

Colorado All Payer Claims Database (CO APCD) Research Showcase

June 26, 2025



Agenda

- CIVHC and CO APCD Overview
- Public Reports on the Horizon
- Introduction to the Denver Indian Center
- Addressing the Problem
- Outcomes and Insights
- Additional Resources
- Ways to Partner with Us



Housekeeping

- All lines are muted
- Please ask questions in the Chat box, Q&A after each presentation
- Webinar is being recorded
- Link to the recording will be posted on the Event Resources page at: civhc.org





Who We Are



Our Mission

To equip partners and communities in Colorado and across the nation with the resources, services and unbiased data needed to improve health and health care.

Our Vision

Everyone has the opportunity to be healthy and has access to equitable, affordable, high-quality health care.

We Are

- Non-profit
- Independent and objective
- Service-oriented

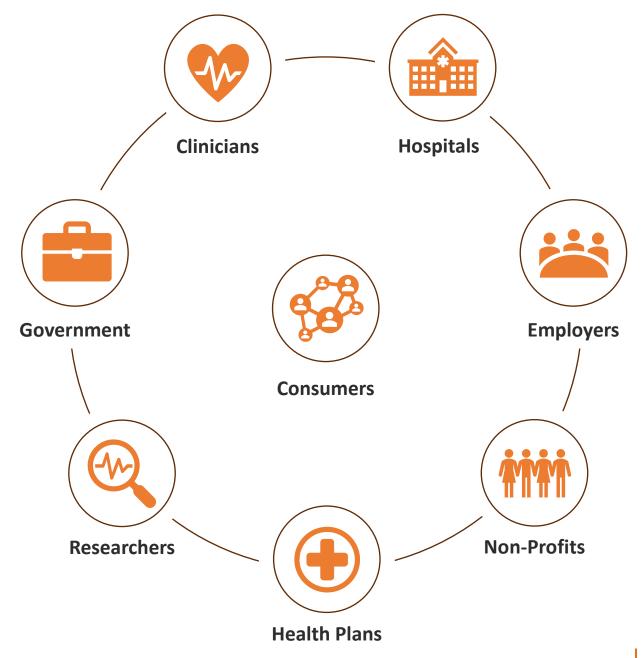


Who We Serve

Change Agents

Individuals, communities, or organizations working to lower costs, improve care, and make Colorado healthier.





How We Serve

Administrator of the Colorado All Payer Claims Database



Public CO APCD Data

Identify opportunities for improvement in your community through interactive reports and publications





Non-Public CO APCD Data

License data from the most comprehensive claims database in CO to address your specific project needs

- Analytic Services
- Research & Evaluation Services
- Program Focus Areas: Advance
 Care Planning, Palliative Care
- Community Engagement

What's in the CO APCD



1.3+ Billion Claims (2013-2024)



70% of Covered Lives (medical only, 2023)



33 Commercial Payers* + Medicaid & Medicare (FFS and Advantage)



5.7+ Million Lives*, Including 1M (50%) of self-insured



Trend information (2013-Present)

*Reflects calendar year 2023 payers only

What's not in the CO APCD



Federal Programs - VA, Tricare, Indian Health Services



Uninsured and self-pay claims



Majority of ERISA-based self-insured employers

Showcase Presenters



Kimi Landry, MPH, CIVHC Evaluation and Research Analyst



Clare Leather, MPH, CIVHC Public Reporting Program Manager



David Wright, MA, DICI, Grants Manager & Relationship Guidance Specialist

Recent Public Reporting Releases

- Community Dashboard
- Chronic Conditions Analysis (will be live today!)



Community Dashboard Background and Purpose

Background: The enabling legislation for the CO APCD (HB 10-1330) requires the creation and release of population health information.

Purpose: The Community Dashboard is designed to provide insights into health care trends, costs, and utilization patterns across Colorado.

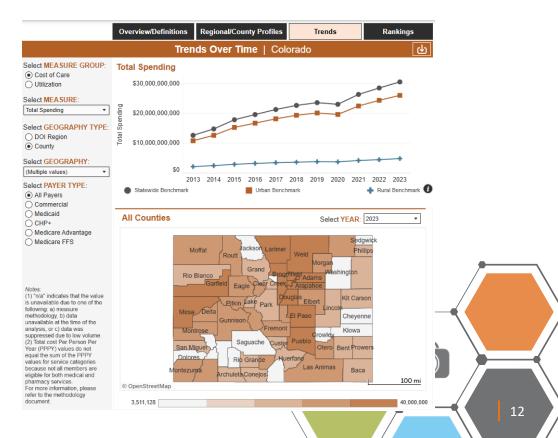
 The dashboard helps communities, policymakers, health care providers, and researchers identify disparities and opportunities for improvement.



