

17 July, 2017

Open Letter to [Colorado Commission on Affordable Health Care](#) (CCAHC)

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Cc: Governor John Hickenlooper
Senator Jim Smallwood
Representative Joann Ginal
Representative Jonathan Singer
[Center for Improvement in Value of Health Care](#) (CIVHC)
[Colorado Health Institute](#) (CHI)
Senator John Kefalas

After three years of devoted effort by the Commissioners, the [Final Report from CCAHC to the legislators of Colorado](#) has been submitted (30 Jun, 2017). In their Summary, they identify a “need for significant data analytics (pg66).” Of the many aspects of data transparency listed (see excerpt below), the greatest opportunity for data transparency will be development of [a comprehensive data portal](#).

In 2010, House Bill 10-1330 provided for implementation of an All-Payer-Claims-Database (APCD). Furthermore, there is an explicit requirement of the Bill to implement [a comprehensive data portal](#) containing data above and beyond just claims data. Moreover, in December 2010, the [Data and Transparency Advisory Group](#) submitted clear expectations of this obligation to the CIVHC Advisory Board.

Numerous examples of publicly-available data sets have been submitted to the [“public input” folder at the CCAHC website](#). They illustrate how much data is already available, yet they exist in silos. Bringing these data sets together (i.e., from Public Health, Medicare, Medicaid, CDC etc.) can enable potentially informative and invaluable insights.

The framework of [Triple Aim](#) (improved population health, improved patient care and more affordable health care) has been widely adopted across the healthcare industry. A comprehensive data portal will include relevant [key metrics](#), as delineated by the Institute for Healthcare Improvement (IHI, with granularity at least to the county level. See [“Healthy Colorado: Plan 2015-2019”](#).

A timely “Colorado Health Expenditures” report is another essential element of this data portal, following the methodology of the [Statewide Health Expenditures](#) and [National Health Expenditures](#), as provided by CMS. See the NHE report below.

Lastly, the Final Report rightfully underlines the importance of Social Determinants of Health (see below). Community Health Assessments by local county public health officials should include their Health Equity profile from the [County Health Rankings](#). See the example of Denver County.

With the assistance of CIVHC collaborators and stakeholders, there is sufficient guidance available in HB10-1330 to move forward rapidly and inexpensively to implement this data portal, not only to serve the consumers and stakeholders of Colorado, but as a demonstration of leadership to the rest of the country to help ensure the quality of health care our citizens have a right to expect.

Sincerely/ George Swan, MPH

Transparency (2016 Report, p.18 and 2017 Report, p.47)



- Support consumers making informed choices by compiling and reporting existing price, quality, and clinical outcome metrics on publicly-facing website(s).
 - Ensure that the website(s) provides various tiers of timely information based on different consumers' understanding of price and quality data.
 - Ensure the results of the pilot are published after two years to demonstrate usage, changes in behavior, and savings. This pilot would provide proof of concept for the commercial market.
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- Create a state employee pilot using transparency tools to inform employees of the state of cost and quality metrics related to specific elective procedures.
 - Promote more transparent and publicly available data with a focus primarily on facilities, pharmaceuticals, and providers' prices.
 - Data that is made available for consumers and providers should be timely, accessible, consumer-friendly, actionable, and regularly updated.
 - Support a statewide total cost of care initiative (payments) to get an understanding of costs relative to other states.
 - Explore the potential for financial incentives to motivate consumers to use decision aids.
 - Analysis is necessary to understand and make more transparent the main contributors to overhead costs (e.g., administrative and capital costs for all relevant providers) that affect the cost of providing care to Medicaid enrollees.
 - The legislature should authorize funds to analyze and identify potential opportunities/recommendations to reduce overhead costs (or incent lower overhead costs) associated with all providers.

