

CHIA USER WORKGROUP

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Agenda

- Announcements:
 - APCD Release CY 2020 Updates
 - FY20 Case Mix Release Projections
- Website Updates
- User Support Questions
 - Types of Provider IDs in MA APCD
 - Differences between Types of Provider IDs
 - MA APCD Between Table Provider ID Linkage
 - National Provider ID (NPI)
 - Linking MA APCD NPIs to external repositories
 - Discussion of Provider Linkage Quality
- Q&A

MA APCD CY 2020 (Release 10.0)

- Available for request
- Applicants with *approved projects* that require updated APCD data (CY 2020 Data) should submit to CHIA a completed Exhibit B (*Certificate of Continued Need and Compliance*) of the Data Use Agreement. After submitting a completed Exhibit B you will receive an invoice (if applicable) for the requested data. Upon payment of the invoice the order for the data will be placed.
- **CY 2020 Data** includes data on services from January 2016 – December 2020 with six months of claim runout.

Case Mix FY21 Release

CURRENT RELEASE TIMEFRAMES FOR EACH FILE:

- Inpatient (HIDD)
Available for request
- Emergency Department (ED)
Available for request
- Outpatient Observation (OOD)
Available for request
- Applicants with *approved projects* that require newly available year(s) of Case Mix Data (e.g., FY 19) should submit to CHIA a completed Exhibit B (*Certificate of Continued Need and Compliance*) of the Data Use Agreement. After submitting a completed Exhibit B you will receive an invoice (if applicable) for the requested data. Upon payment of the invoice the order for the data will be placed.



Website Release Updates

- Updates on the production of APCD and Case Mix databases and status of data requests are now posted to CHIA's website!
 - **Aim #1** is to provide weekly or bi-weekly status update on CHIA data products as they are in development.
 - **Aim #2** is to provide applicants with information about expected fulfillment status for individual data requests.
 - Request IDs will be communicated to Data Requestors via email.
- Please visit <http://www.chiamass.gov/status-of-data-requests/> to see the current status of releases.

USER QUESTIONS

The types of provider data in the member eligibility, medical, pharmacy, and dental claims differ in the magnitude. The four tables all contain a **Linking OrgID Provider** used in combination with Linking Provider Identifiers to link to each insurance carrier's provider table data.



Dental Claims

Data Element	Data Element Name
Derived	Linking OrgID Provider
DC018	Service Provider Number
DC020	National Service Provider ID
DC021	Service Provider Entity Type Qualifier
DC025	Delegated Benefit Administrator OrgID
DC026	Service Provider Specialty
DC028	Service Provider State
DC029	Service Provider ZIP Code
DC030	Facility Type - Professional

Pharmacy Claims

Data Element	Data Element Name
Derived	Linking OrgID Provider
PC024	Pharmacy ZIP Code
PC055	Prescribing Physician Zip
PC048	Prescribing Physician NPI - National Provider ID
PC021	National Pharmacy ID Number
PC023	Pharmacy Location State
PC024	Pharmacy ZIP Code
PC043	Prescribing Provider ID
PC054	Prescribing Physician State
PC055	Prescribing Physician Zip
PC057	Mail Order pharmacy
PC059	Recipient PCP ID
PC072	Delegated Benefit Administrator OrgID

Medical Claims

Data Element	Data Element Name
Derived	Linking OrgID Provider
MC024	Service Provider Number
MC026	National Service Provider ID
MC027	Service Provider Entity Type Qualifier
MC031	Service Provider Suffix
MC032	Service Provider Specialty
MC034	Service Provider State
MC035	Service Provider ZIP Code
MC076	Billing Provider Number
MC077	National Billing Provider ID
MC100	Delegated Benefit Administrator OrgID
MC112	Referring Provider ID
MC118	Referral Indicator
MC119	PCP Indicator
MC125	Attending Provider
MC131	InNetwork Indicator
MC134	Plan Rendering Provider Identifier
MC135	Provider Location
MC242	Plan Rendering National Provider ID

Member Eligibility

Data Element	Data Element Name
Derived	Linking OrgID Provider
ME036	Health Care Home Number
	Health Care Home National Provider ID
ME038	
ME046	Member PCP ID
ME124	Attributed PCP Provider ID
MC125	TME OrgID - Physician Group of the Member's PCP

While the MA APCD has a Master Patient Index (Member Link EID) to analyze distinct patients across carriers, it does not have a Master Provider Index. Although Medicare's **National Provider Identifier (NPI)** can be used, which Medicare requires all enrolled individual practitioners and organizational providers to have, atypical providers such as certain transportation providers and respite providers might not have an NPI.