CO APCD Community Dashboard

	Overview/Definitions		Regional/County Profiles		Trends	Ra	Rankings	
County Profile								
Select MEASURE GROUP:	С	ounty: Adams Urba	n 🕢	Cou	inty	Statewide	Urban	Rural
Cost of Care ▼		Total Spending		\$2,306M		\$30,513M	\$25,954M	\$4,559M
Select GEOGRAPHY TYPE: DOI Region County		Inpatient		\$531M	-	\$6,267M	\$5,353M	\$914M
		Outpatient		\$545M		\$8.148M	\$6,408M	\$1,739M
Select GEOGRAPHY:		Professional		\$785M	-	\$10.196M	\$8.996M	\$1,199M
Adams ▼		Totossional				,	\$0,550W	\$1,100W
Select YEAR:		Pharmacy		\$445M		\$5,904M	\$5,197M	\$707M
2023 🔻		Health Plan and Patient (Tota	al)	\$7,553	Ø	\$8,231	\$8,043	\$9,534
Select PAYER TYPE: All Payers Commercial Medicaid CHP+ Medicare Advantage Medicare FFS Notes: (1) "n/a" indicates that the value is unavailable due to one of the following: a) measure methodology, b) data unavailable at the time of the analysis, or c) data was suppressed due to low volume. (2) Total cost Per Person Per Year (PPPY) values do not equal the sum of the PPPY values for service categories because not all members are eligible for both medical and pharmacy services. For more information, please refer to the methodology document.	Cost of Care	Inpatient		\$1,789	0	\$1,720	\$1,687	\$1,948
		Outpatient		\$1,753	Ø	\$2,108	\$1,918	\$3,421
		Professional		\$2,636	Ø	\$2,876	\$2,909	\$2,652
		Pharmacy		\$1,461	Ø	\$1,689	\$1,687	\$1,706
		Health Plan Only (Total)		\$7,124	Ø	\$7,613	\$7,455	\$8,706
		Inpatient		\$1,750	0	\$1,674	\$1,641	\$1,902
		Outpatient		\$1,624	Ø	\$1,902	\$1,740	\$3,018
		Professional		\$2,442	Ø	\$2,598	\$2,633	\$2,358
		Pharmacy		\$1,389	Ø	\$1,593	\$1,590	\$1,610
		Patient Only (Total)		\$429	Ø	\$618	\$588	\$828
		Inpatient		\$39	O	\$46	\$46	\$46
		Outpatient		\$129	O	\$206	\$178	\$403
		Professional		\$193	O	\$278	\$276	\$294
		Pharmacy		\$72	O	\$97	\$97	\$95

Public Data> Featured Focus Area > Community Dashboard civhc.org



Chronic Conditions Report

Background: Chronic conditions are among the leading causes of death and disability in the United States. They reduce quality of life, drive up health care costs, and place a heavy burden on health systems nationwide.

Purpose: CIVHC's Chronic Conditions Analysis sheds light on 30 prevalent chronic diseases from 2017 to 2023 claims data in the CO APCD.

 Analysis includes trends in how common these conditions are, the average annual cost of care and total spending for individuals living with at least one chronic illness.

Chronic Conditions Report

Public Data> Featured Focus Area > Community Dashboard civhc.org

- Acute Myocardial Infarction Chronic Kidney Disease
- Alzheimer's Disease
- Anemia
- Asthma
- Atrial Fibrillation and Flutter
- Benign Prostatic Hyperplasia Glaucoma
- Cancer, Breast
- Cancer, Colorectal
- Cancer, Endometrial
- Cancer, Lung
- Cancer, Prostate
- Cancer, Urologic (Kidney, Renal Pelvis, and Ureter)
- Cataract

