

State of Colorado Trend Analysis, 2019											
Progress Toward Healthy People 2020 Targets or Colorado 2020 Targets											
Maternal and Child Health Indicator	Source	Healthy People or Colorado 2020 Target	Year						Short Term Trend: 2013 to 2017	Long Term Trend: Percent Change 2007 to 2017	2017 Position Relative to 2020 Target
			2007	2013	2014	2015	2016	2017			
Preconception/Prenatal											
% mothers using marijuana during pregnancy	PRAMS	7.0% ^a	NA	NA	6%	6%	8%	7%	No real change	NA	Meets target
% mothers smoking during pregnancy	BC	5.9% ^a	8.8%	7.1%	6.7%	6.4%	6.2%	6.1%	Improved	-31%	Close to target
% mothers who quit smoking during pregnancy	PRAMS	70.0% ^a	48%	63%	62%	66%	56%	65%	Mixed	+34%	Close to target
% mothers discussed what to do if depressed during/after pregnancy	PRAMS	85.8% ^a	NA	78%	78%	78%	75%	74%	No real change	NA	Close to target
Opioid-related hospitalization rate females 15-44	CHA	12.0 ^a	NA	17.2	16.7	17.0	13.3 ^b	12.7 ^b	Cannot ascertain	NA	Close to target
% mothers ate less than felt because of lack of food money	PRAMS	6.0%	10%	11%	6%	8%	9%	8%	Mixed	-18%	At some distance
Opioid-related emergency department visit rate females 15-44	CHA	18.5 ^a	NA	24.1	24.7	22.5	20.6 ^b	25.7 ^b	Cannot ascertain	NA	At some distance
% mothers drinking alcohol last 3 months pregnancy	PRAMS	1.7%	11%	14%	13%	12%	17%	15%	Mixed	+29%	Far from target
% women 18-44 using long-acting reversible contraceptives*	BRFSS	NA	NA	NA	26%	21%	28%	NA	Mixed	NA	NA
% mothers with postpartum depressive symptoms	PRAMS	NA	11%	11%	9%	12%	10%	11%	No real change	+0%	NA
Infants											
Infant mortality rate	DC	6.0	6.1	5.1	4.8	4.6	4.8	4.5	Improved	-26.2%	Meets target
Neonatal mortality rate	DC	4.1	4.2	3.7	3.6	3.5	3.3	3.0	Improved	-28.6%	Meets target
Postneonatal mortality rate	DC	2.0	1.9	1.4	1.2	1.1	1.5	1.5	Mixed	-21.1%	Meets target
% cesarean deliveries among low-risk first births [^]	BC	19.6% ^a	21.2%	20.5%	20.3%	20.5%	20.4%	21.5%	No real change	+1.4%	Close to target
% births low birth weight	BC	7.8%	9.0%	8.8%	8.8%	9.0%	9.0%	9.1%	No real change	+1.1%	Close to target
% births preterm	BC	8.0% ^a	9.8%	8.6%	8.4%	8.7%	8.9%	8.8%	Worse	-10.2%	Close to target
African American infant mortality rate	DC	4.0 ^a	13.7	10.3	11.5	11.8	10.7	8.7	Improved	-36.5%	Far from target
African American/White infant mortality ratio	DC	NA	2.3	2.0	2.5	2.8	2.4	2.0	Mixed	-13.0%	NA
% infants breastfed exclusively through six months	NIS [†]	36.3% ^a	NA	26%	35%	22%	NA ^c	NA ^c	Mixed ^d	NA	NA
% infants who were ever breastfed	NIS [†]	92.5% ^a	NA	89%	92%	91%	NA ^c	NA ^c	No real change ^d	NA	NA

Note: See page three for explanation of headings.

Cells shaded in light blue represent survey data results which require greater change over time to be considered "Improved" or "Worse" compared to non-survey data. Percentages from surveys are all rounded as is the percentage change between 2007 and 2017. Survey data tend to have wider confidence intervals and require further analysis to assess statistical significance.

* Long-acting reversible contraceptives: intrauterine device or implant

NA denotes data not available, trend not applicable, or no 2020 target.

