ARKANSAS APCD DATA USERS GROUP

Kenley Money

Director of Information Systems Architecture

7.26.2023

Agenda

- Welcome
- Topics
  - Featured Project – *Predicting Chemical Dependencies: Alcohol, Cannabis, and Opioids*
  - New Arkansas Healthcare Transparency Initiative Data Tools
  - Medicare Data User Documentation
- Latest APCD Release Information and Data Tips

Presenters

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

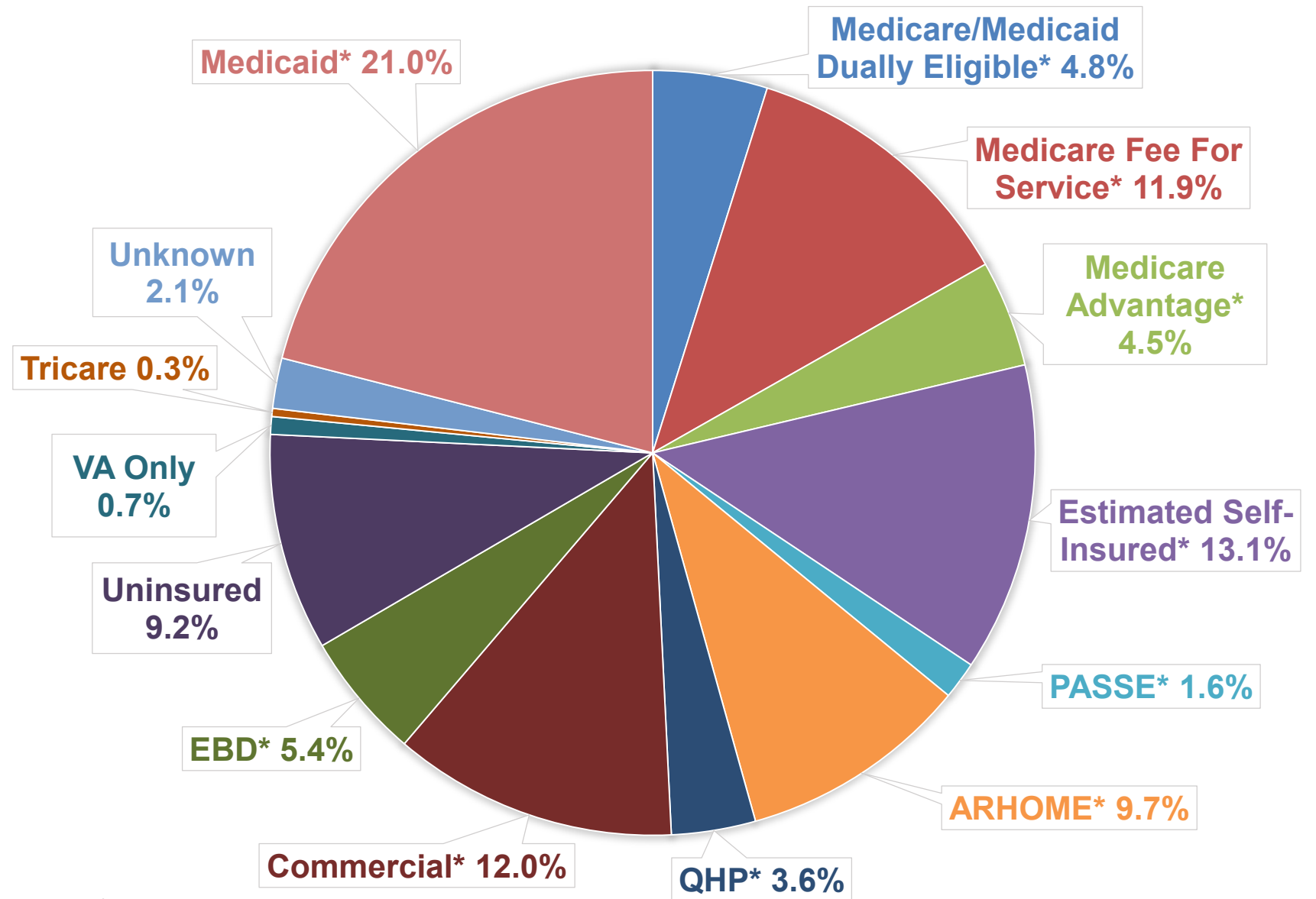- **Elizabeth Silvius** — Senior Data Analyst, DecisionQ

Elizabeth Silvius

Silvius is a Senior Data Scientist at DecisionQ, an artificial intelligence engineering company focused on delivering predictive insights to clients in a variety of industries. She has worked in healthcare analytics for 12 years, and much of her work has focused on screening and prognosis models, along with diagnostic device development. Over the past three years, DecisionQ has developed screening models for various chemical dependencies using ACHI data.

