Referral Table
for the MHS Mart (M2)
(Version 2.04.05)

Future Specification

Revision History

Version	Date	Originator	Para/Tbl/Fig	Description of Change
1.00.00	10/27/2007	W. Funk		• Original posting
1.01.00	5/12/2008	W. Funk	• Table 1	• Added Appointment Date and Date Appointment Made
1.02.00	1/13/2011		• Section III • Table 1	• Clarification of MEPRS4 Code of Referring Provider and MEPRS3 Code Referred to • Replace EI/DS with DHSS
1.03.00	2/4/2011	W. Funk	•	• Changed the name of Referral FY and Referral FM
1.04.00	3/5/2012	K. Hutchinson for W. Funk	• Section III • Table 1	• Added Pseudo Person ID • Indicated Person ID visible only in the restricted universe.
1.05.00	2/16/2012	J. MacLeod	• Table 1	• Removed the TBD and "Not Yet Populated" from the Appointment Date and Date Appointment Made variables. • Changed the length of the Order Number variable from 8 to 12. • Changed the length of the Appointment Type variable from 11 to 10.
1.06.00a		K. Hutchinson for J. MacLeod	• Section III	• Number of Referrals set to 1 per record.
1.06.00	4/4/2013	K. Hutchinson for J. MacLeod	• Section III	• Modified ACV Group for ACV R and V
1.06.01	2/21/2014	W. Funk	• Table 1	• Added referral DMISID
1.06.02	6/19/2015	W. Funk	• Table 1	• Added UIN and Network Referral Indicator
1.06.03	9/30/2015	W. Funk	• Section II	• Updated record selection rules
1.06.04	6/03/2016	W. Funk	• Table 1, Table 2	• Changed source of Treatment DMISID, and renaming of DMISID fields
1.06.05	12/19/2016	W. Funk	• Table 1	• Added "T3" wording to applicable region fields • Added Appointment Request Status • Formatting Adjustments to Table 1
1.07.00	08/18/2017	B. Ross for W. Funk	• Section III • Table 1	• Hid region text • Added new fields related to NDAA and region transition
1.07.01	11/27/2017	W. Funk	• Table 1	• Changed name of referring MTF region fields
2.00.00	10/8/2018	W. Funk	• Entire document	• Added MHS Genesis content.
2.01.00	3/15/2019	T. Comer for W. Funk	• Table 2	• Changed field name and SAS name for activity_type field to orderable_mnemonic
2.02.00	10/23/2019	T. Comer for W. Funk	• Table 1 • Table 2	• Added MHS GENESIS variable, refer_to_appt_made_dt_tm, to Date Appointment Made field • Minor adjustments of M2 Names • Addition of Catchment, Enrollment, PRISM, and Referring DMIS ID Market fields
2.03.00	12/26/2019	T. Comer for W. Funk	• Table 1	• Added Pseudo MRN GENESIS
2.04.00	4/21/2020	W Funk	• Table 1	• Added Priority and Medical Service
2.04.01	6/12/2020	W Funk	• Table 1 • Table 2	• Added fields to Table 1 • Added fields to Table 2
2.04.02	4/1/2021	T. Comer	• Table 1	• Added SAS field names and lengths to Table 1

2.04.03	6/22/2021	W. Funk	• Table 2	• Updated derived fields. No action required.
2.04.04	5/31/2024	T. Comer	• Table 2	• Added Medical Service GENESIS, Referred to Service Line, and Referring Service Line
2.04.05	1/15/2025	T. Comer	• Table 2	• Added T5 region field • Added notes to hide T3 region fields

Referral Table for the MHS Mart (M2)

I. **Data Source:** MDR Referral File (legacy) and MDR Genesis Referral File

II. **Record Selection:** Two files are provided to M2 each month, an add file and a delete file.

- The "delete file" contains only the referring host (for Genesis sites, the host is populated as "GEN") and the record ID of records that are to be deleted when loading the M2. These deletion records are only associated with records that have been previously sent to M2 and would only cover the current year + 5 additional historical years as required.
- The "add file" contains all new records, and all changed records from the previous version of the MDR Referral File for the current year + 5 additional historical years.

