**04 January 2021**

MHS Genesis Referral File

for the

MHS Data Repository (MDR)

(Version 2.00.00)

Future Specification

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Originator** | **Para/Tbl/Fig** | **Description of Change** |
| 1.00.00 | 08/24/2018 | Tracy Comer | * Initial Document
 | * Initial Document
 |
| 1.01.00 | 03/12/2019 | Tracy Comer | * VI
* Table 2
 | * Added TEDN file merge information
* Adjusted deletion criteria rules
* Numerous variable adjustments
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| 2.00.00 | 01/04/2021 | Tracy Comer | * VI
* Table 2
 | * Added Referral 2.0 file and Service Line format file
* Added Referral 2.0 data additions
 |

# MDR Genesis Referral File

1. Source:

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

1. Transmission (Format and Frequency)

TBD

1. Organization and Batching

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

Output products: SAS datasets containing all referral records where the order\_dt\_tm is in a fiscal year. The Referral files are stored at /mdr/pub/genesis/referral/fyxx.sas7bdat

1. Receiving Filters

Referral orders are identified within the Order table where the health\_system\_id=18635 and activity\_type\_ref in ('23274635' '23274637' '20460010') for internal, external, and ambulatory referrals respectively. All records were provided with the initial batch of data. Thereafter, new and changed records are sent each week.

1. Update Process

The primary key for the Referral table is the ORDER\_SK field. During the extraction of the raw order records, de-duplication of records, or anytime an order key collision occurs between incoming data and existing master data, the processor de-duplicates data by selecting the record with the most recent value of the update date/time (UPDT\_DT\_TM) for any multiple of records with the same primary key. Similar update processes are applied to the other raw data sets.

Once the raw data has been updated, the processor combines them as described here and assigns many other internally-derived variables as described in Table 2.

1. Field Transformations and Deletions for MDR Core Database

This section of this functional specification describes the data merges that are necessary to append fields in the MDR Genesis Referral file. Table 1 describes additional files that are used in processing.

| **Merge** | **Date Matching** | **Additional Matching** |
| --- | --- | --- |
| Code Value Outbound Reference |  | health\_system\_source\_id = 18635 and active\_ind = 1 |
| Order Detail |  | order\_sk |
| Raw Order Review |  | order\_sk |
| Schedule Event Attach |  | order\_sk |
| Encounter |  | encounter\_nk |
| Encounter History |  | encounter\_nk |
| MDR\_Appointment File |  | sch\_appointment\_sk |
| MDR Genesis Person File |  | person\_sk |
| MDR Genesis Location File |  | patient\_loc=location\_sk |
| MDR Genesis Personnel File |  | order\_doc\_prsnl=person\_sk |
| TEDN |  | uin (minus leading zeroes)=order\_sk or case\_number from Referral 2.0 file |
| Longitudinal VM6 (LVM6)  | order\_dt\_tm between the begin and end dates associated with the segment | EDIPN |
| Master Person Index (MPI) |  | edipn, ssn, gender\_r, dob\_r, last\_name, first\_name |
| OMNI CAD | Year and month of CAD = order date | patzip, sponsvc |
| DMIS ID Index | FY | MTF and denrsite (2 separate merges) |
| MHS GENESIS Referral 2.0 Report/mdr/genesis/aprod/referral/ discern\_ref/running.sas7bdat |  | dod\_id\_number=EDIPN and orig\_order\_id=order\_sk |
| MEPR3\_SL\_fmt.txt file /mdr/genesis/aprod/util |  | meprs\_cd |

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

* Records where the test\_person\_ind is either 1 or blank in the MDR Genesis Person File.
* Records where any of the test\_personnel\_ind fields is either 1 or blank in the MDR Genesis Personnel File.
* Records where the test\_location\_ind=1 in the MDR Genesis Location File.

Business rules for each of the appended fields are described in the body of the format table in Section VII.