Claims Linking Provider IDs



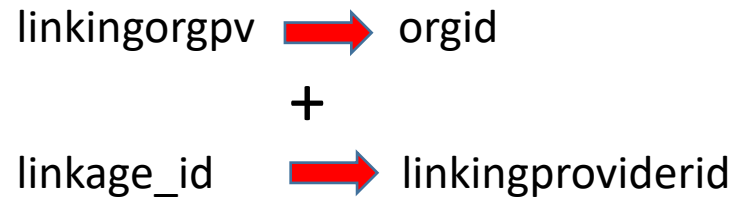
CHIA defines a provider as an entity associated with either: 1. providing services to patients 2. submitting claims for services on behalf of a servicing provider 3. providing business services or contracting arrangements for a servicing provider. All critical fields to use for MA APCD between table linkage with the provider table are embedded with the word **linkage_id** at the end field name. These fields link to the linkingproviderid (PV002) in the provider table in combination with linkingorgpv which links to orgid in the provider table.

MEDICAL CLAIMS
linkingorgpv
attendingprovider_linkage_id
billingprovidernumber_linkage_id
planrenderingprovideridentifier_linkage_id
providerlocation_linkage_id
referringproviderid_linkage_id
serviceprovidernumber_linkage_id

DENTAL CLAIMS
linkingorgpv
serviceprovidernumber_linkage_id

PHARMACY CLAIMS
linkingorgpv
prescribingproviderid_linkage_id
recipientpcpid_linkage_id

MEMBER ELIGIBILITY
linkingorgpv
attributedpcpproviderid_linkage_id
healthcarehomenumber_linkage_id
memberpcpid_linkage_id



PROVIDER TABLE
orgid
linkingproviderid (PV002)
provider_affiliation_linkage_id
medicalhealthcarehomeid_linkage_id

A record In the MA APCD Provide Table represents a unique instance of a provider entity, and that provider’s affiliation to another entity, or a provider’s affiliation to a specific location.

Completeness of Provider IDs



There are differences in the completeness and quality of provider identifiers. Data users should carefully review the release documents before proceeding to link data. For example, a carrier may have reported during one submission month an inadvertent transposition of a digit that could impact linkage.

For example, for ME046 (**Member PCP ID**) carriers report the PCP identifier for members with a corresponding ID in the Provider File, **only used for members whose insurance requires the selection of a primary care physician** (e.g., HMO or POS plans). For ME124 (**Attributed PCP ID**) carriers report PCPs attributed to the **members whose insurance products do not require the selection of a primary care physician** (e.g., PPO plans or indemnity products). This attribution is **based on the carrier's own attribution methodology**.

Even though there is a high completeness of the PCP ID in the member eligibility file (see figure 1), the missing PCP ids were not accounted for by the attributed PCP IDs. Except for calendar Year 2014, most of the attributed PCP IDs (see figure 2) had both a PCP ID and an attributed PCP ID.

Remember both active and inactive are in the provider table. Providers inactive prior to January 2015 are no longer submitted. Carriers are asked to report any and all provider information that aligns to the eligibility and claims data to insure that linking can occur.

