value. Else if B then assign O. Else if P then assign H. Else if R then assign 4. Else if PATCAT is K71 or K78 then assign 4. Else assign X.
RVU, Enhanced Work	N(8)	RVU_EW	nwrvu1 - nwrvu23	The Enhanced Work RVUs, with modifiers, per code multiplied by the units of service; computed as: Σ (RRVUJ*CPTUOS_J) for J=1 to 23 CPT Codes.

Field	Format	SAS Name	Source Element	Transformation Rule
RVU, Enhanced Practice Expense	N(8)	RVU_EPE	npervu1 - npervu23	The sum of Enhanced Practice Expense RVUs, with modifiers, chosen based on designation as facility or non-facility care, multiplied by the units of service, computed as: Σ (PERVUJ*CPTUOS_J) for J=1 to 23 CPT Codes
RVU, Enhanced Total	N(8)	RVU_ET	rvu_ew, rvu_epe	Sum of RVU_EW and RVU_EPE.
Appointment Type of Record	\$6	APPT_TYPE_REC	appt_type	Derive from appt_type value as standardized value. See Table A4 for full derivation.
External Resource Sharing Agreement (ERSA) Flag	N(8)	ERSA	place_of_svc_org	Set to 1 if the place_of_svc_org value contains the segment '-ERS', otherwise set to 0.
Evaluative Visit	N(8)	EVALVIS	cpt_1 - cpt_23	If at least one CPT_J (J=1-23) has an Evaluative Visit Indicator of 'Y' (put(CPT_J,\$evalviscyb.) = 'Y'), then EVALVIS=1. If no CPT_J have an Evaluative Visit Indicator of 'Y' (all = 'N'), then EVALVIS=0.
MEPRS1 Medical Service Based	CHAR(1)	MEPRS1_MED_SVC	MEDICAL_SVC	MEPRS1_MED_SVC = substr(MEPRS3_MED_SVC,1,1)
MEPRS2 Medical Service Based	CHAR(2)	MEPRS2_MED_SVC	MEDICAL_SVC	MEPRS2_MED_SVC = substr(MEPRS3_MED_SVC,1,2)
MEPRS3 Medical Service Based	CHAR(3)	MEPRS3_MED_SVC	MEDICAL_SVC	<pre>if Encounter_Type = "Inpatient" then MEPRS3_MED_SVC=put(medical_svc,\$meprmapA.);</pre>

Appendix A: Administrative Processing Steps and Field Additions

A.1 Granularity Overview

In order to obtain the correct level of granularity to represent professional encounter records (consistent with the legacy CAPER data model), the raw GENESIS encounter records often need to be expanded into multiple new records. Individual raw records with an encounter type = 'Recurring' or 'Inpatient' need to be expanded into multiple records. In MHS GENESIS, a "recurring encounter" can span across many visits (ex. Physical Therapy visits). MDR ETL processing will split out each individual visit as its own MDR GENESIS Encounter record, and corresponding CPT procedures that occurred during each visit are joined to the correct visit record. Similarly, a single MHS GENESIS inpatient encounter record can span many days between admission and discharge; in MDR processing, each day of an inpatient stay is split out to its own encounter record and corresponding CPTs (ex. inpatient rounds and other inpatient professional services). Another common scenario in MHS GENESIS that requires individual 'Inpatient' encounter type records to be expanded is for Emergency Department visits that result in an inpatient stay. MDR processing will ensure that the visit to the Emergency Department is split out into a separate record with the appropriate MEPRS3 Code (ex. BIA). For this reason, the compound key required to identify a unique MDR GENESIS Encounter record is the encounter_sk + enc_sfx. The enc_sfx field is derived in processing as a simple counter that increments for these scenarios that can generate multiple visit records sourced from a single encounter_sk and/or a single FIN. The FIN is an 'alias' of the encounter_sk with MHS GENESIS that is commonly used as the encounter identifier by providers using MHS GENESIS.

