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ARKANSAS APCD DATA USERS GROUP

Kenley Money

Director of Information Systems Architecture

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HEALTHCARE TRANSPARENCY INITIATIVE

Agenda

- Welcome

- Featured Topic: Using Clinical Classifications Software-Refined (CCS-R) to Support APCD Analyses

- Refreshed Arkansas Medical Marijuana Cardholder Data

- New Data Asset Offering: Member Enrollment Selection Table (MEST)

- Latest APCD Release Information and Data Tips

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Presenters

- **Kenley Money, MA, MFA** — Director of Information Systems Architecture, APCD Director, ACHI

- **Nichole Stanley, PhD** — Interim Director of Analytics, ACHI

Featured Topic:
Using Clinical Classifications Software-Refined (CCS-R) to Support APCD Analyses

Clinical Classification Software – Revised (CCS-R)

- Developed by Agency for Healthcare Research and Quality (AHRQ)

- Part of the Healthcare Cost and Utilization Project (HCUP) to help inform decision-making

- Categorizes "International Classification of Diseases, 10th Revision, Clinical Modification/Procedure Coding System" (ICD-10-CM/PCS)

  - Categorization of codes start Oct. 2015; updated each September

CCS-R Procedure Code Groups

- Over 80,000 ICD-10-PCS codes

- 320 clinical categories

- 31 clinical domains

- 1 ICD-10-PCS code is assigned to only 1 CCS-R category

- Examples: Imaging; Pregnancy-Related Procedures; Skin and Breast Procedures; and more

CCS-R Diagnosis Code Groups

- Over 70,000 ICD-10-CM codes

- 530 clinical categories

- 22 body systems

- ICD-10-CM codes can be assigned to more than 1 CCS-R category

- Examples: Abdominal Hernia; Diabetes mellitus, Type 2; Diabetes mellitus with complication; Diabetes mellitus without complication

Applications of the CCS-R

- To identify ICD-10 codes to extract claims
  - Imaging
  - Type 2 diabetes
- To categorize utilization and costs
  - Diabetes with complications
  - Diabetes without complications

When to Use Default CCS-R

- Can grant exclusivity to utilization and costs
- Depending on study question use defaults
  - New field: Rationale_for_default

ICD-10-CM Code	ICD-10-CM Code Description	CCS-R Category	CCS-R Category Description	Inpatient Default CCS-R (Y/N/X)	Outpatient Default CCS-R (Y/N/X)
E109	Type 1 diabetes mellitus without complications	END002	Diabetes mellitus without complication	Y	Y
E109	Type 1 diabetes mellitus without complications	END004	Diabetes mellitus, Type 1	N	N

More on Using the Default

- Y = this CCS-R category is the default
- N = this CCS-R category is NOT the default
- X = this ICD-10-CM code should not be a primary diagnosis (for this type of visit)

ICD-10-CM Code	ICD-10-CM Code Description	CCS-R Category	CCS-R Category Description	Inpatient Default CCS-R (Y/N/X)	Outpatient Default CCS-R (Y/N/X)
B6013	Keratoconjunctivitis due to Acanthamoeba	EYE001	Cornea and external disease	X	Y
B6013	Keratoconjunctivitis due to Acanthamoeba	INF009	Parasitic, other specified and unspecified infections	X	N

Rationale for default assignment: Unacceptable primary diagnosis

How to Use With the Arkansas APCD

- ICD-10-PCS
  - APCD fields: MC058 through MC058L
  - PRCCSR-v2024-1.csv field: 'ICD-10-PCS'
- ICD-10-CM
  - APCD fields: MC041 through MC053
  - DXCCSR-Reference-file-v2024-1.xlsx; spreadsheet: "DX_to_ccsr_mapping" field: ICD-10-CM Code

Considerations

- For identifying a study population: review with subject matter expert
  - Sequalae?
  - Physiological source of mental health disorder?
- Does being an "unacceptable" primary diagnosis matter?
- Mutually exclusive costs?
- Specific CCS-R category costs?

