



CENTER FOR IMPROVING
VALUE IN HEALTH CARE

Supporting Change Agents through Transparency

5.16.18

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Agenda

- Overview of CIVHC and the CO APCD
- Review Public Reports available & future plans
 - Interactive
 - Spot Analysis
 - Data Bytes
- Open Discussion

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

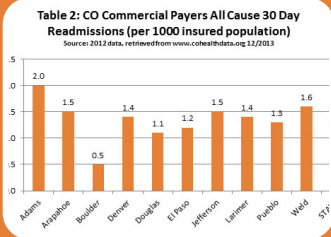
Change Agents:

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

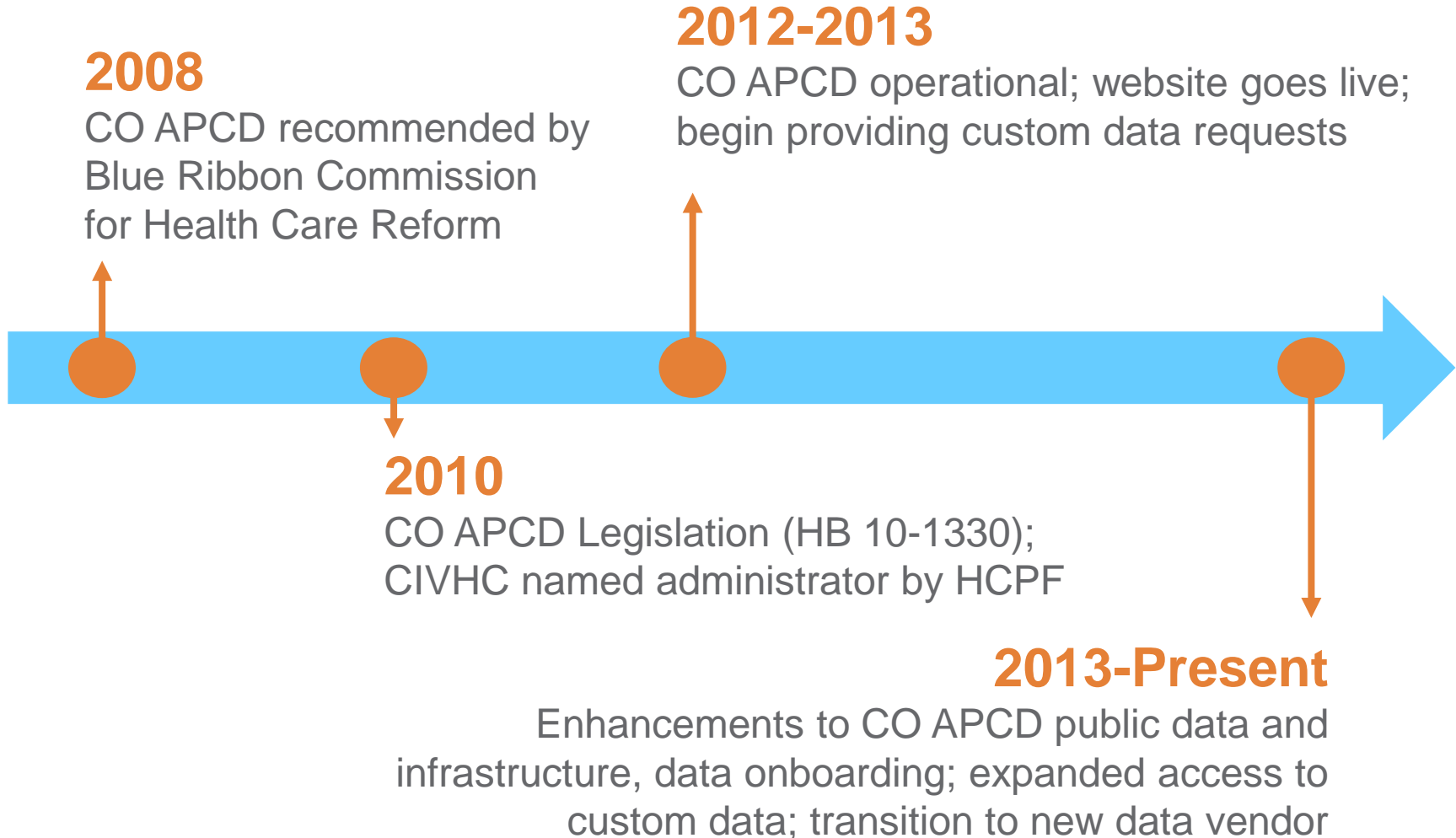
- Support new ways to pay for care that lower costs and improve outcomes through data, analytics, education and convening



Care Delivery

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

CO APCD History



Colorado APCD Data & Covered Lives

**Health
First
Colorado***

**Medicare &
Medicare
Advantage**

**33+
Commercial
Payers**



750+ Million
Medical, Pharmacy,
& Dental Claims



**Approx.
4.3 Million**
Unique Lives



Majority of
Insured Coloradans

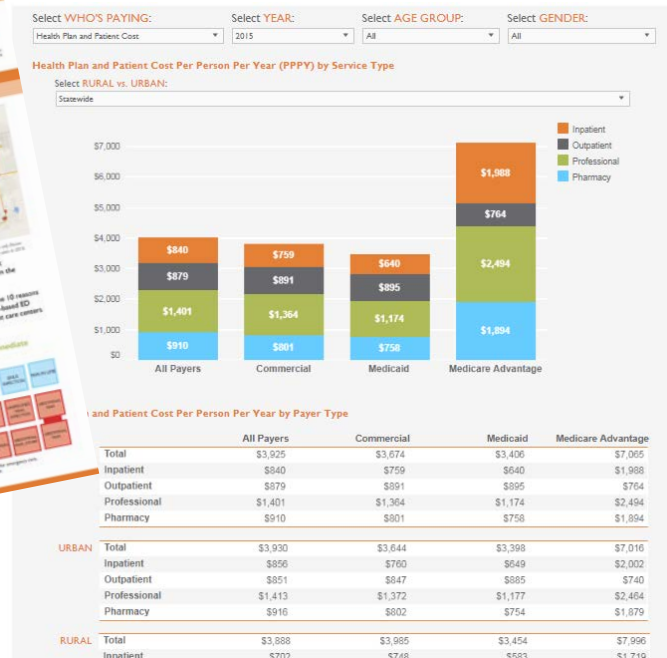
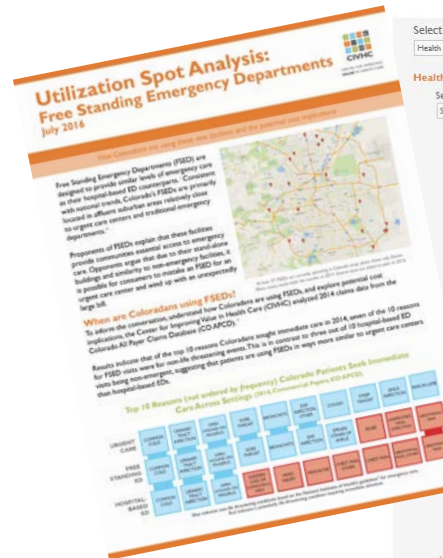
*Colorado's Medicaid Program