1. File Layout

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

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

| **Field** | **Format** | **SAS Name** | **Source Element** | **Transformation** |
| --- | --- | --- | --- | --- |
| Health System ID | 8 | health\_system\_id | health\_system\_id | No transformation |
| Order Key | 8 | order\_key | order\_key | No transformation |
| Order Number | $100  | order\_sk | order\_sk | No transformation |
| Parent Order Number | $100 | parent\_order\_sk | parent\_order\_sk | No transformation |
| Person ID  | $100  | person\_sk | person\_sk | No transformation |
| Record ID | $100  | encounter\_nk | encounter\_nk | No transformation |
| Record Key | 8 | encounter\_key | encounter\_key | No transformation |
| Referral Date/Time  | DATE/TIME | order\_dt\_tm | order\_dt\_tm | Converted to local date time. Order\_dt\_tm\_utc reflects the dt tm in the MHS Genesis bulk data extract. |
| Referral Date/Time (UTC) | DATE/TIME | order\_dt\_tm\_utc | order\_dt\_tm | No transformation. |
| Orderable Mnemonic | $255 | orderable\_mnemonic | orderable\_mnemonic | No transformation |
| Referral Start Date  | DATE/TIME | requested\_start\_dt\_tm | requested\_start\_dt\_tm | Derive actual date and convert time to local time. Referral\_start\_dt\_tm\_utc reflects the dt tm in the MHS Genesis bulk data extract. |
| Referral Start Date (UTC) | DATE/TIME | requested\_start\_dt\_tm\_utc | requested\_start\_dt\_tm | No transformation. |
| Referral Priority | $40  | priority | priority | Apply format to priority\_ref variable for code set '1304' |
| Activity Type | $100 | activity\_type | activity\_type\_ref | Apply format for code set ‘106’ |
| Orderable Display | $100 | orderable\_disp | orderable\_disp | No transformation |
| Department Status | $20 | dept\_status\_def | dept\_status\_ref | Apply format to dept\_status\_ref variable for code set ‘14281’ |
| Clinical Display Line | $255 | clinical\_display\_line | clinical\_display\_line | No transformation. |
| Catalog Type Reference | $40 | catalog\_type | catalog\_type\_ref | Apply format to catalog\_type\_ref variable for code set ‘6000’ |
| Referring from Location Reference (o) | $40  | refer\_from\_loc\_o | patient\_loc | No transformation.  |
| Referral Status (o) | $40  | last\_order\_status\_o | last\_order\_status\_ref | Apply format for code set '6004' |
| Canceled Reason | $100  | canceled\_reason | canceled\_reason\_ref | Apply code set '1309' to canceled\_reason\_ref. If canceled\_reason\_ref=0 then cancelled\_reason is null. |
| Discontinue Reason | $100  | discontinue\_reason | discontinue\_reason\_ref | Apply code set '1309' to discontinue\_reason\_ref. If discontinue\_reason\_ref=0, then discontinue\_reason is null. |
| Cancelled Date/Time | DATE/TIME | canceled\_dt\_tm | canceled\_dt\_tm | Converted to local date time. |
| Discontinue Date/Time | DATE/TIME | discontinue\_dt\_tm | discontinue\_dt\_tm | Converted to local date time.  |
| Completed Date/Time | DATE/TIME | completed\_dt\_tm | completed\_dt\_tm | Converted to local date time.  |
| Update Date/ Time | DATE/TIME | updt\_dt\_tm\_utc | updt\_dt\_tm | No transformation |
| Extract Date/ Time | DATE/TIME | extract\_dt\_tm\_utc | extract\_dt\_tm | No transformation |
| Frequency Type Flag | 8 | freq\_type\_flg | freq\_type\_flg | No transformation0 - None1 - Time of Day2 - Day of Week3 - interval4 - One Time5 - Unscheduled  |
| Referring from Provider Reference (o) | $100 | order\_doc\_prsnl | order\_doc\_prsnl | No transformation; should equal refer\_from\_prov field. |
| Last Action Sequence | 8 | last\_action\_sequence | last\_action\_sequence | No transformation |
| **Fields from MHS Genesis Person File** |
| Person EDIPN | $10 | edipn | N/A | edipn where person\_sk of Order file=person\_sk of Person file |
| SSN | $9 | ssn | N/A | ssn. If the MPI merge results in a different SSN for this EDIPN, fill with the SSN from the MPI. |
| First Name | $100 | first\_name | N/A | first\_name |
| Last Name | $100 | last\_name | N/A | last\_name |
| MRN | $40 | mrn | N/A | Mrn |
| IPI | $10 | ipi | N/A | Ipi |
| Gender of Record | $10 | gender\_r | N/A | Gender |
| Date and Time of Birth of Record | Date/Time | dob\_r | N/A | Dob |
| Race of Record | $41 | race\_r | N/A | Race |
| Ethnic Group of Record | $1 | ethnic\_r | N/A | Ethnic |