^a Colorado 2020 target.

^b Change in calculation methodology in this year; do not compare with earlier estimates.

[†] Data year represents year of birth

[^] Low-risk first births: term, singleton, vertex births to nulliparous women

^c Data not available as the survey is administered to children at ages 19-35 months.

^d Short term trend measured from 2013-2015.

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			2007	2013	2014	2015	2016				2017
Children											
% children ages 1-5 w/ parents asked by provider to fill out child q'naire	CHS	52.7% ^a	NA	55%	67%	56%	62%	65%	Improved	NA	Meets target
% children receiving needed mental health care or counseling	CHS	75.8%	NA	70%	77%	74%	75%	77%	Improved	NA	Meets target
% children ages 5-14 overweight or obese	CHS	25.0% ^a	NA	20%	23%	28%	22%	23%	Mixed	NA	Meets target
% children ages 6-11 physically active 60 minutes per day	CHS	30.5% ^a	NA	50%	48%	51%	57%	52%	Mixed	NA	Meets target
% children exposed to secondhand smoke who live with a smoker	CHS	13.7% ^a	NA	20%	22%	16%	16%	14%	Improved	NA	Close to target
% children ages 19-35 mo received 4:3:1:3*:3:1:4 vaccinations	NIS	80.0%	NA	69%	73%	75%	76%	71%	Mixed	NA	Close to target
% children ages 1-14 with a medical home	CHS	63.3%	NA	64%	64%	61%	62%	61%	No real change	NA	Close to target
% children ages 1-14 drinking SSB* 1+ times per day	CHS	15.0% ^a	NA	NA	NA	16%	14%	16%	No real change ^e	NA	Close to target
% CSHCN ages 1-14 with a medical home	CHS	48.0% ^a	NA	53%	51%	49%	49%	45%	Worse	NA	Close to target
% children ages 0-18 at or below 100% federal poverty level	ACS	NA	NA	17%	15%	15%	13%	12%	Improved	NA	NA
Child death rate ages 1-14	DC	NA	15.4	17.2	15.1	14.8	14.9	16.1	Mixed	+4.5%	NA
% children with special health care needs (CSHCN)	CHS	NA	NA	17%	20%	18%	18%	19%	No real change	NA	NA
Youth											
% youth currently using marijuana [†]	HKCS	19.7% ^a	NA	20%	NA	21%	NA	19%	No real change	NA	Meets target
Graduation rate (%)	CDE	87.0%	NA	76.9%	77.3%	77.3%	78.9%	79.0%	Improved	NA	Close to target
% youth who were bullied in the past year [†]	HKCS	22.0% ^a	NA	26%	NA	25%	NA	24%	No real change	NA	Close to target
% youth with an adult to go to for help with serious problem [†]	HKCS	83.2%	NA	NA	NA	71%	NA	74%	Cannot ascertain ^f	NA	Close to target
% youth participating in any extracurricular activities [†]	HKCS	90.6%	NA	68%	NA	69%	NA	68%	No real change	NA	At some distance
Youth motor vehicle death rate ages 15-19	DC	12.4 ^g	17.9	11.8	10.0	9.5	13.5	15.2	Worse	-15.1%	At some distance
Youth suicide death rate ages 15-19	DC	10.2 ^g	10.0	13.8	12.6	20.5	18.1	20.6	Worse	+106.0%	Far from target
% youth using long-acting reversible contraceptives ^{^†}	HKCS	NA	NA	5%	NA	8%	NA	10%	Improved	NA	NA
Youth birth rate ages 15-19	BC	NA	38.2	22.3	19.4	18.3	17.1	15.5	Improved	-59.4%	NA
% youth performing an organized community service [†]	HKCS	NA	NA	45%	NA	43%	NA	44%	No real change	NA	NA
% youth using a condom at last intercourse [†]	HKCS	NA	NA	64%	NA	61%	NA	59%	Worse	NA	NA
Chlamydia rate ages 15-19	STI/HIV	NA	NA	1566	1514	1571	1643	1757	Worse	NA	NA
% youth feeling sad or hopeless every day for 2+ weeks [†]	HKCS	NA	NA	24%	NA	30%	NA	31%	Worse	NA	NA
% youth ever misused prescription drug [†]	HKCS	NA	NA	NA	NA	7%	NA	5%	Cannot ascertain ^f	NA	NA
% youth who usually slept somewhere besides parent's home [†]	HKCS	NA	NA	NA	NA	NA	NA	3%	Cannot ascertain ^f	NA	NA