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 CODE: (All) Select AGE: (All) Select GENDER: (All) Select SERVICE CATEGORY: 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)
Hospital - 520547	4,180,500	\$401,377,889	\$44,060,070	\$357,317,819	14.7
Hospital - 435601	4,027,354	\$148,877,295	\$19,588,366	\$129,288,929	14.7
Hospital - 514305	2,988,293	\$282,752,488	\$29,158,369	\$253,594,119	22.9
Hospital - 506279	2,381,843	\$300,291,639	\$31,911,188	\$268,380,451	48.3
Hospital - 490302	1,996,808	\$247,588,653	\$402,350	\$247,186,303	21.5
Hospital - 430553	1,418,434	\$117,664,095	\$18,791,981	\$98,872,114	43.0
Hospital - 487822	1,387,265	\$104,592,884	\$29,577,311	\$76,015,573	30.4
Hospital - 530777	1,357,404	\$140,444,131	\$29,577,311	\$110,866,820	16.7
Non-Hospital - 521408	1,271,173	\$2,591,402	\$2,591,402	\$0	30.1
Hospital - 464185	1,262,199	\$157,734,027	\$16,280,344	\$141,453,683	26.0
Hospital - 504072	1,185,414	\$1,202,847	\$16,201,131	\$1,186,646	25.9
Hospital - 478942	1,091,711	\$113,121,655	\$15,752,192	\$97,369,463	18.4
Hospital - 481598	849,134	\$370,503	\$5,250,919	\$365,252,084	37.8
Hospital - 541093	835,588	\$155,561,445	\$18,423,888	\$137,137,557	10.7
Hospital - 536775	711,222	\$128,079,403	\$18,803,231	\$109,276,172	20.9
Hospital - 481498	711,222	\$103,939,812	\$2,870,471	\$101,069,341	13.5
Hospital - 539995	642,670	\$106,428,599	\$11,118,763	\$95,309,837	10.3
Hospital - 503532	642,670	\$101,149,430	\$14,153,856	\$86,995,575	33.3
Non-Hospital - 512312	611,731	\$40,211,678	\$1,251,174	\$38,960,504	34.1
Non-Hospital - 519291	590,603	\$35,040,349	\$266,987	\$34,773,362	31.7
Hospital - 541094	584,106	\$93,230,075	\$9,974,000	\$83,256,075	30.4
Hospital - 544480	561,950	\$96,059,497	\$15,856,040	\$80,203,457	17.3
Hospital - 458360	559,178	\$112,344,031	\$14,662,060	\$97,681,963	22.6
Non-Hospital - 432196	559,178	\$52,408,967	\$5,483,758	\$46,925,210	12.1

Non - Public Data

- Standard Reports
- Custom Reports
- Data Sets

- **Purpose:**

- **Educate** consumers and other stakeholders about health care issues
- **Inform opportunities** for cost savings and improved health/care
- **Support decision-making** & development of new programs or initiatives
- **Track progress** across communities and as a state

Interactive Statewide Reports available at www.civhc.org:

- Cost of Care Report
- Quality Report
- Utilization Report
- Condition Prevalence Report

Planned Website Updates

- Facility Price and Quality Information – **Summer 2018**

Public Interactive Reports - Cost of Care



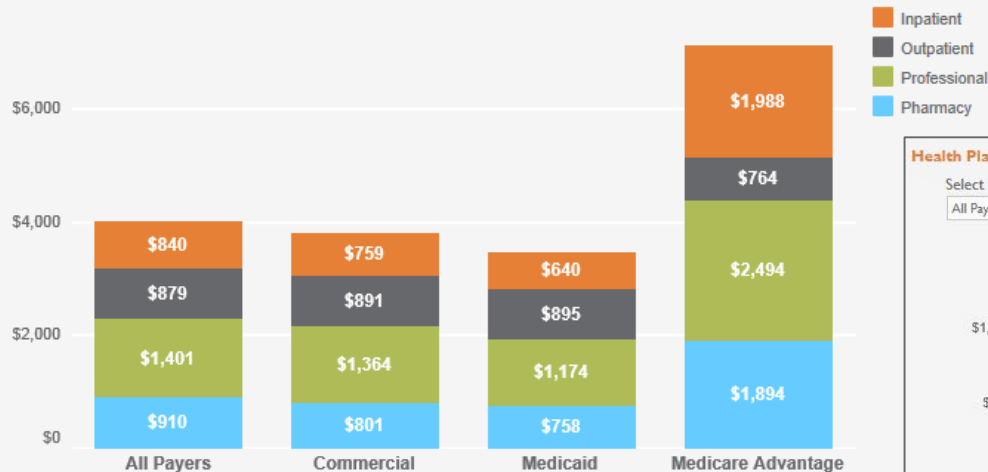
- Per Person Per Year Health Care Costs
- Breakouts by Payer Type from 2012-2016:
 - Outpatient, Inpatient, Professional, Pharmacy
 - Member Only, Health Plan Only, Combined
 - Demographics, Rural, Urban and County Level

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 Geography, Payer Type and Service Type

Select RURAL vs. URBAN:

Statewide



Health Plan and Patient Cost per Person per Year (PPPY), by Payer Type, Service Type and Geography

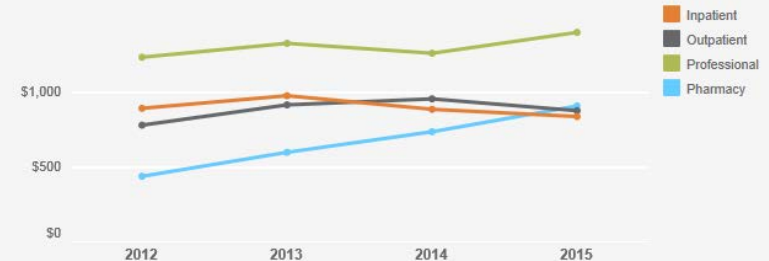
STATEWIDE		All Payers	Commercial	Medicaid	Medicare Advantage
	Total	\$3,925	\$3,674	\$3,406	\$7,065
	Inpatient	\$840	\$759	\$640	\$1,988
	Outpatient	\$879	\$891	\$895	\$764



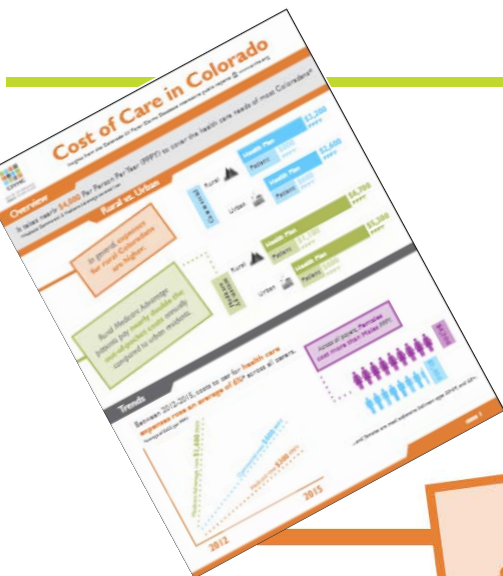
Health Plan and Patient Cost per Person per Year (PPPY), Trends by Payer Type and Service Type

Select PAYER TYPE:

All Payers

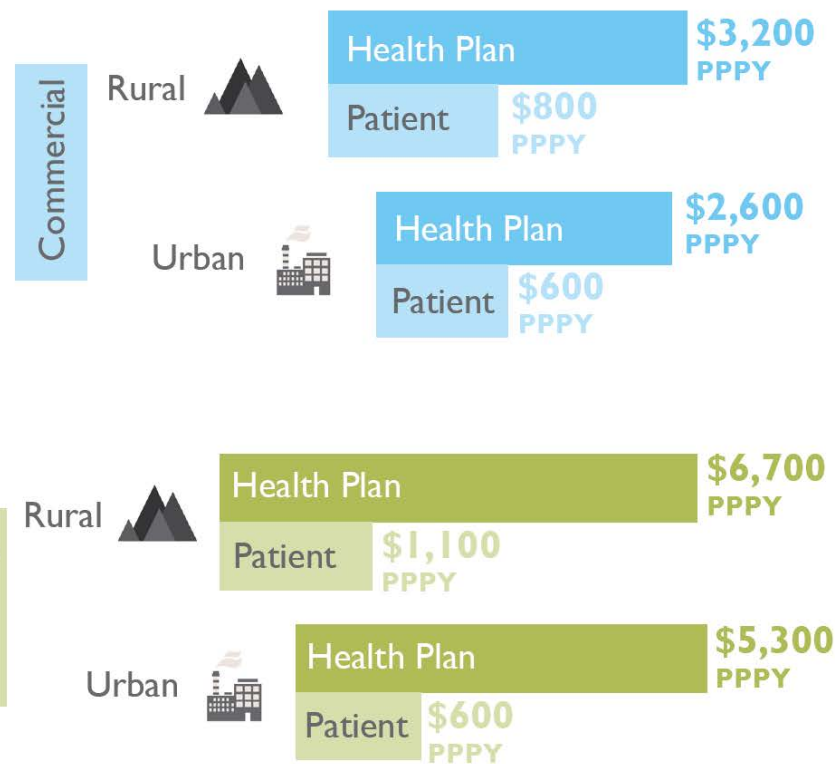


Cost of Care Interactive Report Insights



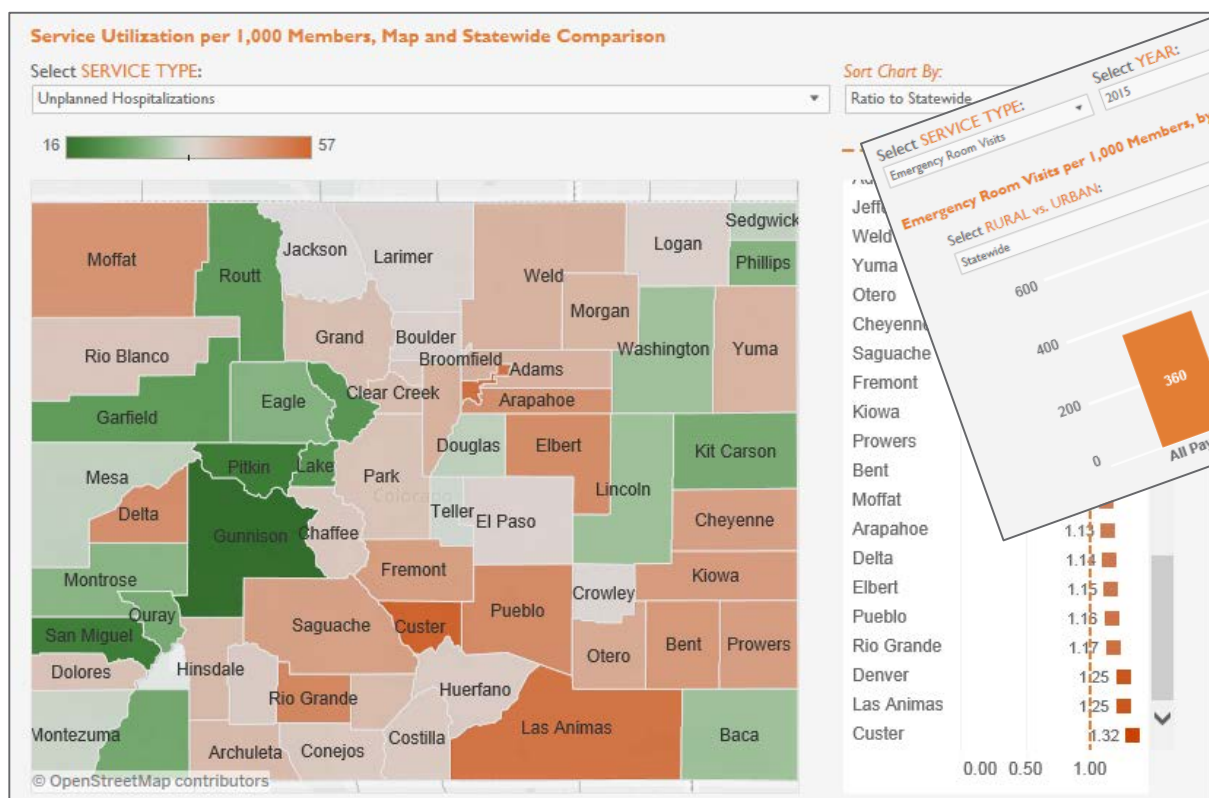
In general, **expenses for rural Coloradans are higher.**

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



Public Interactive Reports - Utilization

- Unplanned Hospitalizations
- 30-Day Readmissions
- Outpatient Services
- ER Visits
- Observation Stays
- Pharmacy Scripts (all, and generic only)



Utilization Interactive Report Insights

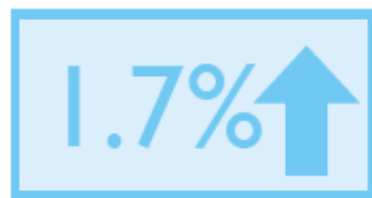
EMERGENCY ROOM VISITS



OBSERVATION STAYS

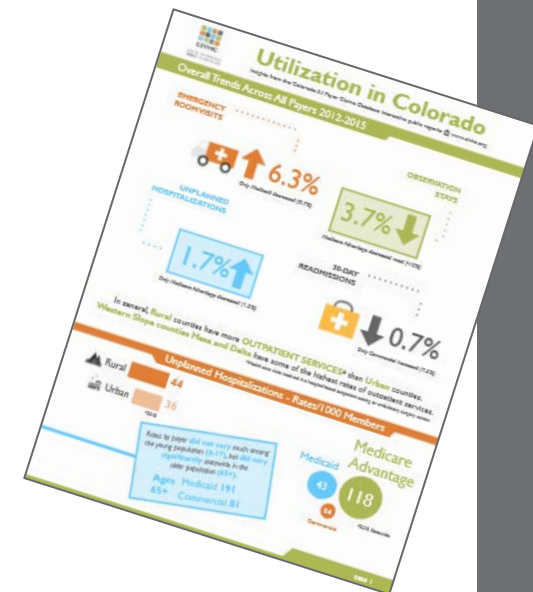


UNPLANNED HOSPITALIZATIONS



Only Medicare Advantage decreased (1.3%)

30-DAY READMISSIONS



Public Interactive Reports - Quality

- Breast Cancer Screening
- Cervical Cancer Screening
- Colorectal Cancer Screening
- Appropriate Medication for Asthma
- Diabetes A1c Test

Select PAYER TYPE:

Commercial

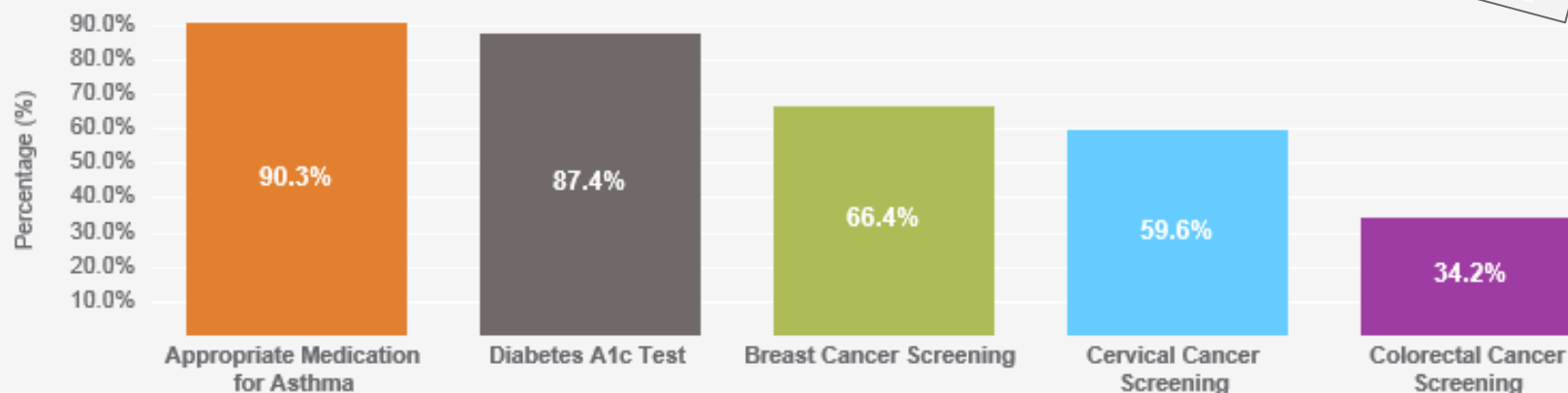
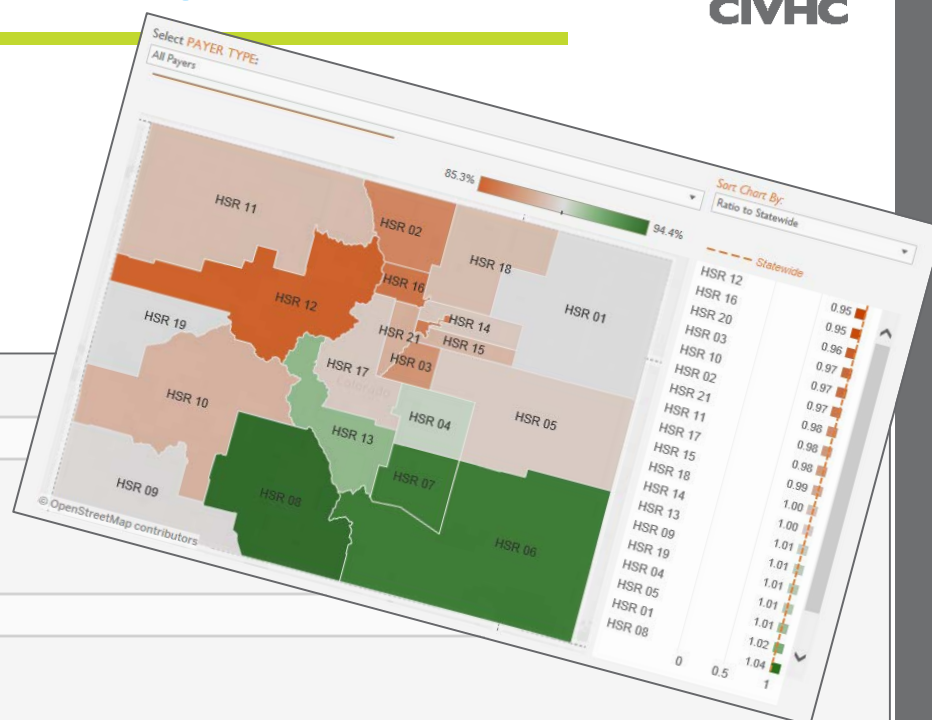
Select YEAR:

2013

Quality Measures, by Geography

Select RURAL vs. URBAN:

Urban

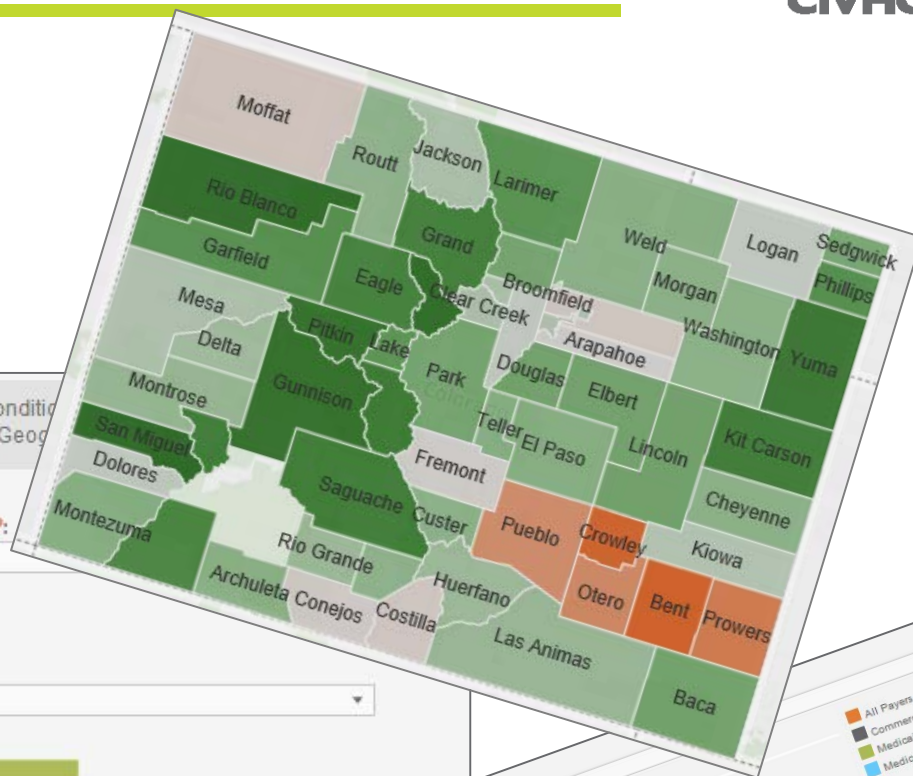




Public Interactive Reports – Condition Prevalence



- Asthma
- Breast Cancer
- Cervical Cancer
- COPD
- Colorectal Cancer
- Diabetes I & II
- Hypertension



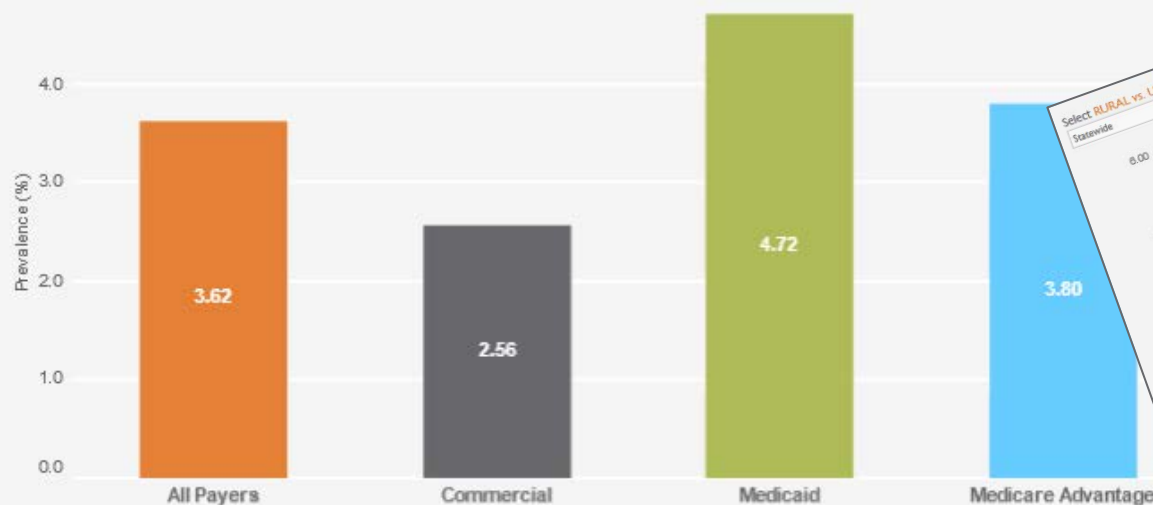
Condition Prevalence Overview | Condition Prevalence Trends | Condition & Geography

Select **CONDITION:** Asthma | Select **YEAR:** 2015 | Select **AGE GROUP:** All

Prevalence (%), by Payer Type and Geography

Select **RURAL vs. URBAN:**

Statewide



Chronic Conditions Insights

Hypertension

12% of Coloradans were diagnosed with hypertension in 2015



Hypertension is the disease diagnosed most frequently among insured Coloradans



- Hypertension is more prevalent in older age groups with marked differences between payer types

Hypertension Prevalence in Adults, 35-64



Depression

5.1% of Coloradans had a depression diagnosis in 2015

Since 2012, depression has increased...

26%



7.2%
of females



3.7%
of males

Depression is highest among mature adults, 35-64

Cancer Insights



The cancers reported tend to be **more prevalent** in the **older population (65+ yrs.)...**

...with the exception of **cervical cancer**, which is **more prevalent among women (35-64 yrs.)**.



Breast cancer is by far the cancer with the **highest prevalence (0.79%)**, followed by prevalence of **cervical cancer (0.21%)**.