Helpful Links

- Background information
  - https://hcup-us.ahrq.gov/toolssoftware/ccsr/ccs_refined.jsp#overview
- CCS-R for ICD-10-PCS
  - https://hcup-us.ahrq.gov/toolssoftware/ccsr/prccsr.jsp
  - https://hcup-us.ahrq.gov/toolssoftware/ccsr/PRCCSR_v2024-1.zip
- CCS-R for ICD-10-CM
  - https://hcup-us.ahrq.gov/toolssoftware/ccsr/dxccsr.jsp
  - https://hcup-us.ahrq.gov/toolssoftware/ccsr/DXCCSR_v2024-1.zip

Refreshed Arkansas Medical Marijuana Cardholder Data

Arkansas Medical Marijuana (MMJ) Cardholder Data

- AR MMJ cardholder data now received from a different source
- Original cardholder data included cardholders enrolled from Aug. 2018 through Sept. 2020
- New, refreshed cardholder data file will be available this summer
  - Includes cardholders from August 2018 through September 2022
  - Original cardholder data is included in new file
- Subsequent data is being compiled to update the cardholder data regularly

Arkansas Medical Marijuana Cardholder Data

Original Data	New/Replacement Data
100,617 unique cardholders	255,588 unique cardholders (Original cardholder included)
Enrollment: Aug. 2018-Sept. 2020	Enrollment: Aug. 2018-Sept. 2022 (next refresh will align dates with other APCD release data)
No explicit enrollment date or expiration dates	Includes enrollment dates and expiration dates
Will not be updated	Will be updated periodically with other ADH datasets
No longer available	Will be available for all new data requests or subscription fulfillment. No change in price or data request process.

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Member Enrollment Selection Table (MEST)

ACHI engaged with existing Arkansas APCD data users to identify their **biggest challenges**.

They wanted the ability to segment members based on:

- Enrollment periods
- Breaks in coverage
- Coverage transitions

The Member Enrollment Selection Table (MEST) allows data users to **easily segment and identify** qualified study populations by member enrollment and coverage activity by month or year.

And, for the first time, data users can categorize populations based on payer type.

Clarifying Member Enrollment Data

For APCD enrollment records, the example member below has multiple months and years of coverage with multiple plans.

Submitter (ME001)	Member ID (ME107)	APCD Unique ID (ME998)	Gender (ME013)	Payer Type (ME001_CAT)	Product/Plan (ME040)	Enrollment Date (ME162A)	Disenrollment Date (ME163A)
HUM	6789	Z2x&9=	M	MCR_ADV	ABC9672Q	9/1/2018	6/30/2019
HUM	6789	Z2x&9=	M	COM	CDE03567x	7/13/2018	12/31/2021

Clarifying Member Enrollment Data

As a data enhancement in coordination with an APCD request, the Member Enrollment Selection Table:

- Categorizes plans into payer types

- Breaks down enrollment records

- Assigns enrollment string with 1 row per member per year per payer type

Submitter	Member-ID	APCD_Unique_ID	Gender	Payer_Type	Year	Enrollment_String	Months_Covered_in_Year
HUM	6789	Z2x&9=	M	MCR_ADV	2018	000000001111	4
HUM	6789	Z2x&9=	M	COM	2018	000000111111	6
HUM	6789	Z2x&9=	M	MCR_ADV	2019	111111000000	6
HUM	6789	Z2x&9=	M	COM	2019	111111111111	12
HUM	6789	Z2x&9=	M	COM	2020	111111111111	12
HUM	6789	Z2x&9=	M	COM	2021	111111111111	12

How to Read the Enrollment String Field

	SE_ID		Study_ID					
Submitter	**Member_ID**	**APCD_Unique_ID**	**Gender**	**Payer_Type**	**Year**	**Enrollment_String**	**Months_Covered_in_ Year**
AET	925	BxP37=	M	Commercial (COM)	2022	001111100000	5

MEST uses an enrollment string field to represent coverage months in a year. It contains 12-character values that indicate presence of coverage for each month in the year on the data row.