- Chronic Obstructive Pulmonary Disease
- Depression, Bipolar, or Other Depressive Mood Disorders
- Heart Failure and Non-Ischemic Heart Disease
- Hip/Pelvic Fracture
- Hyperlipidemia
- Hypertension
- Hypothyroidism
- Ischemic Heart Disease
- Non-Alzheimer's Dementia

- Osteoporosis with or Without Pathological Fracture
- Parkinson's Disease and Secondary Parkinsonism
- Pneumonia, All-cause
- Rheumatoid Arthritis/Osteoarthritis
- Stroke/Transient Ischemic Attack
- Individuals with one or more chronic conditions
- Individuals with two or more chronic conditions



Chronic Conditions Use Cases

Researchers: Study trends in condition prevalence and spending, compare outcomes over time, and assess the impact of health interventions.

Policymakers and State Agencies: Use statewide data to inform chronic disease policy, guide funding decisions, and evaluate health program effectiveness.



Chronic Conditions Use Cases

Employers: Use condition and cost data to design benefits that address employee health needs, reduce avoidable spending, and support targeted wellness programs.

Public Health Entities: Identify where chronic diseases are most common, support prevention strategies, and prioritize areas for community outreach.



Understanding Health Disparities Among American Indian and Alaska Native Communities in Colorado, 2014-2024



Insights from the Colorado All Payer Claims Database in partnership with the Denver Indian Center, Inc.



Kimi Landry (Research/Evaluation Analyst, CIVHC)

David Wright (Grants Manager/ Data Manager for the Honoring Fatherhood Program, DICI)



Building a Data Partnership with DICI to Support AI/AN Health Equity

- Project started through partnership discussions
- AI/AN communities need access to data
- CIVHC Equity Fund bridged data & evaluation gap
- First analysis of its kind for this population
- Goal: support culturally relevant provider training

Serving the Crossroads of Indian Country for over 50 years

To empower our American Indian youth, elders, families and community by promoting self-determination and economic, mental and physical health through education, advocacy and cultural enrichment.

The Denver Indian Center helped with:



1,000

Empowering Native American Fathers



800

Holiday Meal Vouchers



Countless Gifts

Christmas Gifts

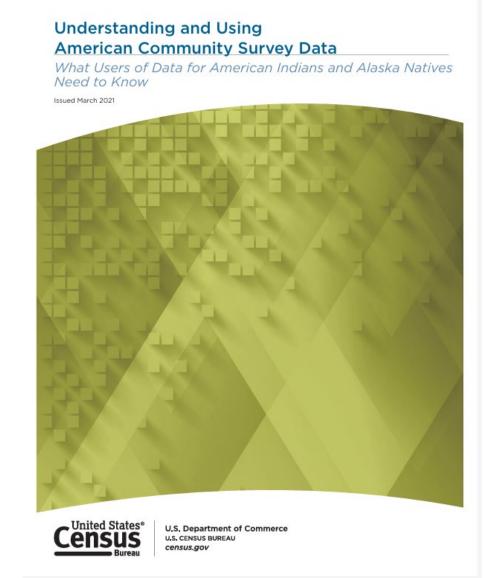


2.6 Million Dollars

Program and Support Services Annually

Our Data Approach

- 10 years of CO APCD data (2014– 2024)
- Social needs data from ACS + Z-codes
- Split into two timeframes to reflect changes in race reporting
 - 2014–2017 and 2018–2024
- AI/AN race prioritized when multiple races reported



https://www.census.gov/programs-surveys/acs/library/handbooks/aian.html

What We Asked

Most common conditions by group

Differences in care patterns

Cost variation between groups

Z-code use and ACS context

Social risks by race





What We Measured: Diagnoses

- Condition that triggered the visit
- Top 5 principal diagnoses
- Stratified by race & year
- Focused on treated conditions
- Not just chronic prevalence



What We Measured: Utilization, Cost, and Location of Care

- ER visits and hospital stays
- Readmissions and follow-up care
- Per-member costs and PMPM trends
- Out-of-pocket spending
- Top facilities and carelocations









Understanding Cost Measures



Total cost = system pays all



Out-of-pocket = you pay directly



PMPM = average cost per month

What We Measured: Social Determinants of Health





- Z codes for social risk
- Focused on housing, family structure, work
- ACS data for context
- Compared across race groups
- Trends in documentation gaps