Social Determinants of Health (2016 Report, p.37 and 2017 Report, p.50)



- Reduce silos within state agencies so Medicaid patients can receive the support needed to address their specific needs or condition (e.g. housing, job training, and/or placement)
- Adopt payment structures in Medicaid, such as braided or bundled funding, that address clients' social determinants of health.
 - More meaningfully align state agencies on health and health care potentially through a single Health Authority with purview over all health insurance, Medicaid, and public health
 - Pilot braided funding models for high utilizers for housing (Massachusetts showed savings)
 - Expand Medicaid ACC medical home model to braid in funding for social services, including supportive housing and employment
- Create a pilot to identify urban, low-income patients with asthma from ZIP codes with high Emergency Department (ED) visits or hospitalizations due to asthma and offer enhanced care including case management and home visits.
- Provide financial support to measure the actuarial return on investment for public health.
- Provide access to quality preschool for Medicaid children.
- Develop a statewide screening, referral, care coordination strategy and infrastructure, and a statewide navigation system to connect

CMS Health Expenditures by State 2017R

Colorado Commission on Affordable Health Care

Pivot Table: NHE Historical and Projected to 2020

Altarum CSHS: Health Sector Economic Indicator Briefs 2017

Health Affairs: Health Spending by State thru 2014

Group (All)
Region_Name (All)

