Boulder County Trend Analysis, 2017 Progress Toward Healthy People 2020 Targets or Colorado 2020 Targets Long Term 2017 Position **Healthy People Short Term** Number MCH Data By Year* Trend: of Years 2020 or Colorado Trend: Relative to 2020 Maternal and Child Health Indicator (Sorted by 2017 Position Percent Change of Data 2020 Target 2013 to 2017 **Target** 2007 2013 2014 2015 2016 2017 2007 to 2017 Relative to 2020 Target) % mothers who smoked 3 months before pregnancy 12.2% N/A 5.6% 5.0% 5.8% 4.5% 4.1% N/A Meets target Improved % mothers who smoked during pregnancy 3.5% 3.3% N/A 1 6.1%^a N/A 4.4% 3.9% 3.2% Improved Meets target Infant mortality rate 5 6.0 per 1.000 4.7 5.6 5.3 4.9 4.9 4.0 Improved -14.9% Meets target 3 289.3 236.4 204.4 176.3 150.9 150.2^b -48.1% Injury hospitalization rate ages 10-19 226.9^a Improved Meets target Neonatal mortality rate 5 3.4 4.2 4.0 3.6 -7.6% Meets target 4.1 per 1.000 3.8 3.1 Improved 5 5.2 6.2 6.1 5.7 5.3 Perinatal mortality rate 5.9 per 1.000 5.0 Improved -3.8% Meets target 5 2.0 per 1.000 1.3 1.4 1.3 1.3 1.2 8.0 -38.5% Meets target Postneonatal mortality rate Improved Teen birth rate ages 15-17 3 15.4 10.4 9.2 7.6 7.0 5.7 Improved -63.0% Meets target 10.0 per 1,000^a 5 12.1 11.5 10.4 -23.1% Teen suicide death rate ages 15-19 8.8 9.5 9.3 Improved Meets target 10.2 per 100,000° 56% % children ages 6-11 physically active 60 min per day 3 N/A N/A N/A 56% 61% Improved^d N/A Meets target 37.0%^a 2 91% 93% 93% 97% 96% N/A^e % infants who were ever breastfed 84.5%^a Improved^f $+5.5\%^{9}$ Meets targeth 2 N/A 83% 86% 86% 91% N/A % infants placed to sleep on their backs 75.8% N/A^e Improved^f Meets targeth 3 % births preterm 8.0%^a 8.9% 7.4% 7.7% 7.3% 7.7% 7.6% Mixed -14.6% Meets target N/A 33.9% 31.4% 32.5% 34.2% 34.0% Mixed N/A % mothers overweight or obese before pregnancy Meets target 38.0%^a 3 % births very low birth weight 1.4% 1.1% 1.2% 1.2% 1.2% 1.3% 1.2% No real change +9.1% Meets target 3 N/A NA N/A 16% 16% 23% N/A % children ages 5-14 overweight or obese 25.0%^a Worsed Meets target % cesarean deliveries among low-risk first births 3 N/A 23.0% 20.8% 19.9% 19.0% 19.4% Improved N/A Close to target 18.5%^a 1 N/A % mothers with appropriate weight gain during pregnancy N/A 36.4% 38.9% 35.4% 36.3% 37.8% Mixed Close to target 38.0%^a 5 65.0% 69.6% 71.0% 72.2% 70.5% 69.0% +6.2% % very low birth weight births in Level IIIs 83.7% No real change Close to target % mothers discussed what to do if depressed during/after pregnancy 2 N/A 74% 75% 73% 76% N/A 85.8%^a N/A^e No real change Close to targeth 3 7.8% 8.3% 7.4% 7.7% 7.8% 8.3% 8.0% Worse -3.6% Close to target % births low birth weight 3 N/A N/A 70% 56% 57% N/A % children ages 1-14 with a medical home 63.3% 64% Close to target Worse 1 NA N/A N/A N/A Cannot ascertain N/A % teens who were bullied in past year Close to target 22.0%^a 25%^j 26%^j 3 % children ages 1-5 w/ parents asked by provider to fill out child g'naire 52.0%^a N/A N/A 35%^j 43%^j 49%^j 39%^j Mixedi N/A At some distance Motor vehicle death rate ages 0-14 3 1.9 0.0 0.0 DS DS DS Cannot ascertain N/A Unknown 12.4 per 100,000° Teen motor vehicle death rate ages 15-19 3 18.5 DS 4.4 DS DS DS Cannot ascertain N/A Unknown 12.4 per 100.000°

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.