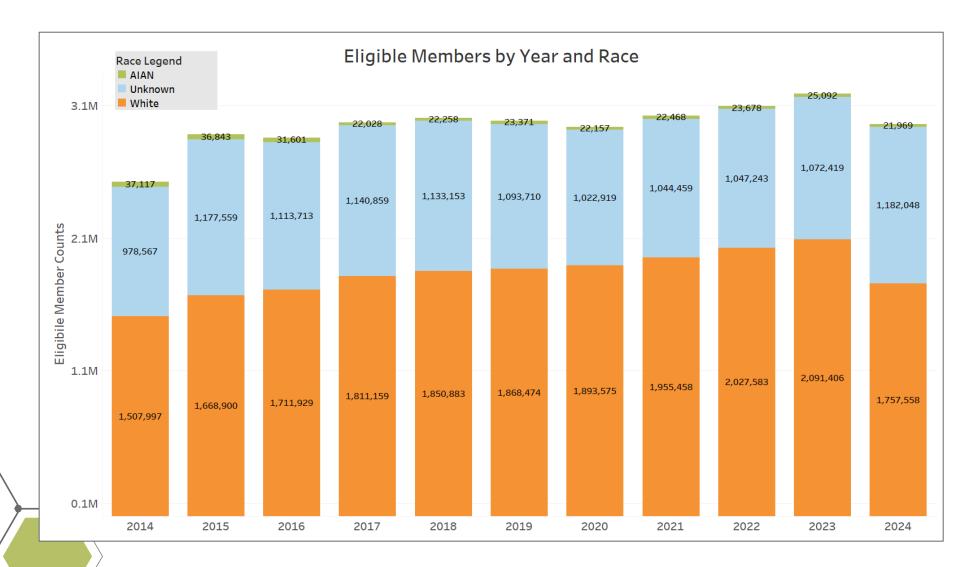
Who We Analyzed

Ages 0+ | Commercial | Medicaid | Medicare FFS | Medicare Advantage | Non-Dual Eligible

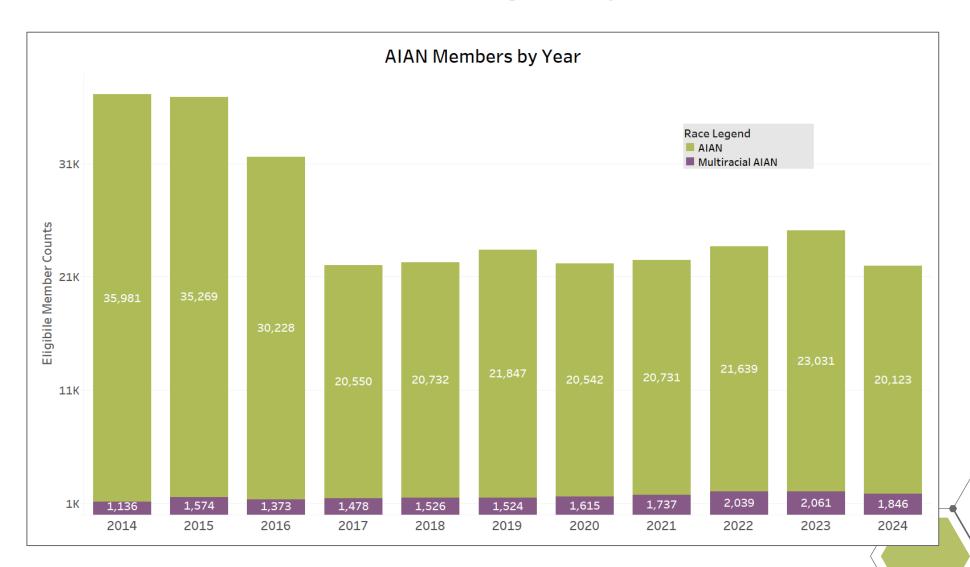
- ✓ Included
 - AI/AN individuals: Single race or Multiracial
 - Non-Hispanic White: Alone or unknown ethnicity
 - Individuals with missing or unknown race/ethnicity
- X Excluded
 - Black
 - Asian
 - Pacific Islander
 - Other races
 - Hispanic/Latino individuals, unless also AI/AN
- Final Cohort Size = 5.6 Million Unique Individuals



Eligible individuals by race and ethnicity (2014–2024)



AI/AN and Multiracial AI/AN Eligibility Trends (2014-2024)