Fig 1. Percent PCP ID (ME046) Complete

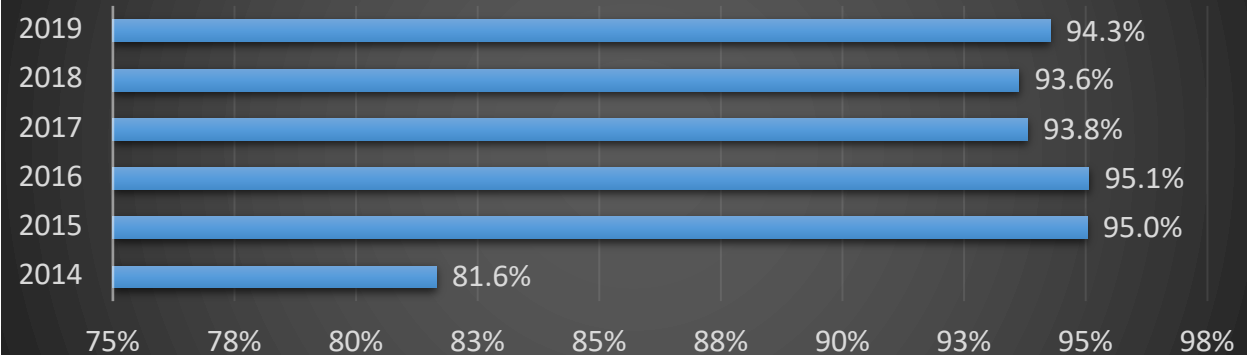
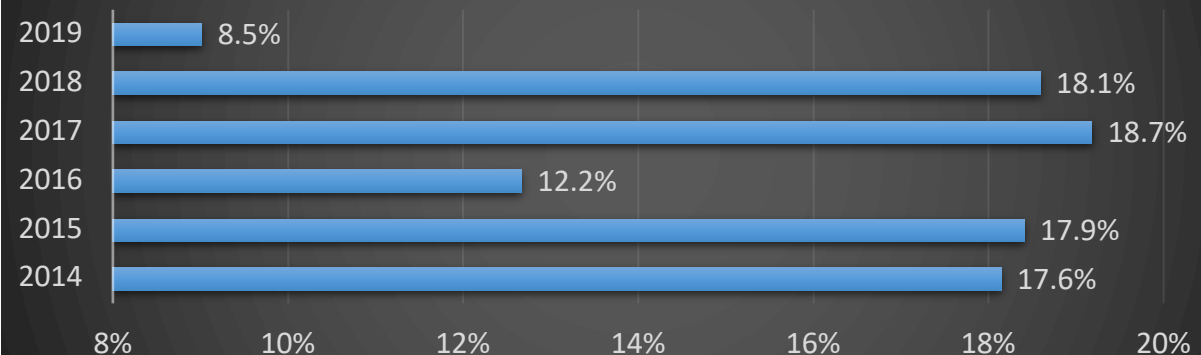
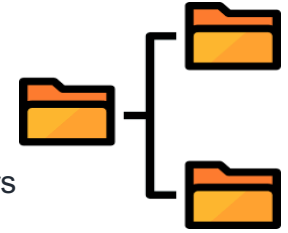


Fig 2. Percent Attributed PCP ID (ME124) Complete



PROVIDER EXTERNAL LINKAGE DATA



The MA APCD LDS Provider Table only contains twelve (12) data elements (see Table below). For this reason, many data applicants request the national provider ID (NPI) for the purposes of linking it to provider to external repositories. CMS provides the following definition and explanation of the NPI.

What is a National Provider Identifier (NPI)

The Health Insurance Portability and Accountability Act of 1996 (HIPAA) specifies the set of providers that must have NPIs as those that execute HIPAA transactions (i.e., only some Medicaid/CHIP “providers” have NPIs)

The NPI is a 10-digit national identifier assigned by the National Plan and Provider Enumeration System (NPPES)

NPPES Type 1 NPI – Individual Practitioners

NPPES Type 2 NPI – Organizational Providers and their *sub-parts*

The same organizational unit (i.e., acute care hospital) can have more than one NPI.

