

# APCD USER WORKGROUP

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Don Kirkwood (Manager of Data Release and Procurement)

Sylvia Hobbs (Manager of User Support)

Scott Curley (Manager Privacy & Compliance)

November 24, 2020

# Agenda

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- Announcements:
  - APCD Release 8.0 Updates
  - FY19 Case Mix Release Projections
  - Data Release and Application Update
- Website Updates
- Application Reminders
- User Support Questions
  - Insurance Type Code 'ZZ'
  - Expected National Provider Identifier (NPI) Volume
  - Difference between Carrier Specific Unique Member ID and MemberLink EID
  - ICU length of Stay
  - Codes for Mechanical Ventilation and Respiratory Volume
- Q&A

# MA APCD Release 8.0

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- Available **NOW**
- Applicants with *approved projects* that require updated APCD data (Release 8.0) 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.
- **Release 8.0** includes data on services from January 2014 – December 2018 with six months of claim runout (includes paid claims through 6/30/19).
- Will be linkable to Release 7.0 via crosswalk
- Additional information on highlights and enhancements will be presented in future APCD User Workgroups.

# Case Mix FY19 Release

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## \*CURRENT\* RELEASE TIMEFRAMES FOR EACH FILE:

- Inpatient (HIDD)  
**Available for request and delivery**
- Emergency Department (ED)  
**Available for request and delivery**
- Outpatient Observation (OOD)  
**Available for request and delivery**
- 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.



# Data Release and Application Updates

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Due to Governor Baker's emergency actions to limit the spread of COVID-19 CHIA's workforce will be remote, for now. This arrangement will limit CHIA's ability to produce and deliver data extracts. At this time, CHIA is releasing data and providing extracts to requestors.

During this time, CHIA will continue to accept and review data applications for both Case Mix and All-Payer Claims Database (MA APCD) datasets. Review committees, DRC and DPC, will continue their meetings remotely as necessary.

Due to CHIA's physical office being closed, applications will be accepted without a fee. After receipt of the application, CHIA will issue an invoice which will allow applicants to remit payment online.

If you are a Data User that has a CHIA hard drive in your possession, please keep the hard drive at this time while CHIA's physical office is closed.

# Website Release Updates

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- 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.

# APPLICATION REMINDERS

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# Fee Waiver Request Reminders

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1. If you're submitting a request for a fee waiver, remember to include the fee remittance form in your application package on IRBNet.
2. Remember to submit supporting documentation (if required).
3. If you're requesting a financial hardship waiver, remember to submit information detailing your project's financial situation (examples: project budget, grant funding, organizational / departmental funding). Also request to pay a specific price that you reasonably believe you're able to afford to contribute.
4. CHIA generally does not offer full financial hardship fee waivers. We expect all applicants to have made an attempt to find funding to cover the full cost of the data fees.
5. Fee waiver requests can take some time to process – especially financial hardship requests.



# USER QUESTIONS

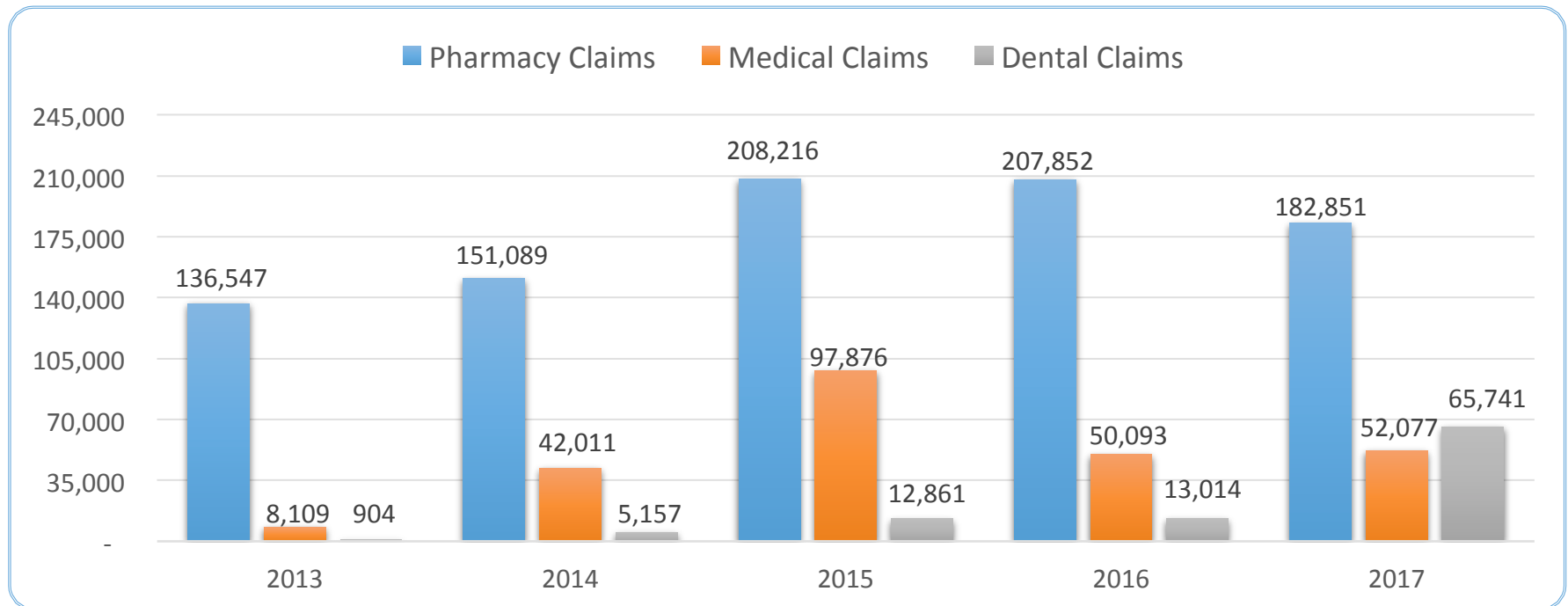
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**Insurance  
Type Code  
Product 'ZZ'**