New Arkansas HTI Data Tools

ARKANSAS HTI HEALTH COVERAGE POPULATION: STATEWIDE

Note: Based on covered members as of October 2020 for Medicare and October 2021 for all other submitters.

* Sourced from the Arkansas APCD.

https://achiapcd.atlassian.net/wiki/spaces/HTIR/pages/1988296724/Understanding+the+Data

Medicaid* 21.0%

Medicare/Medicaid Dually Eligible* 4.8%

Medicare Fee For Service* 11.9%

Medicare Advantage* 4.5%

Estimated Self-Insured* 13.1%

PASSE* 1.6%

ARHOME* 9.7%

QHP* 3.6%

Commercial* 12.0%

EBD* 5.4%

Uninsured 9.2%

VA Only 0.7%

Tricare 0.3%

Unknown 2.1%

HEALTHCARE TRANSPARENCY INITIATIVE

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ARKANSAS HTI HEALTH COVERAGE POPULATION: SENIORS

Estimated Self-Insured* 7.1%

Medicare Advantage* 17.6%

Medicare / Medicaid Dually Eligible* 12.3%

Medicare Fee For Service* 57.3%

PASSE*	0.0%
AR HOME*	0.1%
QHP*	0.2%
Commercial*	0.7%
EBD*	0.9%
Uninsured	0.5%
VA Only	1.5%
Unknown	0.8%
Medicaid*	1.5%

Note: Based on covered members 65 and older, as of October 2020.
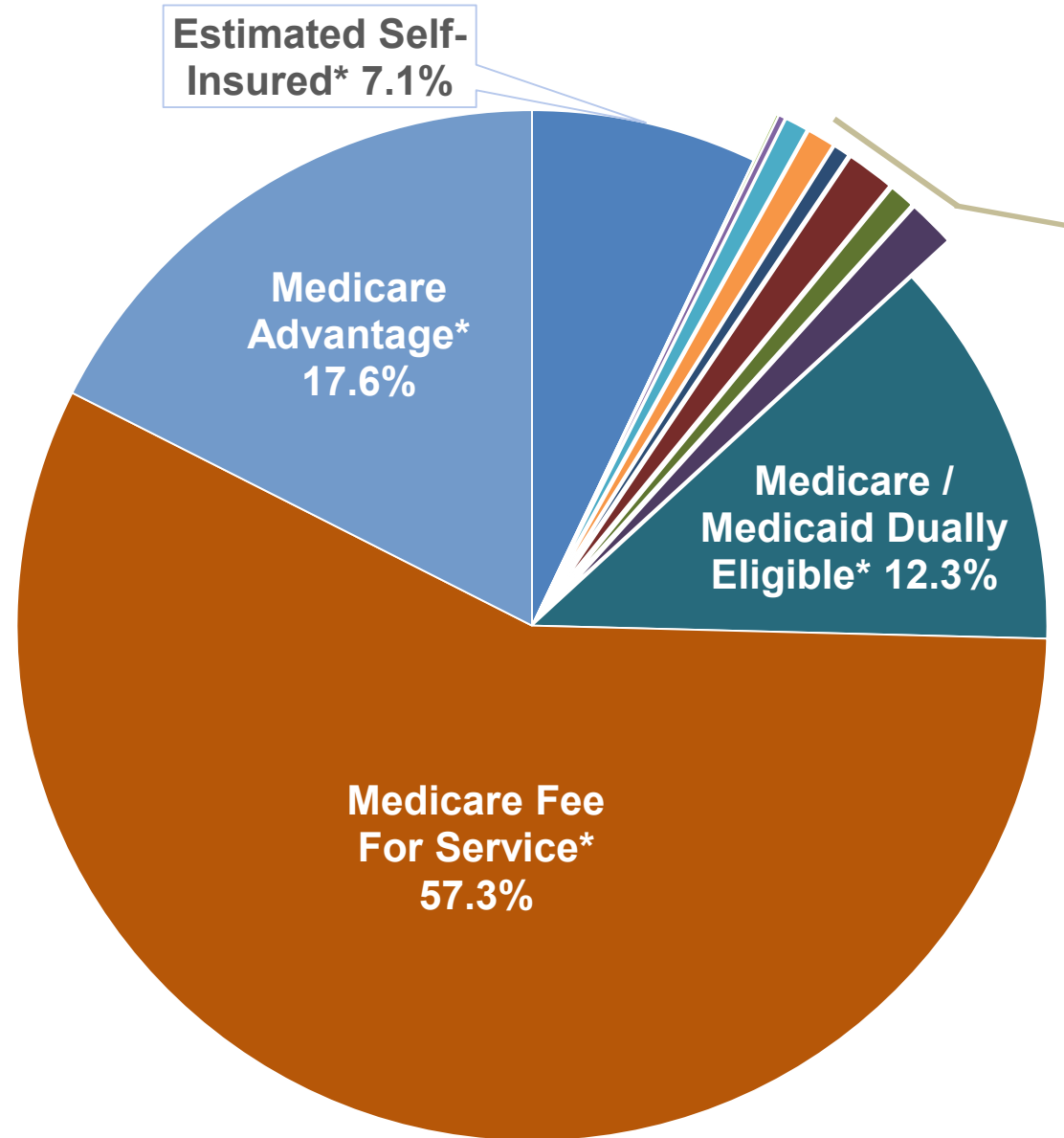
* Sourced from the Arkansas APCD.

