Health Profile Chartbook

Region 7

(Alpena, Antrim, Benzie, Charlevoix, Cheboygan, Crawford,

Emmet, Grand Traverse, Kalkaska, Leelanau, Manistee,

Missaukee, Montmorency, Otsego, Presque Isle,

Roscommon, Wexford)

2011

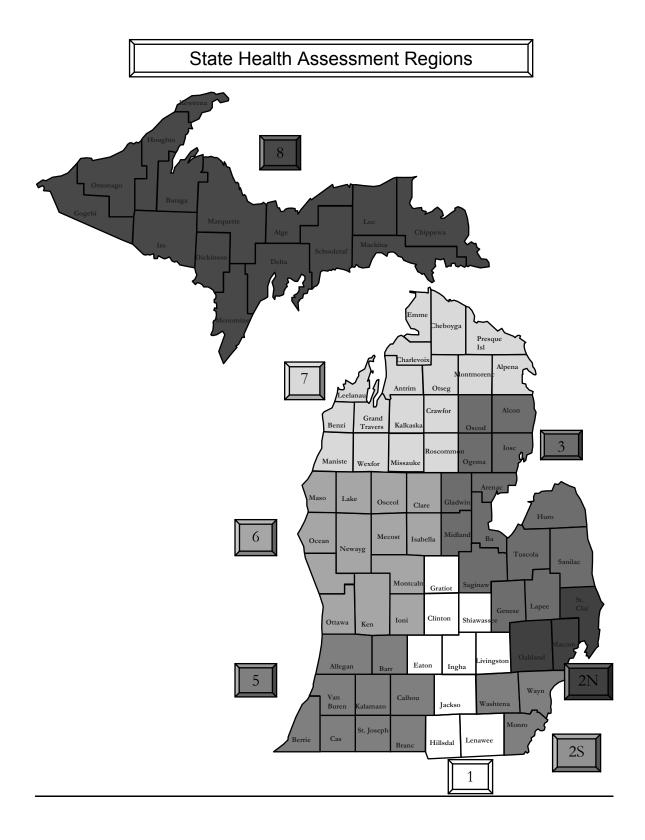
Michigan Department of Community Health



Rick Snyder, Governor Olga Dazzo, Director

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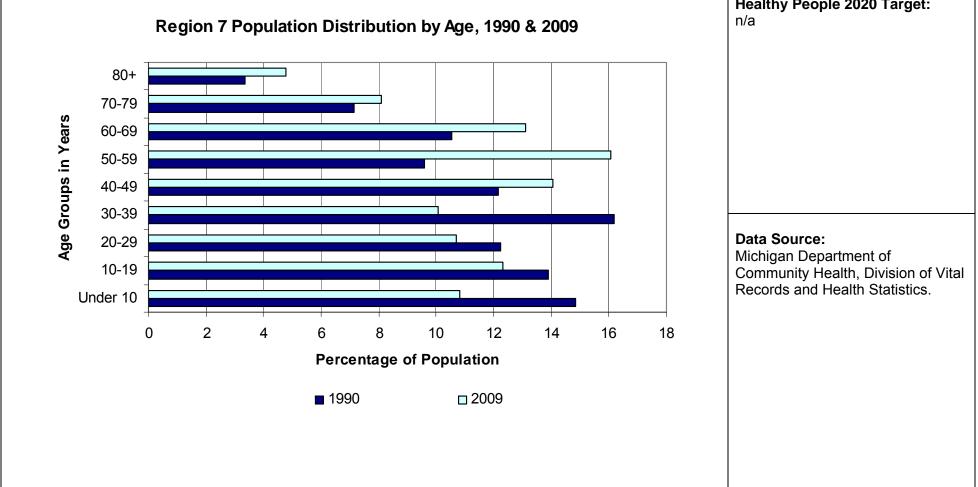
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Demographics: Population Distribution by Age

Indicator Definition/Overview:

- The average age of the population of Region 7 has increased from 1990 to 2009. ٠
- In 1990, there were more people aged 30-39 than any other age group in Region 7. In 2009, there were more people aged 50-59 than any other age group ٠ in Region 7.
- The overall need for healthcare services is increasing with Michigan's aging population because the oldest age groups (which have increased in size) tend to be the greatest consumers of health care resources.