**Question:** The claims and member eligibility file have an insurance type code product field coding option of 'ZZ'. The ANSI Accredited Standards Committee X12's (ASC X12) claim filing indicator code defines code 'ZZ' as "Mutually Defined/ Unknown" and the CHIA filing specifications simply define 'ZZ' as "Other." "Mutually Defined" and "Other" are ambiguous. Can you clarify what this code refers to?

**Answer:** Insurance Type Code Product (MC003, PC003, DC003) and Product Line of Business Code (PR004) 'ZZ' occurs most commonly on pharmacy claims. In MA APCD Release 7.0, code 'ZZ' is used each year on average 5% of members filing pharmacy claims and 1% of members filing medical claims. **See Figure 1 below.** The number of members filing dental claims with code has increased each year from under 1% in 2013 to 4% in 2017.

**Figure 1. Calendar Years 2013 to 2017 Count of Distinct Member Link EIDs with Insurance Type Product Code 'ZZ' (MC003, PC003, DC003) by Claims Type**



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**Answer (continued):** When the total distinct Member Link EIDs with Insurance Type Code Product 'ZZ' in the claims files are linked to the Product file for information on the associated Carrier License Type (**PR003**), aside from the license type 'Other', Senior Care Option license type is the most common license type associated with medical and dental claims coded 'ZZ' and Pharmacy Benefit Manager for pharmacy claims. **See Table 1 below.** The overall volume of Product file records with a Product Line of Business (**PR004**) Code 'ZZ' is mainly (**88%**) associated with Product Benefit Type (**PR006**) of **Pharmacy Only**.

**Insurance  
Type Code  
Product 'ZZ'**

**Table 1. Frequency of Carrier License Types associated with Distinct Member Link EIDs coded as 'ZZ' (MC003, PC003, DC003) by Claims Type**

