Cost, Quality, Access/Utilization Community Dashboard Trends

May 24, 2023
Housekeeping

• All lines are muted
• Please ask questions in the Chat box
• Webinar is being recorded
• Slides and a link to the recording will be posted on the Event Resources page on civhc.org
Presenters

Douglas McCarthy
Local First Foundation, Health Care Advocate
Issues Research, Inc. President

Cari Frank
VP of Communication and Marketing
CIVHC
Agenda

• Community Dashboard 2023 update
• Initial trend results
• Demo and sample community journey
• Local First Foundation background and use case
• Q & A
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.

We are:

• Non-profit
• Independent
• Objective
Who We Serve

Change Agents

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

**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
What’s IN the CO APCD?

- Over 1 Billion Claims (2013-2022)
- 40 Commercial Payers, + Medicaid & Medicare (FFS/Advantage)
- 5.5+ Million Lives*, Including 1M (50%) of self-insured
- Over 70% of Covered Lives (medical only)*
- Trend information 2013-Present
What’s **NOT** In the CO APCD

**Federal Programs** – VA, Tricare, Indian Health Services

Majority of **ERISA-based self-insured employers**

**Uninsured and self-pay claims**

**Supplemental Info (incomplete)**
Community Dashboard 2023
Background

• Part of original legislation of the CO APCD
• Requirement to produce population-based information on cost, quality, conditions, access
• CIVHC has been producing some version of the Community Dashboard since 2012
  • Modifications over time
  • New measures
  • New visualizations
  • Insights
  • Excel data
What’s in the Community Dashboard?

- **Years**
  - 2013-2021
- **Payers**
  - Commercial Payers
  - Medicaid
  - Medicare Advantage
  - Medicare Fee-for-Service (through 2020 only)
- **Geography**
  - County
  - Division of Insurance Regions
- **Demographics (available in Excel file data)**
  - Age breakouts
  - Sex
What’s in the Community Dashboard?

**Cost (PPPY)**
- Health Plan and Patient
- Health Plan Only
- Patient Only
  - Inpatient
  - Outpatient
  - Professional
  - Pharmacy

**Quality**
- Cancer Screenings
  - Breast Cancer
  - Cervical Cancer
- Diabetes Care
  - HbA1c Testing
- Mental Health
  - Follow up after ED visit (7 days/30 days)

**Utilization/Access**
- Healthy Users/Non-Users
- Well Child Visits
  - <15, 15-30, >30 mos
- Access to Care
  - Children, Adults
- ED visits
  - All, Preventable
- Hospital visits
  - Preventable, Readmissions (All, Planned, Unplanned)
Health Care Payments Are Rising Overall
Payments Made by Health Plans and Patients combined, All Payers, 2013-2020

All Payments (2020)
$7,200 Per Person Per Year (PPPY)

- Provider Payments
  $2,300 PPPY
  +27%
- Outpatient Payments
  $1,800 PPPY
  +33%
- Pharmacy Payments
  $1,700 PPPY
  +97%
- Hospital Payments
  $1,600 PPPY
  -9%

Note: “All Payments” do not equal sum of service type payments because not all covered Coloradans have both medical and pharmacy coverage.
Out of Pocket Costs for Coloradans Continue to Rise

Patient Only Cost and Percent Increase from 2013-2020

Out of Pocket Costs (2020)

- **Commercial**: $870 PPPY
- **Medicare FFS**: $1,700 PPPY
- **Medicare Advantage**: $1,400 PPPY

Commercial in 2021 was $1,020 PPPY, a 43% increase over 2013 out of pocket costs.