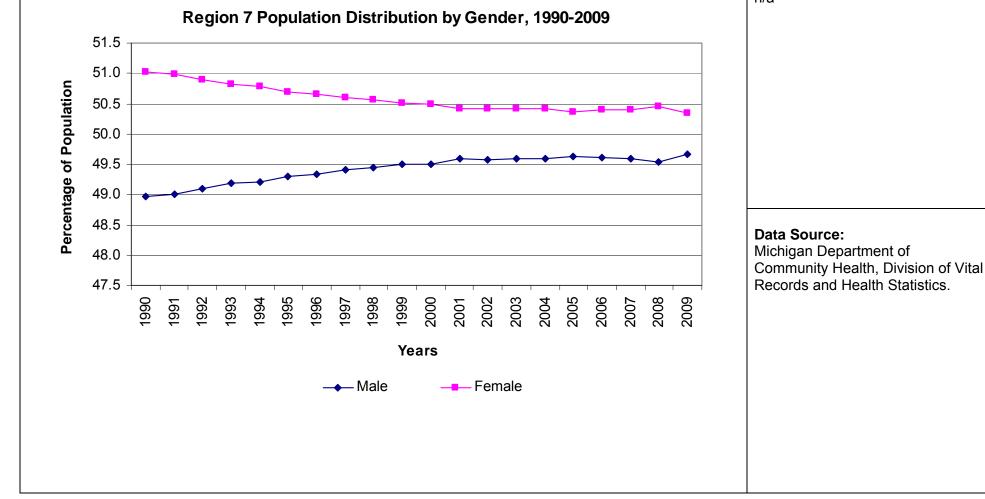


Healthy People 2020 Target:

Demographics: Population Distribution by Gender

Indicator Definition/Overview:

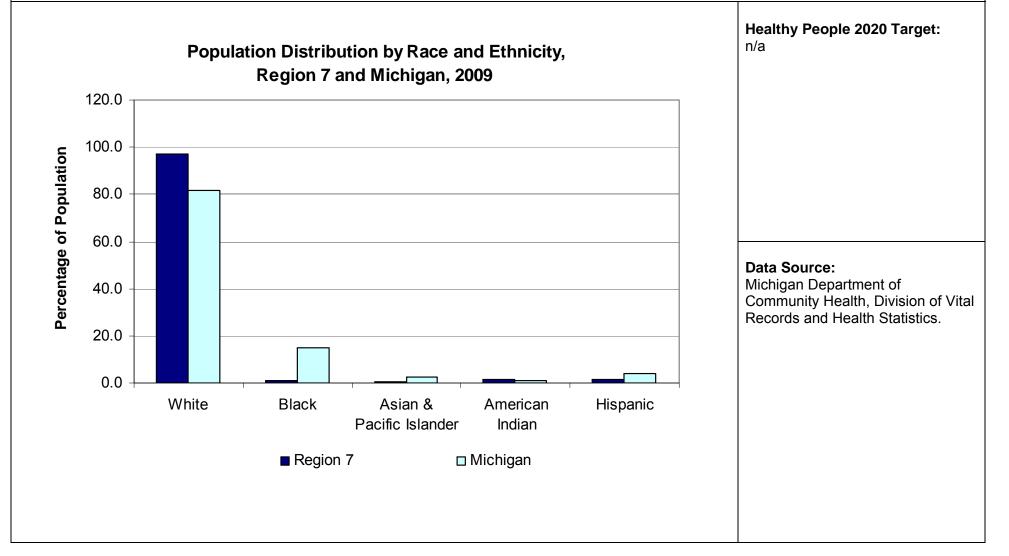
- From 1990 to 2009, the portion of Region 7's population that is female has steadily decreased by just over one-half percent, whereas the portion of the population that is male has steadily increased by just over one-half percent.
- In both 1990 and 2009, there was a higher percentage of females than males in Region 7, which is the same overall pattern in Michigan as a whole.