III. **Table Information in M2:** Health Care Services/Referrals. (All years in one data table representing referrals from the current year back through 5 historical years.

IV. **Rules for Preparing M2 Feed from MDR:** . All records are included when preparing the initial referral feed for M2, after applying de-duplication rules. Thereafter, selection rules for the add/delete files are:
- Delete File: Include records (referring host/GEN + Refnum) that have changed or cancelled since previous submission to M2 (M2 Change Flag of "A" (Adjustment) or "C" (Cancellation)).
- Add File: All new records meeting the criteria for M2 and all records where any value in any field in M2 has changed in the MDR since the previous submission to M2 (M2 Change Flag of "N" (new) or "A" (adjustment)).

VI. **Update process:** To update the M2 referral table; first use the delete file to delete changed records. Then append the add file. It is critically important that the steps occur in that order. The first time that the M2 is loaded with referral data, there will only be an add file.

VII. **File Layout:** The file layouts provided to M2 are described in Table 1. The files are pipe (|) delimited.

Table 1: M2 Referral Feed Layout

M2 Name	Format	SAS Name from CHCS file	SAS Name from Genesis file	Processing Rule/Comments
Record ID	$12	refnum	order_sk	No transformation
Person ID	$10	edi_pn	edipn	No transformation. Visible only in the restricted universe
Sponsor ID	$9	sponssn	sponssn	No transformation. Visible only in the restricted universe
Person Association Reason Code	$2	parc	parc	No transformation
Sponsor Service Aggregate	$1	sponsvc	sponsvc	No transformation
Referral Type	$1	reftype	N/A	No transformation
Referring Host DMISID	$4	chcshost	N/A	No transformation for CHCS data. Set to "GEN " for Genesis data.
Referring DMISID	$4	dmisid	refer_from_loc_mtf	No transformation
HCDP - Enrolled	$3	deershcdp	hcdp	No transformation
ACV	$1	deersacv	acv	No transformation
Enrollment Site	$4	deersenr	denrsite	No transformation

M2 Name	Format	SAS Name from CHCS file	SAS Name from Genesis file	Processing Rule/Comments
Patient Category Code	$3	patcat	N/A	No transformation
Beneficiary Category	$3	bencatx	bencat	No transformation
Ben Cat Common	$1	comben	comben	No transformation
Beneficiary Zip Code	$5	patzip	patzip	No transformation
Referral Date	YYYYMMDD	refdate	order_dt_tm	No transformation for CHCS data. Take date component of order date and time for Genesis data and convert to character format (YYYYMMDD).
FY	$4	reffy	fy	No transformation
FM	$2	reffm	fm	No transformation
Status	$2	status	refer_to_appt_stat_legacy	No transformation
Referral Time	$5	reftime	order_dt_tm	No transformation for CHCS Data. Take time component of order date and time for Genesis data and convert to character format (HH:MM).
Referring Clinic MEPRS Code	$4	cln	refer from loc_meprs cd	No transformation
Order Number	$12	ordnum	order_sk	No transformation
Referral Start Date	8	begdate	requested_start_dt_tm	No transformation for CHCS data. Take date component of requested start date and time for Genesis data and convert to character format (format as YYYYMMDD).
Referral End Date	8	enddate	N/A	No transformation. YYYYMMDD
Number of Visits Authorized	2	visits	N/A	No transformation. Enable aggregation.
Access to Care Category	$1	atc_cat	N/A	No transformation
Referred to MEPRS Code	$4	poc	refer_to_loc_meprs_cd	This value may be shown as the first 3 characters of the clinic MEPRS code for MTFs that have not transitioned to MHS Genesis.
Referring provider ID	$14	ref_prov	refer_from_prov	Set length to 14 in M2, but feed will only contain 9 characters initially.
MEPRS4 Code of Referring Provider	$4	refbyprv_meprs	N/A	No transformation
Refusal Reason	$2	refusrsn	N/A	No transformation
Refusal Status	$1	refusstat	N/A	No transformation
Requested Appointment Type	$11	req_appttype	N/A	No transformation. Hidden field.
Appointment Type	$10	appttype	refer_to_appt_type_legacy	No transformation.
Associated Record ID	$10	apptien	sch_appt_sk_sea	No transformation
Referring NPI, Type 1	$10	TBD	refer_from_prov_npi	No transformation. Hidden field.
Referring NPI, Type2	$10	TBD	N/A	No transformation. Hidden field.
Referring Service Line	$2	N/A	refer_from_sl	Field set to blank

