

**9 November 2023**

**MHS GENESIS Pharmacy File BDE 3.0**

**for the**

**MHS Data Repository (MDR)**

**(Version 0.00.01)**

**Current Specification**

## Revision History

Version	Date	Originator	Para/Tbl/Fig	Description of Change
0.00.01	11/9/2023	S. Keane	Initial Document	Baseline

## MHS GENESIS3 Pharmacy

### I. BACKGROUND

This specification describes the process required to create the Military Health System (MHS) Data Repository (MDR) GENESIS3 Pharmacy tables based on data received from Oracle Health Bulk Data Extract (BDE) 3.0 MIP Redshift feeds to the MDR.

### II. SOURCES

The source data files used to create the MHS GENESIS3 Pharmacy tables are extracted from the MIP Redshift 3.0. The transfer of the raw source extracts is handled by the Solution Delivery Division (SDD) for loading into the MDR for further processing according to routine MDR operations. The format of the raw MHS GENESIS feeds to the MDR is described in the Department of Defense Healthcare Management System Modernization (DHMSM®) Program DRAFT Interface Control Document (ICD) for Bulk Data Extract (BDE).

### III. TRANSMISSION (FILES AND FREQUENCY)

Source files are provided daily.

### IV. ORGANIZATION AND BATCHING

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

**Output Products:** The processor outputs separate SAS data sets for Fiscal Year (FY) of data. The processor performs merges and field derivations, and must incorporate updates to records across raw data extracts. The output data set fyxx.sas7bdat will be stored in /mdr/pub/genesis3/pharmacy/fyxx.sas7bdat.

**Archiving (APUB):** Use routine archiving rules and procedures of the MDR.

**Receiving Filters:** There are no receiving filters.

MDR GENESIS3 Pharmacy tables will contain medications dispensed and/or administered at MHS GENESIS Military Treatment Facilities (MTF). Select result records where Activity Type equals "Pharmacy" and to avoid selecting results for omitted orders, match order records on primary key. All records are provided with the initial batch of data. Thereafter, new and changed records are sent each day.

## V. UPDATE PROCESSES

New raw feeds contain either insert or update records. These records shall be used to update the master MDR GENESIS3 Pharmacy datasets. The primary key for the final dataset is the combination of Encounter ID, Order ID, Action Sequence, and Ingredient Sequence. The processor shall delete duplicates before updating the table. Duplicate records, defined as those with the same primary key. When choosing among duplicate records, the processor shall select the record with the most recent value for the variable: UPDT\_DT\_TM (update date/time (UPDT\_DT\_TM) for multiple of records with the same primary key.

## VI. FILE MERGES

Table 1 describes the data merges that are necessary to append many of the fields in the MHS GENESIS3 Pharmacy file.

**Table 1: File Merges**

Merge	Key Matching
MHS GENESIS3 Order Action	order_id where action_type_cd = 2534
MHS GENESIS3 Orders	order_id where activity_type = "Pharmacy"
MHS GENESIS3 Pharmacy Dispense History	order_id, action_sequence
MHS GENESIS3 Pharmacy Order Dispense	order_id
MHS GENESIS3 Pharmacy Order Product	order_id, get item_id, med_product_id
MHS GENESIS3 Medication Product Reference	match on item_id and/or med_product_id
MHS GENESIS3 Encounter	encntr_id from orders
MDR GENESIS3 Person	person_id
MDR GENESIS3 Personnel	prsnl_id
MDR DMIS Index	MTF, MTF_ENR
MDR LVM and/or MDR DEERS	EDIPN or SSN and date_dispende between begin and end dates associated with the segment
MDR MPI	EDIPN
MDR Omni-CAD	zip_d and sponsvc and year and month of CAD in date_dispende

## VII. FILE LAYOUT

Table 2 describes the file layout and derivation rules for the MHS GENESIS3 Pharmacy file.