^a Colorado 2020 target.

^b Hospitalization data transitioned from ICD 9 to ICD 10 codes in October 2015; interpret 2017 data with caution.

^c Healthy People targets are for all ages and are not specific to the age group shown.

^d Short term trend is measured from 2015 to 2017.

e 2015 PRAMS data were not available at time of trend analysis production.

^f Short term trend is measured from 2013 to 2016.

g Long term trend is measured from 2007 to 2016.

^h Position relative to 2020 target is based on the data reported in 2016, not 2017.

¹Short term trend is measured from 2014 to 2017.

^j Represents regional data.

DS denotes data has been supressed due to small sample size. Supression criteria is unique to each data source.

N/A denotes data not available or applicable.

^{*} Refer to the accompanying data years table to determine the exact years for each value.

Additional Notes

Maternal and Child Health Indicator

Data are shown for indicators that have been included in the MCH County Data Sets for a number of years, or for new national or state MCH performance measures. Eight indicators are based on survey data available from the Pregnancy Risk Assessment Monitoring System, the Colorado Child Health Survey, and the Healthy Kids Colorado Survey: ever breastfed, infants placed to sleep on their backs, pregnancy depression, child development questionnaire, medical home, overweight or obese children, physically active children, and bullied teens. Data and short term trends for these indicators are lightly shaded. Most other indicators come from birth and death data, but some indicators (injury hospitalization) are derived from special registries or data sets. Refer to the *Definitions for Data in 2017 County Trend Analysis* handout for futher explanation of each indicator.

Number of Years of Data

Indicators use one, two, three, or five years of data. For example, the 2017 teen motor vehicle death rate for ages 15-19 is based on three years of data (2013, 2014, and 2015).

Healthy People 2020 or Colorado 2020 Target

Every ten years, Healthy People sets targets for numerous public health objectives. For 2010 there were 467 separate objectives; for 2020, the number increased to nearly 600. While many 2010 objectives were retained for 2020, the targets for nearly all of them have changed, and the new targets are virtually all more modest than those set for 2010. For more information, visit: http://www.healthypeople.gov/2020/default.aspx. Colorado 2020 targets are used in place of Healthy People 2020 targets where available.

MCH Data by Year

Each year when a county trend analysis is released the most recent available data are presented. The years of data that are available differ among indicators. For example, the most recent data available for the teen motor vehicle death rate for ages 15-19 is from 2015. Because this measure is a three-year rate, data from 2013, 2014, and 2015 are presented under the 2017 heading. As a general rule, the values shown beneath a column heading reflect data from at least two years earlier. Refer to the accompanying data years table to determine the exact years for each value.

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 labeling of the change between 2013 and 2017 (or other years as footnoted) may be somewhat arbitrary. Values based on survey data need relatively large changes to obtain "Improved" or "Worse" labels because percentages shown are estimates that have confidence intervals. Values based on full count data (births, deaths, registries) require smaller changes to obtain labels denoting change. The 2013 and 2017 data values usually contain data from the previous 5 years, 3 years, or 1 year, so the trends described reflect changes in the data that are reported in the MCH Trend Analysis for 2013 and 2017, and do not represent changes that actually occurred between 2013 and 2017.

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 old and new estimates divided by the old estimate. 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 2007 and 2017 data values usually contain data from the previous 5 years, 3 years, or 1 year (children overweight or obese and infants placed to sleep on their backs contain data from 2 years), so the trends described reflect changes in the data that are reported in the MCH County Data Sets for 2007 and in the MCH Trend Analysis for 2017 and do not represent changes that actually occurred between 2007 and 2017.