Organizational provider sub-parts

“Some organization health care providers are made up of *components that function somewhat independently from their ‘parent’ organization*. These components may furnish different types of health care or have separate physical locations where health care is furnished. These components and their physical locations are not themselves legal entities but are part of the organization health care provider (which is a legal entity). The NPI Final Rule refers to the components and locations as *sub-parts*.” (CMS, Medical Learning Network, December 2016 909434)

Stores in a pharmacy chains and departments in hospitals are examples of organizational provider *sub-parts*

Medicare Durable Medical Equipment (*DME*) *suppliers must have their own NPI* (i.e., Pharmacy Chain Stores)

MA APCD LIMITED DATA SET PROVIDER TABLE

Data Element	Data Element Name
Derived	Release ID
Derived	Provider Delegate
Derived	CMS Provider Type
Derived	Submission Year Month
Derived	Submission Control ID
Derived	Provider ID
PV001	Submitter
PV002	Plan Provider ID
PV015	Provider DOB (Year Only)
PV021	ZIP Code
PV039	National Provider ID
PV040	National Provider2 ID

CHALLENGES IN PROVIDER LINKAGE

There are many challenges linking and identifying relationships between providers and provider care setting locations in linking within the MA APCD and to external data repositories. CHIA's linking provider IDs were created to reduce these challenges.

- Challenges in identity resolution among providers with multiple affiliations and sharing organizational IDs in determining provider-to-provider relationships, provider-to-organization relationships, large group practices, and multi-state hospital networks.
- Determining the extent to which both historical and current provider data are needed based on the time period of the claims
- Resolving conflicts in provider attributes from multiple data sources
- Determining which data should be cleaned or imputed to resolve inconsistencies and assess patterns in missing data.

CHIA is currently making a conscious decision to collect numerous identifiers that may be associated with a provider:

- PV002 Plan Provider ID
- PV006 License Id
- PV007 Medicaid Id
- PV008 Last Name
- PV009 First Name
- PV036 Medicare Id
- PV039 National Provider ID
- PV040 National Provider2 ID

These identifiers will be used by CHIA in the future to create a Master Provider Data Set for analyzing providers across submitters and help link providers across carriers in the event that the primary linking data elements are not a complete match. The existence of these extra identifying elements will improve the quality of our matching algorithms

Where can I find past User Workgroup Presentations?

- <http://www.chiamass.gov/ma-apcd-and-case-mix-user-workgroup-information/>

MA APCD / Case Mix Meeting Presentations

2019 Presentations	
2019 MA APCD Presentations	2019 Casemix Presentations
<p>MAAPCD Tuesday, November 26, 2019</p> <ul style="list-style-type: none">• Presentation (PDF) Word	<p>Please Note:</p> <p>The Case Mix Workgroup Meeting for December 2019 was cancelled.</p>
<p>MAAPCD Tuesday, September 24, 2019</p> <ul style="list-style-type: none">• Presentation (PDF) PPT	<p>Case Mix Tuesday, October 22, 2019</p> <ul style="list-style-type: none">• Presentation (PDF) PPT
<p>MAAPCD Tuesday, July 23, 2019</p> <ul style="list-style-type: none">• Presentation (PDF) PPT	<p>Case Mix Tuesday, August 27, 2019</p> <ul style="list-style-type: none">• Presentation (PDF) PPT

When is the next User Group meeting?

- The next User Group will meet Tuesday, September 27.

MA APCD Workgroup

Tuesday,
November 24, 2020 @ 3:00 p.m.

[Join a Meeting](#)

Case Mix Workgroup

Tuesday,
December 22, 2020 @ 3:00 p.m.

[Join a Meeting](#)

- <http://www.chiamass.gov/ma-apcd-and-case-mix-user-workgroup-information/>

Resultant Research Using CHIA Data

- <https://www.chiamass.gov/resultant-research-using-chia-data>



[CHIA Data](#) » [Resultant Research Using CHIA Data](#)

Resultant Research Using the MA APCD and CHIA's Case Mix Data

The table below contains a sample of external research publications using CHIA's MA APCD and Case Mix data (by year of publication). Case Mix specific research is highlighted in gray. If you have questions please email apcd.data@state.ma.us and/or casemix.data@state.ma.us.

Questions?

- Questions related to MA APCD:
apcd.data@chiamass.gov
- Questions related to Case Mix:
casemix.data@chiamass.gov

REMINDER: Please include your **IRBNet ID#**, if you currently have a project using CHIA data.