A.2 Recurring Encounters

To expand 'recurring encounters' to individual visits, data from the genesis_vw.encounter view must be joined to Appointment data located within the genesis_vw.sch_appt view. Each individual appointment that was completed will generate an MDR encounter record via a merge on the encntr_id. Encounters with multiple sch_event_id records should each have their own appt_dt_tm to indicate distinct visits. Many other appointment related fields such as the Appointment Provider, Appt Type, and Appt Status can also be captured through this merge as described in Table 3. A simple fictitious example of a Recurring encounter with a single encntr_id and a single FIN that can result in multiple records with distinct sch event ids and incrementing enc sfx values is shown below:

encounter_ type	medical_svc	fin	encntr_id	enc_sfx	sch_event_id	visit_dt	reg_dt_tm
Recurring	Physical Therapy	5758	1049879	1	74679392	2023-08-16	2023-08-16 14:18:02
Recurring	Physical Therapy	5758	1049879	2	76302916	2023-08-23	2023-08-16 14:18:02
Recurring	Physical Therapy	5758	1049879	3	76302944	2023-08-30	2023-08-16 14:18:02
Recurring	Physical Therapy	5758	1049879	4	76302951	2023-09-07	2023-08-16 14:18:02
Recurring	Physical Therapy	5758	1049879	5	82112342	2023-09-14	2023-08-16 14:18:02

Oracle Cerner purged the MHS GENESIS Appointment data from FY17-FY20, and therefore the BDE 3.0 data surfaced in the genesis_vw.sch_appt is missing those appointment records. For the FY17-FY20

timeframe, MDR processing reverts back to using the BDE 2.4 Appointment data as the source feed in order to properly expand Recurring Encounters.

A.3 Inpatient Encounters

To expand inpatient encounters to multiple professional encounter records, the primary method will be to use the inpatient_admit_dt_tm and discharge_dt_tm values. For each date between (inclusive) those two datetime values, output one record per day of the inpatient stay and set the visit_dt to that value. A typical inpatient stay will generate one or more professional charges (ex. CPTs for rounds) per day since the inpatients are using hospital resources every day. If no discharge_dt_tm value exists, then either the patient is still in the hospital, or the encounter record was never closed and documented properly. In order to estimate inpatient encounters that were not closed properly, the clinical_event table is used, and the last_clinic_note_dt_tm value may be used as the last inpatient encounter date.

A.4 Emergency Department Admits to Inpatient

Within MHS GENESIS, encounters with an encounter_type = 'Inpatient' often start off as Emergency Department encounters. In order to not lose visibility of the Emergency Department visit, when this scenario occurs the MDR processor will create a separate encounter record with encounter_type = 'Emergency', set the MEPRS Code values to 'BIAA', and the enc_sfx value to 1. Subsequent days while the patient is in 'Inpatient' status will get their own MDR Encounter records beginning with an enc_sfx value of 2, while sharing the same encounter_sk and FIN values as the Emergency encounter record.

A.5 MDR CPT Charge join to Encounters

During daily MDR BDE 3.0 processing, the MDR CPT Charge table is built first before this MDR Encounter table is built (see MDR CPT Charge specification). All CPTs that are merged into the MDR Encounter table come from the MDR CPT Charge table, and are stored in the CPT_1-CPT_23 array. Additionally, the CPTUOS, RRVU, FPRVU, NPRVU, NWRVU, NPERVU and TRVU fields are all merged in and transposed into their 23 position arrays from the MDR CPT Charge table. For single encntr_id (single FIN) encounters (ex. not recurring), all CPTs for that FIN are merged on encntr_id, regardless of the service_dt_tm of the charge. For multi-day encounters (ex. recurring, inpatient), the merge of the CPT codes is on the encntr_id and where the visit_dt matches the service_dt of the charge. The first 3 CPT positions (CPT_1-CPT_3) are reserved for E&M codes. The remaining positions (CPT_4-CPT_23) are organized by descending total RVU (TRVU) values so that the CPT with the highest total RVU value is in position CPT_4.

A.6 LVM Merge

Append the Enrollment DMISID (MTF_ENR), Alternate Care Value (ACV), Alternate Care Value Group (ACVGROUP), Health Care Delivery Program Code (HCDP), Assigned HCDP (HCDP_ASSGN), Beneficiary Category (BENCAT), Common Beneficiary Category (COMBEN), PCM ID (PCMIDLVM), PCM Type (PCM_TYPE), Medicare Flag (MEDICARE_FLAG), Sponsor Service Aggregate (SAGGLVM), Sponsor Service (SSVCLVM), Patient Privilege Code (PRIVILEGE), Gender (GENDER), Date of Birth (PATDOB_CHAR), Race Code (RACE), Ethnic Group (ETHNIC), Marital Status (MARITAL), Eligibility Group (ELG_GRP), Enrollment Group (ENR_GRP), TPR Eligibility Flag (TPRELIG) and TRICARE Young Adult Flag (TYAFLAG) from the longitudinal LVM for Encounter data:

- a. Merge to the LVM by EDIPN for the FM of the encounter date.
- b. If a match is found, assign all variables as described in Table 2.