State_Name Colorado

Type Exp	Code Description	of Y2007	of Y2008	of Y2009	of Y2010	of Y2011	of Y2012	of Y2013	of Y2014	% Change from Prior Year						
										Y2008	Y2009	Y2010	Y2011	Y2012	Y2013	Y2014
All Payers										3.8%	4.2%	2.9%	2.8%	3.3%	2.2%	4.4%
\$ Per Enrollee																
1	Personal Health Care	5,522	5,685	5,882	5,979	6,129	6,306	6,472	6,804	3.0%	3.5%	1.6%	2.5%	2.9%	2.6%	5.1%
2	Hospital Care	1,952	2,049	2,209	2,326	2,363	2,439	2,600	2,739	5.0%	7.8%	5.3%	1.6%	3.2%	6.0%	5.3%
3	Physician & ClinCare	1,449	1,476	1,481	1,468	1,509	1,523	1,516	1,602	1.9%	0.3%	-0.9%	2.8%	0.9%	-0.5%	5.7%
4	Other Prof Services	218	236	235	248	272	285	304	325	8.3%	-0.4%	5.5%	9.7%	5.1%	6.3%	6.9%
5	Dental Services	364	375	388	387	394	408	413	419	3.0%	3.5%	-0.3%	1.8%	3.6%	1.2%	1.5%
6	Home Health Care	127	129	141	152	162	173	181	192	1.6%	9.3%	7.8%	6.6%	6.8%	4.0%	6.1%
7	Rx Drugs and NonDurMed	695	668	641	599	601	611	605	681	-3.9%	-4.0%	-6.0%	0.3%	1.7%	-1.0%	12.6%
8	Durable Medical Prod	150	150	147	151	159	168	167	172	0.0%	-2.0%	2.7%	5.3%	2.5%	2.5%	3.0%
9	Nursing Home Care	306	326	344	356	371	379	383	385	6.5%	5.5%	3.5%	4.2%	2.2%	1.1%	0.5%
10	Other Healthcare	261	277	296	292	300	323	304	290	6.1%	6.9%	-1.4%	2.7%	7.7%	-5.9%	-4.6%
Enrollees (k)																
11	Population (k)	4,804	4,890	4,972	5,049	5,118	5,190	5,268	5,350	1.8%	1.7%	1.5%	1.4%	1.4%	1.5%	1.6%
Total Exp (\$m)																
1	Personal Health Care	26,525	27,797	29,246	30,187	31,372	32,726	34,090	36,398	4.8%	5.2%	3.2%	3.9%	4.3%	4.2%	6.8%
2	Hospital Care	9,377	10,018	10,984	11,743	12,095	12,657	13,694	14,650	6.8%	9.0%	6.9%	3.0%	4.0%	8.2%	7.0%
3	Physician & ClinCare	6,959	7,218	7,364	7,409	7,721	7,907	7,987	8,572	3.7%	2.0%	0.6%	4.2%	2.4%	1.0%	7.3%
4	Other Prof Services	1,049	1,152	1,168	1,253	1,390	1,485	1,601	1,739	9.8%	1.4%	7.3%	10.9%	6.8%	7.8%	8.6%
5	Dental Services	1,750	1,836	1,929	1,953	2,014	2,119	2,174	2,239	4.9%	5.1%	1.2%	3.1%	5.2%	2.6%	3.0%
6	Home Health Care	609	631	699	768	830	889	951	1,026	3.6%	10.8%	9.9%	8.1%	8.1%	6.0%	7.9%
7	Rx Drugs and NonDurMed	3,339	3,264	3,189	3,026	3,074	3,172	3,187	3,642	-2.2%	-2.3%	-5.1%	1.6%	3.2%	0.5%	14.3%
8	Durable Medical Prod	719	733	730	762	812	847	880	919	1.9%	-0.4%	4.4%	6.6%	4.3%	3.9%	4.4%
9	Nursing Home Care	1,469	1,592	1,710	1,798	1,898	1,969	2,015	2,058	8.4%	7.4%	5.1%	5.6%	3.7%	2.3%	2.1%