*For 2021 data (except for Medicare FFS), methodology, and to view the interactive Community Dashboard, visit [www.cvhc.org](http://www.cvhc.org)*
Costs Vary Widely Across Counties
(Risk Adjusted Cost PPPY, Health Plan + Patient, All Payers, 2020)
Phillips County
(Risk Adjusted Cost PPPY, Health Plan + Patient, All Payers, 2020)

Inpatient and Outpatient costs higher than state/rural/urban
Phillips County
(Risk Adjusted Cost PPPY, Health Plan + Patient, All Payers, 2020)

Consistently over $10,000 PPPY since 2013
Phillips County
(Risk Adjusted Cost PPPY, Health Plan + Patient, 2020)

<table>
<thead>
<tr>
<th>Payer</th>
<th>Inpatient</th>
<th>Outpatient</th>
<th>Professional</th>
<th>Pharmacy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
<td>$1270</td>
<td>$3380</td>
<td>$1290</td>
<td>$2030</td>
</tr>
<tr>
<td>Medicaid</td>
<td>$2890</td>
<td>$3300</td>
<td>$1420</td>
<td>$790</td>
</tr>
<tr>
<td>Medicare Adv.</td>
<td>$4000</td>
<td>$18000</td>
<td>$5200</td>
<td>$150</td>
</tr>
<tr>
<td>Medicare FFS</td>
<td>$7000</td>
<td>$7900</td>
<td>$2230</td>
<td>$5250</td>
</tr>
</tbody>
</table>
Phillips County
(Risk Adjusted Cost PPPY, Health Plan + Patient, Medicare Advantage)
Phillips County
(Risk Adjusted Cost PPPY, Health Plan + Patient, Medicare Advantage)
Cost of Care Analysis: Outpatient Services
Currently part of the Affordability Dashboard at civhc.org

### GLOBAL DASHBOARD FILTERS
- **PAYER TYPE:** All Payers
- **YEAR:** 2021
- **DIVISION OF INSURANCE REGION:** East

### TOP OUTPATIENT SPENDING CATEGORIES
*(All Payer Types, 2021)*
- **MEASURE:** Average Spending Per Person Per Year

#### Average Spending Per Person Per Year

<table>
<thead>
<tr>
<th>Service</th>
<th>Average Spending Per Person Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgery</td>
<td>$799</td>
</tr>
<tr>
<td>Other</td>
<td>$480</td>
</tr>
<tr>
<td>ED</td>
<td>$463</td>
</tr>
<tr>
<td>Total Rx</td>
<td>$277</td>
</tr>
<tr>
<td>Clinic</td>
<td>$275</td>
</tr>
<tr>
<td>Specialty Rx</td>
<td>$194</td>
</tr>
<tr>
<td>Total Diagnostic Imaging</td>
<td>$181</td>
</tr>
<tr>
<td>HomeHealth/PT/OT/ST</td>
<td>$171</td>
</tr>
<tr>
<td>Total Lab</td>
<td>$167</td>
</tr>
<tr>
<td>Advanced Imaging</td>
<td>$100</td>
</tr>
<tr>
<td>Observation</td>
<td>$59</td>
</tr>
<tr>
<td>X-Ray</td>
<td>$40</td>
</tr>
<tr>
<td>Hospital Urgent Care Services</td>
<td>$0</td>
</tr>
</tbody>
</table>

Select a service in the bar chart to highlight in the line chart.

![Line Chart](chart.png)
<table>
<thead>
<tr>
<th>Measure</th>
<th>Percent Increase/Decrease</th>
<th>Rate Per Person 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthy Users</td>
<td>-15%</td>
<td>175/1,000</td>
</tr>
<tr>
<td>Non-Users</td>
<td>+2%</td>
<td>245/1,000</td>
</tr>
<tr>
<td>ED Visits</td>
<td>-10%</td>
<td>281/1,000</td>
</tr>
<tr>
<td>Potentially Preventable ED Visits</td>
<td>-24%</td>
<td>104/1,000</td>
</tr>
<tr>
<td>Potentially Preventable Hospitalizations</td>
<td>-45%</td>
<td>672/100,000</td>
</tr>
<tr>
<td>Unplanned Hospital Readmissions</td>
<td>-29%</td>
<td>7/1,000</td>
</tr>
</tbody>
</table>
Commercial Only – Potentially Preventable ED Visits

Statewide Percent Change
2019-2020: -13%
2020-2021: +.4%

Statewide Benchmark, 2020
Emergency Department Visits: Potentially Preventable, Per 1,000 People*
(Lower values are better.)

