



CENTER FOR IMPROVING
VALUE IN HEALTH CARE

Data Innovations to Inform Rural Health Care Progress

January 10, 2018

Cari Frank, MBA
VP of Communication & Marketing

Who We Are

Our Mission:

We strive to empower individuals, communities, and organizations through collaborative support services and health care information to advance the Triple Aim.



Who We Serve

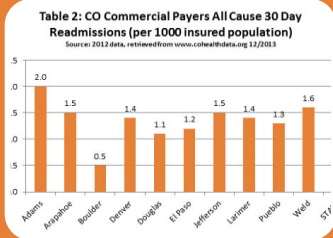
Change Agents:

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



Focus Areas

Data Transparency



- Colorado All Payer Claims Database Administrator
- Provide public and custom data to advance the Triple Aim



Health Care Reimbursement

- Support new ways to pay for care that lower costs and improve outcomes through data, analytics, education and convening



Care Delivery

- Manage Healthy Transitions Colorado, a care transitions collaborative
- Work with organizations to expand access to Palliative Care

CO APCD History

2008

CO APCD recommended by Blue Ribbon Commission for Health Care Reform

2012-2013

CO APCD operational; website goes live; begin providing custom data requests

2010

CO APCD Legislation (HB 10-1330); CIVHC named administrator by HCPF

2013-Present

Enhancements to CO APCD public data and infrastructure, data onboarding; expanded access to custom data; transition to new data vendor

Colorado APCD Data & Covered Lives

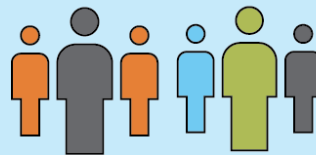
Health
First
Colorado*

Medicare &
Medicare
Advantage

21+
Commercial
Payers



641+ Million
Medical, Pharmacy,
& Dental Claims



Approx.
4.3 Million
Unique Lives



Majority of
Insured Coloradans

*Colorado's Medicaid Program

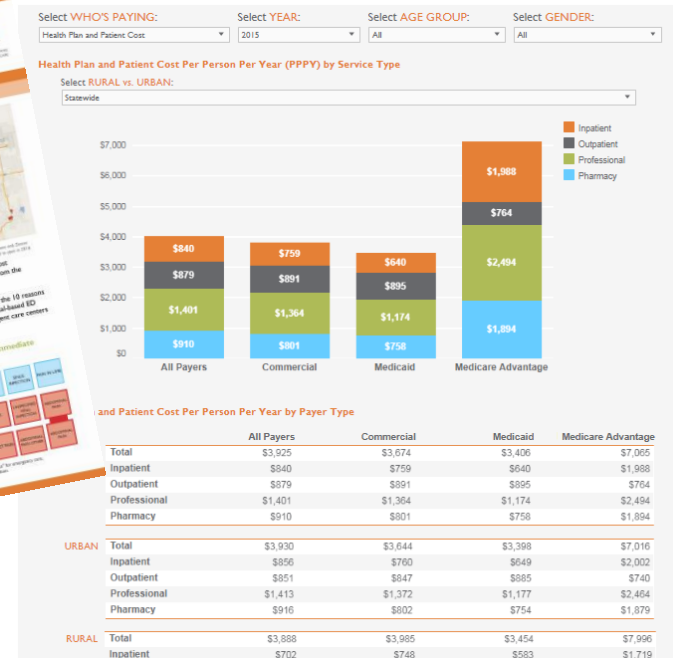
Updated August 2017

CO APCD Data Availability



Public Data

- Interactive Website
- Spot Analysis/Data Bytes
- Infographics and Other Publications



Select INSURANCE TYPE: (All) Select YEAR: (All) Select MEMBER COUNTY: (All) Select MEMBER ZIP CD: (All) Select AGE: (All) Select GENDER: (All) Select SERVICE CATEGORY: (All) Sort by: Claim Count

List of Providers - Click on a provider to show Service Category detail

| Service Provider | Claim Count | Total Amount Paid | Total Member Liability | Total Payer Paid | Avg Travel Distance (miles) |
|-----------------------|-------------|-------------------|------------------------|------------------|-----------------------------|
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Non - Public Data

- Standard Reports
- Custom Reports
- Data Sets

Interactive Statewide Reports available at www.civhc.org:

- Cost of Care Report
- Quality Report
- Utilization Report
- Condition Prevalence Report – *Early 2018*

Planned Website Updates

- Facility Price and Quality Information – *Q1/Q2 2018*

Public Data



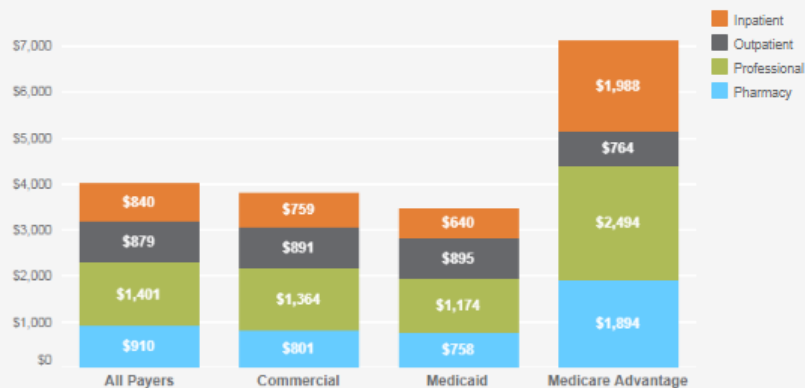
Cost of Care Interactive Reports

Select WHO'S PAYING: Health Plan and Patient Cost
 Select YEAR: 2015
 Select AGE GROUP: All
 Select GENDER: All

Health Plan and Patient Cost Per Person Per Year (PPPY) by Service Type

Select RURAL vs. URBAN:

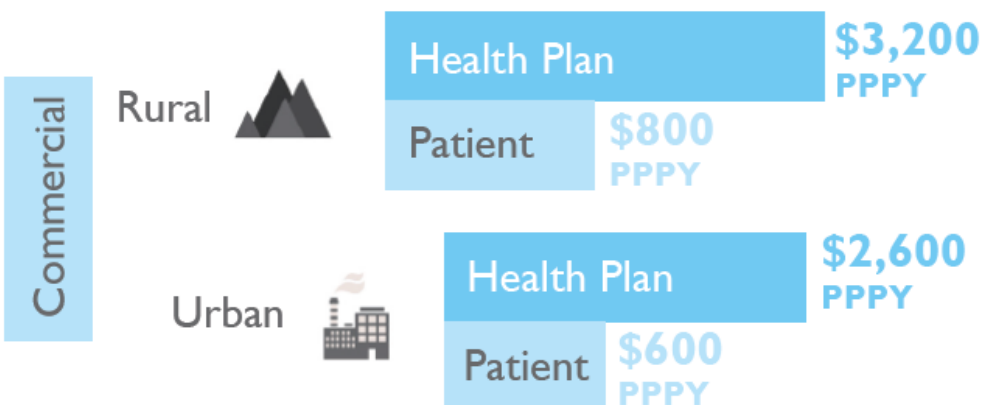
Statewide



In general, expenses for rural Coloradans are higher.