M2 Name	Format	SAS Name from CHCS file	SAS Name from Genesis file	Processing Rule/Comments
Appointment Date	YYYYMMDD	apptdt	refer_to_appt_dt_tm	No transformation for CHCS data. Take date component of appointment date and time for Genesis data and convert to character format (YYYYMMDD).
Date Appointment Made	$8	apptmddt	refer_to_appt_made_dt_tm	No transformation. YYYYMMDD format.
UIN	$17	UIN	order_sk	No transformation.
Network Referral Indicator	$1	ref_to_mcsc	net_ref	No transformation.
Appointment Request Status	$28	apptreqstat	N/A	No transformation.
Enrollment Group	$3	enr_grp	enr_grp	No transformation
Eligibility Group	$3	elg_grp	elg_grp	No transformation
Enrollment PCM Type	$1	pcm_type	pcm_type	No transformation
Beneficiary T17 Region	$2	ben_reg_t17	ben_t17_reg	No transformation.
Beneficiary T3 Region	$2	ben_reg_t3	ben_t3_reg	No transformation; HIDE field
Enrollment Site T17 Region	$2	enr_reg_t17	enr_t17_reg	No transformation.
Enrollment Site T3 Region	$2	enr_reg_t3	enr_t3_reg	No transformation; HIDE field
Referring DMIS ID T3 Region	$2	ref_mtf_t3	mtf_t3_reg	No transformation; HIDE field
Referring DMIS ID T17 Region	$2	ref_mtf_t17	mtf_t17_reg	No transformation.
ACV Group	$15	acvgroup	acvgroup	No transformation in M2. In MDR, when preparing the M2 feed map PR to Prime, DP to Desig Prov, OP to Overseas Remote, PL to Plus, O to Other and R to Reliant
Age Group	$1	agrgrp	agegrp	No transformation
Referring EDIPN	$10	N/A	refer_from_prov_edipn	No transformation. Visible only in the restricted universe
Date of Birth	$8	patdob	patdob	Format as YYYYMMDD
Referring Encounter Type GENESIS	$30	N/A	enc_type_enc	No transformation
Encounter Type GENESIS	$30	N/A	refer_to_enc_type	No transformation
FIN GENESIS	$40	N/A	financial_nbr	No transformation
Referred to Appointment FIN GENESIS	$40	N/A	refer_to_financial_nbr	No transformation
Referred to PowerInsight Encounter ID GENESIS	8	N/A	refer_to_encounter_key	No transformation
Referred to Millennium EncounterID GENESIS	$10	N/A	refer_to_encounter_sk	No transformation
Gender	$1	patsex	gender	No transformation
HCDP – Assigned	$3	hcdp_assgn	hcdp_assign	No transformation
Medicare Eligibility	$1	medicare_fl	medicare_flag	No transformation
MRN GENESIS	$20	N/A	mrn	No transformation
Genesis Flag	$1	N/A	N/A	Set to 1 if record is from MHS Genesis, Else set to 0.
Appointment Status GENESIS	$20	N/A	refer_to_appt_stat	No transformation