27

Age and Gender Distribution

• AI/AN: 60% under 36

• NHW: 52% are 36+

• Unknown: 47% are 36+

• Women = majority in all groups

"Other" gender dropped over time



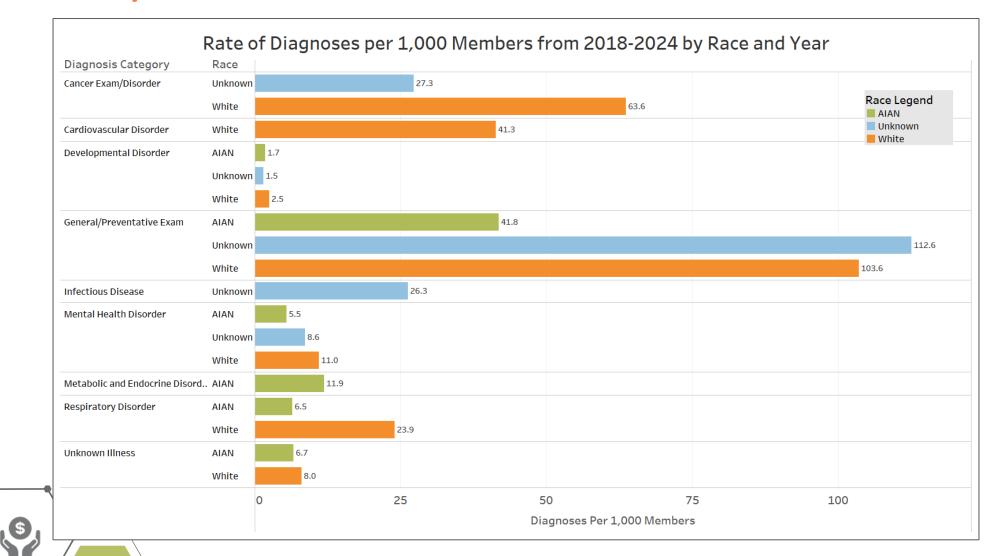




Health Insurance Eligibility Patterns

- AI/AN: Medicaid dropped; commercial rose from 12% to 18%
- Multiracial AI/AN: Commercial coverage jumped from 57% to 68%
- NHW: Commercial remained highest; Medicaid stable
- Unknown: Medicaid and commercial stable (~30% and ~55%, respectively)
- ACS vs Claims: 60% report private insurance, but 15% in claims

Top treated diagnoses among AI/AN and NHW populations (2018-2024)



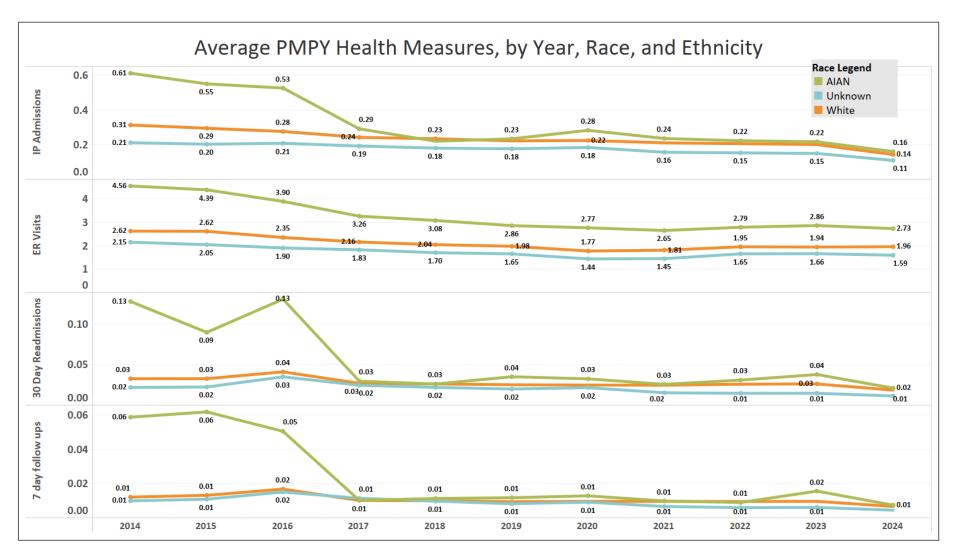
Health Care Utilization (2014-2024)