New Payer: Medicare Fee for Service, More Years: 2012-2018

Cost of Care:

- Illness Burden Scores

Utilization:

- Professional Visits
- Potentially Preventable ER

Quality:

- Child Developmental Screening
- Appropriate treatment for children with Upper Respiratory Infection
- Diabetes Care Eye Exam

Condition Prevalence:

- Generalized Anxiety Disorder
- Teen Pregnancy Rates
- Asthma Exacerbations

***NEW Category: Patient Safety:**

- C-Section Rate
- Imaging for Low Back Pain

***NEW Category: Access to Care:**

- Child/Adolescent Access to Primary Care
- Adult Access to Preventive Care

Planned Updates: Consumer Shopping

My Selections

Change

- Service (Select): **Knee Arthroscopy**
- Location (Select Zip): **80128**



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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	★★★★★	★★★★★

Public Reporting: Planned Consumer Shopping Services



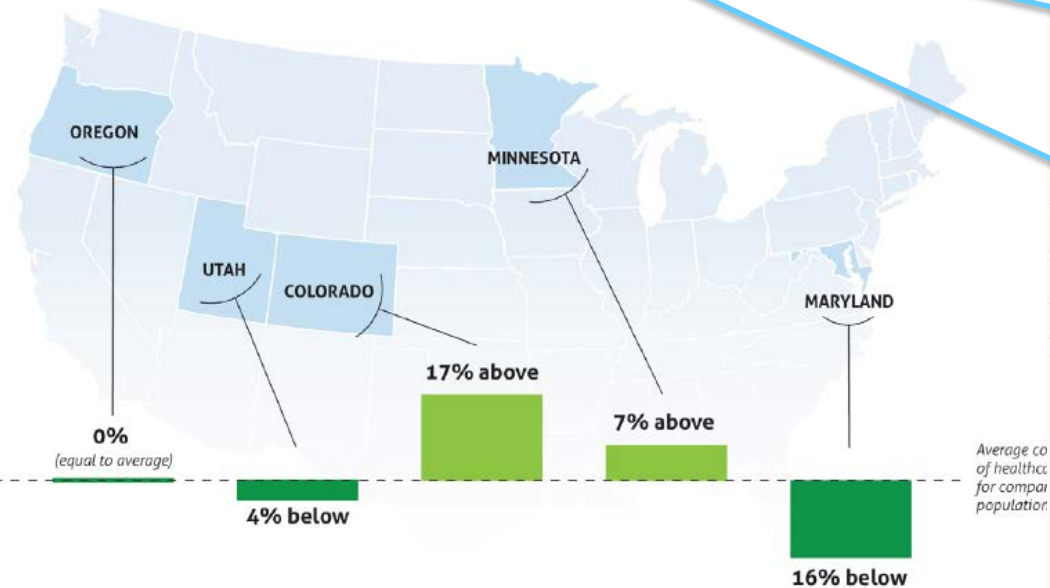
Imaging (CPT):

- Bone density scan
- CT – abdomen/ pelvis with contrast
- CT – abdomen/pelvis without contrast, followed by contrast
- CT - head and brain without dye
- CT - head and brain with dye
- Mammogram - bilateral
- MRI - back
- MRI - brain stem without dye
- MRI - brain stem with and without dye
- MRI - knee
- MRI - pelvis
- MRI- shoulder, wrist, elbow
- Myocardial Perfusion Imaging
- Ultrasound - abdominal complete
- Ultrasound - Breast

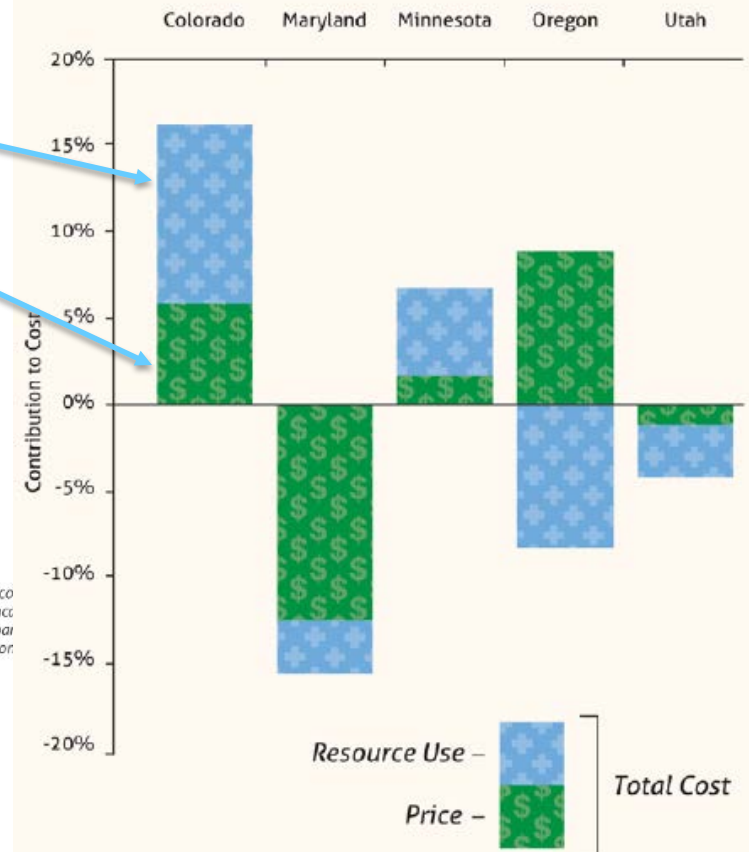
Surgical & Preventive (episodes):

- Knee Arthroscopy
- Cataract Surgery
- Colonoscopy
- Breast Biopsy
- Gall Bladder Surgery
- Upper GI Endoscopy
- Tonsillectomy
- Knee replacement
- Hip replacement
- Vaginal birth
- C-Section