* SSB: Sugar-sweetened beverages

[†] High school students (grades 9-12)[^] Long-acting reversible contraceptives: intrauterine device or implant

NA denotes data not available, trend not applicable, or no 2020 target.

^a Colorado 2020 target.^e Short term trend measured from 2015-2017.^f Cannot ascertain short term trend with less than three years of data.^g Target is for all ages, not just for age group shown.

Maternal and Child Health Indicator

Data are shown for some new measures as well as for measures that have been included in the Maternal and Child Health State Trend Analysis for a number of years. Most measures are expressed as percentages. Four measures are based on deaths per 1,000 births: infant mortality, neonatal mortality, postneonatal mortality, and African American infant mortality. The youth birth rate is based on births per 1,000 female population ages 15-19. Some rates are expressed per 100,000 population: opioid-related hospitalization, opioid-related emergency department visit, chlamydia, youth motor vehicle death, child death, and youth suicide.

Source

Many measures are based on survey data from the Behavioral Risk Factor Surveillance System (BRFSS), the Pregnancy Risk Assessment Monitoring System (PRAMS), the Child Health Survey (CHS), the Healthy Kids Colorado Survey (HKCS), the National Immunization Survey (NIS) and the American Community Survey (ACS). Data obtained from surveys are rounded to the nearest whole percentage; data and short term trends for these measures are lightly shaded in blue. Most other measures come from birth certificate (BC) and death certificate (DC) data, but some measures are derived from special registries or data sets. Emergency department and injury hospitalization data come from the Colorado Hospital Association (CHA). The Colorado Department of Education (CDE) provides data on high school graduation rates. Chlamydia rates are from the STI/HIV Program (STI/HIV) at CDPHE.

Healthy People 2020 Target

Every ten years, Healthy People sets targets for numerous public health objectives. For 2020, there are more than 1,200 objectives. For more information, visit: <https://www.healthypeople.gov/2020/default>. Colorado 2020 targets were added for measures without HP targets, where HP targets have already been met, or where measures have targets in the MCH block grant, and were set by the MCH Implementation Teams.

Year

Data reported below each year's heading are data pertaining to that year. For example, the percent of mothers smoking during pregnancy shown for 2017 (6.1%) are from data from the birth certificate obtained during 2017.

Short Term Trend: 2013 to 2017

Short term trends are categorized as "Improved," "Worse," "Mixed," or "No real change." For a variety of reasons, some trends cannot be determined and are shown as "Cannot ascertain." The description of the change between the 2013 and 2017 (or other years as noted) may be somewhat arbitrary. Values based on survey data need relatively large changes to obtain "Improved" or "Worse" labels because percentages shown are estimates with confidence intervals. Rates based on full count data (births, deaths, registries) require smaller changes to obtain descriptions indicating change. Some trends are measured from a year other than 2013 and are noted.

Long Term Trend: Percent Change 2007 to 2017

Long term trends are presented when data are available and comparable between 2007 and 2017. The percent change is the difference between the 2007 and 2017 values divided by the 2007 value. The result is multiplied by 100 to yield a percent. The percent change is how much the measure has increased (+%) or decreased (-%) over the ten-year period. The percent change is based on unrounded values for 2007 and 2017.

2017 Position Relative to 2020 Target (HP or Colorado)

"Meets target" indicates that the value shown for 2017 is the same or better than the target set for 2020. "Close to target" indicates that the value is within 20 percent of the target. "At some distance" describes values that are more than 20 percent away from the target, but are less than double the target for measures requiring a decrease and are up to half the target for measures requiring an increase. "Far from target" indicates a value that is either double or half the 2020 target, depending on whether the measure requires a decrease or an increase.