Field	SAS Name	Format	Source Field	Business Rule	2.4 Field
MHSG Rx Dispense History					
Action Sequence	action_sequence	N(8)	action_sequence	none	ACTION_SEQ
Authorization Number	authorization_nbr	varchar(75)	authorization_nbr	none	
Bill Quantity	bill_qty	N(8)	bill_qty	none	BILL_QTY
Charge Date and Time	charge_dt_tm	DATETIME	charge_dt_tm	none	CHARGE_DT_TM
Charge Indicator	charge_ind	N(8)	charge_ind	none	CHARGE_IND
Charge Date Time Zone	charge_tz	N(8)	charge_tz	none	

Field	SAS Name	Format	Source Field	Business Rule	2.4 Field
Copay Amount	copay	N(8)	copay	none	COPAY_AMT
Cost Amount	cost	N(8)	cost, event_total_price	coalesce(cost, event_total_price) as cost	COST_AMT
Dispense Qty	disp_qty	N(8)	disp_qty	none	
Dispense Quantity Unit	disp_qty_unit	varchar(24)	disp_qty_unit_cd	cv.display as disp_qty_unit, apply code_set 54	DISPENSE_QTY_UNIT
Dispense Quantity Unit Description	disp_qty_unit_desc	varchar(60)	disp_qty_unit_cd	cv.description as disp_qty_unit_desc, apply code_set 54	
Dispense Date and Time	dispense_dt_tm	DATETIME	dispense_dt_tm	none	DISPENSE_DT_TM
Dispense Event Type	dispense_event_type	varchar(60)	disp_event_type_cd	cv.description as dispense_event_type, apply code_set 4032	DISPENSE_EVENT_TYPE
Dispense Fee	dispense_fee	N(8)	dispense_fee	none	
Dispense Service Resource Department Hierarchy SK	dispense_loc_cd	N(8)	disp_loc_cd, disp_sr_cd	coalesce(disp_loc_cd, disp_sr_cd) as dispense_loc_cd	DISPENSE_SVC_RES_DEPT_HIER_SK
Dispense Location Code	dispense_location	varchar(40)	disp_loc_cd	cv.display as dispense_location, apply code_set 220, 221	DISPENSE_LOC
Dispense Priority	dispense_priority	varchar(40)	disp_priority_cd	cv.description as dispense_priority, apply code_set 4513	DISPENSE_PRIORITY
Dispensing Personnel Code	dispense_prsnl_id	N(8)	dispense_prsnl_id	none	
Dispense Quantity	dispense_quantity	N(8)	disp_qty	none	DISPENSE_QTY
Dispense Date Time Zone	dispense_tz	N(8)	dispense_tz	none	
Dose Quantity	doses	N(8)	doses	none	DOSE_QTY
Fill List Number	fill_nbr	N(8)	fill_nbr	none	FILL_LIST_NBR
Order ID	order_id	N(8)	order_id	none	
Pharmacy Type Code	pharm_type_cd	N(8)	pharm_type_cd	none	
Pharmacy Type	pharmacy_type	varchar(14)	pharm_type_cd	cv.display as pharmacy_type, apply code_set 4500	PHARMACY_TYPE
Remaining Quantity	qty_remaining	N(8)	qty_remaining	none	REMAINING_QTY
Remaining Refill Count	refills_remaining	N(8)	refills_remaining	none	REMAINING_REFILL_COUNT
Unit Cost Price	uc_price	N(8)	uc_price	none	
<b>MHSG Encounter</b>					
Admit Type	admit_type	varchar(40)	admit_type_cd	cv.display as admit_type, apply code_set 3	ADMIT_TYPE
Encounter Disposition Code	dispcode	varchar(40)	disch_disposition_cd	cv.display as dispcode, apply code_set 19	DISPCODE
Encounter Status	encounter_status	varchar(40)	encntr_status_cd	cv.display as encounter_status, apply code_set 261	ENCOUNTER_STATUS
Encounter Type	encounter_type	varchar(40)	encntr_type_cd	cv.display as encounter_type, apply code_set 71	ENCOUNTER_TYPE
Encounter Class	encounter_type_class	varchar(40)	encntr_type_class_cd	cv.display as encounter_class, apply code_set 69	ENCOUNTER_CLASS
Financial Number (FIN)	fin_e	varchar(40)	alias	tbl.alias as fin_e where encntr_alias_type_cd = 1077, apply code_set 1077	FIN
Location Encounter	loc_enc	varchar(60)	location_cd	cv.display as loc_enc, apply code_set 220, 221	
Location Encounter Nurse Unit	loc_enc_nurse_unit	varchar(60)	loc_nurse_unit_cd	cv.display as loc_enc_nurse_unit, apply code_set 220, 221	
Location Encounter Nurse Unit Code	loc_nurse_unit_cd	N(8)	loc_nurse_unit_cd	none	