<table>
<thead>
<tr>
<th>Year</th>
<th>Value Per 1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Previous Year (2019)</td>
<td>41.9</td>
</tr>
<tr>
<td>Current Year (2020)</td>
<td>36.5</td>
</tr>
</tbody>
</table>

% Change from Previous Year: -13.0%
Medicaid Only – Potentially Preventable ED Visits

Utilization and Access to Care | Colorado

Statewide Percent Change
2019-2020: -26.8%
2020-2021: -4.3%%
### Quality of Care and Preventive Care, 2013-2021 All Payers (not Medicare Rx dependent)

<table>
<thead>
<tr>
<th>Measure</th>
<th>Percent Increase/Decrease</th>
<th>2020 Percent of Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast Cancer Screenings</td>
<td>+5%</td>
<td>62%</td>
</tr>
<tr>
<td>Cervical Cancer Screenings</td>
<td>+16%</td>
<td>55%</td>
</tr>
<tr>
<td>Diabetes HbA1c</td>
<td>+8%</td>
<td>84%</td>
</tr>
<tr>
<td>Follow-up Post Mental Health ED Visit (7 days)</td>
<td>+63%</td>
<td>59%</td>
</tr>
<tr>
<td>Follow-up Post Mental Health ED Visit (30 days)</td>
<td>+49%</td>
<td>73%</td>
</tr>
<tr>
<td>Access to Care: Children/Adolescents</td>
<td>-5%</td>
<td>78%</td>
</tr>
<tr>
<td>Access to Care: Adults</td>
<td>+3%</td>
<td>77%</td>
</tr>
</tbody>
</table>
Follow-up Post Mental Health ED Visit (7 days), All Payers, 2021

Quality of Care | Colorado

Mental Health Emergency Department Visits: Follow-up

County: Alamosa | Rural

- Alamosa: 82.9%
- Statewide: 58.7%
- Urban: 57.2%
- Rural: 71.1%
Follow-up Post Mental Health ED Visit (7 days), All Payers, Trends
Where do patients receiving telemedicine for a mental health reason live?

Rate per 1,000 people
Select a county to filter throughout dashboard

What are the top mental diagnoses?

Top diagnosis by utilization

- Post-traumatic stress disorder, unspecified: 18%
- Major depressive disorder, single episode, unspecified: 9%
- Generalized anxiety disorder: 7%
- Anxiety disorder, unspecified: 5%

What are the top mental health services?

Top services by utilization

- Psychiatry Services and Procedures: 93%
HEALTH EQUITY ANALYSIS: available at civhc.org
Impact of Social Determinants on Health Care

Cost
Use
Access
Health Equity Analysis
Statewide Insights and Findings

Social factors in this analysis:

- Were **strongly related** to higher potentially preventable Emergency Department visits.
- Were **strongly related** to adults not receiving preventive health care.
- Did not impact children and adolescents receiving preventive health care.
- Did not impact total cost of health care services.
- Were moderately to weakly related to follow-up care after visiting the ED for a mental health need.
Weaving a Data Tapestry
For Local Healthcare Accountability and Improvement

Doug McCarthy, MBA
President, Issues Research, Inc., Durango
Healthcare Advocate, Local First Foundation
Board member, Center for Improving Value in Health Care

May 25, 2023
Nonprofit alliance of locally owned, independent businesses and organizations working together to build an economy that values people, planet, and prosperity for everyone.