10	Other Healthcare	1,255	1,354	1,473	1,475	1,537	1,674	1,601	1,552	7.9%	8.8%	0.1%	4.2%	8.9%	-4.4%	-3.1%
Medicaid																
\$ Per Enrollee																
1	Personal Health Care	6,888	7,109	6,972	7,178	7,104	7,535	7,995	7,143	3.2%	-1.9%	3.0%	-1.0%	6.1%	6.1%	-10.7%
2	Hospital Care	2,455	2,558	2,455	3,031	3,013	3,240	3,431	2,910	4.2%	-4.0%	23.5%	-0.6%	7.5%	5.9%	-15.2%
3	Physician & ClinCare	910	892	966	870	911	908	1,169	1,273	-2.0%	8.3%	-9.9%	4.7%	6.3%	20.8%	8.9%
4	Other Prof Services	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5	Dental Services	162	178	214	211	212	202	236	239	9.9%	20.2%	-1.4%	0.5%	-4.7%	16.8%	1.3%
6	Home Health Care	430	479	488	444	454	458	507	575	11.4%	1.9%	-9.0%	2.3%	-0.2%	11.9%	13.4%
7	Rx Drugs and NonDurMed	435	464	365	294	311	279	314	473	6.7%	-21.3%	-19.5%	5.8%	-10.3%	12.5%	50.6%
8	Durable Medical Prod	158	169	161	159	149	149	158	141	7.0%	-4.7%	-1.2%	-6.3%	0.0%	6.0%	-10.8%
9	Nursing Home Care	1,046	1,020	993	936	861	917	913	690	-2.5%	-2.6%	-5.7%	-8.0%	6.5%	-0.4%	-24.4%
10	Other Healthcare	1,292	1,350	1,331	1,233	1,192	1,328	1,267	842	4.5%	-1.4%	-7.4%	-3.3%	11.4%	-4.6%	-33.5%
Enrollees (k)																
11	Population (k)	413	430	490	551	591	610	617	845	4.1%	14.0%	12.4%	7.3%	3.2%	1.1%	37.0%
Total Exp (\$m)																
1	Personal Health Care	2,845	3,059	3,415	3,952	4,198	4,595	4,937	6,038	7.5%	11.6%	15.7%	6.2%	9.5%	7.4%	22.3%
2	Hospital Care	1,014	1,101	1,202	1,669	1,780	1,976	2,119	2,460	8.6%	9.2%	38.9%	6.7%	11.0%	7.2%	16.1%
3	Physician & ClinCare	376	384	473	479	538	580	722	1,076	2.1%	23.2%	1.3%	12.3%	9.7%	22.4%	49.0%
4	Other Prof Services	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5	Dental Services	67	77	105	116	125	123	146	202	14.9%	36.4%	10.5%	7.8%	-1.6%	18.7%	38.4%
6	Home Health Care	178	206	239	245	269	276	313	486	15.7%	16.0%	2.5%	9.8%	2.6%	13.4%	55.3%
7	Rx Drugs and NonDurMed	180	200	179	162	184	170	194	400	11.1%	-10.5%	-9.5%	13.6%	-7.6%	14.1%	106.2%
8	Durable Medical Prod	65	73	79	88	88	91	98	119	12.3%	8.2%	11.4%	0.0%	3.4%	7.7%	21.4%
9	Nursing Home Care	432	439	486	515	509	539	564	583	1.6%	10.7%	6.0%	-1.2%	9.8%	0.9%	3.4%
10	Other Healthcare	538	581	652	679	704	810	782	712	9.0%	12.2%	4.1%	3.7%	15.1%	-3.5%	-9.0%
Medicare																
\$ Per Enrollee																
1	Personal Health Care	8,075	8,383	8,712	8,877	8,990	9,064	8,978	9,287	3.8%	3.9%	1.9%	1.3%	0.8%	-0.9%	3.4%