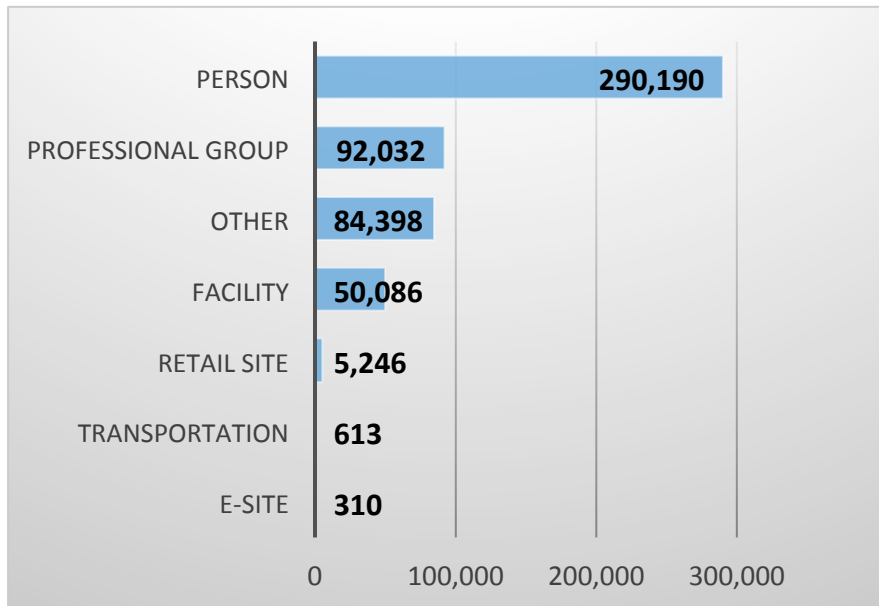
<b>DENTAL</b>					
CARRIER LICENSE TYPE	2013	2014	2015	2016	2017
Health Maintenance Organization (HMO)	29%	3%	1%	1%	0%
<b>Other</b>	<b>0%</b>	<b>5%</b>	<b>64%</b>	<b>62%</b>	<b>92%</b>
<b>Senior Care Option (SCO)</b>	<b>49%</b>	<b>83%</b>	<b>34%</b>	<b>37%</b>	<b>8%</b>
Third Party Administrator (TPA)	22%	9%	0%	0%	0%
<b>PHARMACY</b>					
CARRIER LICENSE TYPE	2013	2014	2015	2016	2017
<b>Other</b>	<b>85%</b>	<b>73%</b>	<b>68%</b>	<b>73%</b>	<b>80%</b>
<b>Pharmacy Benefit Manager (PBM)</b>	<b>12%</b>	<b>24%</b>	<b>30%</b>	<b>25%</b>	<b>20%</b>
Senior Care Option (SCO)	3%	3%	3%	2%	0%
<b>MEDICAL</b>					
CARRIER LICENSE TYPE	2013	2014	2015	2016	2017
Commercial Carrier	3%	1%	1%	16%	7%
Health Maintenance Organization (HMO)	5%	4%	2%	23%	27%
<b>Other</b>	<b>6%</b>	<b>28%</b>	<b>7%</b>	<b>0%</b>	<b>3%</b>
<b>Senior Care Option (SCO)</b>	<b>59%</b>	<b>56%</b>	<b>22%</b>	<b>60%</b>	<b>63%</b>
Third Party Administrator (TPA)	27%	11%	68%	0%	0%

Question: Our preliminary analysis of medical claims has more providers than we expected. Even after restricting our query to service providers located only in Massachusetts, there were 134,899 unique providers for a year, which still seems more than we expected. After further restricting our analysis to cardiovascular disease taxonomy in one month, there were 1,640 unique provider IDs, which again is larger than we expected. We want to make sure our



Answer: The universe of providers with a National Provider ID (NPI) extends beyond those credentialed as an MD. Along with MDs, in the MA APCD there are a high volume of NPIs for LICSWs, DMDs, NPs, PhDs, RNs, PA-Cs, MWSs, LMHCs, PTs, DOs, DDs, Pharm Ds, RPHs, PAs, and more. Organizational entities such as hospitals and ambulance service, also have NPIs. **See Figure 1 below.** The number of 134,899 unique providers for a year is within the expected range. In MA APCD Release 7.0, for providers located in Massachusetts, there are 116,537 distinct billing provider NPIs, 165,335 distinct rendering provider NPIs, and 191,674 distinct service provider NPIs. Your number of cardiovascular disease specialists (**taxonomy code 207RC0000X**) is also within the expected range. **See Table 1 below.**