A.7 DMISID Index Merges

Merge to the MDR DMISID Index based on encounter date and Treatment MTF to append the T17 Region (MTF_T17_REG), T3 Region (MTF_T3_REG), Treatment Service (MTF_SVC), Multi-Service Market Area (MTF_MSMA), and Treatment Major Command (MTF_CMND).

Also Merge to the MDR DMIS ID Index based on encounter date and Enrollment DMIS ID (MTF_ENR) to append the Enrollment T17 Region (ENR_T17_REG), T3 Region (ENR_T3_REG), Enrollment Parent Site (ENR_PARENT) and Treatment Service (ENR_SVC).

A.8 MDR Omni CAD Merge

Merge to the MDR CAD based on Patient ZIP, Sponsor Service (after mapping to A, F, N and O), and the CAD matching the encounter date. (If Patient ZIP is not usable, the Treatment MTF Zip Code is used in its place.) The fields Patient Catchment Area (CATCH), Patient T17 Region (BEN_T17_REG), T3 Region (BEN_T3_REG), MTF Service Area (MTFSVCAREA) and PRISM Area MTF (PRISM) are added in this process.

A.9 MDR DMHRSi Basic HR Merge

Add provider information from the MDR DMHRSi Basic HR file by merging the Provider's DMHRSi extract records for the given encounter date and provider identifier. Note that only DMHRSi extract records that have both a defined start (ASSIG_START) and end (ASSIG_END) date should be considered.

A.10 Additional Derived Field Logic

Several other fields in Table 3 and their derivation rules are more completely described in the tables below.

Table A1: Diagnosis Group Derivation

ICD-10-Dx: First 3 digits	Category Number	Disease Category Name	
A00-B99	1	Infections & Parasites	
C00-D49	2	Neoplasms	
E00-E89	3	Endocrine & Metabolism	
D50-D89	4	Blood	
F01-F99	5	Mental	
G00-H95	6	Nerves and Senses	
100-199	7	Circulatory System	
J00-J99	8	Respiratory System	
K00-K95	9	Digestive System	
N00-N99	10	Genitourinary	
O00-O9A	11	Pregnancy and Childbirth	
L00-L99	12	Skin	
M00-M99	13	Musculoskeletal	
Q00-Q99	14	Congenital Anomalies	
P00-P96	15	Perinatal	
R00-R99	16	III-Defined	
S00-T88	17	Injury & Poisoning	
Z00-Z99	18	Supplementary Classifications	
V00-Y99	19	Unknown (external causes)	
Anything starting with "DOD"	20	DOD unique codes	
All Others		blank	

Table A2: Product Line Derivation

Product Line	Full Name Description	Service	Definition MEPRS
PC	Primary Care	A, N, P	BGA, BHA, BDA, BAA, BJA, BHB, BHI, BDC, BDB, BKA, BHZ, BGZ, BHH, BAZ, BDZ
PC	Primary Care	All except A, N, P	BGA, BHA, BDA, BAA, BJA, BHB, BHI, BDC, BDB, BKA, BHZ, BGZ, BHH
ORTHO	Orthopedics	All	BLA, BEA, BEF, BEZ, BEB, BEE, BEC, BED, BLB
МН	Mental Health	All	BFD, BFE, BFF, BFA, BFB, BFC
OBGYN	Obstetrics/Gynecology	All	BCC, BCB, BCD, BCA
ОРТОМ	Optometry	All	BHC, BBD
IMSUB	Internal Medicine Subspecialty	All	BAG, BAC, BAL, BAK, BAB, BAN, BAQ, BAS, BAM, BAF, BAJ, BAO, BAH, BAE, BAU, BAT, BAV
ER	Emergency Room	All	BIA
SURG	General Surgery	All	ВВА
SURGSUB	Surgical Subspecialty	All	BBI, BBG, BBC, BBK, BBJ, BBH, BBB, BBZ, BBE
ENT	Otolaryngology	All	BBF
DERM	Dermatology	All	ВАР
OTHER	Other	All	All other MEPRS Codes

Table A3: 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 race_deers='X' then race='X';
    else if race_deers='X' then race='X';
    else if race_deers='Z' then race='Z';
    else if race_deers='Z' then race='Z';
    else 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:
```

Table A4: Field APPT_TYPE_REC Derivation