2017 Position Relative to 2020 Target

"Meets target" indicates that the value shown in the MCH Trend Analysis released in 2017 is the same or better than the target. "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 indicators requiring a decrease and are up to half the target for indicators requiring an increase. "Far from target" indicates a value that is either double or half the HP 2020 target, depending on whether the indicator requires a decrease or an increase. The values shown in 2017 are compared to the HP 2020 targets or the Colorado 2020 targets; see footnotes.

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Boulder County Trend Analysis, 2017 Data Years

| Data rears | | | | | | | |
|--|-----------------------|------------------|-----------|-----------|-----------|-----------|-----------|
| | Number of Years of | MCH Data By Year | | | | | |
| Maternal and Child Health Indicator | Data | 2007 | 2013 | 2014 | 2015 | 2016 | 2017 |
| % mothers who smoked 3 months before pregnancy | 1 | N/A | 2011 | 2012 | 2013 | 2014 | 2015 |
| % mothers who smoked during pregnancy | 1 | N/A | 2011 | 2012 | 2013 | 2014 | 2015 |
| Infant mortality rate | 5 | 2001-2005 | 2007-2011 | 2008-2012 | 2009-2013 | 2010-2014 | 2011-2015 |
| Injury hospitalization rate ages 10-19 | 3 | 2003-2005 | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| Neonatal mortality rate | 5 | 2001-2005 | 2007-2011 | 2008-2012 | 2009-2013 | 2010-2014 | 2011-2015 |
| Perinatal mortality rate | 5 | 2001-2005 | 2007-2011 | 2008-2012 | 2009-2013 | 2010-2014 | 2011-2015 |
| Postneonatal mortality rate | 5 | 2001-2005 | 2007-2011 | 2008-2012 | 2009-2013 | 2010-2014 | 2011-2015 |
| Teen birth rate ages 15-17 | 3 | 2003-2005 | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| Teen suicide death rate ages 15-19 | 5 | 2001-2005 | 2007-2011 | 2008-2012 | 2009-2013 | 2010-2014 | 2011-2015 |
| % children ages 6-11 physically active 60 min per day | 3 | N/A | N/A | N/A | 2011-2013 | 2012-2014 | 2013-2015 |
| % infants who were ever breastfed | 2 | 2000-2004 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | N/A |
| % infants placed to sleep on their backs | 2 | N/A | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | N/A |
| % births preterm | 3 | 2003-2005 | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| % mothers overweight or obese before pregnancy | 1 | N/A | 2011 | 2012 | 2013 | 2014 | 2015 |
| % births very low birth weight | 3 | 2003-2005 | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| % children ages 5-14 overweight or obese | 3 | N/A | NA | NA | 2011-2013 | 2012-2014 | 2013-2015 |
| % cesarean deliveries among low-risk first births | 3 | N/A | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| % mothers with appropriate weight gain during pregnancy | 1 | N/A | 2011 | 2012 | 2013 | 2014 | 2015 |
| % very low birth weight births in Level IIIs | 5 | 2001-2005 | 2007-2011 | 2008-2012 | 2009-2013 | 2010-2014 | 2011-2015 |
| % mothers discussed what to do if depressed during/after pregnancy | 2 | N/A | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | N/A |
| % births low birth weight | 3 | 2003-2005 | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| % children ages 1-14 with a medical home | 3 | N/A | N/A | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| % teens who were bullied in past year | 1 | N/A | N/A | N/A | N/A | 2013 | 2015 |
| % children ages 1-5 w/ parents asked by provider to fill out child q'naire | 3 | N/A | N/A | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| Motor vehicle death rate ages 0-14 | 3 | 2003-2005 | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |
| Teen motor vehicle death rate ages 15-19 | 3 | 2003-2005 | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 |