Field	SAS Name	Format	Source Field	Business Rule	2.4 Field
Location Encounter Code	location_cd	N(8)	location_cd	none	
Medical Service	medical_service	varchar(40)	med_service_cd	cv.display as medical_service, apply code_set 34	MEDICAL_SERVICE
Reason for Visit	reason_for_visit	varchar(255)	reason_for_visit	none	REASON_FOR_VISIT_TXT
<b>MHSG Medication Product</b>					
Form Code	form	varchar(60)	form_cd	cv.description as form, apply code_set 4002	FORM_CODE
Given Strength	given_strength	varchar(50)	GIVEN_STRENGTH	none	GIVEN_STRENGTH
National Drug Code (NDC)	ndc	varchar(50)	med_identifier_type_cd	med_identifier_type_cd, 3104 as ndc	
Strength	strength	N(8)	strength	none	STRENGTH
Strength Unit	strength_unit	varchar(30)	strength_unit_cd	cv.display as strength_unit, apply code_set 54	STRENGTH_UNIT
Strength Unit Description	strength_unit_desc	varchar(60)	strength_unit_cd	cv.description as strength_unit_desc, apply code_set 54	
Volume	volume	N(8)	VOLUME	md.volume as total_volume	VOLUME
Volume Unit	volume_unit	varchar(30)	volume_unit_cd	cv.display as volume_unit, apply code_set 54	VOLUME_UNIT
Volume Unit Description	volume_unit_desc	varchar(60)	volume_unit_cd	cv.description as volume_unit_desc, apply code_set 54	
Therapeutic Class	therapeutic_class	N(8)	THERAPEUTIC_CLASS_SHORT_DESC	obtain therapeutic_class_short_desc from hea; match on item_id	
Therapeutic Class Description	therapeutic_class_desc	varchar(55)	THERAPEUTIC_CLASS_LONG_DESC	obtain therapeutic_class_long_desc from hea; match on item_id	
<b>MHSG Order Action</b>					
Location Order Nurse Unit	loc_order_nurse_unit	varchar(60)	order_locn_cd	cv.display as loc_order_nurse_unit, apply code_set 220, 221	LOC_ORDER_DISP_ORDER
Location Order Code	order_locn_cd	N(8)	order_locn_cd	none	
Ordering Physician Code	order_provider_id	N(8)	order_provider_id	none	
<b>MHSG Rx Order Dispense</b>					
Claim Flag	claim_flag	N(8)	claim_flag	none	CLAIM_FLAG
Days Supply	days_supply	N(8)	days_supply	none	DAYS_SUPPLY
Dispense Category	dispense_category	varchar(90)	dispense_category_cd	cv.description as dispense_category, apply code_set 4008	DISPENSE_CATEGORY
Legal Status	legal_status	varchar(60)	legal_status_cd	cv.description as legal_status, apply code_set 4200	LEGAL_STATUS
Order Cost	order_cost	N(8)	order_cost_value, order_price_value	coalesce(order_cost_value, order_price_value)	
Order Dispense Indicator	order_dispense_ind	N(8)	order_dispense_ind	none	
Order Type Flag	order_type	varchar(15)	order_type	none	ORDER_TYPE_FLAG
Location Pharmacy	pharmacy	varchar(90)	rx_nbr_cd	cv.description as pharmacy, apply code_set 4550	
Location Pharmacy Code	rx_nbr_cd	N(8)	rx_nbr_cd	none	
<b>MHSG Rx Order Product</b>					
Brandname	brandname	varchar(100)	brand_desc	brand_desc as brand_name	BRANDNAME
Compound Flag	compound_flag	N(8)	compound_flag	none	COMPOUND_FLAG
Compound Flag Description	compound_flag_desc	varchar(10)	compound_flag	none	

