



APCD Analytical Workgroup

May 30, 2013

www.mass.gov/chia

Center for **Health Information**
and **Analysis** www.mass.gov/chia

Objectives of the APCD User Webinar

- Provide a forum where you can learn about APCD updates and ask questions
 - APCD Application Process
 - APCD Data Fulfillment
 - Data Definitions, Compliance and Availability
 - Tools and Methodologies
- Share questions about access to APCD and responses with a broader audience
- Offer input for improvements to the APCD

Agenda for Today

- APCD June Release
- Medicare Data and APCD
- Release Regulations
- Future Topics

APCD June Release

- Dates of Service 2009-2011
(with run-out through March 2013)
- Commercial
 - MassHealth
 - Medicare
(available to state agencies only)

APCD June Release – New Features

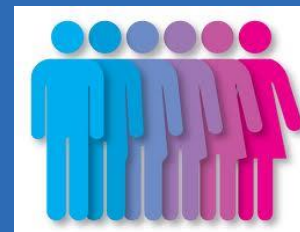
- Unmasking more data elements
- Standardizing addresses – member and provider
- Counties of member, subscriber and provider
 - New fields on Member, Pharmacy, Medical, Dental and Provider files
- Targeted data elements “cleaned”
- Data Dictionary pages

APCD QA: Linkage Metrics

Draft			January	February	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	
MASKED SUBMITTER	Medical Claims to Member Eligibility	Submission Year	Percent Match	Percent Match	Percent Match	Percent Match	Percent Match	Percent Match	Percent Match	Percent Match	Percent Match	Percent Match	Percent Match	Percent Match	
		2009	99.97	99.97	99.97	99.97	99.97	99.97	99.97	99.97	99.97	99.97	99.97	99.97	99.97
		2010	99.95	99.95	99.95	99.95	99.95	99.95	99.95	99.95	99.95	99.95	99.95	99.95	99.95
		2011	99.98	99.97	99.98	99.97	99.97	99.98	99.99	99.97	99.96	99.97	99.97	99.97	99.96
	Medical Claims to Provider	2009	66.77	66.77	66.77	66.77	66.77	66.77	66.77	66.77	66.77	66.77	66.77	66.77	66.77
		2010	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
		2011	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
	Pharmacy Claims to Member Eligibility	2009	64.33	64.33	64.33	64.33	64.33	64.33	64.33	64.33	64.33	64.33	64.33	64.33	64.33
		2010	67.72	67.72	67.72	67.72	67.72	67.72	67.72	67.72	67.72	67.72	67.72	67.72	67.72
		2011	65.58	65.20	63.76	64.85	99.76	99.77	65.23	64.94	64.91	63.63	63.63	63.78	

CHIA is measuring linkage rates by carrier by submission period. The NPI can also be used to link claims to provider data.

Gender Code Data Cleaning



Gender is one of the most frequently requested elements on APCD applications for Medical, Dental and Pharmacy Claims files.

Member gender must be within the valid domain of the following values

Member Gender Code	Member Gender
F	Female
M	Male
O	Other
U	Unknown

Gender codes submitted by carriers

Ff Mm Oo Uu

- Cleaning logic - change the lowercase letter (f, m, o, u) to an uppercase letter Valid Values (F, M, O, U) and to null out any remaining values that are not in lookup table.
- 99% of Medical Claims gender codes are within valid lookup table values.
- Cleaning logic results in close to 100% valid gender data

Diagnosis Code Data Cleaning



Diagnosis codes must be within the valid domain of ICD-9-CM values and submitted without decimal point

Sample Diagnosis codes
submitted by carriers

Principal Diagnosis

73301
290.2
5853
414.01
290.21
362.5
290.43
6009

Cleaning logic - remove decimal point from diagnosis code (290.2 becomes 2902). Applying this cleaning logic converted 53% of all invalid diagnosis codes to valid values. Diagnosis codes include principal diagnosis, admitting diagnoses, twelve other diagnoses, and discharge diagnoses.

For example, of 1,305,913,361 claims records with a Principal Diagnosis, 3,593,272 (0.3%) of those records had invalid codes. Applying the cleaning logic of removing the decimal point converted 42.4% of those invalid codes to valid codes.

Medicare Data and APCD

CMS Data File (ResDAC)

- CMS data files are organized by data category, CMS program and privacy level; 10 broad Categories, 3 Programs, 3 Data Privacy Level files –
 - Research Identifiable Files
 - Limited Datasets
 - Public Use Files

Medicare Data and APCD *(continued)*

- Cohorts for the Commonwealth of Massachusetts from 2009-2011
- Data files requested
 - Beneficiary Summary File
 - Claims Files
 - ✓ Institutional - Inpatient, Outpatient, Skilled Nursing Facility, Hospice, and Home Health Agency
 - ✓ Non-Institutional – Carrier (for non-institutional providers) and Durable Medical Equipment
 - ✓ Prescription Drug Event File
 - Other Files
 - ✓ Plan Characteristics File
 - ✓ EDB User View for SSN, Beneficiary Name and Address

Medicare Data and APCD *(continued)*

- Medicare data include
 - Enrollment data for 100% of Medicare beneficiaries
 - Full or Nearly Full fee-for-service (FFS) claims
 - Managed care encounter data not available for people enrolled in Medicare Advantage plans
- Data elements from these Medicare files currently are being mapped to the APCD
 - The mapping is done to accommodate all the Medicare data elements in APCD, including those not currently collected by APCD
- Medicare data in the APCD will be available to state agencies in Massachusetts only for the time being

New Data Release Regulations

- One regulation applies to both CaseMix and the All Payer Claims Database
- Different review processes for different types of requests
 - Limited Discretion: Most requests for de-identified data; all requests made by government agencies; requests for patient identifiers for treatment and coordination of care; Data Use Agreement (DUA)
 - Full Discretion: All other requests, e.g., research requests for data that may include individually identifiable data; DRC review; DUA
- Applies to June 2013 release of 2011 data

Source: Chapter 12C § 12

Criteria for Discretionary Requests

- No more than a minimal risk to individual privacy
- Applicant cannot meet its research or project objectives without the requested data
- Data sought by the applicant are the minimum amount necessary to achieve research or project objectives.
- The purpose for which the data are requested is in the public interest.
- The applicant has demonstrated qualifications to undertake the study or accomplish the intended use.

Release Regulations (*continued*)

Now –

- APCD: “Public Use” and “Restricted Use” data elements
- APCD: No specific “de-identified” dataset, but many elements masked
- Case Mix: Six levels, none fully de-identified

Future –

- APCD: Level One data (de-identified *and largely unmasked*)
- APCD: Level Two data (with PHI *and largely unmasked*)
- CaseMix: Level One (de-identified)
- CaseMix: Levels 2-6 (similar to current structure)

Release Regulations - Timing

May 10

- Proposed regulation filed with the Secretary of State

June

- Public Hearing, June 14th
- Public Comment Period Ends, June 24th

Early July

- Final Regulation adopted/in effect

July 25

- DRC meeting

Topics Planned

- Orientation to IRB Net
- Update APCD June Release of 2011 data
- Summary of Case Mix dataset
- New Data Request Application and Data Use Agreement

QUESTIONS?

Please submit questions and topics

sabine.hedberg@state.ma.us

Thank you for your interest in the
Massachusetts All Payer Claims Database