CO Costs 17% Higher Due to Price AND Utilization



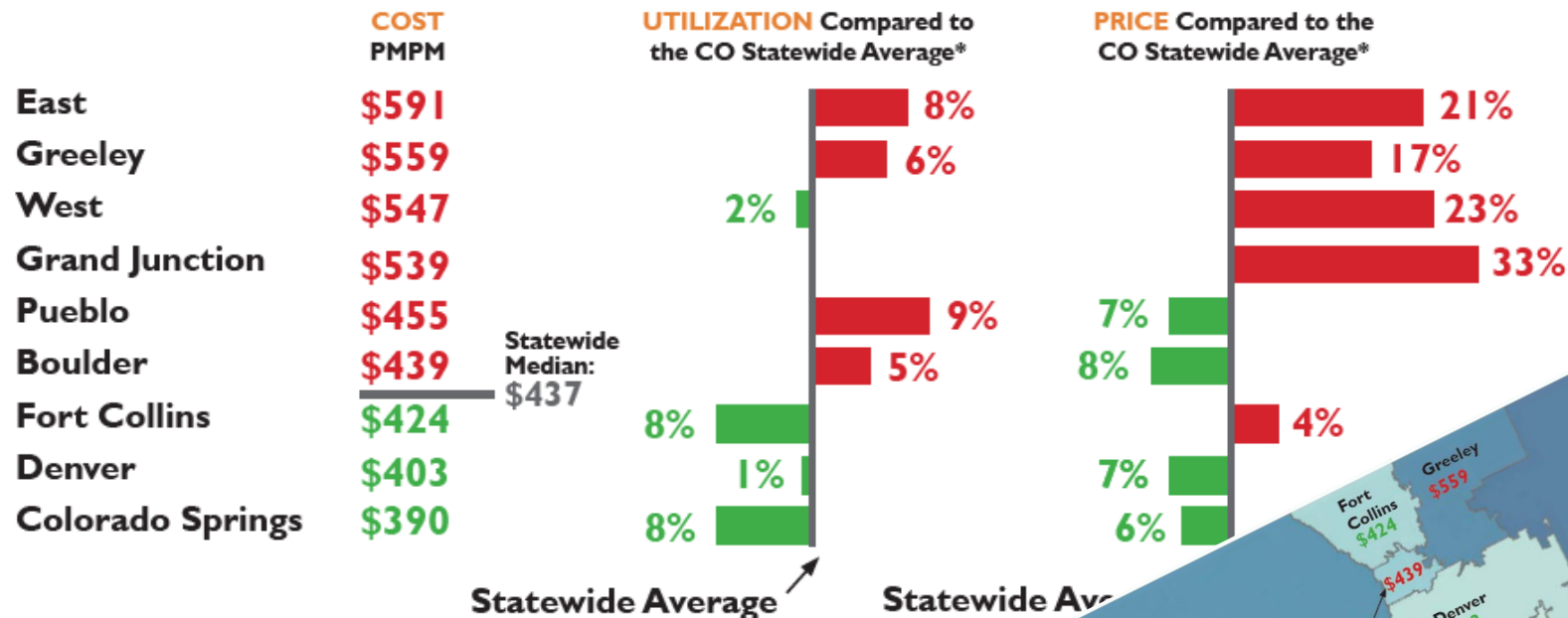
Untangling The Cost Drivers



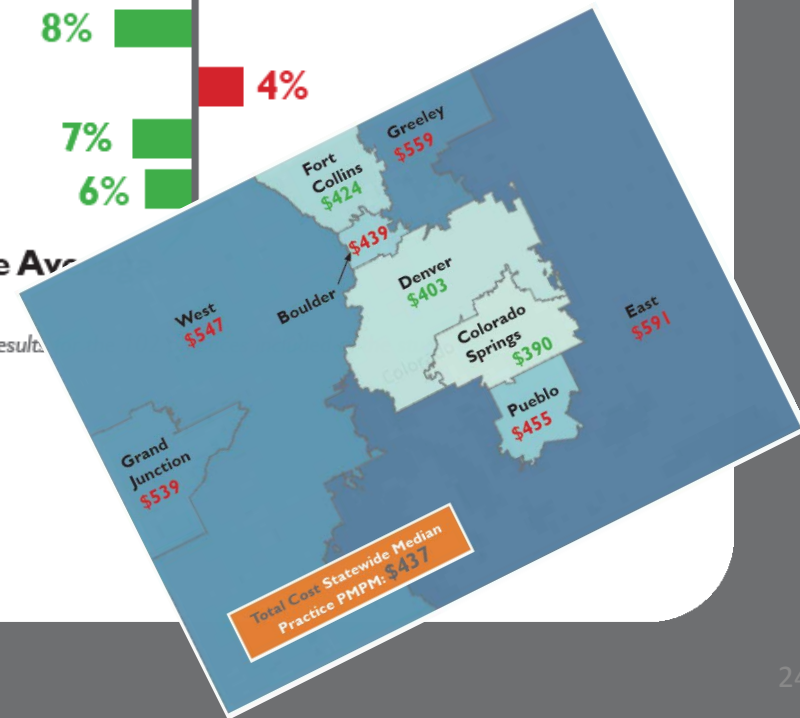
Public Reporting: Feb 2018

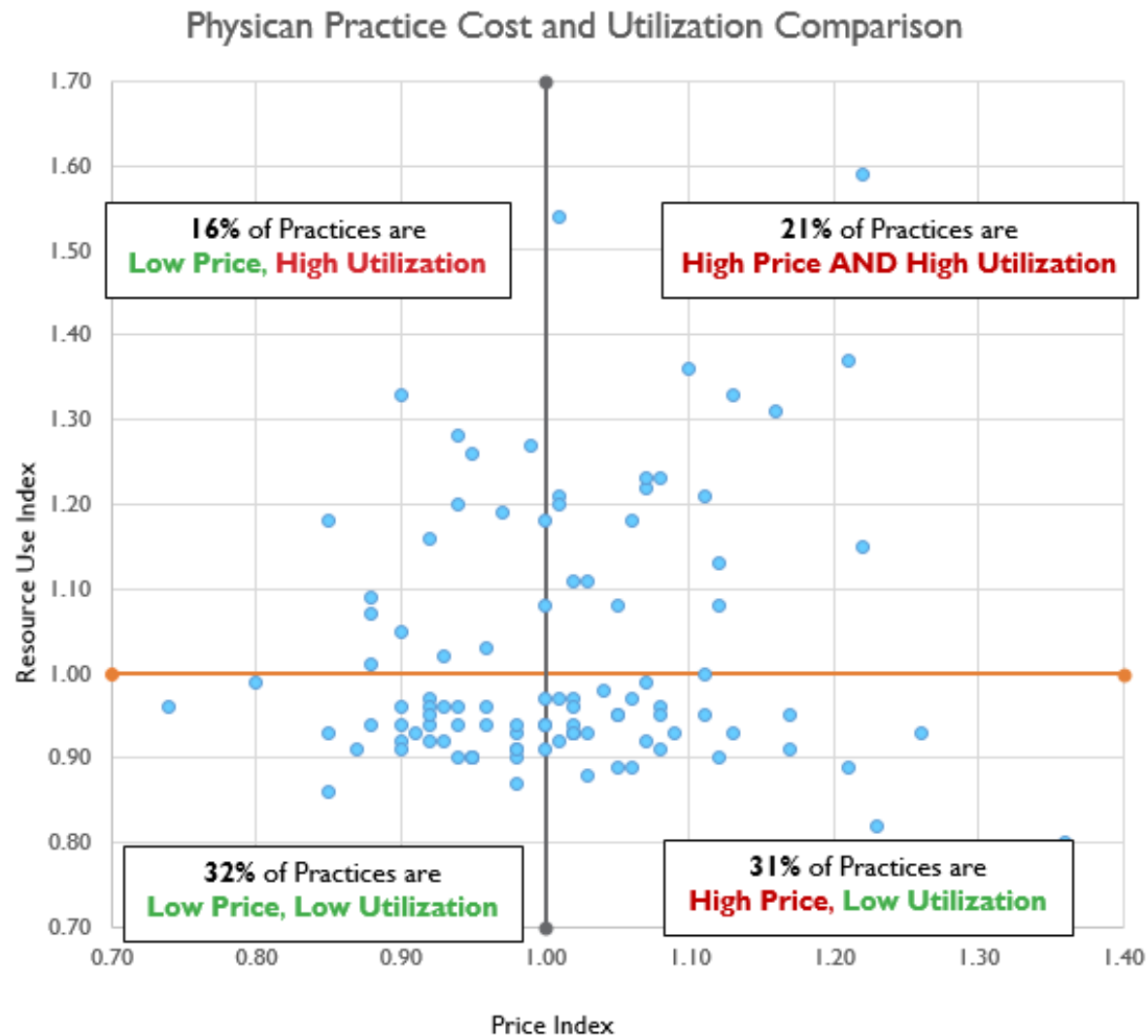
Total Cost of Care Project: CO White Paper

Table 2. Total (Inpatient, Outpatient, Professional, Pharmacy) Median Risk-Adjusted Per Member Per Month (PMPM) Cost by CO Division of Insurance Region



*Statewide averages only reflect results.



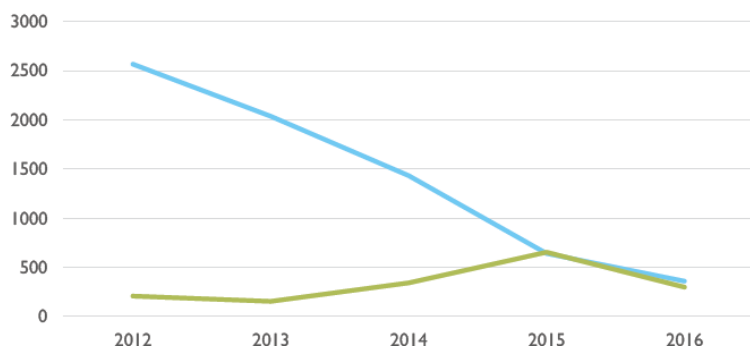


Vimovo/Duexis-
CO has spent over
\$24 million on drugs
available over-the-counter at
a fraction of the cost.



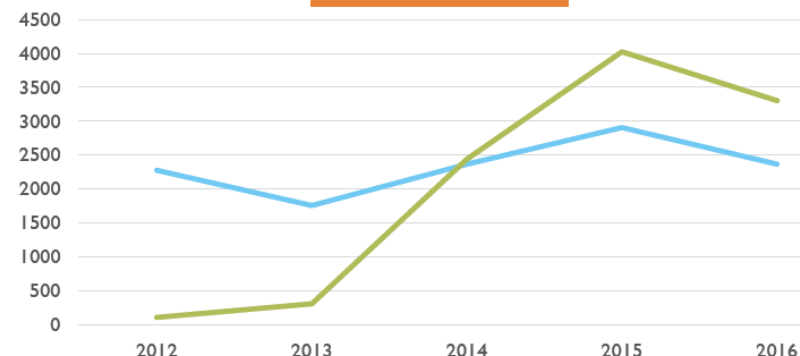
NUMBER OF VIMOVO AND DUEXIS PRESCRIPTIONS BY YEAR (2012-2016, CO APCD)