Local First Foundation mission: build local self-reliance, sense of place, and well-being for stakeholders of the greater La Plata County community.
<table>
<thead>
<tr>
<th>Source</th>
<th>Tool</th>
<th>Unit of Analysis</th>
<th>Types of Data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Community Dashboard</td>
<td>County/Region</td>
<td>Healthcare cost, quality, access, and utilization</td>
</tr>
<tr>
<td></td>
<td>Health Equity Analysis</td>
<td>Census Tracts</td>
<td>Healthcare cost, quality, access, and utilization</td>
</tr>
<tr>
<td></td>
<td>APCD Standard Reports</td>
<td>County</td>
<td>Low-value care, Patient outmigration, Cost drivers, Avoidable ED visits, Top procedures, etc.</td>
</tr>
<tr>
<td>County Health Rankings &amp; Roadmaps</td>
<td>County Health Rankings</td>
<td>County</td>
<td>Health Outcomes: Length &amp; Quality of Life Health Factors: Health Behaviors, Clinical Care, Social &amp; Economic Factors, Physical Environment</td>
</tr>
<tr>
<td></td>
<td>Health Access Survey</td>
<td>Region</td>
<td>Access to healthcare and social drivers of health</td>
</tr>
<tr>
<td></td>
<td>Colorado Health Information Dataset</td>
<td>County (some data)</td>
<td>Maternal, child, adolescent &amp; adult health Communicable and chronic diseases Drug use and overdose deaths Vital statistics: births, deaths</td>
</tr>
<tr>
<td></td>
<td>CDPHE Community Health Equity Map</td>
<td>County</td>
<td>Population Density, Age, Disability, Education, Employment, Poverty, Language, Race/Ethnicity, Life Expectancy, Chronic Diseases, Drug Overdoses, Suicide, Low Birthweight</td>
</tr>
<tr>
<td>Source</td>
<td>Tool</td>
<td>Unit of Analysis</td>
<td>Types of Data</td>
</tr>
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<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Shop for Care</strong></td>
<td>Facilities</td>
<td>Average prices and quality of care for specific procedures and imaging tests</td>
<td></td>
</tr>
<tr>
<td><strong>Medicare Reference Based Pricing</strong></td>
<td>Hospitals</td>
<td>Hospital payments by private insurers as a percent of Medicare payments</td>
<td></td>
</tr>
<tr>
<td><strong>Hospital Compare</strong></td>
<td>Hospitals</td>
<td>Quality and outcomes of care for key conditions, e.g., heart attack, heart failure, pneumonia, etc.</td>
<td></td>
</tr>
<tr>
<td><strong>Nursing Home Compare</strong></td>
<td>Nursing Homes</td>
<td>Resident-reported quality of care and outcomes</td>
<td></td>
</tr>
<tr>
<td><strong>Medicare Cost Reports</strong></td>
<td>Hospitals</td>
<td>Hospital profitability</td>
<td></td>
</tr>
<tr>
<td><strong>Hospitals Index</strong></td>
<td>Hospitals</td>
<td>Holistic ratings of hospital and health system performance including community benefits</td>
<td></td>
</tr>
<tr>
<td><strong>HEDIS/Quality Compass</strong></td>
<td>Health Plans</td>
<td>Quality of care for specific conditions Patient experience of care</td>
<td></td>
</tr>
<tr>
<td>SOCIAL DETERMINANTS OF HEALTH</td>
<td>HEALTH CARE MEASURES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Income</strong></td>
<td><strong>Access to Care</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent Below Poverty</td>
<td>No Recent Primary Care Visits for Children &amp; Adolescents (lower is better)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15%</td>
<td>19% 18% 17% 21% 13% 18% 17% 18% 21% 18% 16% 18% 18% -2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>No Recent Preventive or Ambulatory Care Visits for Adults (lower is better)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent Without High School Diploma</td>
<td>33% 28% 28% 22% 36% 36% 37% 40% 46% 47% 36% 21% 22% 21% -1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employment</td>
<td>No Follow-up After Emergency Department Visit for Mental Health (lower is better)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent Unemployed</td>
<td>7% 2% 4% 3% 4% 6% 5% 2% 3% 6% 4%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing &amp; Transportation</td>
<td>Risk-Adjusted Payments by Health Insurance and Insured Individuals Per Person Per Month*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crowded Housing and/or No Vehicle (decile rank from 0 to 1)</td>
<td>$631 $756 $635 $831 $571 $518 $562 $453 $468 $606 $588 $645 $597 $716 $48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Race, Ethnicity, and Language</td>
<td>Emergency Department Visits (rate per 1,000; lower may be better)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>People of Color and/or With Limited English (decile rank from 0 to 1)</td>
<td>0.77 0.70 0.70 0.49 0.40 0.60 0.79 0.98 0.53 0.79 0.70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access to Care</td>
<td>Potentially Preventable Emergency Department Visits (rate per 1000; lower is better)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Follow-up After Emergency Department Visit for Mental Health (lower is better)</td>
<td>0.56 0.29 0.26 0.15 0.56 0.31 0.16 0.30 0.38 0.05 0.30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SOURCE**

Data compiled by the Center for Improving Value in Health Care (CIVHC) from the American Community Survey (various years) and the Colorado All-Payer Claims Database (2019).