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ARKANSAS HTI HEALTH COVERAGE POPULATION: ADULTS 19-64

Note: Based on covered members ages 19–64, as of October 2021.
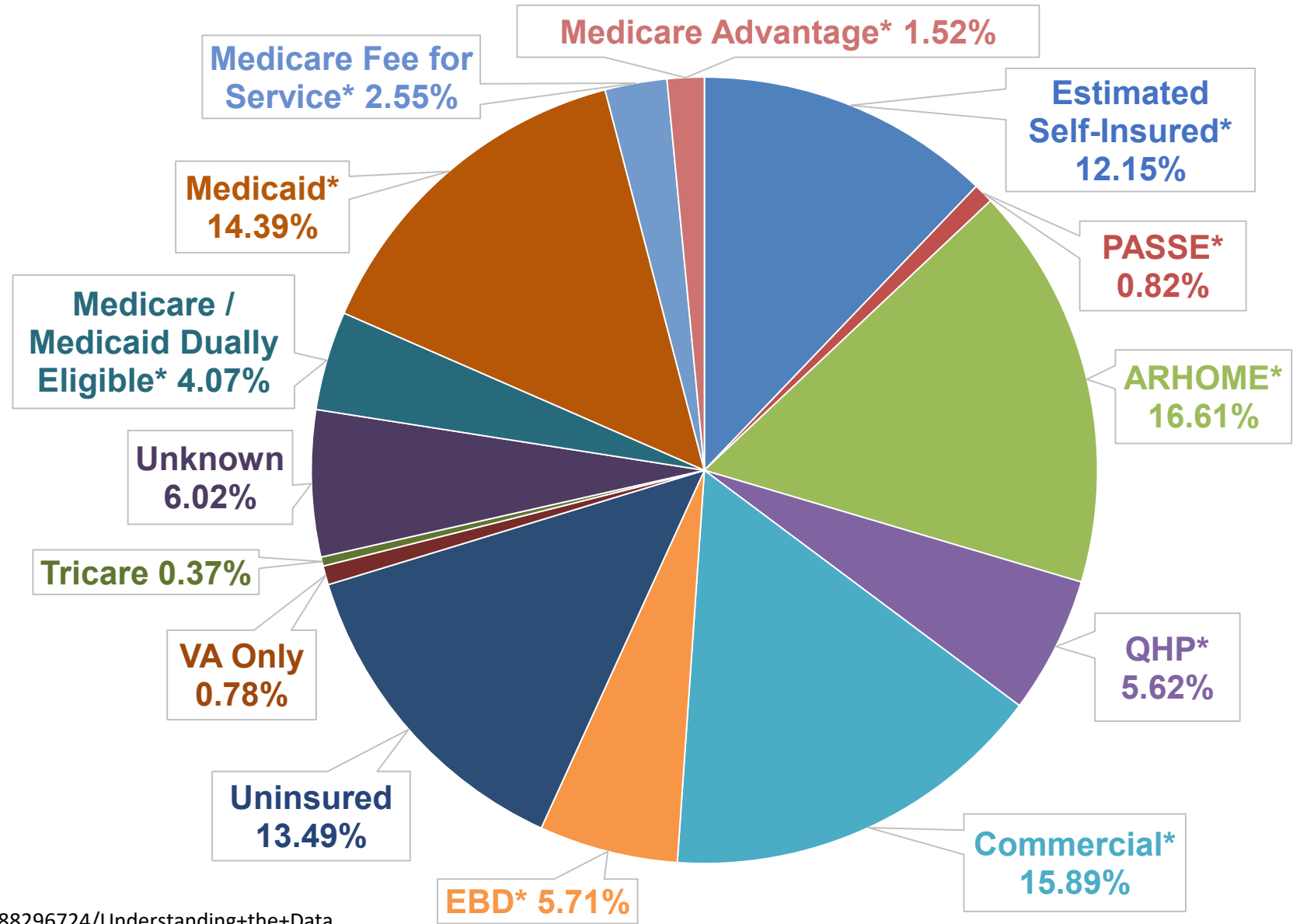
* Sourced from the Arkansas APCD.