| ZIP Code of Record | $25 | patzip\_r | N/A | Zip |
| Marital Status of Record | $20 | marital\_r | N/A | Marital |
| Test Person Indicator | $1 | test\_person\_ind | N/A | Return test\_record\_indicator value where there is match on person\_sk |
| **Fields from the MDR Genesis Location File** |
| Referring from Clinic Name  | $100  | refer\_from\_loc\_unit\_name | N/A | Return unit\_name where the refer\_from\_loc=location\_sk |
|  |  |  |  |  |
| Referring from Clinic (MEPRS 4 Code) | $4  | refer\_from\_loc\_meprs\_cd | N/A | Return meprs\_cd where the refer\_from\_loc=location\_sk |
| Referring from Parent DMIS ID | $4  | refer\_from\_loc\_mtf\_parent | N/A | Return the mtf\_parent\_rec where the refer\_from\_loc=location\_sk |
| Referring from Genesis Begin Date | MMDDYY10. | refer\_from\_loc\_gen\_begin\_dt | N/A | Return the gen\_begin\_dt where the refer\_from\_loc=location\_sk |
| Referring from Clinic Active Indicator | 8 | refer\_from\_loc\_active\_ind | N/A | Return the active\_ind where the refer\_from\_loc=location\_sk |
| Referring to Clinic Name | $100  | refer\_to\_loc\_unit\_name | N/A | Return unit name where the refer\_to\_loc=location\_sk  |
| Referring to Clinic Display | $45  | refer\_to\_loc\_unit\_display | N/A | Return unit display where the refer\_to\_loc=location\_sk  |
| Referring from Test Location Indicator | $1  | refer\_from loc\_test\_flag | N/A | Return test\_location\_ind where the refer\_from\_loc =location\_sk.  |
| Referring to Test Location Indicator | $1  | refer\_to\_ loc\_test\_flag | N/A | Return test\_location\_ind where the refer\_to\_loc=location\_sk.  |
| Referring to Clinic Active Indicator | 8 | refer\_to\_loc\_active\_ind | N/A | Return the active\_ind where the refer\_to\_loc=location\_sk |
| **Fields from the MDR Genesis Personnel File** |
| Referring from provider Skill Type | $1  | refer\_from\_prov\_st | N/A | Return the skill\_type where refer\_from\_prov=person\_sk. |
| Referring from provider Skill Type Suffix | $1  | refer\_from\_prov\_stsuff | N/A | Return the skill\_type\_suffix where refer\_from\_prov =person\_sk.  |
| Referring from provider EDI\_PN | $10  | refer\_from\_prov\_edipn | N/A | Return the prsnl\_edipn where refer\_from\_prov=person\_sk. |
| Referring from provider NPI | $100  | refer\_from\_prov\_npi | N/A | Return the npi where refer\_from\_prov =person\_sk. |
| Referring from physician Ind | 8 | refer\_from\_prov\_phys\_ind | N/A | Return the physician\_ind where refer\_from\_prov=person\_sk.  |
| Referring from physician's assigned MTF | $4  | refer\_from\_prov\_assig\_dmisid | N/A | Return the assig\_dmisid where refer\_from\_prov=person\_sk. |
| Referring from physician's people group | $4  | refer\_from\_prov\_pg\_dmisid | N/A | Return the pg\_dmisid where refer\_from\_prov=person\_sk.  |
| Referring to provider Skill Type | $1  | refer\_to\_prov\_st | N/A | Return the skill\_type where refer\_to\_prov=person\_sk. |
| Referring to provider Skill Type Suffix | $1  | refer\_to\_prov\_stsuff | N/A | Return the skill\_type\_suffix where refer\_to\_prov =person\_sk.  |
| Referring to physician Ind | 8 | refer\_to\_prov\_phys\_ind | N/A | Return the physician\_ind where refer\_to\_prov=person\_sk.  |
| Referring to physician's assigned MTF | $4  | refer\_to\_prov\_assig\_dmisid | N/A | Return the assig\_dmisid where refer\_to\_prov=person\_sk. |
| Referring to physician's people group | $4  | refer\_to\_prov\_pg\_dmisid\_o | N/A | Return the pg\_dmisid where refer\_to\_prov=person\_sk.  |
| Referring to Personnel Test Indicator | $1  | refer\_to\_prov\_test\_flag | N/A | Return the test\_record\_ind where refer\_to\_prov=person\_sk. |
| **Fields from the MDR Appointment File** |
| Refer to Encounter Class | $40 | refer\_to\_encounter\_class | N/A | Return encounter\_class from Appointment file where sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file.  |