COMMERCIAL



— Duexis
— Vimovo

MEDICAID



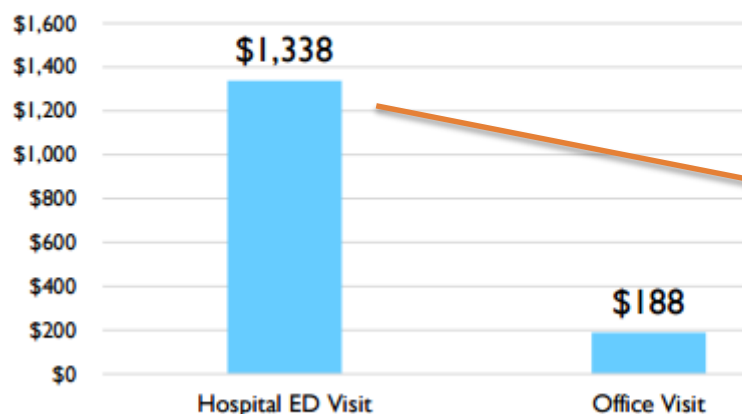
Public Data Spot Analysis: ED/FSED



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

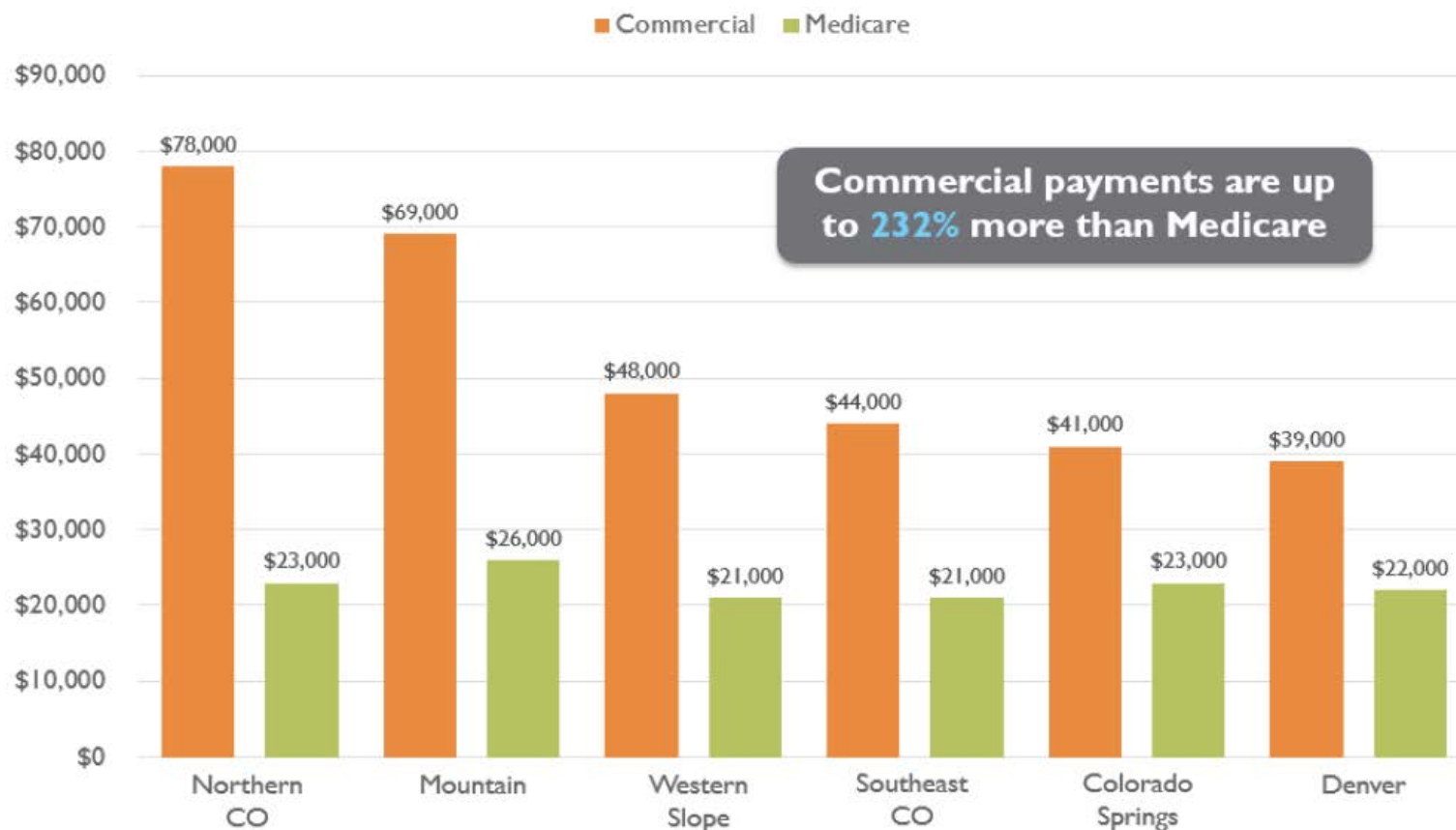


2014 Commercial Payer Claims Analysis, Colorado All Payer Claims Database

\$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 weren't emergencies, and they cost \$1000+ more

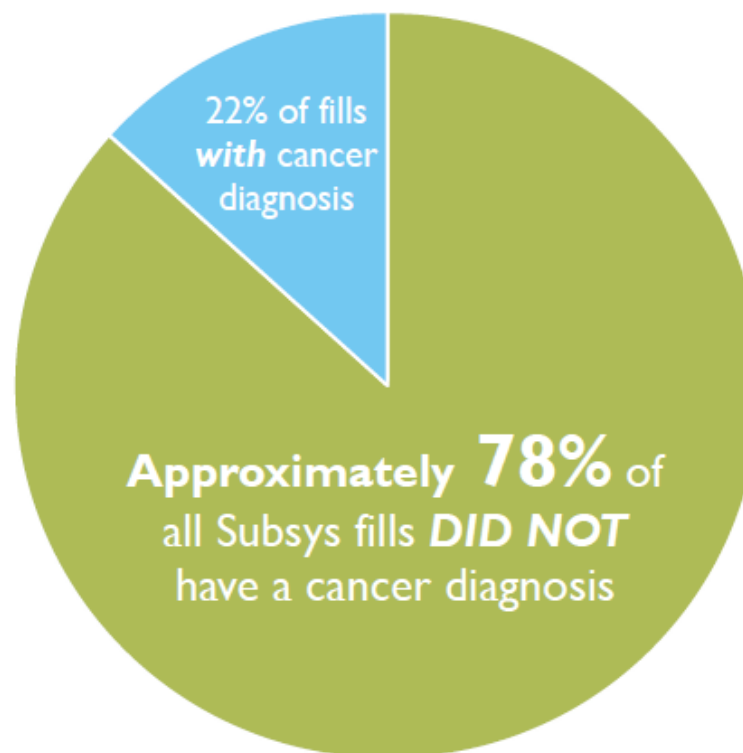
Colorado Hip/Knee Replacement Average Total Episode Payments Medicare vs. Commercial



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>).