https://achiapcd.atlassian.net/wiki/spaces/HTIR/pages/1988296724/Understanding+the+Data

Medicare Advantage* 1.52%
Medicare Fee for Service* 2.55%
Estimated Self-Insured* 12.15%
PASSE* 0.82%
Medicaid* 14.39%
ARHOME* 16.61%
Medicare / Medicaid Dually Eligible* 4.07%
Unknown 6.02%
QHP* 5.62%
Tricare 0.37%
VA Only 0.78%
Commercial* 15.89%
Uninsured 13.49%
EBD* 5.71%

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ARKANSAS HTI HEALTH COVERAGE POPULATION: CHILDREN

Note: Based on covered members ages 0–18, as of October 2021.
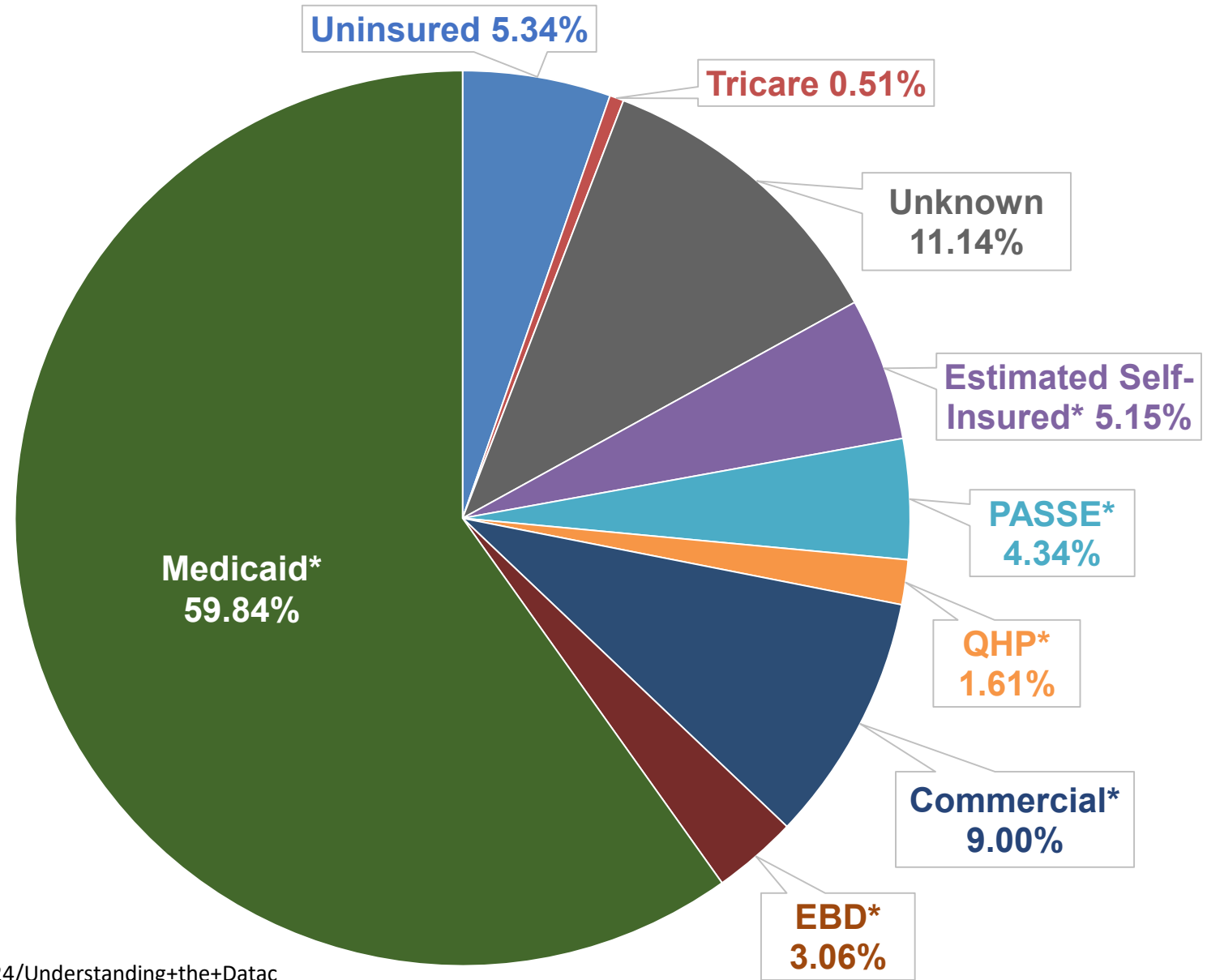
* Sourced from the Arkansas APCD.