| Refer to Encounter Type | $40 | refer\_to\_enc\_type | N/A | Return encounter\_type from Appointment file where sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Encounter PI-EDW Key | 8 | refer\_to\_encounter\_key | N/A | Return the encounter\_key where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Encounter Key | $100 | refer\_to\_encounter\_sk | N/A | Return the encounter\_sk where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Appointment Status | $40  | refer\_to\_appt\_stat | N/A | Return the appt\_stat where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Appointment Legacy Status | $2 | refer\_to\_appt\_stat\_legacy | N/A | Return the appt\_stat\_legacy where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Appointment Date | DATE/TIME | refer\_to\_ appt\_dt\_tm | N/A | Return the appt\_dt\_tm where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Financial Number | $40 | refer\_to\_financial\_nbr | N/A | Return the fin where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Appointment Type | $16 | refer\_to\_appt\_type | N/A | Return the appt\_type where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Appointment Made Date Time  | DATE/TIME | refer\_to appt\_made\_dt\_tm | N/A | Return the appt\_made\_dt\_tm where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file |
| Refer to Appointment Legacy Type | $6 | refer\_to\_appt\_type\_legacy | N/A | Return the appt\_type\_legacy where the sch\_appt\_sk\_sea =sch\_appointment\_sk OR where the datepart of the appointment date, patient edipn, and scheduled\_loc\_txt (appointment location) match those in the Referral 2.0 file  |
| **Fields from the Sch Event Attach (SEA) File** |
| Referring to Appointment Identifier | $100 | sch\_appt\_sk\_sea | N/A | Return sch\_appointment\_sk for record where order\_sk\_final match |
| Description | $100 | description\_sea | N/A | Return description value for record where sch\_appointment\_sk matches the order\_sk\_final  |
| **Fields from the Order Detail File** |
| Referral Reason | $100 | reason\_for\_refer\_od | N/A | Return order\_detail\_freetext\_value when health\_system\_source\_id=18635, order\_sk=order\_sk of the record and orderable\_detail\_sk='23290426' |
| Referral Disposition | $40 | referral\_process\_disp\_od | N/A | Return order\_detail\_freetext\_value when health\_system\_source\_id=18635, order\_sk=order\_sk of the record and orderable\_detail\_sk='112301083’ |
| Defer to Network (od) | $40 | defer\_to\_network\_od | N/A | Return order\_detail\_freetext\_value when health\_system\_source\_id=18635, order\_sk=order\_sk of the record and orderable\_detail\_sk='109968275’ |
| Order Location (od) | $40 | refer\_from\_loc\_od | N/A | Return order\_detail\_value when health\_system\_source\_id=18635, order\_sk=order\_sk of the record and orderable\_detail\_sk='12620’ |
| **Fields from the Raw Order Review File** |
| Reject\_Reason | $100 | reject\_reason | N/A | Apply code set '14245' to reject\_reason\_ref where order\_sk match. If reject\_reason\_ref is blank or 0, then, reject\_reason is null. |
| **Fields from the Encounter File** |
| Encounter Number | $100 | encounter\_sk | N/A | Return encounter\_sk from encounter record where encounter\_nk= encounter\_nk in Order file |
| Financial Number | $40 | financial\_nbr | N/A | Return financial\_nbr from encounter record where encounter\_nk= encounter\_nk in Order file |
| Financial Number Raw | $40 | financial\_nbr\_raw | N/A | Return financial\_nbr\_raw from encounter record where encounter\_nk= encounter\_nk in Order file |
| Admission Location | $40 | admit\_loc\_enc | N/A | Return admit\_loc from encounter record where encounter\_nk= encounter\_nk in Order file |
| Encounter Type Class | $40 | enc\_type\_enc | N/A | Return encounter\_type\_class\_ref where encounter\_nk= encounter\_nk in Order file |
| Medical Service | $40 | med\_service\_enc | N/A | Return medical\_service\_ref where encounter\_nk= encounter\_nk in Order file |
| Patient Type | $40 | pt\_type\_enc | N/A | Return patient\_type\_ref from encounter record where encounter\_nk= encounter\_nk in Order file |
| **Fields from the Encounter Personnel Relation File** |
| Refer from Encounter Personnel Type | $40 | refer\_from\_prov\_enc\_prsnl\_type | N/A | Return personnel type where encounter\_nk on encounter personnel file equals encounter\_nk on order file and refer\_from\_prov=provider id on personnel file  |
| **Fields from the Encounter History File** |
| Referral to Medical Service | $40 | medsvc\_final\_eh | N/A | Return medical\_service\_ref with code set ‘34’ applied where latest transaction\_dt\_tm and encounter\_nk=encounter\_nk of order file |
| Admission Type | $40 | admit\_type\_final\_eh | N/A | Return admit\_type\_ref with code set ‘3’ applied where latest transaction\_dt\_tm and encounter\_nk=encounter\_nk of order file |