**Figure 1. Count of Distinct NPIs of Providers Located in Massachusetts by Entity from MA APCD Provider File**



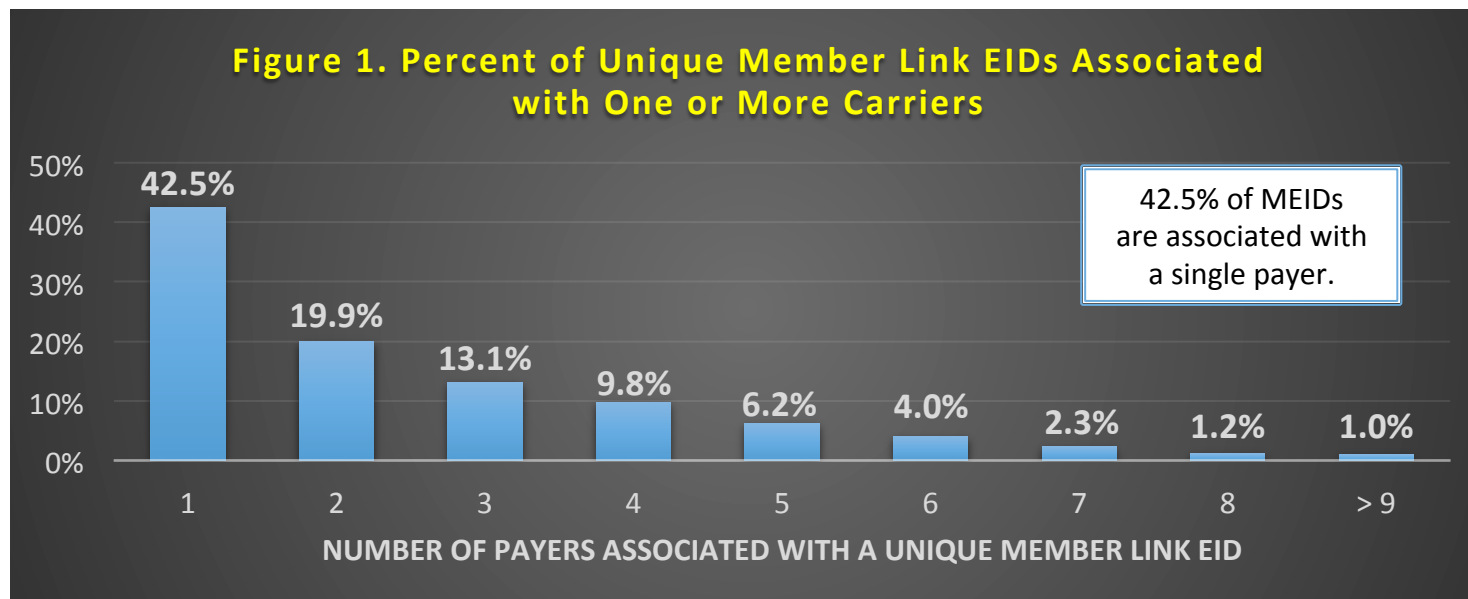
**Table 1. Count of Distinct NPIs for Cardiovascular Disease Specialists by Top 10 States in Medical Claims**

State	Service Provider NPIs	Billing Provider NPIs	Rendering Provider NPIs
MA	1,985	1,974	1,827
FL	1,904	1,071	1,304
NY	1,218	793	834
CA	793	544	486
PA	749	362	471
GA	598	264	358
ME	584	245	461
TX	563	336	381
NC	528	239	320
CT	514	348	374

Question: I was told by one of my co-investigators that when individuals switch their insurance plan, an Memberlink EID (MEID) is assigned. Could you please let me know if this is true? And if so, could you inform me on what proportion of individuals in the data end up switching the insurance plan and have more than one unique member ID? .



Answer: An MEID is generated for members in the eligibility file regardless of whether or not they switch insurance carriers. To improve the integrity of MEIDs, CHIA only generates MEIDs for member records that have the most complete data required for the probabilistic algorithm to reliably assign demographic information to a unique individual. Insurance carriers submit a carrier specific unique member ID which is different from the MEID. The carrier specific unique member ID in combination with the carrier's OrgID is used to analyze members within a specific carrier and to compare carriers. The MEID can be used to analyze members across carriers. If an individual switches carriers or has concurrent dual eligibility (for example, a medical plan and a separate vision or dental plan), they will have the same MEID across carriers but different carrier specific unique member ID. Most MEIDs (42.5%) are associated with a single payer. **See Figure 1 below.**