2	Hospital Care	3,658	3,728	3,777	3,851	3,872	3,872	3,833	3,881	1.9%	1.3%	2.0%	0.5%	0.0%	-1.0%	1.3%
3	Physician & ClinCare	2,030	2,070	2,194	2,233	2,264	2,354	2,340	2,403	2.0%	6.0%	1.8%	1.4%	4.0%	-0.6%	2.7%
4	Other Prof Services	261	270	301	297	311	330	339	358	3.4%	11.5%	-1.3%	4.7%	6.1%	2.7%	5.6%
5	Dental Services	4	5	11	7	7	8	7	6	25.0%	120.0%	-36.4%	0.0%	14.3%	-12.5%	-14.3%
6	Home Health Care	448	488	548	587	588	595	561	544	8.7%	12.3%	7.1%	0.2%	1.2%	-5.7%	-3.0%
7	Rx Drugs and NonDurMed	890	976	1,036	1,049	1,070	1,081	1,096	1,309	9.7%	6.1%	1.3%	2.0%	1.0%	1.4%	19.4%
8	Durable Medical Prod	215	257	243	236	231	237	227	225	19.0%	-5.4%	-2.9%	-2.1%	2.6%	-4.2%	-0.9%
9	Nursing Home Care	534	536	545	562	592	532	522	508	4.3%	1.7%	3.1%	5.3%	-10.1%	-1.9%	-2.7%
10	Other Healthcare	52	55	55	54	55	55	54	53	5.8%	0.0%	-1.8%	1.9%	0.0%	-1.8%	-1.9%
Enrollees (k)																
11	Population (k)	598	579	602	625	650	688	722	755	3.8%	4.0%	3.8%	4.0%	5.8%	4.9%	4.6%
Total Exp (\$m)																
1	Personal Health Care	4,508	4,857	5,245	5,547	5,840	6,239	6,484	7,013	7.7%	8.0%	5.8%	5.3%	6.8%	3.9%	8.2%
2	Hospital Care	2,042	2,160	2,274	2,406	2,515	2,665	2,768	2,931	5.8%	5.3%	5.8%	4.5%	6.0%	3.9%	5.9%
3	Physician & ClinCare	1,133	1,199	1,321	1,395	1,471	1,621	1,690	1,815	5.8%	10.2%	5.6%	5.4%	10.2%	4.3%	7.4%
4	Other Prof Services	146	156	181	186	202	227	245	270	6.8%	16.0%	2.8%	8.6%	12.4%	7.9%	10.2%
5	Dental Services	2	3	7	5	4	6	5	5	50.0%	133.3%	-28.6%	-20.0%	50.0%	-16.7%	0.0%
6	Home Health Care	251	283	330	367	382	410	405	411	12.7%	16.6%	11.2%	4.1%	7.3%	-1.2%	1.5%
7	Rx Drugs and NonDurMed	487	565	624	655	695	744	791	989	13.7%	10.4%	5.0%	6.1%	7.1%	6.3%	25.0%
8	Durable Medical Prod	121	149	146	148	150	168	164	170	23.1%	-2.0%	1.4%	1.4%	8.7%	0.6%	3.7%
9	Nursing Home Care	287	310	328	351	385	366	377	383	8.0%	5.8%	7.0%	9.7%	-4.9%	3.0%	1.6%
10	Other Healthcare	29	32	33	33	36	38	39	40	10.3%	3.1%	0.0%	9.1%	5.6%	2.6%	2.6%
Private																
\$ Per Enrollee																
1	Personal Health Care	3,276	3,515	3,721	3,593	4,037	4,091	4,379	4,623	7.3%	5.9%	-3.4%	12.4%	1.3%	7.0%	5.6%
Enrollees (k)																
11	Population (k)	3,359	3,331	3,285	3,227	3,230	3,266	3,307	3,388	-0.8%	-1.4%	-1.8%	0.1%	1.1%	1.3%	2.4%
Total Exp (\$m)																
1	Personal Health Care	11,005	11,707	12,222	11,595	13,037	13,36									