| Final Encounter Location | $40 | loc\_final\_eh | N/A | Return encounter\_loc where latest transaction\_dt\_tm and encounter\_nk=encounter\_nk of order file |
| **Fields from the TEDN File** |
| UIN | $17 | tedn\_uin | N/A | Return UIN for record where order\_sk=uin or case\_number= uin after the UINs leading zeroes have been removed |
| **Fields from the MPI** |
| Sponsor SSN | $9 | sponssn | N/A | If a record is found in the MPI with matching EDIPN or Patient SSN, fill with the Sponsor SSN from the MPI. |
| Person Association Reason Code | $2 | parc | N/A | If a record is found in the MPI with matching EDIPN or Patient SSN, fill with the PARC for the relationship between this patient and the sponsor on that record. |
| **Fields from the LVM6** |
| Gender | $1 | gender | N/A | Fill with gender associated with this EDIPN. If not found and gender\_r = F or M, set to gender\_r. |
| Date of Birth | SAS Date | patdob | N/A | Fill with date of birth associated with this EDIPN |
| DEERS Sponsor Service Aggregate | $1  | sponsvc | N/A | Fill with sponsvc code if the order\_date is between the begin and end date associated with the enrollment record.  |
| DEERS Health Care Delivery Program Code – Enrolled | $3  | hcdp | N/A | Fill with enrollment HCDP code if the order\_date is between the begin and end date associated with the enrollment HCDP code.  |
| DEERS Alternate Care Value | $1  | acv | N/A | Fill with acv if the order\_date is between the begin and end date associated with the enrollment record.  |
| ACV Group | $15 | acvgroup | N/A | Derived from ACV and comben (before 1/1/18) or enrollment group, PCM type, eligibility group, and comben (after 1/1/18). If there is no match for this patient in the LVM, set to O. See VM6 Specification, section G.3 for derivation. |
| DEERS Enrollment DMIS ID | $4  | denrsite | N/A | Fill with denrsite if the order\_date is between the begin and end date associated with the enrollment record.  |
| DEERS Beneficiary Category | $3  | bencat | N/A | Fill with bencat if the order\_date is between the begin and end date associated with the enrollment record.  |
| DEERS Common Beneficiary Category | $1  | comben | N/A | Fill with comben if the order\_date is between the begin and end date associated with the enrollment record.  |
| Marital Status | $1. | marital | N/A | Fill with Marital Status if the begin date on the appointment record is between the begin and end date associated with the Marital Status. See VM6 Specification, Exhibits G-18 and 19 for segment and field positions. |
| Race | $1. | race | N/A | Fill with race associated with this EDIPN. If there is no match for this patient in the LVM, set to Z. |
| Ethnic Group | $1. | ethnic | N/A | Fill with ethnicity associated with this EDIPN. . If there is no match for this patient in the LVM, set to Z. |
| DEERS Zip Code | $5  | patzip | N/A | Fill with patzip if the order\_date is between the begin and end date associated with the enrollment record.  |
| Enrollment Group | $1  | enr\_grp | N/A | Fill with enr\_grp if the order\_date is between the begin and end date associated with the enrollment record.  |
| Eligibility Group | $1  | elg\_grp | N/A | Fill with elg\_grp if the order\_date is between the begin and end date associated with the enrollment record.  |
| PCM ID | $18 | pcmid | N/A | Fill with PCM ID if the begin date on the referral record is between the begin and end dates associated with the PCM ID. See VM6 Specification, Exhibits G-18 and 19 for segment and field positions. |
| PCM Type | $1 | pcm\_type | N/A | Fill with Enrollment PCM Type if the begin date on the appointment record is between the begin and end date associated with the Enrollment PCM Type. If the appointment date is on or after 1/1/18 and the appointment date is outside of the dates associated with the Enrollment Group, or there is no match for this patient in the LVM, set to Z. If the appointment date is before 1/1/18, set to blank. See VM6 Specification, Exhibit G-19 for segment and field positions.  |
| Medicare Eligibility Flag | $1 | medicare\_flag | N/A | Fill with Medicare Eligibility Code if the begin date on the appointment record is between the begin and end date associated with the Medicare Eligibility Code. If the appointment date is outside of the dates associated with the Medicare Flag, or there is no match for this patient in the LVM, set to N. See VM6 Specification, Exhibits G-18 and 19 for segment and field positions. |