Uninsured 5.34%

Tricare 0.51%

Unknown 11.14%

Estimated Self-Insured* 5.15%

PASSE* 4.34%

QHP* 1.61%

Commercial* 9.00%

EBD* 3.06%

Medicaid* 59.84%

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New Data Asset Development

Something Learned

- After reviewing Data User Survey responses, the APCD team identified a challenge shared by most data users – understanding and segmenting members based on enrollment periods and coverage types

- Many users confirmed that a significant amount of project time was spent working through enrollment data to understand when members were enrolled, when they had breaks in coverage, when they had overlapping coverage, etc.

Something New

- The data element ME001_CAT has been repurposed to contain the type of coverage identifiers that represent the type of plan covering the member for the enrollment period

- Type of coverage categorization begins at the enrollment re level. For example, enrollment records when ME003 – Insurance Product Code = 'EBD', the type of coverage is set to EBD.

  There is a data tip for this later!

- Data Tip Redefined Field – ME001_CAT contains value definitions and methodology.

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Something New

- Additionally, the APCD team is scoping new data assets that will help data users more quickly find study populations by member enrollment and coverage activity

- Data users will be able to segment by year and month of enrollment and type of coverage at that time

- This design enables selection of members with continuous coverage, transitioning coverage, overlapping coverage

- These assets will be made available as standalone datasets or applied to requested data extracts by the APCD team

— For Example —

If the study period covers Jan. 2018–Dec. 2021, each member record will contain a field for each year and month of enrollment. Fields highlight the member's priority coverage at that point in time.

Quickly Answer Study Population Questions

	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	July 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018
1	N/A	N/A	COM	COM	COM	COM	COM	MCD	MCD	MCD	MCD	MCD
2	N/A	N/A	N/A	N/A	N/A	MCD	MCD	MCD	MCD	MCD	MCD	MCD
3	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	June 2019	July 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019
1	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD
2	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD
3	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	June 2020	July 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020
1	MCD	MCD	MCD	COM	COM	COM	COM	COM	COM	COM	COM	COM
2	MCD	MCD	MCD	MCD	MCD	MCD	MCD	N/A	N/A	N/A	COM QHP	COM QHP
3	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	June 2021	July 2021	Aug 2021	Sep 2021	Oct 2021	Nov 2021	Dec 2021
1	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM
2	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	N/A	N/A	N/A	N/A
3	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

HEALTHCARE TRANSPARENCY INITIATIVE

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Who transitioned from a Medicaid plan to Commercial plan?