RWJF and University of Wisconsin, County Health Rankings 2015

2015R percentiles of all counties reporting in the USA (n = 3141)	
State	Colorado
County	Denver

Example Pivot Table, County Health Rankings	
Pivot Table Library/Repository of Healthcare Data	
YouTube: Pivot Tables	YouTube: PowerPivot

		Overall Health Equity GPA (5 = 100%) >>										2.4
		Health Equity Index >>										48%
Values		Max	80 Ptl	60 Ptl	Median	40 Ptl	20Ptl	Mn				
Total Counties in State	60											
Average of Summary, Health Outcomes: Rank	40										Outcomes GPA >> 3.3	
Average of Summary, Health Factors: Rank	48										Health Factors GPA >> 2.0	
Average of Summary, Environment: Rank	44										Environment GPA >> 2.4	
Average of Summary, Socio-Economics: Rank	52										Socio-Economics GPA >> 1.4	
Average of Summary, Health Behaviors: Rank	49										Health Behaviors GPA >> 2.3	
Average of Summary, Clinical Care: Rank	13										Clinical Care GPA >> 3.8	
Average of Summary, Quality of Life: Rank	37											
Average of Summary, Length of Life: Rank	43											
Sum of Pop: Total	649,495	~	162,829	11,408	6,085	4,208	3,462	2,334	781		Qntl**	
Average of Pop: % Female	49.9	~	52.1	49.8	49.2	49.0	48.7	47.7	45.3			
Average of Pop: % Under 18	21.0	~	37.4	23.1	22.1	21.9	20.9	20.2	15.7			
Average of Pop: % 65 plus	10.7	~	32.2	24.4	21.0	19.8	18.8	14.2	7.4			
Average of Pop: % Afro American	9.3	~	3.4	0.7	0.5	0.5	0.3	0.2	-			
Average of Pop: % American Indian	2.0	~	82.0	3.8	2.2	1.7	1.1	0.7	0.4			
Average of Pop: % Asian	3.8	~	2.4	0.7	0.4	0.3	0.3	0.2	-			
Average of Pop: % Native Pacific	0.2	~	0.2	0.1	0.0	0.0	-	-	-			
Average of Pop: % Hispanic	30.9	~	10.8	3.1	2.4	2.0	1.9	1.2	0.7			
Average of Pop: % White NonHispanic	53.4	~	98.0	96.8	94.1	93.7	93.1	88.2	14.2			
Average of Pop: % Not English Proficient	6.7	~	1.2	0.5	0.3	0.2	0.2	0.0	-			
Average of Pop: % Rural	0.0	~	100.0	100.0	100.0	100.0	100.0	44.5	10.4			
Average of Outcomes: % Diabetic Prevalence	6.3	lo	13.9	11.0	10.5	10.3	9.8	9.1	6.2		5	
Average of Outcomes: HIV Prevalence 100k	1223	lo										
Average of Outcomes: Age-Adjusted Mortality	361	lo	834.5	381.0	331.8	314.2	302.3	270.3	231.9		2	
Average of Outcomes: Infant Mortality Rate 1000	6.9	lo	13.5	9.3	7.3	6.8	6.3	5.3	4.6		3	
Average of Outcomes: Child Mortality per 1000	64.8	lo	253.4	184.7	72.3	71.2	64.1	49.7	46.4		3	
Average of Behaviors: Food Insecurity- %	17.3	lo	17.8	7.6	6.9	6.8	6.2	5.3	3.9		1	
Average of Behaviors: Healthy Food Limited - %	6.4	lo	39.9	26.1	14.8	12.3	9.3	6.4	2.6		5	
Average of Behaviors: Children Elig Free Lunch %	58.8	lo	83.7	30.8	28.2	26.2	22.9	19.4	-		1	
Average of Behaviors: Homicide Rate	7.3	lo	2.3	2.2	2.1	2.0	1.9	1.8	1.7		1	
Average of Behaviors: MV Crash Mortality Rate	9.1	lo	68.4	51.7	28.5	23.7	18.8	13.1	6.9		5	
Average of Behaviors: Drug Poisoning Mortality 100k	25.3	lo	8.3	6.6	5.4	5.3	5.1	4.7	4.2		1	
Average of Care Access: Median Household Income	\$51,158	hi	84,237.0	62,715.0	66,354.8	54,312.0	52,944.4	47,875.2	34,491.0		2	
Average of Care Access: Uninsured, %	19.1	lo	22.5	16.3	13.7	13.0	12.4	11.1	10.0		1	
Average of Care Access: Uninsured Adult 18+	22.3	lo	26.1	18.1	15.5	14.5	13.7	12.7	11.1		1	
Average of Care Access: Uninsured Under 18 %	9.4	lo	16.5	10.9	9.5	9.1	8.5	6.9	5.6		3	
Average of Care Access: Health Cost per Capita	\$8,810	lo	11,125.0	8,716.3	8,313.1	8,053.8	7,806.2	7,236.9	6,137.7		1	
Average of Care Access: Limited by Cost - %	15.5	lo	18.1	7.7	7.0	6.6	6.3	5.8	4.2		1	
Average of Health Outcomes: YPLL <75 per 100k	7,151	lo	23,880.1	8,578.5	7,246.5	7,081.1	6,389.6	5,411.5	4,400.1		3	
Average of Health Outcomes: Fair/Poor Health %	16.4	lo	26.8	13.6	12.2	11.8	10.8	9.6	5.4		1	