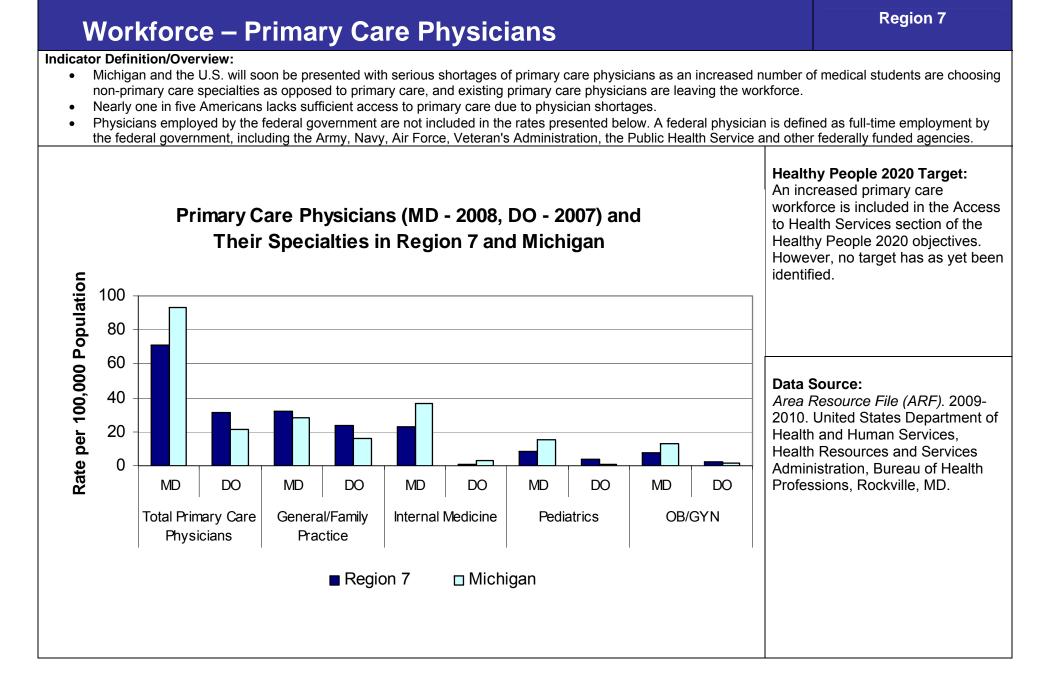


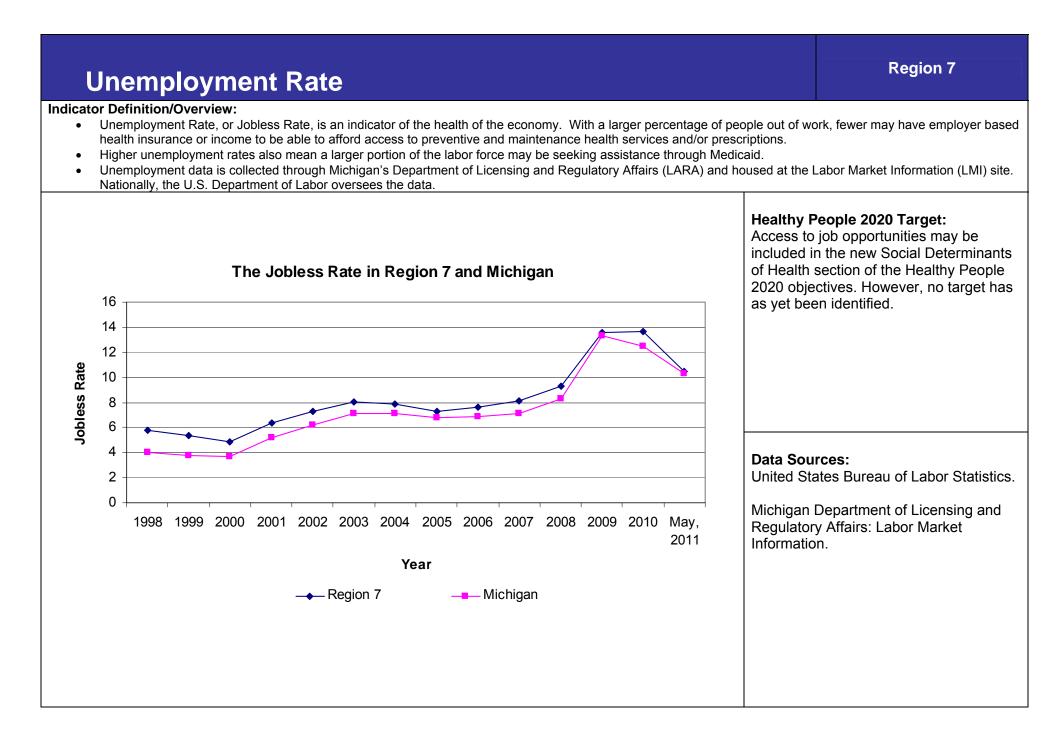
Healthy People 2020 Target: n/a

Racial and Ethnic Distribution

- Region 7 has a higher percentage of White and American Indian individuals than the state as a whole.
- Region 7 has a lower percentage of Black, Asian and Pacific Islander, and Hispanic individuals than the state as a whole.
- Note: Hispanic is not a mutually exclusive ethnic category, and could include individuals from any race category.