| Privilege Code | $1 | privilege | N/A | Fill with Medical Privilege Code if the begin date on the appointment record is between the begin and end date associated with the Medical Privilege Code. If the appointment date is outside of the dates associated with the Privilege Code, or there is no match for this patient in the LVM, set to 9. See VM6 Specification, Exhibits G-18 and 19 for segment and field positions. |
| HCDP - Assigned | $3  | hcdp\_assgn | N/A | Fill with hcdp-assgn if the order\_date is between the begin and end date associated with the enrollment record.  |
| **Fields from the DMIS ID Index Table (merging by refer\_from\_loc\_mtf)** |
| Treatment Service | $1 | txsvc | N/A | After matching on FY and refer\_from\_loc\_mtf, set to ubu\_svc |
| Treatment Parent DMIS ID | $4 | mtf\_parent | N/A | After matching on FY and refer\_from\_loc\_mtf, set to ubu\_par |
| Treatment T3 Region | $2 | mtf\_t3\_reg | N/A | After matching on FY and refer\_from\_loc\_mtf, set to t3\_reg |
| Treatment T17 Region | $2 | mtf\_t17\_reg | N/A | After matching on FY and refer\_from\_loc\_mtf, set to t17\_reg |
| Treatment Major Command | $8 | txcmnd | N/A | After matching on FY and refer\_from\_loc\_mtf, set to majcmnd |
| Treatment MSM Area ID | $3 | txmsma | N/A | After matching on FY and refer\_from\_loc\_mtf, set to msm\_id |
| **Fields from the DMIS ID Index Table (merging by denrsite)** |
| Enrollment Service | $1 | enrsvc | N/A | After matching on FY and denrsite, set to ubu\_svc |
| Enrollment Site Parent DMIS ID | $4 | enr\_parent | N/A | After matching on FY and denrsite, set to ubu\_par |
| Enrollment T3 Region | $2 | enr\_t3\_reg | N/A | After matching on FY and denrsite, set to t3\_reg |
| Enrollment T17 Region | $2 | enr\_t17\_reg | N/A | After matching on FY and denrsite, set to t17\_reg |
| **Fields from the Omni-CAD** |
| Catchment Area ID | $4 | catch | N/A | Based on matching FY, FM and patzip; if sponsvc = A then set equal to AWORLD, if sponsvc = F then set equal to FWORLD; if sponsvc in (M, N, V) then set equal to NWORLD, otherwise set equal to OWORLD. If zip code not found in MDR Omni-CAD, set equal to ‘0999’  |
| PRISM Area ID | $4 | prism | N/A | Based on matching FY, FM and patzip; if sponsvc = A then set equal to APRISM, if sponsvc = F then set equal to FPRISM; if sponsvc in (M, N, V) then set equal to NPRISM, otherwise set equal to OPRISM. If zip code not found in MDR Omni-CAD, set equal to ‘0999’ |
| MTF Service Area ID | $4 | mtfsvcarea | N/A | Based on matching FY, FM and patzip; if sponsvc = A then set equal to ABPA, if sponsvc = F then set equal to FBPA; if sponsvc in (M, N, V) then set equal to NBPA, otherwise set equal to OPRISM. If zip code not found in MDR Omni-CAD, set equal to ‘0999’ |
| T3 Residence Region | $2 | ben\_t3\_reg | N/A | Based on matching FY, FM and patzip; Set equal to T3\_REG. If zip code not found in MDR Omni-CAD, leave blank. |
| T17 Residence Region | $2 | ben\_t17\_reg | N/A | Based on matching FY, FM and patzip; Set equal to T17\_REG. If zip code not found in MDR Omni-CAD, leave blank. |
| **MHS GENESIS Referral 2.0** |
| Case Number | $20 | case\_number | N/A | No transformation |
| Referral Type | $18 | referral\_type | N/A | No transformation |
| Referral Status | $18 | referral\_status | N/A | No transformation |
| Referral Sub Status | $37 | referral\_sub\_status | N/A | No transformation |
| Provisional Diagnosis | $40 | provisional\_diagnosis | N/A | No transformation |
| Defer Reason | $40 | defer\_to\_network\_reason | N/A | No transformation |
| **Internally Derived Fields** |
| Age Group | $1  | agegrp | N/A | If Patient Age is 0-4, set to A; if 5-14, B; if 18-24, C; if 25-34, D; if 35-44, F; if 45-64, G; if 65+, H; else X. |
| Resulting Appointed Referral Request Record ID | $100  | appt\_ref\_enc\_nk | N/A | Fill with the order date time of the Appointed Referral Request order that has a matching person identifier, referring provider identifier, refer\_to\_specialty equal to a Medical Referral Request order’s person and provider identifiers, and refer\_to\_specialty and the completed\_dt\_tm\_utc of the Medical Referral Request and order\_dt\_tm\_utc of the Appointed Request are within 2 minutes of each other. |