M2 Name	Format	SAS Name from CHCS file	SAS Name from Genesis file	Processing Rule/Comments
Appointment Type GENESIS	$15	N/A	refer_to_appt_type	No transformation
Referring Unit Location	$60	N/A	refer_from_loc_unit_display	No transformation
Referred to Nurse Unit Loc Code GENESIS	$60	N/A	refer_to_loc_unit_display	No transformation
CY	$4	cy	cy	No transformation
CM	$2	cm	cm	No transformation
Medical Service GENESIS	$40	N/A	medical_service_enc	No transformation
Order Status GENESIS	$24	N/A	last_order_status_o	No transformation
Referred to Service Line	$2	N/A	refer_to_sl	Field set to blank
Refer to Specialty GENESIS	$40	N/A	refer_to_specialty_od	No transformation
Orderable Mnemomic GENESIS (formerly Activity Type)	$30	N/A	orderable_mnemonic (formerly activity_type)	No transformation
Completed Date	YYYYMM DD	N/A	completed_dt_tm	Take date component of completed date and time for Genesis data and convert to character format (YYYYMMDD).
Completed Time	$5	N/A	completed_dt_tm	Take time component of completed date and time for Genesis data and convert to character format (HH:MM)
Defer to Network Reason	$40	N/A	defer_to_network_reason_o d	No transformation
Pseudo MRN	$20	N/A	TBD	No transformation
Clinical Priority	$20	priority	priority	Transform to all upper case
Medical Service	$40	med_svc	med_service_enc	No transformation
Provider Name	$61	refbyprv_name	prov_full_name_o	No transformation
Refer to Service Line	$5	refer_to_svc_line	refer_to_sl	No transformation
Refer from Service Line	$5	refer_from_svc_line	refer_from_sl	No transformation
PCM Name	$60	pcm_name	pcm_name	No transformation
PCM NPI	$10	pcm_npi	pcm_npi	No transformation
Beneficiary T5 Region	$2	ben_reg_t5	ben_t5_reg	No transformation.
Enrollment Site T5 Region	$2	enr_reg_t5	enr_t5_reg	No transformation.
Referring DMIS ID T5 Region	$2	ref_mtf_t5	mtf_t5_reg	No transformation.

Table 2: M2 Derived Fields

M2 Data Element	Processing Rule/Comments
Psuedo Person ID	Encrypted version of person ID
Pseudo Sponsor ID	Encrypted version of sponsor ID
Number of Referrals	Count of rows retrieved in a query
Catchment Area Base Market Code	See DMIS ID Specification for Business Rules
Catchment Area Command	See DMIS ID Specification for Business Rules
Catchment Area Expanded Market Code	See DMIS ID Specification for Business Rules
Catchment Area Market Name	See DMIS ID Specification for Business Rules
Catchment Area Military Service	See DMIS ID Specification for Business Rules
Catchment Area MSMA	See DMIS ID Specification for Business Rules
Catchment Area Name	See DMIS ID Specification for Business Rules
Catchment Area Readiness Service	See DMIS ID Specification for Business Rules
Catchment Area Readiness CMD	See DMIS ID Specification for Business Rules
Catchment Area Reporting Market Code	See DMIS ID Specification for Business Rules
Catchment Area Reporting Market Name	See DMIS ID Specification for Business Rules
Catchment Area Type of Market Code	See DMIS ID Specification for Business Rules
Catchment Area Type of Market Name	See DMIS ID Specification for Business Rules
Enrollment Site Base Market Code	See DMIS ID Specification for Business Rules
Enrollment Site Command	See DMIS ID Specification for Business Rules
Enrollment Site DHP Code	See DMIS ID Specification for Business Rules
Enrollment Site Expanded Market Code	See DMIS ID Specification for Business Rules
Enrollment Site Financial Parent	See DMIS ID Specification for Business Rules
Enrollment Site Financial Parent Name	See DMIS ID Specification for Business Rules
Enrollment Site Market Name	See DMIS ID Specification for Business Rules
Enrollment Site Military Service	See DMIS ID Specification for Business Rules
Enrollment Site MSMA	See DMIS ID Specification for Business Rules
Enrollment Site Name	See DMIS ID Specification for Business Rules
Enrollment Site Parent	See DMIS ID Specification for Business Rules
Enrollment Site Parent Name	See DMIS ID Specification for Business Rules
Enrollment Site Readiness CMD	See DMIS ID Specification for Business Rules
Enrollment Site Readiness Parent	See DMIS ID Specification for Business Rules
Enrollment Site Readiness Service	See DMIS ID Specification for Business Rules
Enrollment Site Reporting Market Code	See DMIS ID Specification for Business Rules
Enrollment Site Reporting Market Name	See DMIS ID Specification for Business Rules
Enrollment Site Type of Market Code	See DMIS ID Specification for Business Rules
Enrollment Site Type of Market Name	See DMIS ID Specification for Business Rules
MTF Service Area Name	See DMIS ID Specification for Business Rules
MTF Service Area Reporting Market Code	See DMIS ID Specification for Business Rules
MTF Service Area Expanded Market Code	See DMIS ID Specification for Business Rules