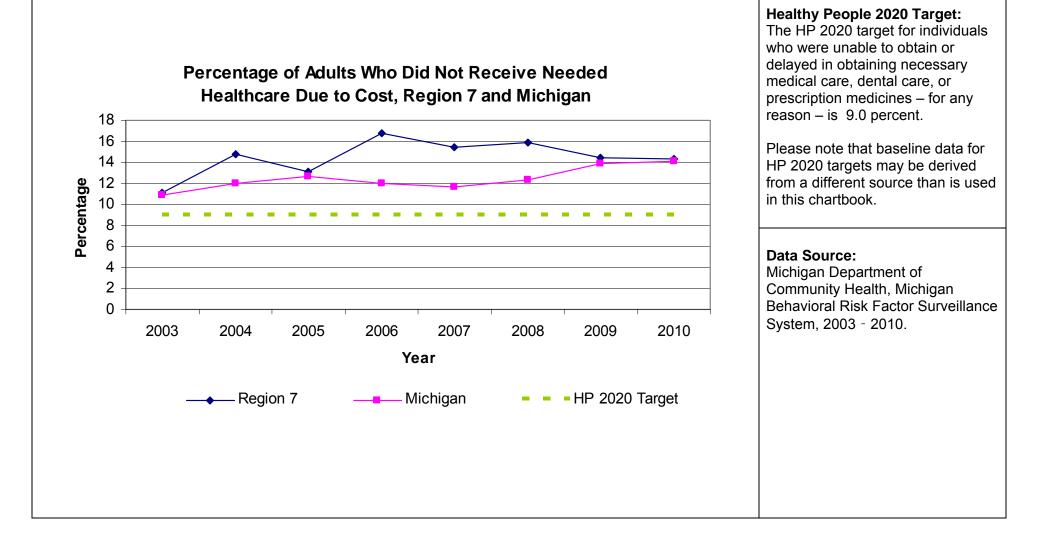




Region 7

Access to Care

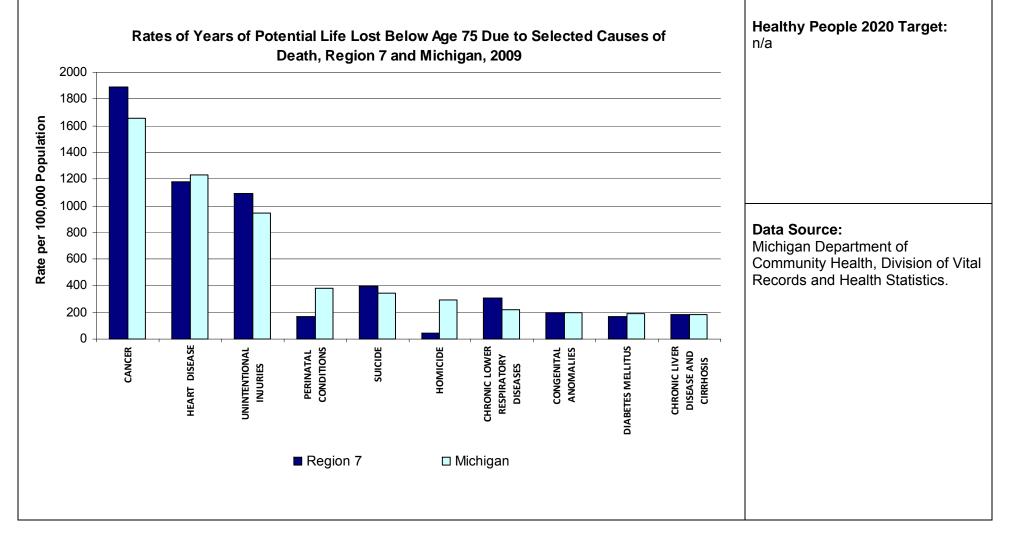
- Unmet healthcare need is an indicator commonly used to portray problems in access to health care services, including lack of health insurance and limited availability of providers.
- Unmet healthcare need is also associated with greater emergency room use and disadvantaged individuals delay in seeking care for conditions that are
 associated with longer hospital stays and poorer health outcomes.



Leading Causes of Death Indicator Definition/Overview: Heart disease is the leading cause of death, and cancer is the second leading cause of death, in both Region 7 and Michigan. ٠ Region 7 has slightly higher age-adjusted death rates for stroke, unintentional injury, Alzheimer's disease, and suicide than Michigan. Michigan has slightly higher age-adjusted death rates for heart disease, cancer, diabetes, and kidney disease than Region 