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

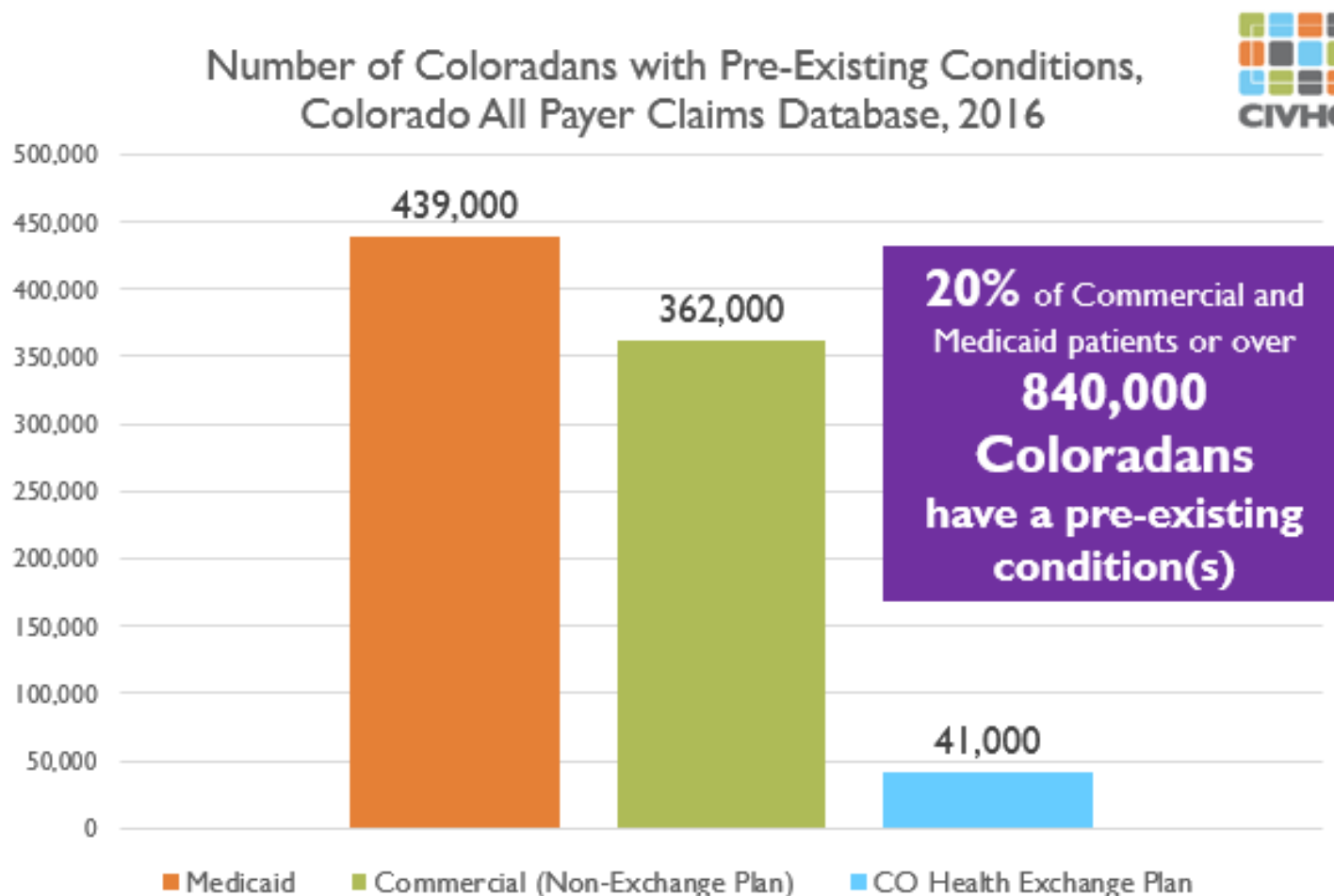
Between 2012 and 2016, Colorado spent approximately **\$17.5M total** on Subsys prescriptions, **\$13.6M** of which was potentially avoidable.



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.

Public Data

Data Byte: High Risk Pools



**1 High Risk
Individual**

=

\$77,900,
or

41

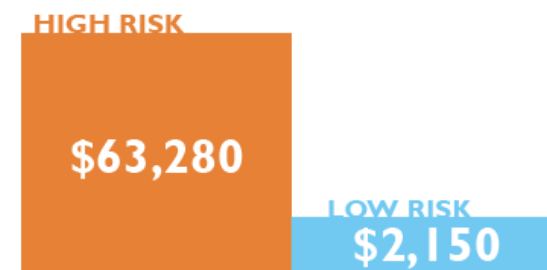
**Low Risk
Individuals**



COLORADO



NEW HAMPSHIRE



VIRGINIA

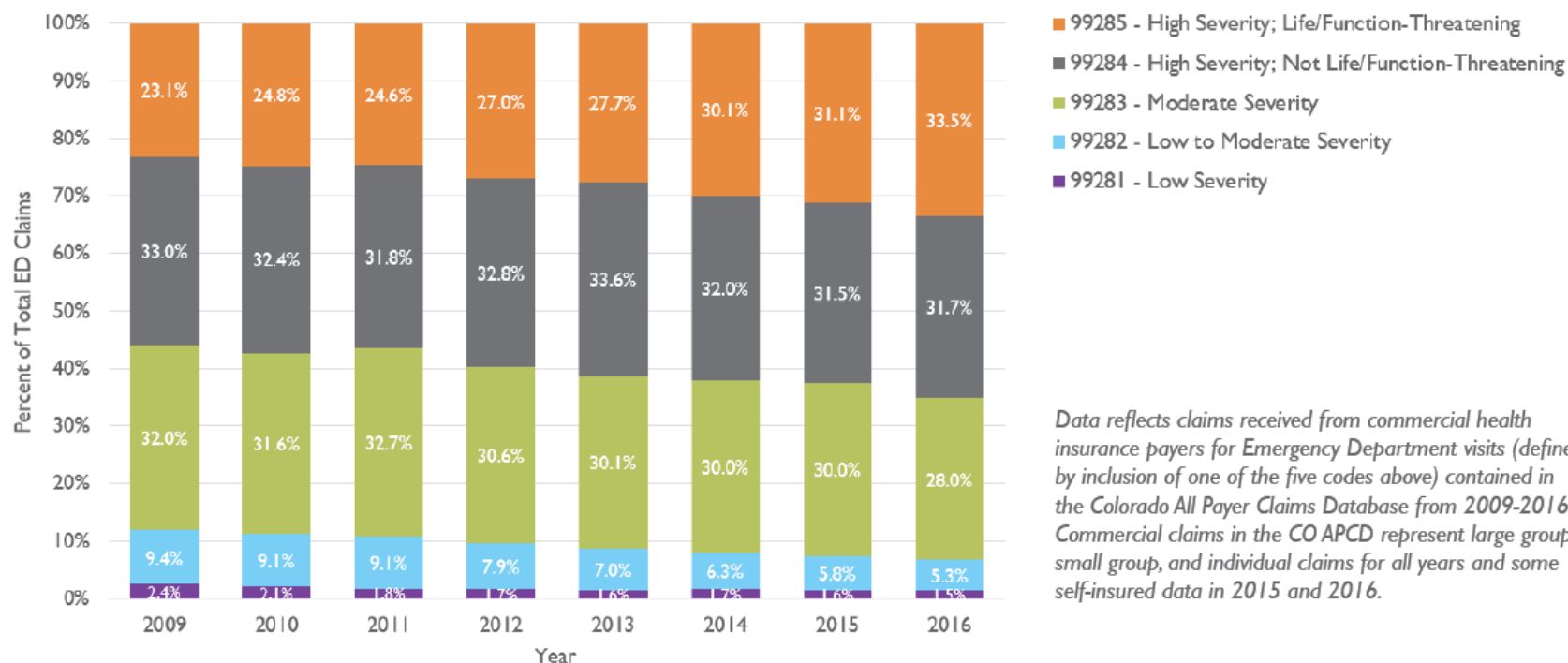


Data reflects 2015 allowed amounts for commercial claims for individuals under 65 included in the Colorado, New Hampshire and Virginia state All Payer Claims Databases (APCD). Virginia methodology reflects proxy allowed amount dollars. Pharmacy costs are not included. Data was provided by the state APCD 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



Public Data

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**



Where to Go for Data – civhc.org

A screenshot of the CIVHC website homepage. The background is a dark blue and purple gradient with a silhouette of a person jumping. The CIVHC logo is in the top left. The navigation menu is in the top right, with "GET DATA" highlighted by a white circle. A dropdown menu is open under "GET DATA", showing options: "CO APCD Overview", "Public Data" (highlighted in orange), "Custom Data", "My Data Login", "Interactive Data", and "Publications". The main heading "Better Health, Better Care & Lower Costs" is centered, followed by the tagline "Together, We Can Change the Trajectory of Our Health Care System" and a "LEARN MORE" button.

http://www.civhc.org/ Home page - CIVHC.org

CIVHC
CENTER FOR IMPROVING
VALUE IN HEALTH CARE

ABOUT CIVHC ▾ CHANGE AGENTS GET DATA ▾ PROGRAMS AND SERVICES ▾

CO APCD Overview ▾
Public Data ▸
Custom Data ▾
My Data Login

Interactive Data ▾
Publications

Better Health, Better Care & Lower Costs

Together, We Can Change the Trajectory of Our Health Care System

LEARN MORE

Non-Public Data



Data Recipients (View all on Change Agent Gallery at 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

Questions

Comments


Concerns

Contact Info



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 - Director of Public Reporting

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