Rural Medicare Advantage patients pay **nearly double the out-of-pocket costs** annually compared to urban residents.

Medicare Advantage



| Population Health Information | | | |
|---|--------------------------------|--|--|
| Topic | Timing | Phase I - End of 2017 | Phase II - Fall 2018 |
| | Payers/ Years/ Demographics | 2012-2015 trend data for Medicare Advantage, Medicaid, Commercial payers; county level, HSR; urban vs. rural breakouts; demographic breakouts (M/F, age) | Updated years and additional payers including Medicare FFS |
| Cost of Care - Phase I AVAILABLE NOW | Measures | Cost of Care Per Person Per Year by service category and breakouts above | Illness Burden Scores |
| Utilization - Phase I AVAILABLE NOW | Measures | Unplanned Hospitalizations | Professional Visit |
| | | 30-day Readmissions | Potentially Preventable ER |
| | | Outpatient Services | |
| | | ER Visits | |
| | | Observation Stays | |
| | | Pharmacy Scripts, All | |
| Chronic Conditions | Measures | Pharmacy Scripts, Generic Only | |
| | | Breast Cancer | Generalized Anxiety Disorder |
| | | Colorectal Cancer | Teen Pregnancy Rates |
| | | Cervical Cancer | Asthma hospitalizations |
| | | Diabetes Type I | |
| | | Diabetes Type II | |
| | | Lung Cancer | |
| | | Asthma | |
| | | Chronic Obstructive Pulmonary Disease (COPD) | |
| | | Congestive Heart Failure | |
| Quality - Phase I AVAILABLE NOW | Preventive Measures | Hypertension (with/without complications) | |
| | | Depression | |
| | | Breast Cancer Screening | Children Developmental Screening |
| | Appropriate-treatment measures | Cervical Cancer Screening | Depression screening |
| | | Colorectal Cancer Screening | Maternal depression screening |
| | | Appropriate Medication for Asthma | Diabetes Care Eye Exam |
| | Patient safety Measures | Diabetes A1c Test | Ischemic Vascular Disease Lipid Panel |
| | | Hospital 30-Day Readmissions | |
| | Access Measures | | C-section rates |
| | | | Imaging for low back pain |
| | | | Child and Adolescent access to primary care |
| | | | Adult access to preventive/ambulatory care |

Planned Updates: Consumer Shopping

My Selections

Change

- Service (Select): **Knee Arthroscopy**
- Location (Select): **Within 10 miles of 80129**
- Health Insurance (Select): **Aetna**



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| Facility Name | Distance | Estimated Price | Quality | |
|-----------------------------|----------|---|--------------------|-------------------------|
| | | Total Price (median plan/patient paid amt) | Patient Experience | 5-Star Hospital Ranking |
| Named Hospital A | 1.5 m | \$15,000 | ★★★★★ | ★★★★★ |
| Named Hospital B | 2.5 m | \$17,000 | ★★★★★ | ★★★★★ |
| Ambulatory Surgery Center A | 2.8 m | \$22,000 | ★★★★★ | ★★★★★ |
| Ambulatory Surgery Center B | 10 m | \$11,000 | ★★★★★ | ★★★★★ |

DEMO DATA ONLY

Planned Measures, Consumer Shopping Tool

Price and Quality Information

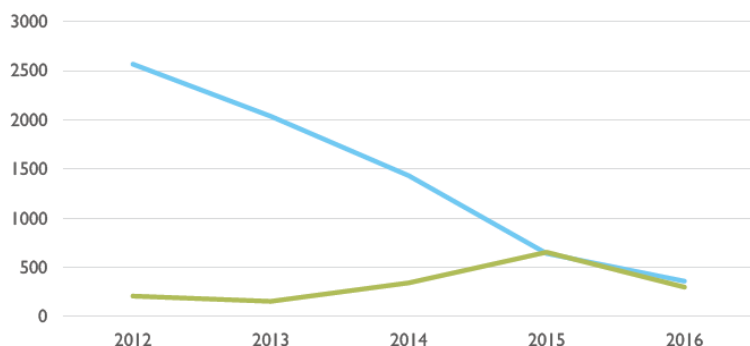
| Named Facility Price and Quality Information Prometheus Episode Bundles (One price for all related care for defined period before/after) | Timing | Phase I Early 2018 | Phase II - Summer/Fall 2018 |
|--|---------------|--|--|
| | Payers/ Years | Commercial Calendar Year 2015 | Medicare, Medicaid, Commercial, Years TBD |
| | Facilities | Hospitals, Ambulatory Surgery Centers | Hospitals, Ambulatory Surgery Centers, Imaging Centers |
| | Quality | Patient Experience | Patient Experience |
| | | 5-star Overall Hospital Compare Rating | 5-star Overall Hospital Compare Rating |
| | Service | Knee Arthroscopy | CT Scans - Abdomen and pelvis with contrast |
| | | Cataract Surgery | CT Scans - Abdomen and pelvis without |
| | | Colonoscopy | CT Scans - Head/brain without dye |
| | | Breast Biopsy | MRI - Brain stem with dye |
| | | Gall Bladder Surgery | MRI - Brain stem without dye |
| | | Upper GI Endoscopy | Echo exam of abdomen |
| | | Tonsillectomy | X-ray - Chest frontal view |
| | | Knee replacement | X-ray - Chest frontal and lateral view |
| | | Hip replacement | X-ray exam - Abdomen |
| | | Vaginal birth | X-ray exam - Ankle |
| | | C-Section | X-ray exam - Foot |
| | | | X-ray exam - Hand |
| | | | X-ray exam - Knee |
| | | | X-ray exam - Shoulder |
| | | | X-ray exam - Wrist |

Vimovo/Duexis-
CO has spent over
\$24 million on drugs
available over-the-counter at
a fraction of the cost.