7. ٠ Healthy People 2020 Target: Age-adjusted Death Rates for the Ten Leading Causes of Death, n/a **Region 7 and Michigan** 250 Rate per 100,000 Population 200 150 100 Data Source: 50 Michigan Department of Community Health, Division of Vital Records and Health Statistics. 0 CHONELOWEI RESPIESON DISESSES Uninentonal Initites Heart Disease Diabees Mellins Hidney Disease Preunorialnuenta ALL HEIMERS DISEASE stroke Suicide Region 7 Michigan

Years of Potential Life Lost

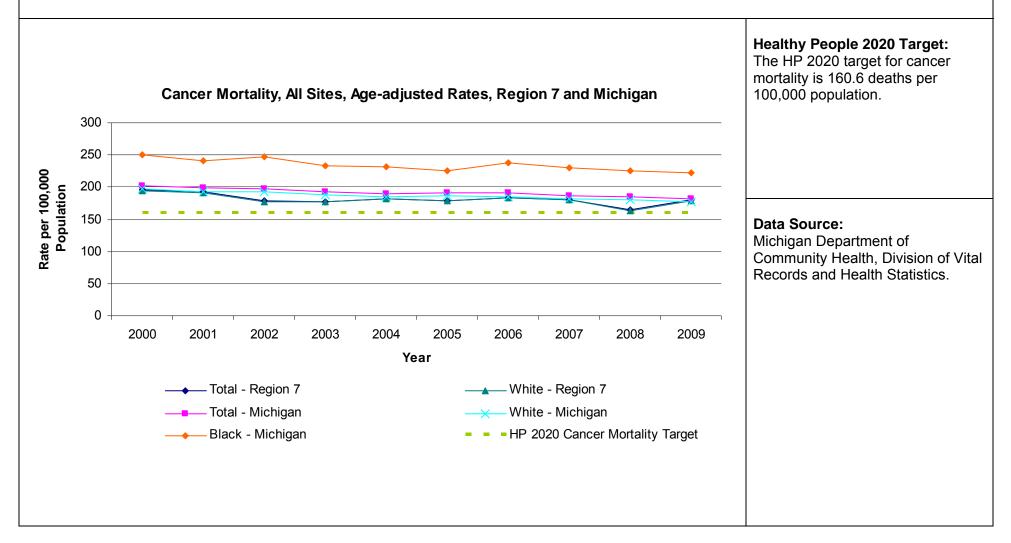
- Years of potential life lost is a measure of mortality that emphasizes the causes of death that are most prevalent among persons under age 75.
- The number of years of potential life lost is calculated as the number of years between the age at death and 75 years of age for persons dying before their 75th year.
- Cancer and heart disease are the leading conditions that have caused years of potential life lost before age 75 in Region 7.