Average of Health Outcomes: Poor Phys Health, Days/30	3.2	lo	4.5	3.0	2.7	2.6	2.6	2.0	1.2		1	
Average of Health Outcomes: Poor Mental Health, Days/30	3.2	lo	3.8	2.9	2.5	2.5	2.3	2.0	1.3		1	
Average of Health Outcomes: Low BirthWgt, LBW %	9.2	lo	9.4	8.1	6.5	6.3	6.0	5.5	3.6		1	
Average of Health Behaviors: Adult Obesity BMI 30, %	17.0	lo	40.0	32.4	30.9	30.6	30.1	28.7	26.6		5	
Average of Health Behaviors: Food Environment Index	6.7	hi	9.7	9.2	8.8	8.3	7.9	7.2	4.6		1	
Average of Health Behaviors: Adult Smoking, %	19.5	lo	44.3	23.7	18.4	17.4	16.2	14.3	8.3		2	
Average of Health Behaviors: Physically Inactive %	13.8	lo	35.1	31.4	30.0	29.1	28.5	26.3	19.9		5	
Average of Health Behaviors: With Access to Exercise %	99.7	hi	84.9	66.7	59.6	52.8	43.5	28.6	3.7		5	
Average of Health Behaviors: Excessive Drinking, %	22.0	lo	35.9	26.1	23.3	21.9	20.6	19.1	13.9		3	
Average of Health Behaviors: Driving Deaths, DUI %	38.9	lo	100.0	66.7	50.0	50.0	40.6	27.8	-		4	
Average of Health Behaviors: STD, Chlamydia, Rate 100k	862	lo	1,501.9	444.2	339.2	313.0	194.8	141.4	56.0		1	
Average of Health Behaviors: Teen Birth Rate 1000	65.0	lo	123.4	33.4	23.9	23.2	21.2	19.4	12.4		1	
Average of Clinical Care: PCP Rate, Primary Care	117.3	hi	478.0	86.0	55.1	44.9	41.7	24.3	-		5	
Average of Clinical Care: PCP Ratio, Primary Care		lo	-	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	-			
Average of Clinical Care: Dentist, Rate 1000	65.3	hi	124.8	67.5	45.1	41.8	31.9	-	-		4	
Average of Clinical Care: Dentist, Ratio		lo	-	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	-			
Average of Clinical Care: MHP Rate, Mental Health	404.0	hi	438.8	230.5	77.8	70.2	41.4	23.6	-		5	
Average of Clinical Care: MHP Ratio, Mental Health		lo	-	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	-			
Average of Care Access: Other Primary, Rate 1000	90.4	hi	285.8	133.8	86.9	78.7	59.8	23.1	-		4	
Average of Care Access: Other Primary, PCP Ratio		lo	-	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	-			
Average of Clinical Care: Prev Hosp Stays, Rate/1000	37.4	lo	123.7	82.2	66.2	60.1	58.2	49.4	41.2		5	
Average of Clinical Care: % Diabetics Recd HbA1c	83.9	hi	100.0	92.4	89.6	88.6	87.1	82.4	29.3		2	
Average of Clinical Care: Mamm Screening, Medicare %	61.8	hi	78.9	72.2	69.2	67.8	66.8	60.7	44.7		2	
Average of Socio-Economic: HS Graduation Rate %	53.8	hi	95.9	91.3	87.3	86.9	85.7	81.6	65.4		1	
Average of Socio-Economic: Some College, %	71.7	hi	81.6	75.1	71.7	69.2	68.2	63.0	52.5		3	
Average of Socio-Economic: Unemployment, %	7.0	lo	12.9	4.6	3.5	3.1	2.9	2.2	0.9		1	
Average of Socio-Economic: Child Poverty, % FPL < 1	28.7	lo	43.0	15.2	13.1	12.2	11.5	9.5	6.8		1	
Average of Socio-Economic: Income 80/20 Ratio	5.4	lo	7.3	5.0	4.5	4.3	4.3	4.0	3.6		1	
Average of Socio-Economic: Social Assocs Rate per 10k	10.5	hi	59.3	32.6	25.5	22.1	19.9	13.1	4.3		1	
Average of Socio-Economic: Single Parent HouseHold %	38.6	lo	62.2	27.5	23.3	21.0	19.5	14.7	2.2		1	
Average of Socio-Economic: Violent Crimes Rate 100k	598.2	lo	332.3	178.8	87.5	64.1	53.9	25.1	-		1	
Average of Socio-Economic: Deaths by Injury, Rate	84.4	lo	185.8	115.1	91.0	84.5	76.0	59.4	38.8		3	
Average of Environment: Air Pollution, Particles PM2.5	13.3	lo	11.5	10.3	9.9	9.8	9.8	9.7	9.6		1	
Average of Environment: Severe Housing Problems %	21.0	lo	22.5	10.7	9.6	8.5	7.9	6.5	5.2		1	
Average of Environment: Driving Alone to Work %	69.6	lo	82.8	79.1	75.5	74.4	71.6	63.8	54.9		4	
Average of Environment: Long Commute Alone %	32.6	lo	51.3	26.4	22.8	19.0	17.4	13.1	8.1		1	
Average of Environment: Drinking Water Violations %	0.0	lo	39.0	2.2	-	-	-	-	-		5	

*Des = Desirable Direction (Hi/Lo) **Qntl = Quintile, 5 = Most Favorable and 1 = Least Favorable