Field	SAS Name	Format	Source Field	Business Rule	2.4 Field
Dose Quantity Unit	dose_quantity	N(8)	dose_quantity_unit_cd	cv.display as dose_quantity_unit, apply code_set 54	DOSE_QTY_UNIT
Generic Name	generic_name	varchar(100)	generic_desc	generic_desc as generic_name	GENERIC_NAME
Ingredient Sequence	ingred_sequence	N(8)	ingred_sequence	none	INGREDIENT_SEQ
Item ID	item_id	N(8)	item_id	none	
Medication Product ID	med_product_id	N(8)	med_product_id	none	
National Drug Code (NDC) II	ndc_formatted	varchar(50)	drug_identifier	drug_identifier as ndc_formatted	NDC_REF
Quantity Unit	quantity_unit	varchar(30)	disp_qty_unit_cd, dose_quantity_unit_cd	cv.display as quantity_unit, apply code_set 54	
Quantity Unit Description	quantity_unit_desc	varchar(60)	disp_qty_unit_cd, dose_quantity_unit_cd	cv.description as quantity_unit_desc, apply code_set 54	
Unrounded Dose Quantity	unrounded_dose_quantity	N(8)	unrounded_dose_quantity	unrounded_dose_qty as unrounded_dose_quantity	UNROUNDED_DOSE_QTY
<b>MHSG Orders</b>					
Activity Type	activity_type	varchar(60)	activity_type_cd	cv.display as activity_type, apply code_set 106	
Activity Type Code	activity_type_cd	N(8)	activity_type_cd	none	
Catalog	catalog	varchar(90)	catalog_cd	cv.description as catalog, apply code_set 200	
Catalog Code	catalog_cd	N(8)	catalog_cd	none	
Clinical Category	clinical_category	varchar(60)	dcp_clin_cat_cd	cv.display as clinical_category, apply code_set 16389	
Clinical Display Line	clinical_display_line	varchar(255)	clinical_display_line	none	
Comment Type Mask	comment_type_mask	N(8)	comment_type_mask	none	
Constant Indicator	constant_ind	N(8)	constant_ind	none	CONSTANT_IND
Department Status	dept_status	varchar(30)	dept_status_cd	cv.description as dept_status, apply code_set 14281	DEPT_STATUS
Discontinue Date and Time	discontinue_effective_dt_tm	DATETIME	discontinue_effective_dt_tm	none	DISCONTINUE_DT_TM
Discontinue Date Time Zone	discontinue_effective_tz	N(8)	discontinue_effective_tz	none	
Discontinue Indicator	discontinue_ind	N(8)	discontinue_ind	none	DISCONTINUE_IND
Discontinue Type	discontinue_type	varchar(60)	discontinue_type_cd	cv.display as discontinue_type, apply code_set 4038	
Encounter ID	encntr_id	N(8)	originating_encntr_id, encntr_id	coalesce(encntr_id, originating_encntr_id)	
Frequency Type Flag	freq_type_flag	varchar(15)	freq_type_flag	none	FREQ_TYPE_FLAG
IV Indicator	iv_ind	N(8)	iv_ind	none	IV_IND
Original Action Communication Type	latest_communication_type	varchar(30)	latest_communication_type_cd	cv.description as latest_communication_type, apply code_set 6006	ORIG_ACTION_COMMUNICATION_TYPE
Medication Order Type	med_order_type	varchar(30)	med_order_type_cd	cv.description as med_order_type, apply code_set 18309	MED_ORDER_TYPE
Need Doctor Cosign Indicator	need_doctor_cosign_ind	N(8)	need_doctor_cosign_ind	none	
Need Rx Clinical Review Flag	need_rx_clin_review_flag	N(8)	need_rx_clin_review_flag	none	
Need Rx Verify Flag	need_rx_verify_ind	N(8)	need_rx_verify_ind	none	NEED_RX_VERIFY_FLG