Cancer Mortality

Indicator Definition/Overview:

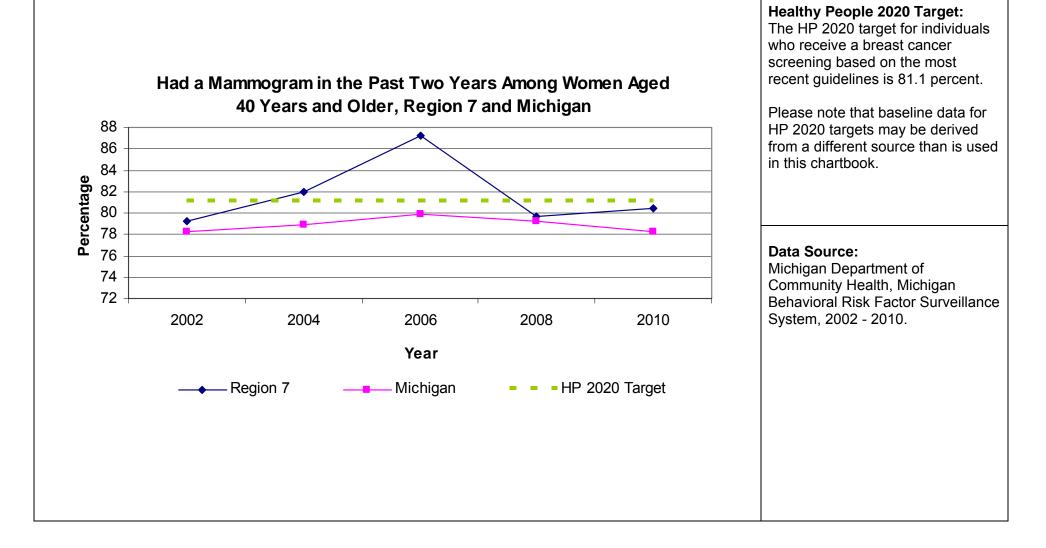
- Though survival rates for many types of cancer have increased recently, cancer remains the second leading cause of mortality in both Region 7 and Michigan.
- Preventive measures such as avoidance of tobacco, maintaining a healthy weight, and utilizing sun protection can result in fewer cancers.
- Medically underserved populations are at higher risk of being diagnosed at a later stage of cancer, thus decreasing the likelihood of survival.