| Resulting Appointed Referral Request Last Order Status | $30  | appt\_ref\_last\_order\_status | N/A | Fill with the order date time of the Appointed Referral Request order that has a matching person identifier, referring provider identifier, refer\_to\_specialty equal to a Medical Referral Request order’s person and provider identifiers, and refer\_to\_specialty and the completed\_dt\_tm\_utc of the Medical Referral Request and order\_dt\_tm\_utc of the Appointed Request are within 2 minutes of each other. |
| Resulting Appointed Referral Request Date Time | 8 | appt\_ref\_order\_dt\_tm | N/A | Fill with the order date time of the Appointed Referral Request order that has a matching person identifier, referring provider identifier, refer\_to\_specialty equal to a Medical Referral Request order’s person and provider identifiers, and refer\_to\_specialty and the completed\_dt\_tm\_utc of the Medical Referral Request and order\_dt\_tm\_utc of the Appointed Request are within 2 minutes of each other. |
| Resulting Appointed Referral Request Order Number | $100  | appt\_ref\_order\_sk | N/A | Fill with the order date time of the Appointed Referral Request order that has a matching person identifier, referring provider identifier, refer\_to\_specialty equal to a Medical Referral Request order’s person and provider identifiers, and refer\_to\_specialty and the completed\_dt\_tm\_utc of the Medical Referral Request and order\_dt\_tm\_utc of the Appointed Request are within 2 minutes of each other. |
| Referral CM | $2  | cm | N/A | Calendar Month of order date |
| Referral CY | $4  | cy | N/A | Calendar Year of order date |
| Defer to Network Flag per Order Detail | 8 | defer\_to\_network\_flag\_od |  | If upcase(defer\_to\_network\_od) in (‘Y’, ‘YES’) |
| Defer to Network Reason | $40  | defer\_to\_network\_reason | N/A | Return order\_detail\_freetext\_value when health\_system\_source\_id=18635, order\_sk=order\_sk of the record and orderable\_detail\_sk='111915843’ OR return defer\_reason from Referral 2.0 file. |
| Referral Day of Week | 8 | dow | N/A | Day of Week of order date1=Sunday, 2=Monday, 3=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday |
| Referral FM | $2  | fm | N/A | Fiscal Month of order date |
| Referral FY | $4  | fy | N/A | Fiscal Year of order date |
| MTF Network Referral Flag | 8 | net\_ref | N/A | If the medical\_service of most recent\_transaction\_dt\_tm for an encounter\_nk's entries in the enc history table='109961805' (Defer to Network) or the record matches a tedn record (tedn\_mtch=1) or referral\_process\_disp\_od contains “defer to\_network or defer\_to\_network\_flag\_od=1 then 1 OR fill with the net\_ref value from the Referral 2.0 file. Else 0.  |
| Order\_sk used for Appointment Record Match | $100  | order\_sk\_final | N/A | If appt\_ref\_order\_sk, set equal to appt\_ref\_order\_sk. Else set to order\_sk. |
| Appointed Referral Request with no corresponding Medical Referral Request Flag  | $1  | orphan | N/A | If an Appointed Referral Request order\_sk does not equal an appt\_ref\_order\_sk then orphan is set to ‘N’ else set to ‘Y’ |
| Patient Age | 8 | patage | N/A | Age in years from date of birth (from DEERS) to appointment date. If date of birth from DEERS is not available, use dob\_r. |
| Referral Priority | $40  | priority | priority | Apply format to priority\_ref variable from the Order file for code set '1304' or fill with priority value from Referral 2.0 file. |
| Patient Refusal Date Time | DATE/TIME | pt\_refusal\_dt\_tm | N/A | If canceled\_reason\_ref='663921', return canceled\_dt\_tm in local time. If discontinue\_reason\_ref='663921', return local date time of discontinue\_dt\_tm based on order\_dt\_tm\_zn. Else pt\_refusal\_dt\_tm is null. |
| Referral from location | $40  | refer\_from\_loc | N/A | Final refer\_from\_loc. Use location from the Order Detail file if populated. Else if use the Order file if populated. Else use the admit location from the Encounter file. |
| Refer from Child DMISID | $4  | refer\_from\_loc\_mtf | N/A | Return the mtf from the Location file where the refer\_from\_loc=location\_sk OR return the refer\_from\_loc\_mtf from the Referral 2.0 file.  |
| Refer from Clinic Display | $45  | refer\_from\_loc\_unit\_display | N/A | Return unit\_display from the Location file where the refer\_from\_loc=location\_sk OR return the refer\_from\_unit\_display from the Referral 2.0 file. |
