DATA SUMMARY

500 Cities: Local Data for Better Health

The dataset is sourced from the Centers for Disease Control and Prevention (CDC), Division of Population Health, Epidemiology and Surveillance Branch. It relies on data from various sources, including the Behavioral Risk Factor Surveillance System (BRFSS) for 2017 and 2016, Census Bureau 2010 census population data, and American Community Survey (ACS) 2013-2017 and 2012-2016 estimates.

Few key points about the 500 Cities: Local Data for Better Health, 2019 release dataset:

- It provides small area estimates for 27 measures related to health behaviors, outcomes, and preventive services for the 500 largest US cities and about 28,000 census tracts within them.
- The data is for the year 2017, with some measures from 2016 since some questions are only asked in alternate years in the BRFSS survey.
- The data comes from the CDC, RWJF, and other sources like the Census and BRFSS survey.
- The goal is to help identify emerging health issues and inform public health prevention activities in cities and neighborhoods.
- The estimates should not be used for program or policy evaluations since the small area model cannot detect local intervention effects.
- Overall, this data set provides valuable localized information on chronic disease and prevention metrics to enable better public health initiatives targeting specific city areas.

We have explored the data which have downloaded from CDC paces data website. Following are our findings.

Based on our analysis we have found following predictors:

- Location: state, city name, geographic level (city or tract)
- Category: Behaviors, outcomes, prevention
- Measure: Specific health metric like obesity, diabetes, mammograms
- Data value: Prevalence estimate for the measure.
- Population count: For city or tract

Deriving insights from the data:

- We can compare health behaviors, outcomes, and prevention services usage across cities and neighborhoods.

- We can identify cities/tracts with particularly high or low prevalence for specific health measures.
- Able to see health disparities between cities and within census tracts of the same city.
- Track year-over-year trends in health metrics for cities

We can do the following visualizations on this dataset:

- Choropleth maps showing measure prevalence by census tract within cities.
- Heatmaps of health metrics across cities
- Line charts of trends over time for specific cities
- Scatter plots comparing behaviors, outcomes, and prevention measures.

Screenshot of dataset:

Year	StateAbbr	StateDesc	CityName	GeographicLevel	DataSource	Category	UniqueID	Measure	Data_Value	DataValueType	Data_Value_Unit	Low_Conf	High_Conf	Data_Value	Data_Value	Population	GeoLocation	CategoryID	MeasureID	CityFIPS	TractFIPS	Short_Question_Text
2017	CA	California	Hawthorn	Census Tr	BRFSS	Health Ou	0632548-	Arthritis a%	CrdPrv	Crude pre	14.6	13.9	15.2			4,407	(33.90554	HLTHOUT	ARTHRITIS	632548	6E+09	Arthritis
2017	CA	California	Hawthorn	City	BRFSS	Unhealthy	632548	Current sr%	CrdPrv	Crude pre	15.4	15	15.9			84,293	(33.91466	UNHBEH	CSMOKIN	632548		Current Smoking
2017	CA	California	Hayward	City	BRFSS	Health Ou	633000	Coronary %	AgeAdjPr	Age-adjus	4.8	4.7	4.8			144,186	(37.63295	HLTHOUT	CHD	633000		Coronary Heart Disease
2017	CA	California	Hayward	City	BRFSS	Unhealthy	633000	Obesity ar%	CrdPrv	Crude pre	24.2	24.1	24.4			144,186	(37.63295	UNHBEH	OBESITY	633000		Obesity
2017	CA	California	Hemet	City	BRFSS	Prevention	633182	Cholester%	AgeAdjPr	Age-adjus	78	77.6	78.3			78,657	(33.73522	PREVENT	CHOLSCRE	633182		Cholesterol Screening
2017	CA	California	Indio	Census Tr	BRFSS	Health Ou	0636448-	Arthritis a%	CrdPrv	Crude pre	22	21.1	22.8			5,006	(33.7144€	HLTHOUT	ARTHRITIS	636448	6.1E+09	Arthritis
2017	CA	California	Indio	City	BRFSS	Unhealthy	636448	Binge drin %	AgeAdjPr	Age-adjus	17.7	17.5	17.9			76,036	(33.7298C	UNHBEH	BINGE	636448		Binge Drinking
2017	CA	California	Indio	City	BRFSS	Health Ou	636448	Chronic ol %	AgeAdjPr	Age-adjus	6	5.8	6.2			76,036	(33.7298C	HLTHOUT	COPD	636448		COPD
2017	CA	California	Inglewood	Census Tr	BRFSS	Health Ou	0636546-	Diagnosec%	CrdPrv	Crude pre	12.7	12	13.5			2,472	(33.94397	HLTHOUT	DIABETES	636546	6E+09	Diabetes
2016	CA	California	Inglewood	City	BRFSS	Prevention	636546	Mammog %	CrdPrv	Crude pre	82.5	82	83			109,673	(33.9565;	PREVENT	MAMMO	636546		Mammography
2017	CA	California	Lakewood	City	BRFSS	Unhealthy	639892	Obesity ar%	CrdPrv	Crude pre	22.1	21.9	22.2			80,048	(33.8470!	UNHBEH	OBESITY	639892		Obesity
2016	CA	California	Lakewood	City	BRFSS	Health Ou	639892	All teeth l %	CrdPrv	Crude pre	8.2	7.5	8.9			80,048	(33.84705	HLTHOUT	TEETHLOS	639892		Teeth Loss
2017	CA	California	Livermore	City	BRFSS	Health Ou	641992	Current as %	CrdPrv	Crude pre	8.9	8.8	9			80,968	(37.68651	HLTHOUT	CASTHMA	641992		Current Asthma
2017	US	United States		US	BRFSS	Prevention	59	Current la %	AgeAdjPr	Age-adjus	15.2	14.9	15.5			########		PREVENT	ACCESS2			Health Insurance
2017	AL	Alabama	Hoover	City	BRFSS	Health Ou	135896	Chronic ki %	CrdPrv	Crude pre	2.4	2.4	2.5			81,619	(33.3767€	HLTHOUT	KIDNEY	135896		Chronic Kidney Disease
2016	AL	Alabama	Hoover	Census Tr	BRFSS	Prevention	0135896-	Mammog %	CrdPrv	Crude pre	81.9	78.7	84.5			1,636	(33.39237	PREVENT	MAMMO	135896	1.1E+09	Mammography
2016	AL	Alabama	Hoover	City	BRFSS	Health Ou	135896	All teeth l %	CrdPrv	Crude pre	8.3	7.3	9.3			81,619	(33.3767€	HLTHOUT	TEETHLOS	135896		Teeth Loss
2017	AL	Alabama	Huntsville	City	BRFSS	Health Ou	137000	Coronary %	CrdPrv	Crude pre	6.7	6.6	6.8			180,105	(34.6989€	HLTHOUT	CHD	137000		Coronary Heart Disease
2017	AL	Alabama	Huntsville	Census Tr	BRFSS	Health Ou	0137000-	Diagnosec%	CrdPrv	Crude pre	9.3	8.5	10.3			4,387	(34.61275	HLTHOUT	DIABETES	137000	1.1E+09	Diabetes
2017	AL	Alabama	Huntsville	Census Tr	BRFSS	Unhealthy	0137000-	Obesity ar%	CrdPrv	Crude pre	30.3	29.2	31.5			2,654	(34.76362	UNHBEH	OBESITY	137000	1.1E+09	Obesity
2017	AL	Alabama	Huntsville	City	BRFSS	Health Ou	137000	Stroke an %	CrdPrv	Crude pre	3.6	3.5	3.6			180,105	(34.6989€	HLTHOUT	STROKE	137000		Stroke
2017	AL	Alabama	Mobile	City	BRFSS	Unhealthy	150000	Obesity ar%	AgeAdjPr	Age-adjus	38.2	38	38.3			195,111	(30.67762	UNHBEH	OBESITY	150000		Obesity
2017	AL	Alabama	Montgom	City	BRFSS	Prevention	151000	Cholester%	CrdPrv	Crude pre	80.2	79.9	80.4			205,764	(32.3472€	PREVENT	CHOLSCRE	151000		Cholesterol Screening
2016	AL	Alabama	Montgom	City	BRFSS	Prevention	151000	Visits to d %	CrdPrv	Crude pre	60.6	60	61.2			205,764	(32.3472€	PREVENT	DENTAL	151000		Dental Visit
2017	AL	Alabama	Tuscaloos	City	BRFSS	Health Ou	177256	Stroke am %	AgeAdjPr	Age-adjus	4.2	4.1	4.3			90,468	(33.2336C	HLTHOUT	STROKE	177256		Stroke
2017	AK	Alaska	Anchorag	Census Tr	BRFSS	Health Ou	0203000-	Diagnosec%	CrdPrv	Crude pre	7.4	6.9	7.8			4,993	(61.15935	HLTHOUT	DIABETES	203000	2E+09	Diabetes
2016	AK	Alaska	Anchorag	Census Tr	BRFSS	Prevention	0203000-	Mammog %	CrdPrv	Crude pre	74	69.4	77.9			5,217	(61.05624	PREVENT	MAMMO	203000	2E+09	Mammography
2017	AZ	Arizona	Avondale	Census Tr	BRFSS	Unhealthy	0404720-	Obesity ar%	CrdPrv	Crude pre	30.6	29.6	31.5			3,978	(33.45053	UNHBEH	OBESITY	404720	4E+09	Obesity

500_Cities__Local_Data_for_Bett