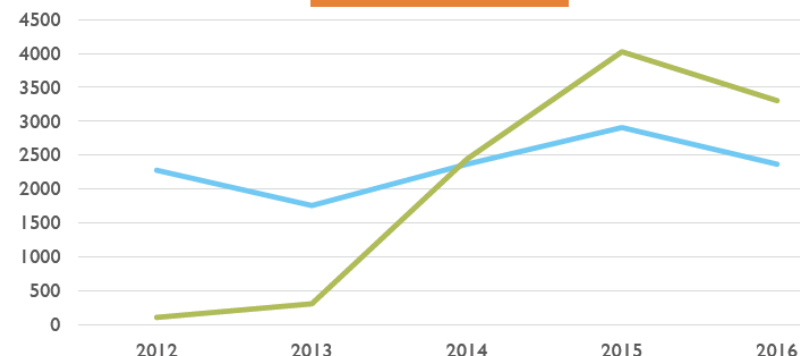


NUMBER OF VIMOVO AND DUEXIS PRESCRIPTIONS BY YEAR (2012-2016, CO APCD)

COMMERCIAL



MEDICAID



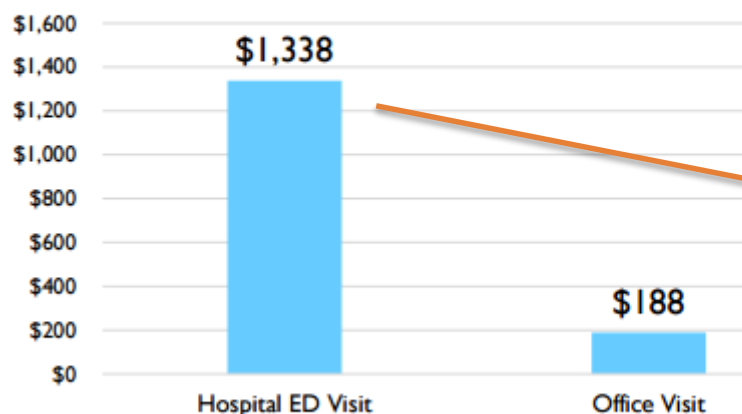
Public Data Spot Analysis: ED/FSED



Top 10 Reasons (not ordered by frequency) Colorado Patients Seek Immediate Care Across Settings (2014, Commercial Payers, CO APCD)

| URGENT CARE | COMMON COLD | URINARY TRACT INFECTION | OPEN WOUND ON FINGER(S) | SORE THROAT | BRONCHITIS | EAR INFECTION, OTHER | COUGH | STREP THROAT | SINUS INFECTION | PAIN IN LIMB |
|-------------------|-------------|-------------------------|-------------------------|------------------------------|-------------|----------------------|-------------------------|--------------|-----------------------------|----------------|
| FREE STANDING ED | COMMON COLD | URINARY TRACT INFECTION | OPEN WOUND ON FINGER(S) | SORE THROAT | BRONCHITIS | EAR INFECTION | SPRAIN/ STRAIN OF ANKLE | FEVER | UNSPECIFIED VIRAL INFECTION | ABDOMINAL PAIN |
| HOSPITAL-BASED ED | COMMON COLD | URINARY TRACT INFECTION | OPEN WOUND ON FINGER(S) | SUDDEN LOSS OF CONSCIOUSNESS | HEAD INJURY | HEADACHE | CHEST PAIN, OTHER | CHEST PAIN | ABDOMINAL PAIN, OTHER | ABDOMINAL PAIN |

Figure I. Average Cost for Hospital vs. Outpatient Visit for Similar Conditions

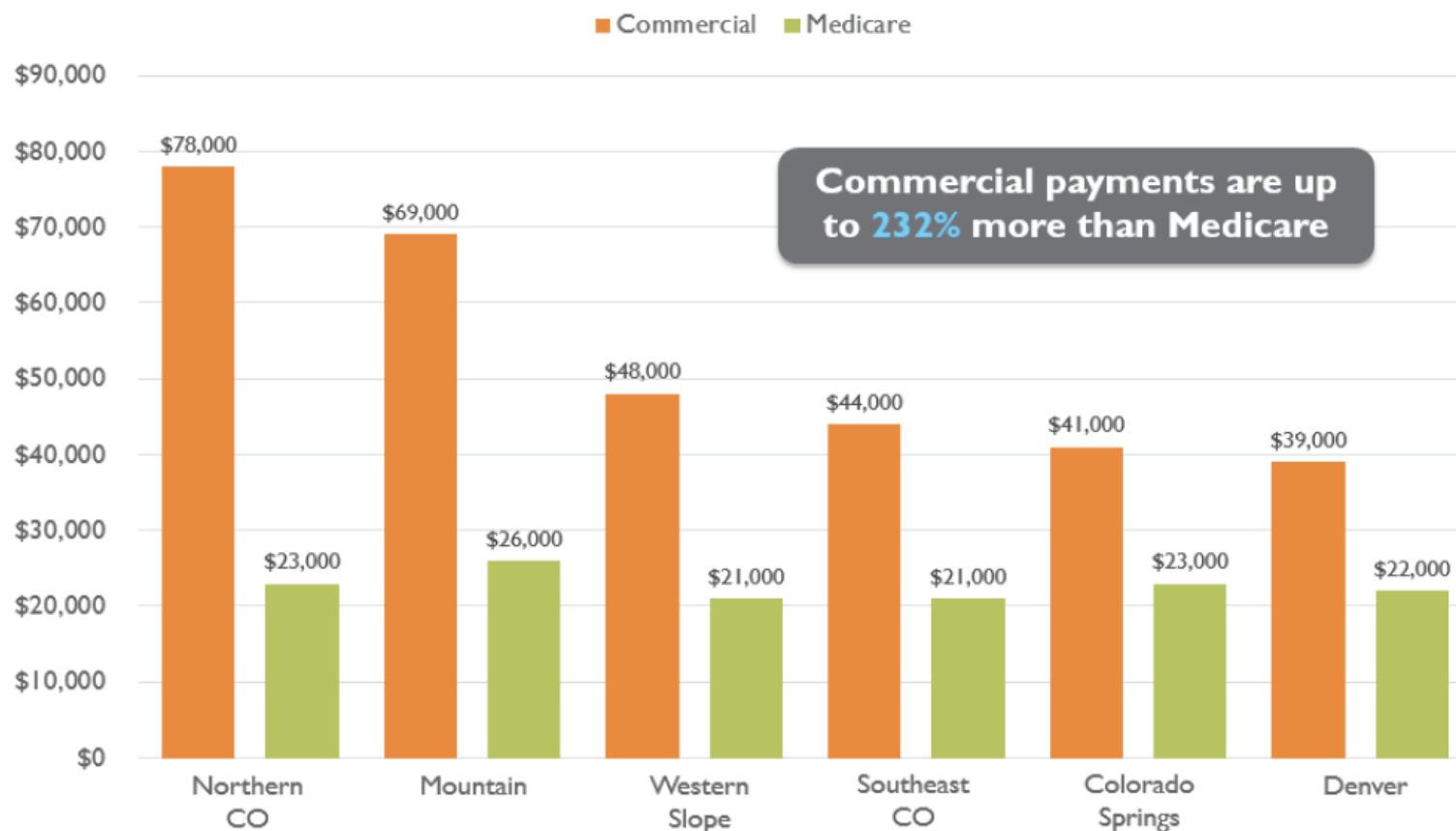


2014 Commercial Payer Claims Analysis, Colorado All Payer Claims Database

\$800 Million
in annual potential savings statewide if people more appropriately used EDs