- Al/AN inpatient use fell 15%
- ER visits stayed disproportionately high
- Follow-up rates stayed under 5%
- Readmissions peaked in 2019 (AI/AN)
- Signals gaps in recovery care





PMPY for IP Admissions, ER Visits, 30-day Readmissions, and 7-day Follow Up Visits (2014-2024)





Cost of Care (2014-2024) – Burden by Race



- AI/AN: ~\$1,000 PMPM; higher ED use, fewer specialty visits
- NHW: Lower total cost overall, but higher out-of-pocket burden
- Unknown: Highest total and out-ofpocket cost; ~\$809/month in Medicare



Cost of Care (2014-2024) – Medicaid

- AI/AN: Highest cost early; \$1,600
 PMPM in 2014, out-of-pocket
 ~\$75/month
- NHW: Similar pattern but lower total costs; by 2020, < \$0.25/month
- Unknown: Similar drop in costs post-2018; very low out-of-pocket





Cost of Care (2014-2024) – Commercial

- AI/AN: Out-of-pocket stable at ~\$72/month (2014 & 2023); lower than others
- NHW: Highest burden in 2014 (\$160), still high in 2023 (\$96)
- Unknown: Highest peak in 2023 (\$194/month); large cost variability









Cost of Care (2014-2024) – Medicare



- Al/AN: Paid less than others 2014–
 2017; gaps widened after 2018
- NHW: Consistently high at \$180+
 PMPM
- Unknown: Peaked at \$809 in 2023;
 highest cost across all groups

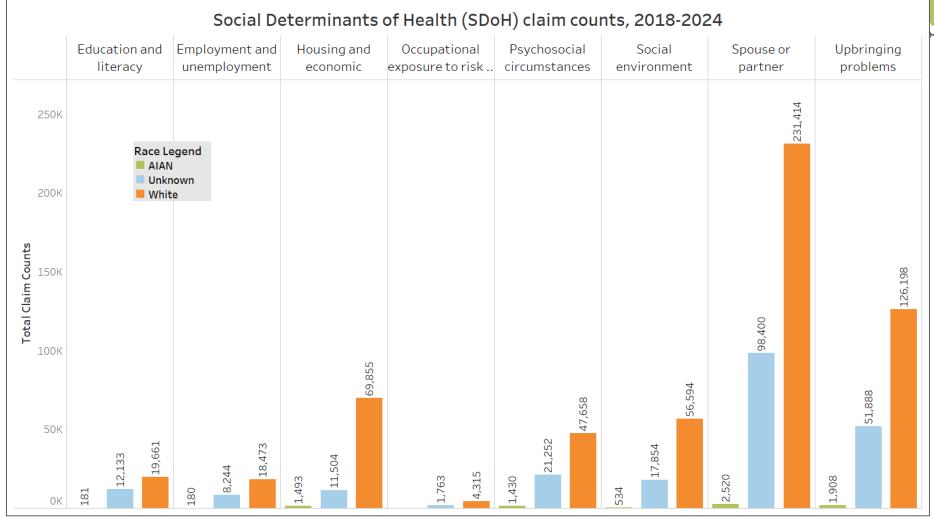
Utilization Analysis by City and Hospital (2018-2024)

- Denver Health had the highest AI/AN visit volume
- Volume concentrated in Denver and Aurora, across all racial groups
- Kaiser facilities saw a sharp rise in Al/AN visits
 - NHW and Unknown had 65%+ of visits at those facilities
- The data suggest a shift for AI/AN patients



Social Determinants of Health: Claims Data (2018-2024)





Social Determinants of Health: ACS vs Claims (2023)



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- ACS shows broader risk exposure
- Insurance rates don't align
- Disability rates higher for AI/AN
- Claims undercount commercial coverage
- Data gaps limit true visibility



Conclusion and Future Considerations



Claims show persistent care disparities



Chronic illness, cost burden remain



Data must inform real solutions



Train providers in cultural care



Combine data with lived experience

Limitations

Race/ethnicity coding changed over time 2024 data incomplete across payers CO APCD excludes IHS, uninsured Z codes often underreported in claims Suppression policies limit subgroup detail