Field	SAS Name	Format	Source Field	Business Rule	2.4 Field
Order Comment Indicator	order_comment_in d	N(8)	order_comment_in d	none	
Order Mnemonic	order_mnemonic	varchar(100)	order_mnemonic	none	ORDER_M NEMONIC
Last Order Status	order_status	varchar(30)	order_status_cd	cv.description as order_status, apply code_set 6004	LAST_ORDE R_STATUS
Ordered as Mnemonic	ordered_as_mnem onic	varchar(99)	ordered_as_mnem onic	none	
Order Date and Time	orig_order_dt_tm	DATETIME	orig_order_dt_tm	none	ORDER_DT _TM
Original Order Flag	orig_order_flag	varchar(30)	orig_ord_as_flag	none	ORIG_ORD ER_FLAG
Order Date Time Zone	orig_order_tz	N(8)	orig_order_tz	none	
Person ID	person_id	N(8)	person_id	none	
Prescription Order ID	prescription_order_ id	N(8)	prescription_order_ id	none	
PRN Indicator	prn_ind	N(8)	prn_ind	none	PRN_IND
Rx Mask	rx_mask	N(8)	rx_mask	none	
Rx Mask Detail	rx_mask_detail	varchar(20)	rx_mask	none	RX_MASK_ DETAIL
<b>MDR Person</b>					
Patient EDIPN	edipn	varchar(10)	person_sk	edipn; where person_sk = person_sk	EDIPN
Patient DEERS Eligibility Indicator	eligibility_ind	varchar(1)	person_sk	eligibility_ind; where person_sk = person_sk	
Patient Full Name	full_name	varchar(100)	person_sk	full_name; where person_sk = person_sk	
Patient MRN	mrn	varchar(40)	person_sk	mrn; where person_sk = person_sk	MRN
Patient First Name	patfn	varchar(100)	person_sk	first_name; where person_sk = person_sk. rename first_name = patfn	PATFN
Patient Last Name	patln	varchar(100)	person_sk	last_name; where person_sk = person_sk. rename last_name = patln	PATLN
Race (derived)	race_g	varchar(45)	person_sk	race; where person_sk = person_sk	
Patient SSN	ssn	varchar(9)	person_sk	ssn; where person_sk = person_sk.	SSN
Patient Test Record Indicator	test_record_ind	N(8)	person_sk	test_record_ind; where person_sk = person_sk	
<b>MDR Personnel</b>					
Ordering Physician DEA	physician_order_dea	varchar(30)	order_provider_id	dea_nbr; match on order_provider_id = person_id	PHYSICIAN _ORDER_D EA
Ordering Physician EDIPN	physician_order_ed ipn	varchar(10)	order_provider_id	edipn; match on order_provider_id = person_id	PHYSICIAN _ORDER_E DIPN
Ordering Physician HIPAA Taxonomy	physician_order_hi paa	varchar(10)	order_provider_id	hipaa1; match on order_provider_id = person_id	PHYSICIAN _ORDER_HI PAA
Ordering Physician Name	physician_order_na me	varchar(100)	order_provider_id	full_name; match on order_provider_id = person_id	PHYSICIAN _ORDER_N AME
Ordering Physician NPI	physician_order_np i	varchar(30)	order_provider_id	npi; match on order_provider_id = person_id	PHYSICIAN _ORDER_N PI
Ordering Physician MD Flag	physician_order_ph ysician_ind	N(8)	order_provider_id	physician_ind; match on order_provider_id = person_id	PHYSICIAN _ORDER_FL AG
Dispensing Personnel DEA	prnsl_dispense_dea	varchar(30)	dispense_prsnl_id	dea_nbr; match on dispense_prnsl_id = person_id.	PRSNL_DIS PENSE_DEA