7 out of 10 Free-Standing ED & 3 out of 10 ED visits aren't emergencies, and they cost \$1000+ more

Colorado Hip/Knee Replacement Average Total Episode Payments Medicare vs. Commercial



Analysis based on fiscal year 2013 Fee-For-Service Medicare claims and commercial payer claims in the Colorado All Payer Claims Database (CO APCD, www.comedprice.org). Prices have been rounded to the nearest thousand and reflect average paid "episode" amounts (initial procedure payments AND 90 day post-acute payments), using calculations similar to the Centers for Medicare & Medicaid (CMS) Comprehensive Care for Joint Replacement (CJR) methodology (<https://innovation.cms.gov/initiatives/cjr>).

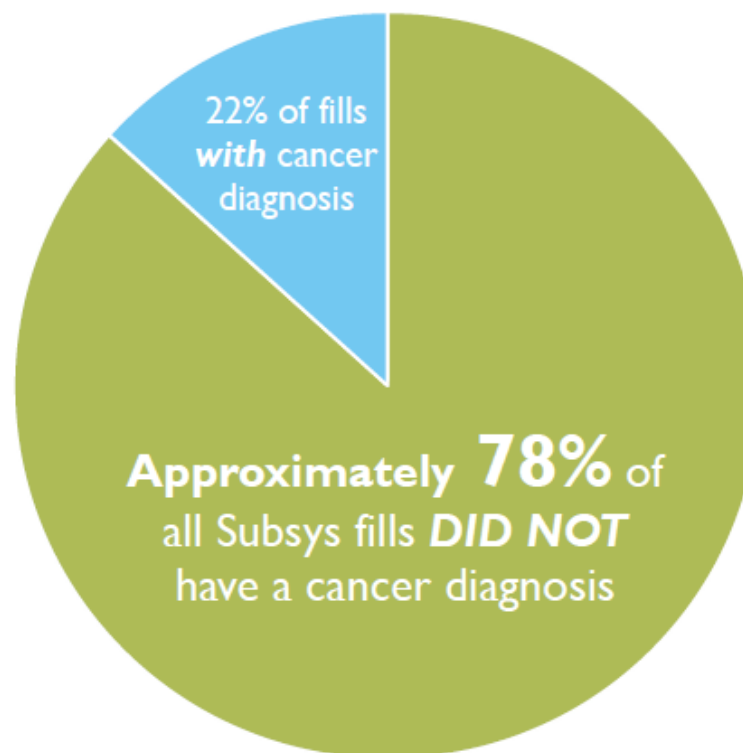
Public Data

Data Byte: Subsys



Colorado Subsys Total and Potentially Avoidable Spend (2012-2016, Medicaid and Commercial Payers, Colorado All Payer Claims Database)

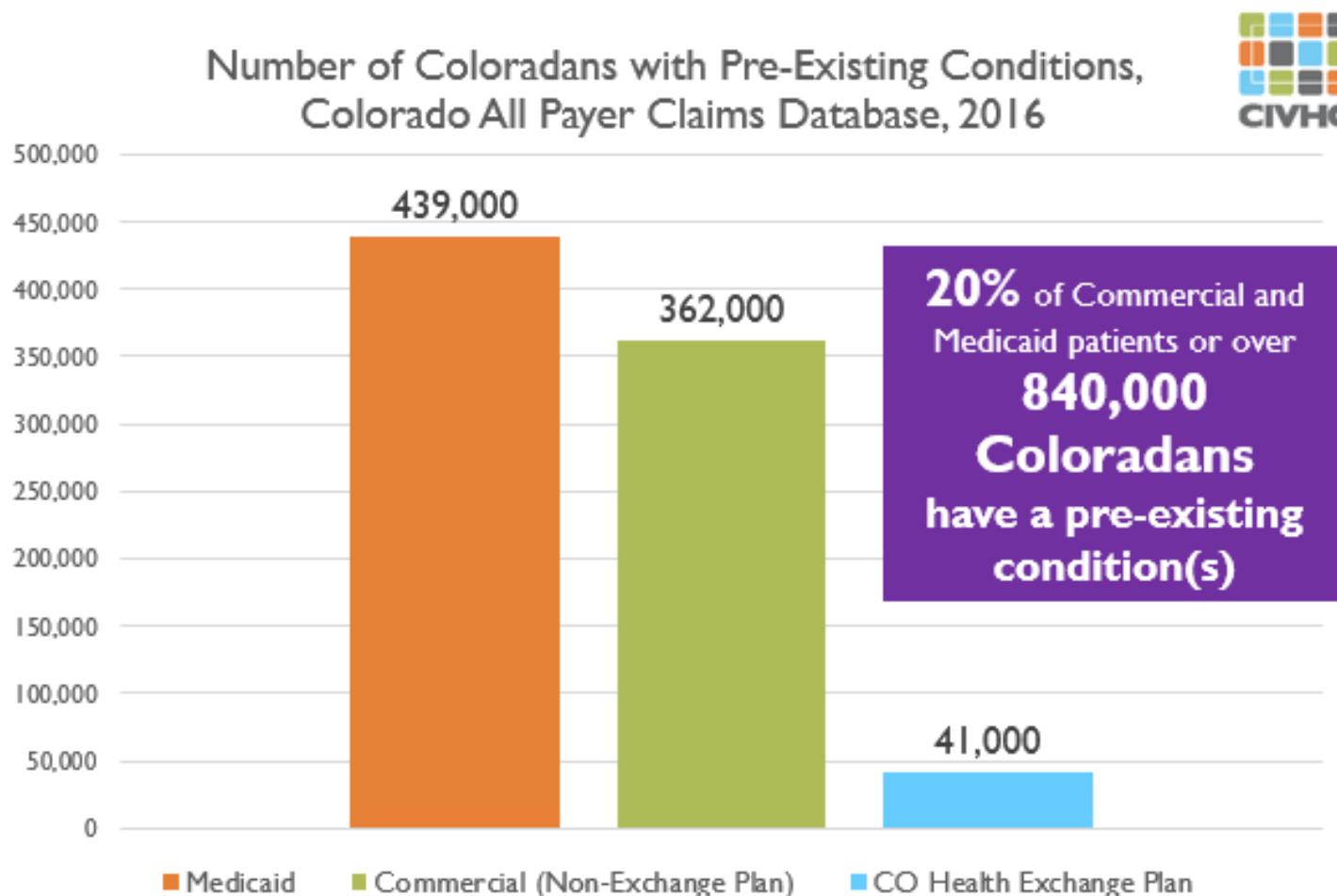
Between 2012 and 2016, Colorado spent approximately **\$17.5M total** on Subsys prescriptions, **\$13.6M** of which was potentially avoidable.