References

- Adakai, M., Sandoval-Rosario, M., Xu, F., Aseret-Manygoats, T., Allison, M., Greenlund, K. J., & Barbour, K. E. (2018). Health Disparities Among American Indians/Alaska Natives in Arizona, 2017. Morbidity and Mortality Weekly Report, 67(47), 1314–1318. https://doi.org/10.15585/mmwr.mm6747a4
- Arias, E., Kochanek, K. D., Xu, J. Q., & Tejada-Vera, B. (2023). Provisional life expectancy estimates for 2022 (Vital Statistics Rapid Release, Report No. 31). National Center for Health Statistics. U.S. Department of Health & Human Services. https://www.cdc.gov/nchs/products/index.htm
- Bureau of Labor Statistics. (2023). A profile of American Indians and Alaska Natives in the U.S. labor force. U.S. Department of Labor. https://www.bls.gov/opub/mlr/2023/article/a-profile-of-american-indians-and-alaska-natives-in-the-us-labor-force.htm
- Centers for Disease Control and Prevention. (2010). Health Characteristics of the Native American or Alaska Native Adult Population in the United States, 2004–2008. National Center for Health Statistics. https://www.cdc.gov/nchs/data/ad/ad356.pdf
- Centers for Disease Control and Prevention. (2023). American Indian and Alaska Native health. U.S. Department of Health & Human Services. https://www.cdc.gov/nchs/fastats/american-indian-health.htm
- Garcia, A. N., Venegas-Murrillo, A., Martinez-Hollingsworth, A., Smith, L. V., Wells, K., Heilemann, M. V., Fischbach, L., Cummings, P. L., & Kuo, T. (2023). in an urban American Indian and Alaska Native population. Journal of Racial and Ethnic Health Disparities. https://doi.org/10.1007/s40615-023-01624-3
- GBD 2021 Fertility and Forecasting Collaborators. (2024). Global Demographic Trends and Their Implications for Health Systems. The Lancet, 403(10431), 1-10. Bill & Melinda Gates Foundation. https://doi.org/10.1016/S0140-6736(24)00550-6
- Ghaderi, H., Ojaghihaghighi, S., Pourahmad, S., & Hasanpour, A. (2023). Impact of the COVID-19 pandemic on emergency department visits and hospitalizations: A systematic review. BMC Emergency Medicine, 23(1), 1-12. https://doi.org/10.1186/s12873-023-00717-2
- Jim, M. A., Arias, E., Seneca, D. S., Hoopes, M. J., Jim, C. C., Johnson, N. J., & Wiggins, C. L. (2014). Racial misclassification of American Indians and Alaska Natives by Indian Health Service Contract Health Service Delivery Area. American Journal of Public Health, 104(S3), \$295–\$302. https://doi.org/10.2105/AJPH.2014.301933
- National Academies of Sciences, Engineering, and Medicine. (2023). The state of health disparities in the United States. National Center for Biotechnology Information. https://www.ncbi.nlm.nih.gov/books/NBK600454
- National Research Council. (1996). Mortality patterns and trends. In Changing numbers, changing needs: American Indian demography and public health (pp. 49–72). National Academies Press. https://doi.org/10.17226/5355
- Office of Minority Health. (2023). American Indian/Alaska Native health. U.S. Department of Health & Human Services. https://minorityhealth.hhs.gov/american-indianalaska-native-health
- Office of the Assistant Secretary for Planning and Evaluation. (2022). How increased funding can advance the mission of the Indian Health Service to improve health outcomes for American Indians and Alaska Natives. U.S. Department of Health & Human Services. https://aspe.hhs.gov/reports/ihs-funding-disparities-report
- Office of the Assistant Secretary for Planning and Evaluation, U.S. Department of Health and Human Services. (June 2024). Health Insurance Coverage and Access to Care among American Indians and Alaska Natives: Recent Trends and Key Challenges. Issue Brief No. HP-2024-15. Retrieved from: https://aspe.hhs.gov/reports/health-insurance-coverage-access-care-among-aian.
- Pew Research Center. (2022, June 7). About 5% of young adults in the U.S. say their gender is different from their sex assigned at birth. https://www.pewresearch.org/short-reads/2022/06/07/about-5-of-young-adults-in-the-u-s-say-their-gender-is-different-from-their-sex-assigned-at-birth/



Questions and Feedback





Reach out to KLandry@CIVHC.org, Cleather@civhc.org or David@DenverIndianCenter.org



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