	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	July 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018
1 ✓	N/A	N/A	COM	COM	COM	COM	COM	MCD	MCD	MCD	MCD	MCD
2 ✗	N/A	N/A	N/A	N/A	N/A	MCD	MCD	MCD	MCD	MCD	MCD	MCD
3 ✗	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	June 2019	July 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019
1 ✓	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD
2 ✗	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD
3 ✗	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	June 2020	July 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020
1 ✓	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM
2 ✗	MCD	MCD	MCD	MCD	MCD	MCD	MCD	N/A	N/A	N/A	COM QHP	COM QHP
3 ✗	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	June 2021	July 2021	Aug 2021	Sep 2021	Oct 2021	Nov 2021	Dec 2021
1 ✓	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM
2 ✗	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	N/A	N/A	N/A	N/A
3 ✗	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

Who is continuously covered by a commercial or Medicaid plan for 24 months?

	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	July 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018
✔ 1	N/A	N/A	COM	COM	COM	COM	COM	MCD	MCD	MCD	MCD	MCD
✔ 2	N/A	N/A	N/A	N/A	N/A	MCD	MCD	MCD	MCD	MCD	MCD	MCD
✘ 3	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	June 2019	July 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019
✔ 1	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD
✔ 2	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD	MCD
✘ 3	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	June 2020	July 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020
✔ 1	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM
✔ 2	MCD	MCD	MCD	MCD	MCD	MCD	MCD	N/A	N/A	N/A	COM QHP	COM QHP
✘ 3	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	June 2021	July 2021	Aug 2021	Sep 2021	Oct 2021	Nov 2021	Dec 2021
✔ 1	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM
✔ 2	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	COM QHP	N/A	N/A	N/A	N/A
✘ 3	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM

HEALTHCARE TRANSPARENCY INITIATIVE

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Input Needed

Which would work better for you?
Or something else?

These data can be represented in different ways:

1

	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	July 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018
1	0	0	1	1	1	1	1	2	2	2	2	2
2	0	0	0	0	0	2	2	2	2	2	2	2
3	1	1	1	1	1	1	1	1	1	1	1	1

	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	June 2019	July 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019
1	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2
3	1	1	1	1	1	1	1	1	1	1	1	1

2

	2018	2019
1	001111122222	222222222222
2	000002222222	222222222222
3	111111111111	111111111111

3

	COM 2018	MCD 2018	COM 2019	MCD 2019
1	001111100000	000000022222	000000000000	222222222222
2	000000000000	000002222222	000000000000	222222222222
3	111111111111	000000000000	111111111111	000000000000

These examples:
1 = COM
2 = MCD
0 = N/A

Medicare Data User Documentation

Sources and Use of Medicare Enrollment Information

- [Resource](#) supporting the use of Medicare enrollment data.

Highlights	Take-away
Denominator definitions (page 3)	Multiple beneficiary denominators and denominator methodologies available.
Residency definition (page 21)	Beneficiary mailing address at the end of the calendar year of the file.
Medicare Status Code (page 24)	This code is set on the first enrollment record for a beneficiary. If the field is empty, the beneficiary began Medicare enrollment prior to 2013).
Beneficiary Age (page 26)	Age is the *oldest* for the beneficiary at the end of the calendar year.
Beneficiary Sex (page 30)	No missing values for Sex. If gender is missing and the age is < 65, sex is set to *male.* If gender is missing and the age is > 65, sex is set to *female.*
Beneficiary Death (page 38)	No beneficiary is determined to be dead without a confirmation process.
Monthly HMO Indicators (page 56)	12 fields are present on every beneficiary record representing each month of the year. Values within these fields indicate if the beneficiary had managed care coverage for that month of the enrollment year.

Latest APCD Release Information and Data Tips

Release Information

- Available APCD data
  - Current APCD Data: Jan. 1, 2013–Dec. 31, 2022 (new update!)
  - [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](#)

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

Release Information

- Data Tips/Data Issues

  - [Cigna Entity Study ID Issue](#) – new

  - [Orphaned Pharmacy Claims – 67369](#) – new

  - [TPA/PBM Replacement data for EBD](#) – new rules

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

APCD Technical Support

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

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 website

- Next Data Users Group meeting: October 25, 2023