Subsys is powerful opioid drug FDA-approved specifically for the management of persistent pain in adult cancer patients. Prescriptions filled includes all Medicaid and commercially insured members in the Colorado All Payer Claims Database (CO APCD) regardless of the length of coverage. Cancer diagnosis information reflects the percent of Coloradans represented in the CO APCD with continuous eligibility who did not have a cancer diagnosis within the three months prior to filling their first Subsys prescription. Cancer diagnoses were defined using ICD9 codes between 140 and 239 and ICD10 codes between C00 and D48. Total cost reflects actual paid amounts by health insurance payers and patients, prior to discounts or rebates, and potentially avoidable cost estimates are based on the average percent of claims without a cancer diagnosis from 2012-2016.

Public Data

Data Byte: Pre-Existing Conditions



Data reflects the approximate number of Coloradans represented in the Colorado All Payer Claims Database (CO APCD) with a diagnosis of one or more of 10 common pre-existing conditions in 2016 including HIV, psychiatric disorders, asthma, psoriasis, diabetes, osteoarthritis, cancer, fibromyalgia, high blood pressure/heart disease, and obesity. Numbers represent individuals under the age of 65 at the time of service. Commercial numbers do not include members who purchased insurance through the CO Health Exchange, Connect for Health Colorado. Does not include Coloradans on a Medicare Advantage or Medicare Fee-for-Service plan.

1 High Risk
Individual

=

\$77,900,
or

41

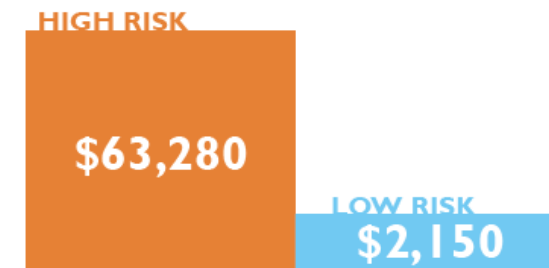
Low Risk
Individuals



COLORADO



NEW HAMPSHIRE



VIRGINIA

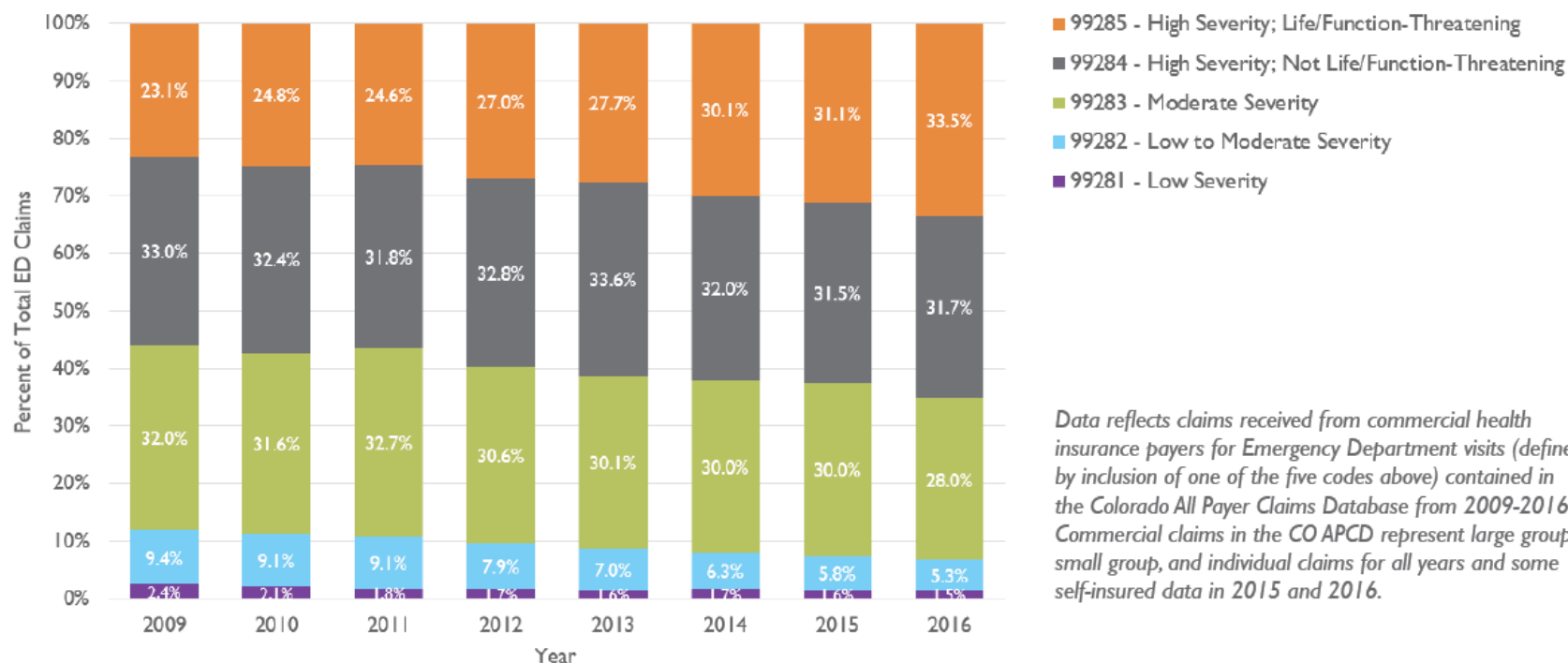
.....

Data reflects 2015 allowed amounts for commercial claims for individuals under 65 included in the Colorado, New Hampshire and Virginia state All Payer Claims Databases (APCD). Virginia methodology reflects proxy allowed amount dollars. Pharmacy costs are not included. Data was provided by the state APCD administrators or data users to the APCD and published by the National Academy for State Health Policy in their blog High Risk Pools Déjà vu – Lessons from States, Questions for Policymakers, January 31, 2017.