M2 Data Element	Processing Rule/Comments
MTF Service Area Base Market Code	See DMIS ID Specification for Business Rules
MTF Service Area Type of Market Code	See DMIS ID Specification for Business Rules
PRISM Area Base Market Code	See DMIS ID Specification for Business Rules
PRISM Area Command	See DMIS ID Specification for Business Rules
PRISM Area Expanded Market Code	See DMIS ID Specification for Business Rules
PRISM Area Market Name	See DMIS ID Specification for Business Rules
PRISM Area Military Service	See DMIS ID Specification for Business Rules
PRISM Area MSMA	See DMIS ID Specification for Business Rules
PRISM Area Name	See DMIS ID Specification for Business Rules
PRISM Area Readiness CMD	See DMIS ID Specification for Business Rules
PRISM Area Readiness Service	See DMIS ID Specification for Business Rules
PRISM Area Reporting Market Code	See DMIS ID Specification for Business Rules
PRISM Area Reporting Market Name	See DMIS ID Specification for Business Rules
PRISM Area Type of Market Code	See DMIS ID Specification for Business Rules
PRISM Area Type of Market Name	See DMIS ID Specification for Business Rules
Beneficiary Name	Restricted Universe Only. Concatenate first name and last name.
Beneficiary Last Name	Restricted Universe Only. From M2 MPI file merge by person ID
Beneficiary First Name	Restricted Universe Only. From M2 MPI file merge by person ID
Number of Appointment Referrals	Set to the row count when the appointment ID number is not null.
MEPRS3 Code of Referring Provider	Substring the 1st three characters of MEPRS4 code of referring provider
MEPRS2 Code of Referring Provider	Substring the 1st two characters of MEPRS4 code of referring provider
MEPRS1 Code of Referring Provider	Substring the 1st character of MEPRS4 code of referring provider
MEPRS2 Code Referred To	Substring the 1st two characters of MEPRS4 code referred to
MEPRS3 Code Referred To	Substring the 1st three characters of MEPRS4 code referred to
MEPRS1 Code Referred To	Substring the 1st character of MEPRS4 code referred to
Referring Clinic (MEPRS3 Code)	Substring the 1st three characters of referring clinic (MEPRS4 Code)
Referring Clinic (MEPRS2 Code)	Substring the 1st two characters of referring clinic (MEPRS4 Code)
Referring Clinic (MEPRS1 Code)	Substring the 1st character of referring clinic (MEPRS4 Code)
Ever Deployed Flag (OCO)	Match to CTS by pseudo person ID if the referral date is between the CTS begin and end dates. If no match, set to N, else set to Y.
OCO Deployed Flag	Match to CTS by pseudo person ID if the referral date is between the CTS begin and end dates. If Deployment Record Flag = "D", set to 'Y'; else (including if no matching record) set to 'N'.
Days Since Most Recent OCO Depl (Dimension)	Match to CTS by pseudo person ID if the referral date is between the CTS begin and end dates. If Deployment Record Flag = 'D' then set to 0. If Deployment Record Flag = "B" set to referral date – CTS begin date. If no matching record set to 0.
Days Since Return from OCO Depl (Measure)	Match to CTS by pseudo person ID if the referral date is between the CTS begin and end dates. If Deployment Record Flag = 'D' then set to 0. If Deployment Record Flag = "B" set to referral date – CTS begin date. If no matching record set to 0.