Field	SAS Name	Format	Source Field	Business Rule	2.4 Field
Dispensing Personnel EDIPN	prnsl_dispense_edipn	varchar(10)	dispense_prsnl_id	edipn; match on dispense_prnsl_id = person_id.	PRSNL_DISPENSE_EDIPN
Dispensing Personnel HIPAA Taxonomy	prnsl_dispense_hipaa	varchar(10)	dispense_prsnl_id	hipaa1; match on dispense_prnsl_id = person_id.	PRSNL_DISPENSE_HIPAA
Dispensing Personnel Name	prnsl_dispense_name	varchar(100)	dispense_prsnl_id	full_name; match on dispense_prnsl_id = person_id	PRSNL_DISPENSE_NAME
Dispensing Personnel NPI	prnsl_dispense_npi	varchar(30)	dispense_prsnl_id	npi; match on dispense_prnsl_id = person_id.	PRSNL_DISPENSE_NPI
Dispensing Personnel MD Flag	prnsl_dispense_physician_ind	N(8)	dispense_prsnl_id	physician_ind; match on dispense_prnsl_id = person_id	PRSNL_DISPENSE_FLAG
<b>MDR DMIS Index</b>					
Performing CMAC Locality Code	cmaccd	varchar(3)		convert 2 digit "locality" to 3 digit (e.g. add leading zero).	CMACCD
MHS GENESIS Start Date	genesis_begin	N(8)		rename genesis_start_date=genesis_begin	GENESIS_BEGIN
MHS GENESIS Time Zone	genesis_tm_zn	varchar(3)		rename genesis_time_zone=genesis_tm_zn	GENESIS_TM_ZN
MTF MEPRS Parent	meprs_parent	varchar(4)		rename mepr_par=meprs_parent	MEPRS_PARENT
MTF Major Command	mtf_cmd	varchar(8)		none	MTF_CMD
MTF Enrollment Parent	mtf_enr_parent	varchar(4)		none	MTF_ENR_PARENT
MTF Enrollment Facility Branch Of Service	mtf_enr_svc	varchar(1)		none	MTF_ENR_SVC
MTF Enrollment T17 Region	mtf_enr_t17_reg	varchar(2)		none	MTF_ENR_T17_REG
MTF Enrollment T3 Region	mtf_enr_t3_reg	varchar(2)		none	MTF_ENR_T3_REG
MTF Facility Name	mtf_fac_name	varchar(42)		rename facnme=mtf_fac_name	MTF_FAC_NAME
MTF MSMA	mtf_msma	varchar(3)		none	MTF_MSMA
MTF Parent	mtf_parent	varchar(4)		none	MTF_PARENT
MTF Facility Branch Of Service	mtf_svc	varchar(1)		none	MTF_SVC
MTF T17 Region	mtf_t17_reg	varchar(2)		none	MTF_T17_REG
MTF T3 Region	mtf_t3_reg	varchar(2)		none	MTF_T3_REG
<b>MDR LVM</b>					
ACV Group	acvgroup	varchar(2)		in mdr, when preparing the m2 feed map "pr" to "prime" "dp" to "designated provider" "op" to "overseas prime" "pl" to "plus" "o" to "other" "r" to "reliant".	ACVGROUP
Beneficiary Category	bencat	varchar(3)		none	BENCAT_D
Common Beneficiary Category Deers	comben_d	varchar(1)		none	COMBEN_D
Eligibility Group	elg_grp	varchar(1)		none	ELG_GRP
Enrollment Group	enr_grp	varchar(1)		none	ENR_GRP
Ethnicity Code	ethnic	varchar(1)		none	
Ethnicity Code Deers	ethnic_d	varchar(1)		none	ETHNIC
Gender	gender	varchar(1)		none	GENDER_D
Health Care Delivery Program Code Deers	hcdp	varchar(3)		none	HCDP

Field	SAS Name	Format	Source Field	Business Rule	2.4 Field
Assigned Health Care Delivery Program Code	hcdp_asgn	varchar(3)		none	HCDP_ASGN
LVM4 Match Indicator	lvm_match	N(8)		none	LVM_MATC H
Marital Status Code	marital	varchar(1)		none	MARITAL
Medicare Flag	medicare_flag	varchar(1)		none	MEDICARE _FLAG
MTF Enrollment DMISID	mtf_enr	varchar(4)		none	MTF_ENR
Patient Zip Code Deers	patzip	varchar(5)		none	PATZIP
PCM ID	pcm_id	varchar(18)		none	PCM_ID
PCM Type	pcm_type	varchar(1)		none	PCM_TYPE
Medical Privilege Code	privilege	varchar(1)		none	PRIVILEGE
Race Code Deers	race_d	varchar(1)		none	RACE
Relationship To Sponsor Deers	rel_d	varchar(1)		none	REL
Sponsor Service	sponsvc	varchar(1)		none	SPONSVC
Sponsor Service Aggregate	svcagg	varchar(1)		none	SVCAGG
TPR Eligibility Code	tpr	varchar(1)		none	TPR
Tricare Prime Remote Flag	tprflag	varchar(1)		tprflag = obtain from omni-cad. tpr flag (tprflag), based on matching fy, fm, and beneficiary zip code (patzip)	TPRFLAG
<b>MDR MPI</b>					
Person Association Reason Code	parc	varchar(2)		none	PARC
Patient Date of Birth DEERS	patdob	N(8)		dob=dob_deers; patdob = input(dob_deers,yymmdd8.);	PATDOB
Sponsor ID	sponssn	varchar(9)		none	SPONSSN
<b>MDR Omni CAD</b>					
Alternate Care Value	acv_d	varchar(1)		none	ACV_D
Beneficiary T17 Region	ben_t17_reg	varchar(2)		none	BEN_T17_R EG
Beneficiary T3 Region	ben_t3_reg	varchar(2)		none	BEN_T3_RE G
Catchment Area ID	catch	varchar(4)		none	CATCH
Beneficiary MTF Service Area	mtfsvcare	varchar(4)		none	MTFSVCAR EA
PRISM Area ID	prism	varchar(4)		none	PRISM
<b>Internally Derived</b>					
Age Group Common	agegrp	varchar(1)		if 0 le patage2 le 4 then agegrp = 'a'; else if 5 le patage2 le 14 then agegrp = 'b'; else if 15 le patage2 le 17 then agegrp = 'c'; else if 18 le patage2 le 24 then agegrp = 'd'; else if 25 le patage2 le 34 then agegrp = 'e'; else if 35 le patage2 le 44 then agegrp = 'f'; else if 45 le patage2 le 64 then agegrp = 'g'; else if 65 le patage2 le 69 then agegrp = 'h'; else if 70 le patage2 le 74 then agegrp = 'i'; else if 75 le patage2 le 79 then agegrp = 'j'; else if 80 le patage2 le 84 then agegrp = 'k'; else if patage2 ge 85 then agegrp = 'l'; else agegrp = 'z';	AGEGRP
Calendar Month	cm	varchar(2)	dispense_dt_tm	cm of dispense_dt_tm	CM
Calendar Year	cy	varchar(4)	dispense_dt_tm	cy of dispense_dt_tm	CY
Date Dispensed	date_dispense	varchar(8)	dispense_dt_tm, orig_order_dt_tm	coalesce(dispense_dt_tm, orig_order_dt_tm)	DATE_DISP ENSE
Date Dispensed Numeric	date_dispense_n	N(8)	dispense_dt_tm	sas numeric value of dispense_dt_tm	