Data Byte: ED Severity Level Trends

High Severity going up over time for Commercial

EMERGENCY DEPARTMENT SEVERITY- LEVEL TRENDS COMMERCIAL, 2009-2016



Additional Analyses Available (civhc.org/Get Data/Publications)

Spot Analyses:

- **Quality Measures** (Asthma, Breast Cancer, Diabetes, Hypertension)
- **Hepatitis C**
- **Geographic Payment Variation** for Common Health Conditions
- **C-Section Rates**

Data Bytes:

- **Frostbite with Subsequent Amputation**
- **EpiPen Prescription Cost Trends**
- **Teen Pregnancy Trends**

Non-Public Data



Data Recipients (View all on [Change Agent Gallery at civhc.org](https://civhc.org))



Custom Data Options

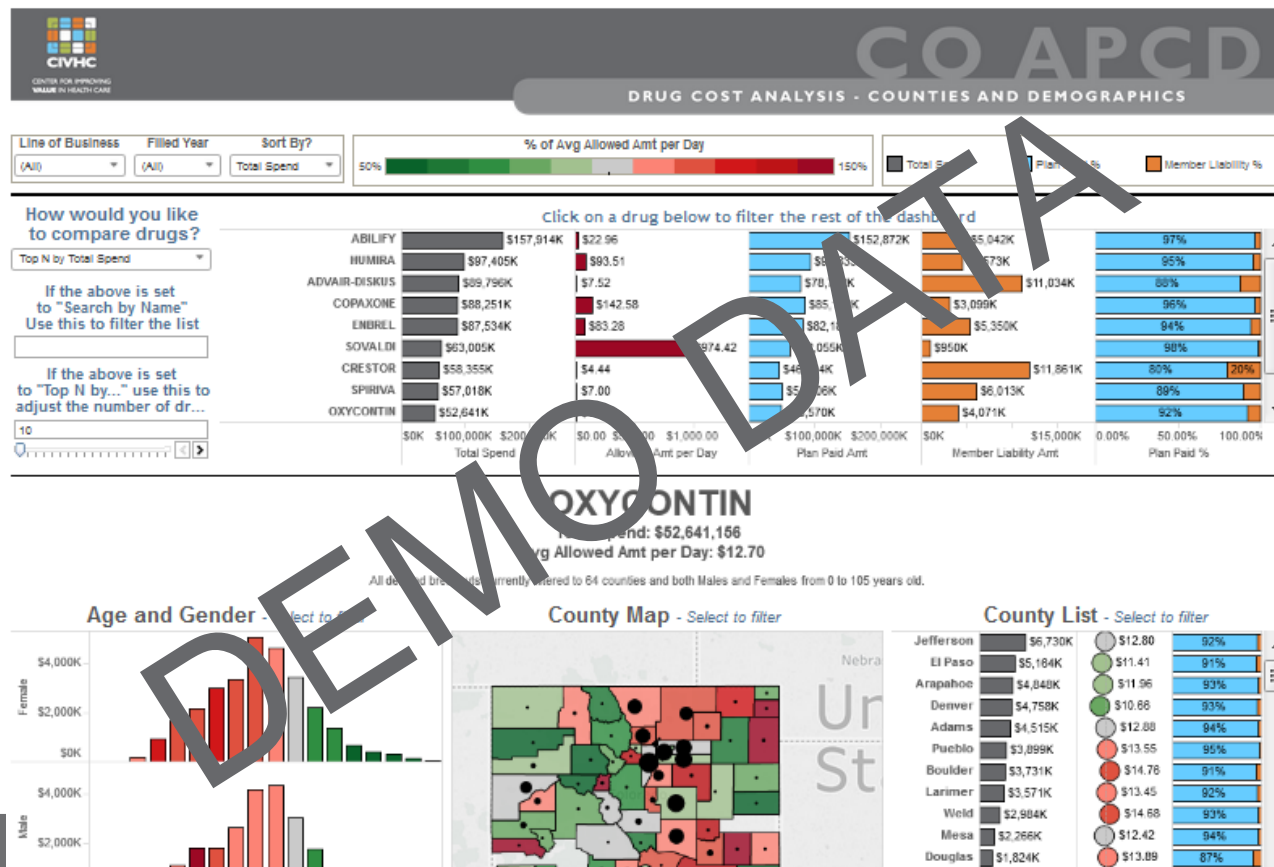
- **Standard Reports and Datasets**
 - Excel or Tableau, interactive, multiple filter/view options
- **Custom Reports**
 - Answers specific analytic question, available in Tableau or Excel
- **Data Extracts**
 - Secure delivery of a flat data file for analysis by the recipient

Non-Public Data



Standard Reports – DEMO

- Outpatient Outmigration
- Drug Dashboard
- CPT4 Market Analysis



Outpatient Outmigration



CO APCD

OUTPATIENT SERVICES OUTMIGRATION STANDARD REPORT

Select **INSURANCE TYPE:** (All) Select **YEAR:** (All) Select **MEMBER COUNTY:** All Select **MEMBER ZIP CD:** (All) Select **AGE:** (All) Select **GENDER:** (All) Select **SERVICE CATEGORY:** (All) Sort by: Claim Count

List of Providers - Click on a provider to show Service Category detail

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Outpatient Outmigration



CO APCD

OUTPATIENT SERVICES OUTMIGRATION STANDARD REPORT

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Service Category Details for Service Provider Hospital - 528547

| Service Category | Claim Count | Service Category Market % | Total Amount Paid | Avg Claim Amount Paid | Price Comparison | Avg Travel Distance |
|---------------------------------|-------------|---------------------------|-------------------|-----------------------|------------------|---------------------|
| Office visits - established | 393,105 | 6.43% | \$11,066,400 | \$28.15 | (\$0.85) | 39.05 |
| Other drugs | 392,420 | 8.81% | \$42,816,135 | \$109.34 | \$37.67 | 42.36 |
| Lab tests - automated gene... | 235,648 | 8.90% | \$4,791,979 | \$20.34 | (\$5.63) | 38.65 |
| Lab tests - blood counts | 214,131 | 7.64% | \$2,179,061 | \$10.18 | (\$2.89) | 41.55 |
| Lab tests - routine venipunc... | 195,662 | 3.8% | \$1,903,081 | \$9.73 | \$0.10 | 45.65 |
| Lab tests - urinalysis | 138,722 | 6.96% | \$953,789 | \$6.88 | (\$2.26) | 32.31 |
| Other tests - other | 111,970 | 1.80% | \$8,455,048 | \$75.51 | (\$17.32) | 39.54 |
| Emergency room visit | 108,773 | 4.55% | \$45,166,612 | \$415.24 | \$23.22 | 23.35 |
| Standard imaging - muscul... | 70,933 | 4.88% | \$5,815,079 | \$81.98 | \$1.98 | 29.97 |
| Lab tests - glucose | 70,759 | 17.69% | \$401,273 | \$5.67 | (\$1.58) | 28.05 |