*Lower cost may indicate more efficient use of resources, or reflect differences in sources of payment or inadequate access to care; interpret with caution.
# Relationship Between Social Drivers of Health & Health Care

## La Plata County

<table>
<thead>
<tr>
<th>Health Care</th>
<th>Income</th>
<th>Education</th>
<th>Employment</th>
<th>Housing &amp; Transport</th>
<th>Race, Ethnicity &amp; Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access to Care: Children &amp; Adolescents</td>
<td>0.13</td>
<td>-0.19</td>
<td>0.22</td>
<td>0.29</td>
<td>-0.56</td>
</tr>
<tr>
<td>Access to Care: Adults</td>
<td>0.44</td>
<td>-0.46</td>
<td>0.22</td>
<td>0.28</td>
<td>-0.06</td>
</tr>
<tr>
<td>Quality: Follow-Up After ED Visit for Mental Health</td>
<td>0.06</td>
<td>0.19</td>
<td>0.43</td>
<td>-0.40</td>
<td>0.54</td>
</tr>
<tr>
<td>Cost of Health Care per Person per Year</td>
<td>-0.20</td>
<td>0.16</td>
<td>-0.12</td>
<td>-0.27</td>
<td>-0.25</td>
</tr>
<tr>
<td>Utilization: All Emergency Department (ED) Visits</td>
<td>0.32</td>
<td>0.34</td>
<td>0.25</td>
<td>0.04</td>
<td>0.06</td>
</tr>
<tr>
<td>Utilization: Potentially Preventable ED Visits</td>
<td>0.36</td>
<td>0.27</td>
<td>0.31</td>
<td>0.02</td>
<td>0.09</td>
</tr>
</tbody>
</table>

## Colorado

<table>
<thead>
<tr>
<th>Health Care</th>
<th>Income</th>
<th>Education</th>
<th>Employment</th>
<th>Housing &amp; Transport</th>
<th>Race, Ethnicity &amp; Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access to Care: Children &amp; Adolescents</td>
<td>0.14</td>
<td>0.03</td>
<td>0.09</td>
<td>0.15</td>
<td>0.05</td>
</tr>
<tr>
<td>Access to Care: Adults</td>
<td>0.62</td>
<td>0.57</td>
<td>0.37</td>
<td>0.54</td>
<td>0.58</td>
</tr>
<tr>
<td>Quality: Follow-Up After ED Visit for Mental Health</td>
<td>0.27</td>
<td>0.13</td>
<td>0.19</td>
<td>0.24</td>
<td>0.07</td>
</tr>
<tr>
<td>Cost of Health Care per Person per Year</td>
<td>-0.11</td>
<td>-0.16</td>
<td>-0.09</td>
<td>0.03</td>
<td>-0.20</td>
</tr>
<tr>
<td>Utilization: All Emergency Department (ED) Visits</td>
<td>0.58</td>
<td>0.62</td>
<td>0.40</td>
<td>0.53</td>
<td>0.53</td>
</tr>
<tr>
<td>Utilization: Potentially Preventable ED Visits</td>
<td>0.57</td>
<td>0.65</td>
<td>0.39</td>
<td>0.51</td>
<td>0.56</td>
</tr>
</tbody>
</table>

Data Source: Center for Improving Value in Health Care
Many thanks to our financial supporters

Contact: doug@local-first.org
970-799-6618 x4

https://foundation.local-first.org/health-care/
Questions? Suggestions?

Reach out to info@civhc.org

Connect with CIVHC on Facebook, LinkedIn, and Twitter

Recording will be posted here: www.civhc.org/about-civhc/news-and-events/event-resources/