Hospice Care in Colorado A Claims-Based Identification Approach

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To access the full hospice abstract and to learn more about public and non-public CO APCD data, visit civhc.org or view the QR code.





Research Objective

To validate a new methodology for identifying hospice care in claims by matching patient hospice care indicators on death records, providing a descriptive population analysis paving the way for a future cost-benefit evaluation of hospice care utilization.

Background

- Timely access to hospice care improves the quality of life at the end of life and reduces unnecessary or unwanted medical interventions (Kelley et al., 2013; Nicholas et al., 2024).
- National and state-level analyses often rely on incomplete or payer-specific data sources, limiting insights into equity and utilization patterns (McDermott et al., 2019; MedPAC, 2024).
- The Colorado All-Payer Claims Database (CO APCD) presents a unique opportunity to comprehensively identify and describe hospice services across various payer types and populations in Colorado (MAP, 2014; Abt Associates, 2023).

Study Design

This retrospective observational cohort study uses CO APCD claims data linked to Colorado death records (CDPHE) from 2018 to 2021.

Identified hospice claims in the CO APCD using:

- Place of Service code (34)
- CPT/HCPCS & bill type codes (e.g., T2042–T2046, 81X/82X)
- Hospice provider taxonomy codes

Identified hospice enrollment at time of death:

• CDPHE hospice flag

Stratified by year, insurance payer type, and dual eligibility status

Cohort

Included

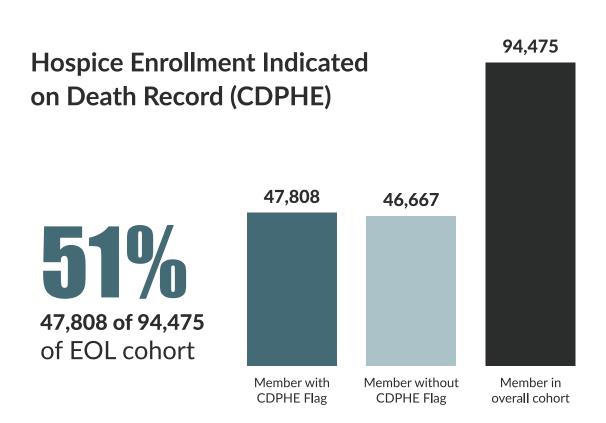
- ☑ Died between 2018 and 2021
- ✓ Age 18 or older
- ≥6 months of healthcare coverage before death
- ✓ 50% healthcare coverage 3 years before death

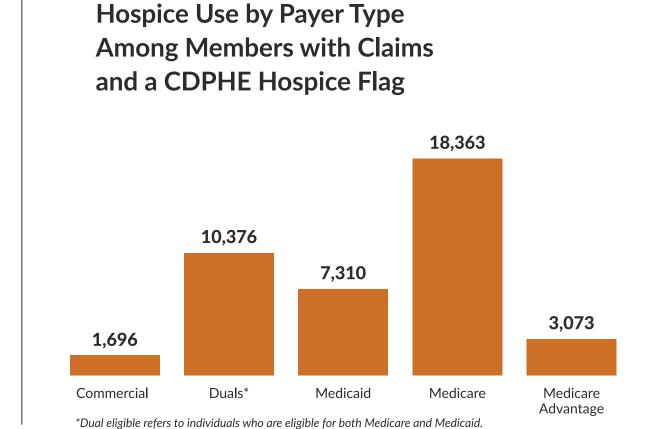
94,475 End-of-life Members

Excluded

- ▼ Traumatic deaths
- People with claims after they died
- People without six-months of eligibility prior to death

Principle Findings





Hospice Identification from Claims Methodology (CO APCD)

39,420
members had at least one hospice claim in the four years before death

58%

(27,664 of 47,808) of individuals

flagged for hospice on their death record also had hospice claims in the CO APCD.

Members without CDPHE Hospice Flag

11,756

Members with CDPHE Hospice Flag

27,664

Implications for Policy or Practice

Utilization trends and payer variation reflect differences in coverage design and access to hospice services (MedPAC, 2024).

Ensuring equitable access across payers may reduce crisis-driven care and improve quality of life (McDermott et al., 2019; Nicholas et al., 2024; MAP, 2014).

Changes to insurance coverage are necessary for more supportive, earlier, and sustained hospice engagement, not just in the final six months of life, especially for individuals with life-limiting chronic conditions (MAP, 2014; Abt Associates, 2023).

Conclusions

- The claims-based hospice identification methodology successfully captured utilization across payers, revealing essential differences in volume, and timing of care
- Higher utilization among Medicaid and Medicare members may reflect greater familiarity with benefits, targeted advocacy, or differences in referral patterns
- These findings provide a foundation for policy and practice changes aimed at improving equity, access, and timing of end-of-life care in Colorado (MedPAC, 2024; Nicholas et al., 2024; MAP, 2014)

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