Procedure Market Rate Analysis (CPT 4)



Select **SPECIALTY**

Obstetrics & Gynecology

Select **YEAR**

2015

Select **INSURANCE TYPE**

Commercial

Select **MARKET (COUNTY)**

Denver

Select **MARKET ZIP(s)**

(All)

Top 50 Procedures, Specialty: Obstetrics & Gynecology
Year 2015, Denver County

| | | | | | |
|------------------------------------|-------------|------------|-----------|-----------|-----------|
| 59400 OBSTETRICAL CARE | \$1,406,393 | \$1,490.07 | \$2,440.3 | \$941,214 | \$465,180 |
| 59510 CESAREAN DELIVERY | \$894,125 | \$1,747.47 | \$2,600.0 | \$678,665 | \$215,460 |
| 57454 BX/CURETT OF CERVIX W/SCOPE | \$125,815 | \$228.21 | \$208.6 | \$11,041 | \$106,774 |
| 59515 CESAREAN DELIVERY | \$103,322 | \$1,614.41 | \$1,651.3 | \$70,711 | \$26,609 |
| 59410 OBSTETRICAL CARE | \$101,885 | \$1,242.50 | \$1,310.0 | \$66,188 | \$34,997 |
| 59514 CESAREAN DELIVERY ONLY | \$95,406 | \$555.23 | \$411.8 | \$79,290 | \$16,116 |
| 59025 FETAL NON-STRESS TEST | \$87,955 | \$64.00 | \$58.5 | \$58,314 | \$29,642 |
| 58563 HYSTEROSCOPY ABLATION | \$84,028 | \$1,414.26 | \$901.5 | \$59,076 | \$24,952 |
| 59409 OBSTETRICAL CARE | \$76,398 | \$1,009.60 | \$862.5 | \$57,800 | \$18,598 |
| 58571 TLH W/T/O 250 G OR LESS | \$68,829 | \$26.73 | \$1,158.6 | \$42,361 | \$26,468 |
| 58100 BIOPSY OF UTERUS LINING | \$68,299 | \$230.0 | \$270.5 | \$19,063 | \$49,236 |
| 58661 LAPAROSCOPY REMOVE ADNEXA | \$63,002 | \$711.83 | \$419.8 | \$48,733 | \$14,270 |
| 58558 HYSTEROSCOPY BIOPSY | \$58,463 | \$407.19 | \$376.0 | \$36,583 | \$21,580 |
| 58301 REMOVE INTRAUTERINE DEVICE | \$58,441 | \$143.42 | \$129.5 | \$53,970 | \$2,971 |
| 59841 ABORTION | \$53,841 | \$765.76 | \$1,830.1 | \$33,851 | \$19,997 |
| 58662 LAPAROSCOPY PRECISE LESIONS | \$53,323 | \$990.88 | \$766.7 | \$38,416 | \$15,207 |
| 51715 ENDOSCOPIC INJECTION/IMPLANT | \$52,442 | \$343.82 | \$169.9 | \$48,475 | \$3,966 |
| 58150 TOTAL HYSTERECTOMY | \$51,004 | \$864.48 | \$1,127.0 | \$39,037 | \$11,967 |
| 58565 HYSTEROSCOPY SENSILIZATION | \$50,464 | \$1,016.12 | \$2,189.5 | \$49,860 | \$604 |
| 57288 REPAIR BLADDER DEFECT | \$49,274 | \$519.43 | \$887.7 | \$23,296 | \$25,978 |

Procedure Market Rate Analysis (CPT 4)



Select SPECIALTY

Obstetrics & Gynecology

Select PROCEDURE

59515 CESAREAN DELIVERY

Select YEAR

2015

Select MARKET (COUNTY)

Boulder

Select MARKET (ZIP)

(All)

Procedure Fees by Payer Group

Specialty: Obstetrics & Gynecology, Procedure: 59515 CESAREAN DELIVERY, Market: Boulder

| | Spent | Avg Allowed Amt per Unti | Perc Diff to Medicare | \$ Diff to Medicare |
|-----------------|----------|--------------------------|-----------------------|---------------------|
| Aetna | \$8,033 | \$1,606.59 | 20.0% | \$267.7 |
| Anthem | \$27,513 | \$1,618.43 | 20.9% | \$279.6 |
| Assurant | \$4,770 | \$1,724.29 | 327.5% | \$4,385.4 |
| CIGNA | \$29,310 | \$1,776.09 | 32.7% | \$437.5 |
| Colorado Access | \$3,044 | \$1,521.94 | 13.7% | \$183.1 |
| Humana | \$3,750 | \$1,877.38 | 40.2% | \$538.5 |