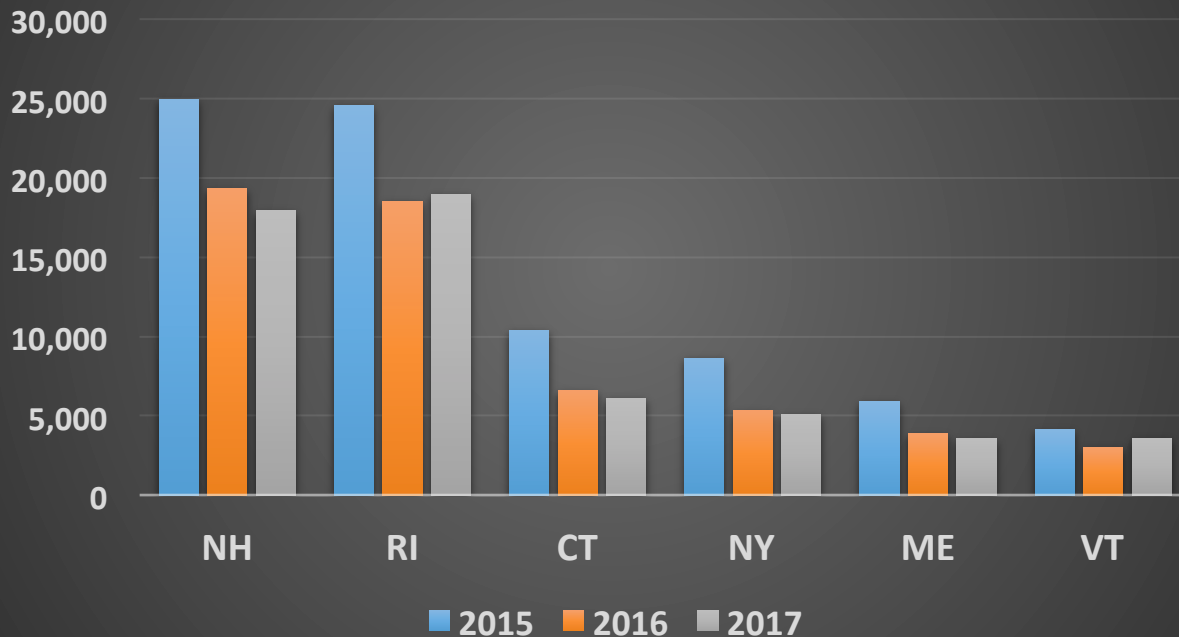


**Question:** I am applying for case mix data to study interfacility transfers of Massachusetts patients requiring and utilizing intensive care and ventilation services. However, I am also considering applying for the MA APCD because I am concerned that case mix data alone would underestimate utilization by missing the magnitude of bordering state intensive care unit (ICU) resource demand by Massachusetts residents. Before applying and paying for the MA APCD, is there any way of determine whether fields exist to analyze ICU demand?



**Answer:** Yes, the MA APCD has a revenue code field which contains all of the ICU related revenue codes (**see Table 1 below**). Even after the reduction in medical claims due to Gobeille in 2016, there is still a noteworthy volume of MA residents utilizing ICUs in surrounding New England states (**see Figure 1 below**) and beyond (**see Figure 2**).

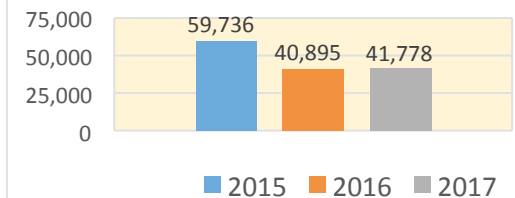
**Figure 1. Volume of Massachusetts Residents Utilizing ICU in Surrounding New England States**



**Table 1. ICU Revenue Codes**

Revenue Code	Description
0200	ICU
0201	Surgical
0202	Medical
0203	Pediatric
0204	Psychiatric
0206	Post ICU
0207	Burn Care
0208	Trauma
0209	Other intensive care

