MA APCD Release 7.0 Master Patient Index (MPI) Data

Exclusion

**Background**

In MA APCD Release 7.0 CHIA used our Master Patient Index (MPI) approach to create unique MEMBERLINKEID for all members within the MA APCD. The MEMBERLINKEID provides a way to identify a member using a unique identifier that is not personally identifiable. The MEMBERLINKEID’s provide the researchers’ the ability to track members across time, sites of service, products, and payers.

A write-up of the new MA APCD Master Patient Index process can be found at:

<http://www.chiamass.gov/assets/docs/p/apcd/Overview-of-New-MA-APCD-Master-Patient-Index.pdf>.

**Input File Analysis for Data Exclusion**

CHIA undertook a substantial analysis step, carefully reviewing all eligibility files for anomalies or duplications that would meaningfully decrease the utility of the MEMBERLINKEID. As MA APCD consists of submissions from both the risk holder (payer) and, in some cases, an administrator it was determined that in some circumstances this created a significant amount of duplication. In these cases the administrator data was excluded from the MPI process; in other cases some submitters’ data was found to be of poor quality.

Duplication/poor quality data fell into three categories of MPI exclusion:

1. A submitter’s entire eligibility data was excluded.

2. An individual year for a submitter, or a subset of years, were excluded.

3. A subset of individual records were excluded.

A full listing of these exclusions by OrgID is found in Attachment A of this document. The records for these excluded records will have no MEMBERLINKEID attached.

**Conclusion**

After CHIA tested the newly created MEMBERLINKEIDs, CHIA found significant improvement in the match rates and significant reduction in the number of “orphan” records. “Orphan” records are records with no connection to any claims or any other membership records.

Note: Since values for MEMBERLINKEID are recalculated prior to each new release, this surrogate key **cannot** be used to link data across any other prior or subsequent releases. CHIA has created a surrogate key mapping across releases. Researchers may request this crosswalk.

Attachment A: MPI Exclusion List

**1. Complete Exclusion of Submitters**

The first type of data exclusion from the MPI process is the identification of specific data submitters that were chosen to not be included in the MPI process. These submitters were reviewed by CHIA and deemed that they would cause damage to the creation of the MEMBERLINKID. Two key issues were found. First, the data from an administrator was deemed to contain a high level of duplication to the risk holder. Second, was the discovery that throughout the

data submissions many unique individuals were found to appear under a single CHIA Organization ID (OrgID)/Carrier

Specific Unique Member ID (CSUMID). These submitters were excluded from the MPI process.

**ORGID**

10942

10950

10953

10954

11069

11239

11264

11364

11371

11500

**2. Year-by-Year Exclusion of Submitters**

The second type of data exclusion from the MPI process is the removal of specific years for submitters rather than the entire data set. This list was formed by analyzing the submitters across all years and determining how often multiple members were submitted under the same OrgID/CSUMID combination within each year. In these cases the majority of combinations were found to have been used over multiple individuals.

Every year CHIA works with submitters to obtain the best possible data. Several of these submitters improved their data quality and are included in the MPI process in more recent years.

|  |  |
| --- | --- |
| **ORGID** | **EXCLUDED****YEARS/VALUES** |
| 299 | 2011-2016 |
| 7249 | 2011-2018 |
| 7273 | 2015-2016 |
| 7473 | 2011-2015 |
| 10436 | 2011-2015 |
| 10632 | 2011-2013 |
| 10928 | 2011-2017 |
| 10933 | 2011-2018 |
| 10934 | 2013-2018 |
| 10935 | 2013-2014 |
| 11065 | 2013-2014,2017-2018 |
| 11274 | 2012-2018 |
| 11426 | 2017-2018 |

11609 2014

**3. Record Level Exclusion of Submitters**

The third type of data exclusion from the MPI process is specific records for submitters rather than the entire years.

This list was formed by analyzing the submitters across all years and determining how often multiple members were submitted under the same OrgID/CSUMID combination within a year. In these cases only a few combinations were found to have been used over multiple individuals.

**ORGID EXCLUDED YEARS/VALUES**

2 Instances of

312

7268

CSUMID's have been removed from 201512

1 Instance of CSUMID

has been

removed from 201512

10920 Remove specific IDs from source data.

6 Instances of

11237

CSUMID's have been removed from 201712

 and 201806