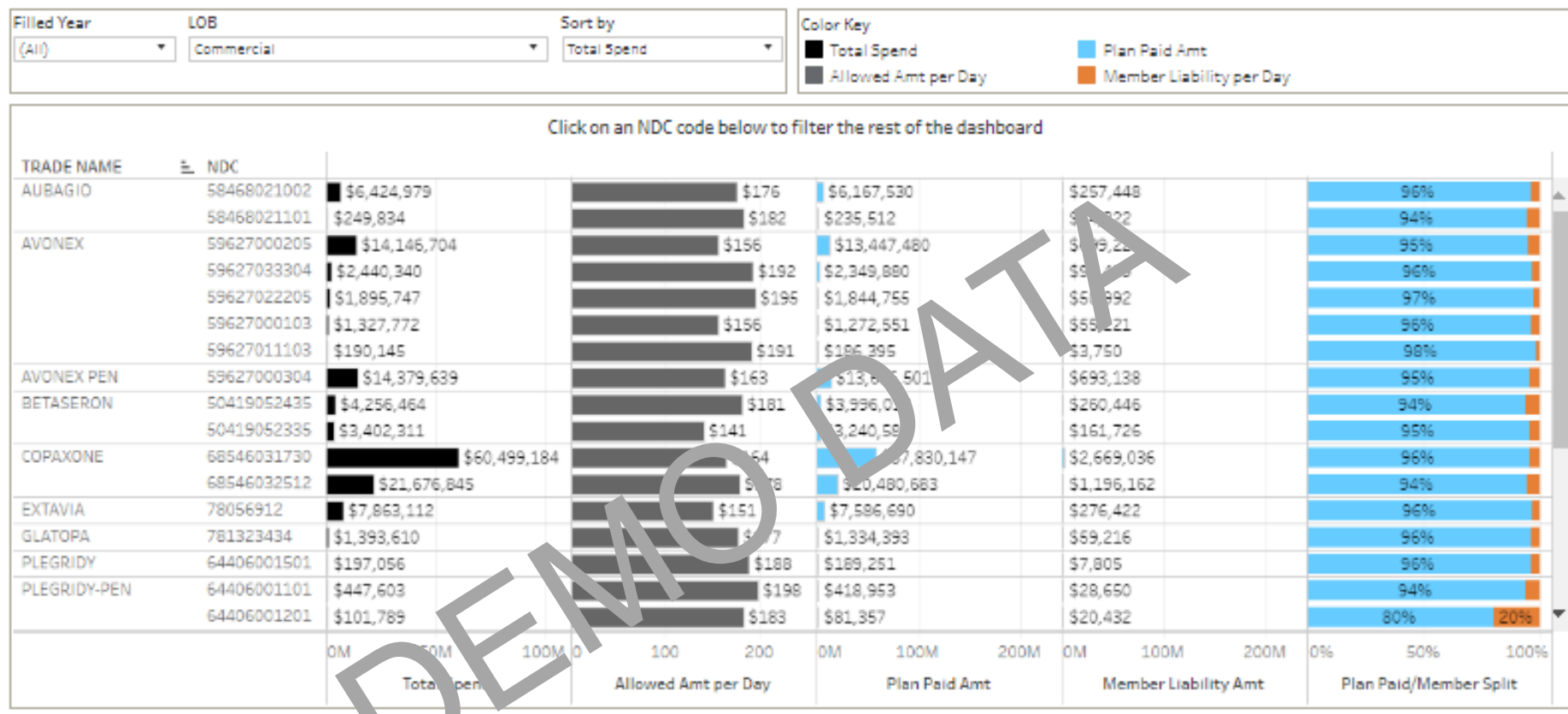
Pharmacy Cost Variation



CIVHC
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VALUE IN HEALTH CARE

CO APCD

NATIONAL DRUG CODE (NDC) LEVEL DRUG COST ANALYSIS



Pharmacy Cost Variation



COPAXONE: 30 BLISTER PACK in 1 CARTON (68546-317-30) > 1 SYRINGE, GLASS in 1 BLISTER PACK > 1 mL in 1 SYRINGE, GLASS

Statewide Total Spend: \$60,499,183.83

Statewide Average Allowed Amount per Day: \$164.30

% of Allowed Amt per Day



Color Key

■ Total Spend
■ Allowed Amt per Day

■ Plan Paid Amt

■ Member Liability per Day

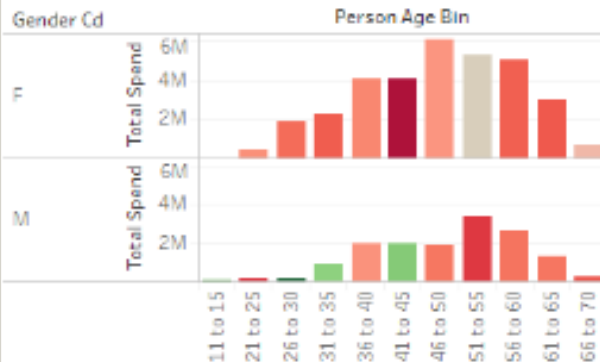
■ Coinsurance per Day

■ Copay per Day

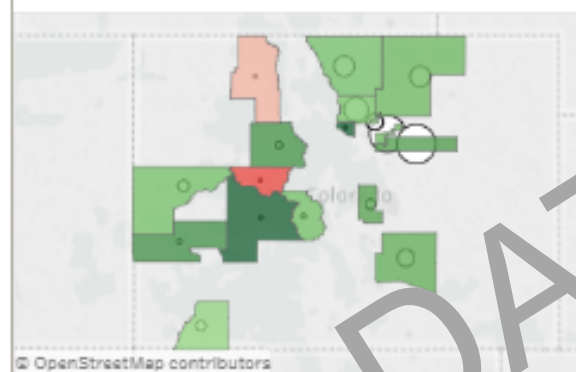
■ Deductible Amt per Day

Click on a County to filter the rest of the dashboard

Age/Gender Breakdown



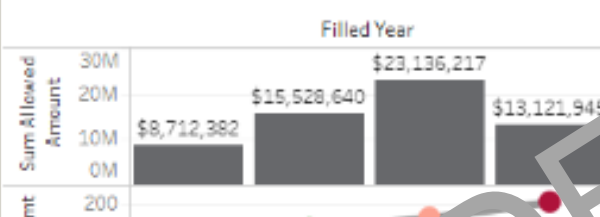
County Map



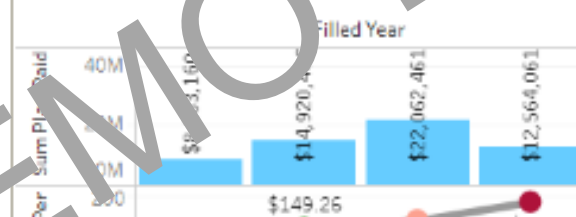
County List

| County | Total Spend | % of Allowed Amt | Plan/Member Paid |
|------------|----------------|------------------|------------------|
| Adams | \$4,962,983.92 | 98.69% | 97% |
| Arapahoe | \$629,909.36 | 96.45% | 96% |
| Boulder | \$3,685,170.50 | 103.52% | 96% |
| Brookfield | \$1,110,797.16 | 104.17% | 94% |
| Chaffee | \$320,107.08 | 102.71% | 97% |
| Chit | \$1,832.69 | 94.24% | 99% |
| Denver | \$455,863.44 | 100.81% | 96% |
| Douglas | \$5,248,587.80 | 95.93% | 95% |
| Espe | \$4328,639.74 | 95.31% | 93% |

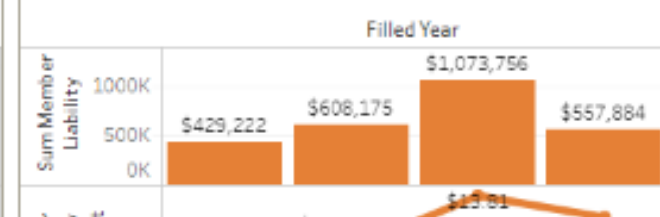
Total Spend and Price Trend



Plan Spend and Price Trend



Member Spend and Price Trend



DEMO DATA

Rural Access to Non-Public Data




- CRHC Members receive a 2.5% discount on all Standard and Custom reports
- Multiple report and subscription discounts also available
- Scholarship dollars also available

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