| Referral from provider | $40  | refer\_from\_prov |  | Final refer\_from\_provider. Use provider from the Order file.  |
| Referral from Service Line | $2  | refer\_from\_sl | N/A | Return service line value from the MEPRS3\_SL format file based on refer\_from\_loc\_meprs\_cd field |
| Referring to location | $40  | refer\_to\_loc | N/A | Final refer\_to\_loc. If location from the Schedule Event Attach file or the result of the Appointment file to Referral 2.0 file location is populated, use this. Else use the final encounter location for the encounter\_sk linked to the order\_sk\_final. Else use the Else leave blank.  |
| Referring to Clinic (MEPRS 4 Code) | $4  | refer\_to\_loc\_meprs\_cd | N/A | Return meprs\_cd from Location file where the refer\_to\_loc =location\_sk OR fill with the meprs\_cd from the appointment record merged to the Referral 2.0 file. |
| Referring to Clinic DMIS ID  | $4  | refer\_to\_loc\_mtf | N/A | Return the mtf from the Location file where the refer\_to\_loc =location\_sk OR fill with the mtf from the appointment record merged to the Referral 2.0 file. |
| Referring to Parent DMIS ID | $4  | refer\_to\_loc\_mtf\_parent | N/A | Return the mtf\_parent\_rec from the Location file where the refer\_to\_loc=location\_sk OR fill with the mtf\_parent from the appointment record merged to the Referral 2.0 file. |
| Referring to provider | $40  | refer\_to\_prov | N/A | Final refer\_to\_provider. If provid1 from the Appointment file for the sch\_appointment\_sk in the Schedule Event Attach file is populated, use this. Else use the active\_status\_prsnl field from the encounter history file. Else set to the provid1 from the Appointment record that merges to the Referral 2.0 file. Else set to blank. |
| Referring to provider EDI\_PN | $10  | refer\_to\_prov\_edipn | N/A | Return the prsnl\_edipn from the Provider file where refer\_to\_prov=person\_sk OR prov\_edipn1 field from the appointment record merged to the Referral 2.0 file. |
| Referring to provider NPI | $100  | refer\_to\_prov\_npi | N/A | Return the npi from the Provider file where refer\_to\_prov =person\_sk OR prov\_npi1 field from the appointment record merged to the Referral 2.0 file. |
| Referring to Service Line | $2  | refer\_to\_sl | N/A | Return service line value from the MEPRS3\_SL format file based on refer\_to\_loc\_meprs\_cd field |
| Refer to Specialty | $40  | refer\_to\_specialty | N/A | Return order\_detail\_freetext\_value when health\_system\_source\_id=18635, order\_sk=order\_sk of the record and orderable\_detail\_sk='27782399’ OR return specialty\_type from Referral 2.0 file. |
| Resulting Appointed Referral Request Requested Start Date Time | DATE/TIME | request\_start\_appt\_ord | N/A | Fill with the order date time of the Appointed Referral Request order that has a matching person identifier, referring provider identifier, refer\_to\_specialty equal to a Medical Referral Request order’s person and provider identifiers, and refer\_to\_specialty and the completed\_dt\_tm\_utc of the Medical Referral Request and order\_dt\_tm\_utc of the Appointed Request are within 2 minutes of each other. |
| Right of First Refusal | $1  | rofr | N/A | Return order\_detail\_freetext\_value when health\_system\_source\_id=18635, order\_sk=order\_sk of the record and orderable\_detail\_sk='114511591’ OR fill with rofr field in Referral 2.0 report |
| Source table of referral from location | $8  | src\_refer\_from\_loc | N/A | Source table of refer\_from\_loc value. ORDER=OrderENC=EncounterOD=Order Detail |
| Source table of referral from provider | $8  | src\_refer\_from\_prov | N/A | Source table of refer\_from\_provider value. ORDER=Order |
| Source table of referral to location | $8  | src\_refer\_to\_loc | N/A | Source table of refer\_to\_loc value. SEA= Schedule Event AttachENC=Encounter/Encounter HistoryR2.0= Referral 2.0 |
| Source table of referring to provider | $8  | src\_refer\_to\_prov | N/A | Source table of refer\_to provider value. SEA= Schedule Event AttachENC=Encounter/Encounter HistoryR2.0=Referral 2.0 |
| TEDN match flag | 8 | tedn\_mtch | N/A | If order\_sk and tedn\_uin or case\_number and tedn\_uin are both populated in a record, tedn\_mtch=1 else tedn\_mtch is null. |

1. Refresh Frequency

## Weekly

1. Data Marts

N/A.

1. Special Outputs

N/A