M2 Data Element	Processing Rule/Comments
Cumulative OCO Days	Match to CTS by pseudo person ID if the referral date is between the CTS begin and end dates. If Deployment Record Flag = "D" and Cumulative OCO Deployed Days is null then set to referral date – CTS Begin Date; Else if Deployment Record Flag = "D" then set to Cumulative OCO Days Deployed + (referral Date – CTS Begin Date); Else if Deployment Record Flag = "B" then set to Cumulative OCO Days Deployed; If no matching record, set to null.
Referring DMIS ID Name	See DMIS ID Specification for Business Rules
Referring DMIS ID Command	See DMIS ID Specification for Business Rules
Referring DMIS ID DHP Code	See DMIS ID Specification for Business Rules
Referring DMIS ID Military Service	See DMIS ID Specification for Business Rules
Referring DMIS ID MSMA	See DMIS ID Specification for Business Rules
Referring DMIS ID Parent	See DMIS ID Specification for Business Rules
Referring DMIS ID Parent Name	See DMIS ID Specification for Business Rules
Referring DMIS ID Readiness CMD	See DMIS ID Specification for Business Rules
Referring DMIS ID Readiness Service	See DMIS ID Specification for Business Rules
Referring DMIS ID Readiness Parent	See DMIS ID Specification for Business Rules
Referring DMIS ID Base Market Code	See DMIS ID Specification for Business Rules
Referring DMIS ID Expanded Market Code	See DMIS ID Specification for Business Rules
Referring DMIS ID Market Name	See DMIS ID Specification for Business Rules
Referring DMIS ID Reporting Market Code	See DMIS ID Specification for Business Rules
Referring DMIS ID Reporting Market Name	See DMIS ID Specification for Business Rules
Referring DMIS ID Type of Market Code	See DMIS ID Specification for Business Rules
Referring DMIS ID Financial Parent	See DMIS ID Specification for Business Rules
Referring DMIS ID Financial Parent Name	See DMIS ID Specification for Business Rules
Referring DMIS ID Readiness Command	See DMIS ID Specification for Business Rules
Case Manager ID 1	Match to the Case Management File by pseudo person ID and fill with the required data element if the referral data is between the begin and end date of the reported care management record. See Case Management Spec for more information
Case Manager ID 2	Match to the Case Management File by pseudo person ID and fill with the required data element if the referral data is between the begin and end date of the reported care management record. See Case Management Spec for more information
Case Manager ID 3	Match to the Case Management File by pseudo person ID and fill with the required data element if the referral data is between the begin and end date of the reported care management record. See Case Management Spec for more information
Case Management DMISID	Match to the Case Management File by pseudo person ID and fill with the required data element if the referral data is between the begin and end date of the reported care management record. See Case Management Spec for more information
Case Management Acuity Level	Match to the Case Management File by pseudo person ID and fill with the required data element if the referral data is between the begin and end date of the reported care management record. See Case Management Spec for more information
Beneficiary Category Description	From bencat description table. This should be a detail object.

Table 3: File Layout and Transformation Rules for M2 "Delete" Feed

Variable Name	SAS Name from CHCS File	SAS Name from Genesis File	Format	M2 Derivation
Record ID	refnum	Order_sk	$11	No transformation.
Referring Host DMISID	chcshost	N/A	$4	No transformation for CHCS data. Set to "GEN " for Genesis data.

VIII. **Refresh Frequency**

Frequency of updates: Weekly

IX. **Quality Review**

Routine operating procedures should involve performing quality review, both in the preparation of the M2 feed and in the loading of the M2 file. A minimum set of quality review requirements are described below. DHSS is encouraged to perform additional quality review.

- Except for the first load of M2, there should always be a delete file.
- The first 10 records of both the add file and the delete file should be visually inspected to ensure the layout conforms to the specification.
- Frequency tabulations should be prepared for Beneficiary Category, ACV, Access to Care Category, and other key variables. Differences in distributions of key variables should be discussed at bi-weekly operational meetings.
- The MDR will provide frequency tabulations in the transmittal notice with each update. These should be compared to frequency tabulations from M2 after applying the feed. There should be no discrepancies.
- The number of records deleted during monthly processing should match the record count in the delete file.
- The size of the Referral File should increase each month.
- The results of joins should be visually inspected. The M2 should be tested to ensure records are not lost in joins (at least initially).