Field	SAS Name	Format	Source Field	Business Rule	2.4 Field
Encounter SK	encounter_sk	varchar(100)	encntr_id	encntr_id::varchar(100) as encounter_sk	ENCOUNTER_SK
Fiscal Month	fm	N(8)	dispense_dt_tm	fm of dispense_dt_tm	FM
Fiscal Year	fy	N(8)	dispense_dt_tm	fy of dispense_dt_tm	FY
MHS GENESIS Flag	genesis_flag	varchar(1)		set to y	GENESIS_FLAG
Has NDC Indicator	has_ndc	N(8)		if ndc is not missing then 1; else 0	
Location Derived	loc_merge	varchar(100)		coalesce location fields	
Location Derived Code	loc_merge_cd	N(8)		coalesce location fields	
MEPRS Code	meprs_cd	varchar(4)		equals "daaa"	MEPRS_CD
MTF Treatment DMISID	mtf	varchar(4)		substr(loc_merge, 1, 4)	MTF
NDC Match Indicator	ndc_match	N(8)		if ndc=ndc_formatted and not missing, then 1; else 0	
Order SK	order_sk	varchar(100)		o.order_id::varchar(100) as order_sk	ORDER_SK
Patient Age	patage	N(8)		use dob_p, patdob to calculate age	PATAGE
Patient Category	patcat	varchar(40)		set as null	PATCAT
Person SK	person_sk	varchar(100)		person_id::varchar(100) as person_sk	PERSON_SK
Race Code	race	varchar(1)		use race, ethnic rule from encounter	
Row Count	rcnt	N(8)		equals 1	
Service Line	svcline	varchar(5)		equals "phar"	SVCLINE

**VIII. EXCLUSIONS**

Here are the conditions required to exclude and/or remove records from the MHS GENESIS3 Pharmacy file. If any of the following conditions are met, either delete the record or output to an error file.

If the primary key is missing or zero.

If patient test flag is missing or one.

If MTF is either NONE, TEST, or VA.

**IX. DATA CONSIDERATIONS**

This dataset combines inpatient and ambulatory pharmacy orders in the same file. While many data elements are applicable to both types. Many are not. For instance, Days Supply is only applicable for ambulatory prescripts and will be missing for all inpatient records. For complete list of data elements that populated based on pharmacy\_type, refer to the MHS GENESIS3 Pharmacy tab of the MDR Data Dictionary.

In the MHS GENESIS Bulk Data Extract (BDE) 3.0, retail pharmacy prescriptions are assigned to the generic location 'Ambulatory Pharmacy'. As such, most location information is either missing or appears as 'Ambulatory Pharmacy' when the pharmacy\_type is 'Retail' and/or encounter\_type is 'Lifetime Pharmacy'.

Millennium maintains the link between the originating encounter and the lifetime pharmacy encounter, so the location information is available there.