```
* derive appt_type_rec;

if appt_type = 'Future Online' then appt_type_rec = 'FTRONL';
    else if appt_type = 'Dental' then appt_type_rec = 'DENTAL';
    else if appt_type in ('FTR','Future') then appt_type_rec = 'FTRG';
    else if appt_type = 'Group' then appt_type_rec = 'GROUP';
    else if appt_type = 'Procedure' then appt_type_rec = 'PROCG';
    else if appt_type = 'Routine' then appt_type_rec = 'ROUTG';
    else if appt_type = 'Same Day' then appt_type_rec = 'SD';
    else if appt_type = 'Same Day Online' then appt_type_rec = 'SDONL';
    else if appt_type in ('SPEC','Specialty') then appt_type_rec = 'SPECG';
    else if appt_type = 'Surgery' then appt_type_rec = 'SURGG';
    else if appt_type = 'Virtual' then appt_type_rec = 'VIRT';
    else if appt_type = 'Walk-In' then appt_type_rec = 'WALKIN';
    else appt_type_rec = appt_type;
```

Appendix B: Application of Ambulatory Grouper and Related Fields

Ambulatory Payment Classification (APC) codes and APC-related values will be added to the MDR GENESIS Encounter table. APC values are added by processing through the TRICARE APC Grouper, which assigns TRICARE 5-character APCs for every non-blank CPT position. After grouping, and after codes edits are applied, additional MHS-specific APC codes are applied by format to a select set of CPT codes for which there is no APC weight assigned by TRICARE. Only select Facility records are processed by the grouper and retain the APC and APC-related fields for all valid CPT positions. APC Payment Status Indicators (APCPSIJ) are needed in the calculation of workload on all records.

Add grouper-related fields for all MDR GENESIS Encounters as follows:

- Add UOSLIM_J and UOSSUB_J (not retained) and CPTUOS_J and PATAGE (retained).
- 2. Prepare input data for the APC Grouper.
 - a. Modify CPT codes used to report Observation Stays only for input to the Grouper. For any CPT code converted to represent an Observation Stay, change the associated Units of Service value to 8. The modified codes and Units of Service will not be retained or used to overwrite the original fields on exit from the Grouper.
 - b. Limit records sent to the APC Grouper based on the following logic:

```
if ((encounter_type in ("Observation", "Day Surgery"))
  or (encounter_type="Inpatient" and (cpt_4 in ('G0378','G0379') or
        cpt_5 in ('G0378','G0379') or cpt_6 in ('G0378','G0379') or
        cpt_7 in ('G0378','G0379') or cpt_8 in ('G0378','G0379')))
  or ((encounter_type in ("Emergency")) and
        (CPT_1 in ("99281","99282","99283","99284","99285") or
        CPT_2 in ("99281","99282","99283","99284","99285") or
        CPT_3 in ("99281","99282","99283","99284","99285"))));
```

- 3. Prepare and submit the input file to the 3M Grouper Plus System (GPS) TRICARE APC Grouper. The input to the APC Grouper is a flat text file based on a custom dictionary file created for the loaded production version of the TRICARE APC grouper. It allows for a total of 12 diagnoses (one Admitting Diagnosis, one Primary diagnosis and up to 9 more, one Reason for Visit diagnosis), 23 CPT codes and corresponding CPT code-related fields (e.g., modifiers). The input record has three main components:
 - a. The Record Key comes from the Encounter data, is retained through the grouping process, and output on the output record with other output information. Checking the Record Key on the output information against the original Encounter ensures that APC output was, in fact, merged onto the correct Encounter.
 - b. General information required by the grouper, e.g., User Key, and information describing the patient and patient condition, e.g., age, gender, diagnoses.
 - c. A set of variables affiliated with each CPT code.
 - Every CPT code entering the Grouper must be accompanied by Revenue Code, Units of Service, Line Charge Procedure Date, Line Action Flag, and Professional Service Flag.
 - o If any CPT code position is empty on entry to the Grouper, it will signal the Grouper to stop looking for additional CPT codes. Therefore, in the event of a blank CPT position prior to the last CPT position, non-blank CPT codes must be moved to the left-most empty position. Further, all other variables related to the CPT code must also be moved to the corresponding position among that field's values. The original positions of moved CPT codes must be tracked to enable all fields to be properly repositioned after grouping.

- 4. After the text file has been created, group the data with the MDR processing utilities **cgs** script, which will submit the text file to the 3M Grouper Plus System (GPS) TRICARE APC grouper.
- 5. The output from the APC Grouper is a flat text file read based on a custom dictionary file created for the loaded production version of the TRICARE APC grouper. It allows for a total of 12 diagnoses (one Admitting Diagnosis, one Primary diagnosis and up to 9 more, one Reason for Visit diagnosis), 23 CPT codes and corresponding CPT code-related fields. Retrieve APC Grouper output and using the APC Grouper output format, extract grouper generated APC codes (APCJ, where J = 1 to 23) and associated variables and join them back to Encounter records.