In this example, the member was covered between March and July of 2022.

Enrollment_String
00**11111**00000

1 = Member was covered that month of selected year.*

0 = Member was not covered that month of selected year.

Months Covered											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	1	1	1	1	1	0	0	0	0	0

*A member is considered to have coverage within a month if the plan enrollment date is between the first day and 15th day of the month or if the plan disenrollment date is between the 15th and last day of the month.

Finding Claims

After the study population has been determined, users can also select medical, pharmacy, or dental claims that have matching SE_IDs as the study population.

| SE_ID | | | Study_ID | | | | |

Member Enrollment Selection Tool Record

Submitter	Member_ID	APCD_Unique_ID	Gender	Payer_Type	Year	Enrollment_String	Months_Covered_in_Year
AET	925	BxP37=	M	COM	2022	00111110000	6

Medical Claim

Submitter	Member ID	Diagnosis Code	Procedure Code	Service Date	Paid Amount
AET	925	B070	1711	2022-03-15	$152.00

Pharmacy Claim

Submitter	Member ID	Drug Code	Quantity	Fill Date	Paid Amount
AET	925	5981010307	1	2022-03-25	$21.72

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Applying This Table to Research

The Member Enrollment Selection Table allows data users to:

- Determine, easily and accurately, when members' enrollment began and ended, as well as their payer type

- Ensure that projects include qualified members whose enrollment data may span years

- Identify transitions in member enrollment at the monthly level for enhanced visibility

How Can Data Requesters Get MEST?

Two paths are available to access MEST:

1. Request the data as an ancillary data file supporting a data request

2. Engaging the Arkansas APCD team to pull data matching MEST

Next Steps

Update the APCD data request tools and information (including pricing) to include options to select MEST.

Make documentation available to data requesters at ArkansasAPCD.net.

Look for an email soon announcing the availability of MEST!

Latest APCD Release Information and Data Tips

Release Information

- Available APCD data
  - Current data: Jan. 1, 2013–March 31, 2023
  - Data user resources:
    - [Release Notes](#) for each release
      - Overall coverage dates
      - Source-specific release notes (problematic submitting entities)
      - Type of coverage flags
    - [Universe counts](#) – *NEW FORMAT!*
    - Searchable Arkansas APCD [data dictionaries](#) & [tip sheets](#)

The next build is expected to be available in late May or early June and will include data through September 2023.

Helpful Hint:
Refresh linkage methodology by reviewing the Data Attributes deck

Always check the Arkansas APCD Data Issues and Tips page for the latest information!

Data Tips & Issues

TIP: [Managing Overlap Between Medicare Fee for Service Claims and Medicare Advantage Plan Claims](#)
This tip helps data users understand duplication in plan information between commercially sourced Medicare Advantage data and Medicare Fee For Service data.

TIP: [Identifying Administrative Services Enrollment](#)
This tip helps data users identify self-funded plans.

RESOLVED: [Cigna Entity Study ID Issue](#)
The issue in this data tip was resolved.

TIP: [New HIOS ID Variant Codes](#)
New HIOS ID (ME992) variant codes are now available for analyses.

APCD Technical Support

- Reach out to adrs@achiapcd.atlassian.net for questions about data requests, data use, or pricing

Ideas for future Data User Group meetings?

Send ideas to adrs@achiapcd.atlassian.net

Call to Action

- Sign up for ACHI Newsletter

- Follow on social media: ACHI and the Arkansas Healthcare Transparency Initiative featuring the Arkansas APCD

- Check out blog posts on ACHI.net

- Next Data Users Group meeting: July 24, 2024

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