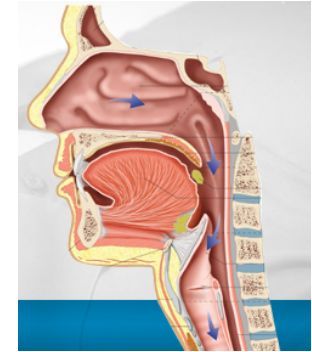
**Figure 2. Outside New England**



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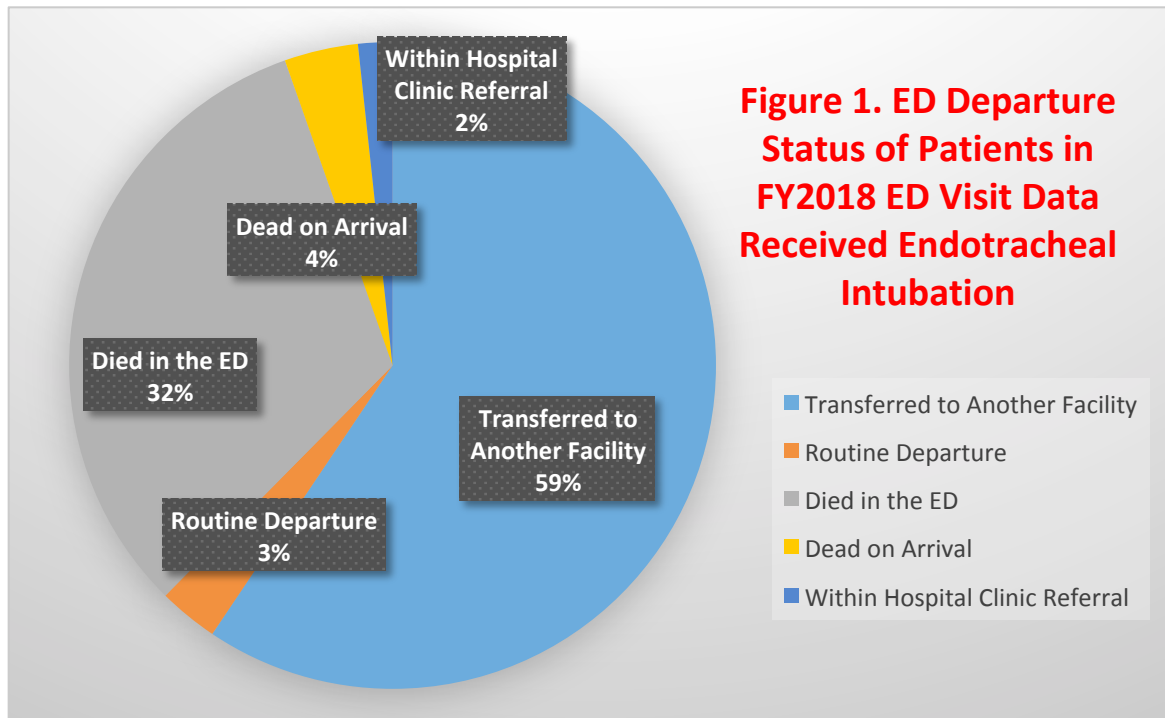


# AIRWAY MANAGEMENT



**Question:** In applying for both the case mix data and MA APCD, I will need to distinguish which patients arrive in the emergency department (ED) already on respiratory support versus patients who have airway management initiated in the ED. What procedure or service codes are used in the ED data for indicating different types of airway management?

**Answer:** Many patients who arrive in the ED on airway management are admitted for inpatient care therefore ED services would be rolled into their inpatient discharge record. Prehospital initiated airway management by ambulance services would not appear in the ED data but on the ambulance data in the MA APCD. For those patients who do have emergency airway management initiated in the ED, the most common procedure is **CPT Code 31500 (endotracheal intubation)**. This CPT code would appear in the case mix ED services table and in the MA APCD procedure code field..



**Figure 1. ED Departure Status of Patients in FY2018 ED Visit Data Received Endotracheal Intubation**

Endotracheal intubation patients who have not been admitted, nevertheless, at some point during their ED visit could not breathe on their own. Fifty-nine percent were transferred to another facility, 32% ultimately died in the ED and another 4% arrived unconscious and were not successfully resuscitated therefore deemed dead on arrival (See Figure 1). While it is not possible to use case mix data to associate prehospital airway management with ED and inpatient care, this can be accomplished using the MA APCD which contains ambulance claims.

# 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"><li>• <a href="#">Presentation (PDF)   Word</a></li></ul>	<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"><li>• <a href="#">Presentation (PDF)   PPT</a></li></ul>	<p>Case Mix Tuesday, October 22, 2019</p> <ul style="list-style-type: none"><li>• <a href="#">Presentation (PDF)   PPT</a></li></ul>
<p>MAAPCD Tuesday, July 23, 2019</p> <ul style="list-style-type: none"><li>• <a href="#">Presentation (PDF)   PPT</a></li></ul>	<p>Case Mix Tuesday, August 27, 2019</p> <ul style="list-style-type: none"><li>• <a href="#">Presentation (PDF)   PPT</a></li></ul>



# When is the next User Group meeting?

- The next User Group will meet Tuesday, December 22.

## 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/>

# Questions?

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- Questions related to MA APCD:  
[apcd.data@state.ma.us](mailto:apcd.data@state.ma.us)
- Questions related to Case Mix:  
[casemix.data@state.ma.us](mailto:casemix.data@state.ma.us)

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

# Call for Topics and Presenters

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- If there is a **TOPIC** that you would like to see discussed at an MA APCD or Case Mix workgroup in 2020, contact Amy Wyeth [amy.wyeth@state.ma.us]
- If you are interested in **PRESENTING** at a MA APCD or Case Mix workgroup in 2020, contact Amy Wyeth [amy.wyeth@state.ma.us]  
You can present remotely, or in-person at CHIA
- We may be reaching out to some data users with invitations to present, and hope you will consider this!