Breast Cancer Screening

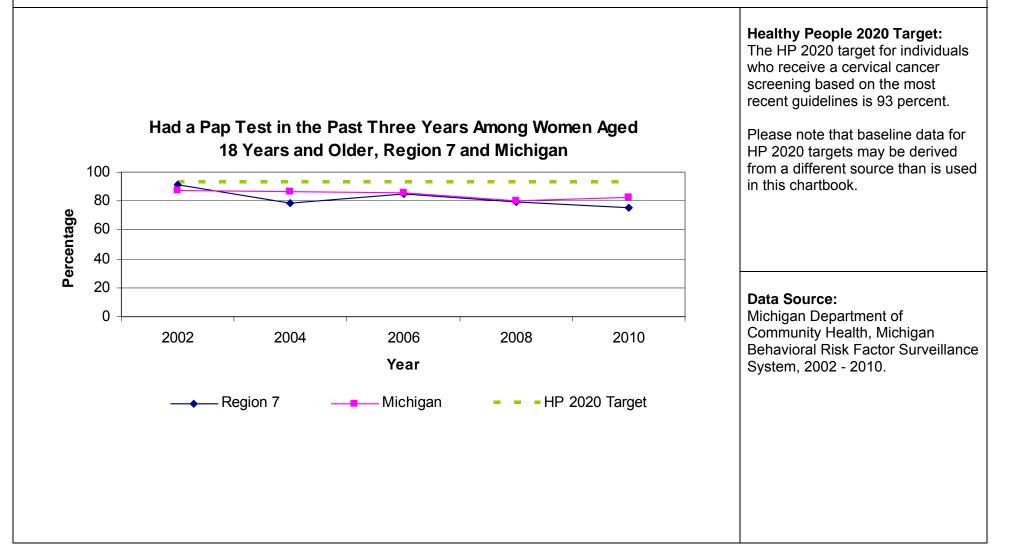
Indicator Definition/Overview:

- Screening mammograms are used to periodically check for breast cancer in women who have exhibited no signs of the disease. Mammograms may also be used as a diagnostic tool after a mass has been detected or other symptoms arise.
- Current National Cancer Institute guidelines state that women over 40 should have mammograms every one to two years.

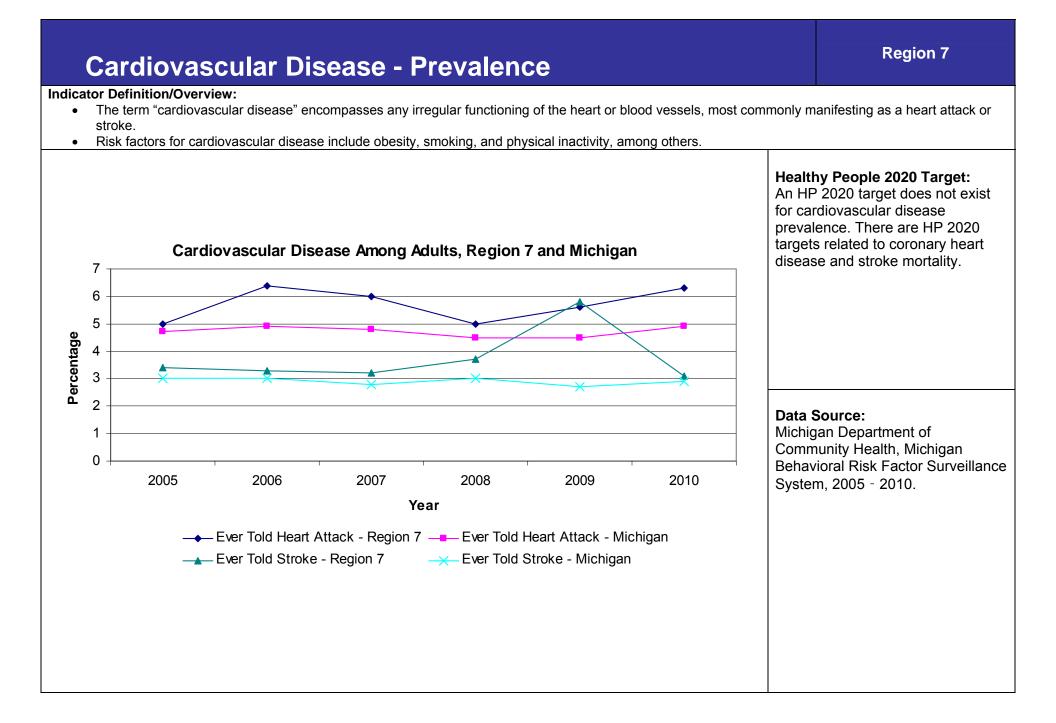


Cervical Cancer Screening

- Pap tests detect abnormalities in cervical cells that may lead to cancer.
- Women aged 21 to 30 years should be screened for cervical cancer every two years, while women 30 years and older who have had three consecutive normal test results may be screened once every three years.

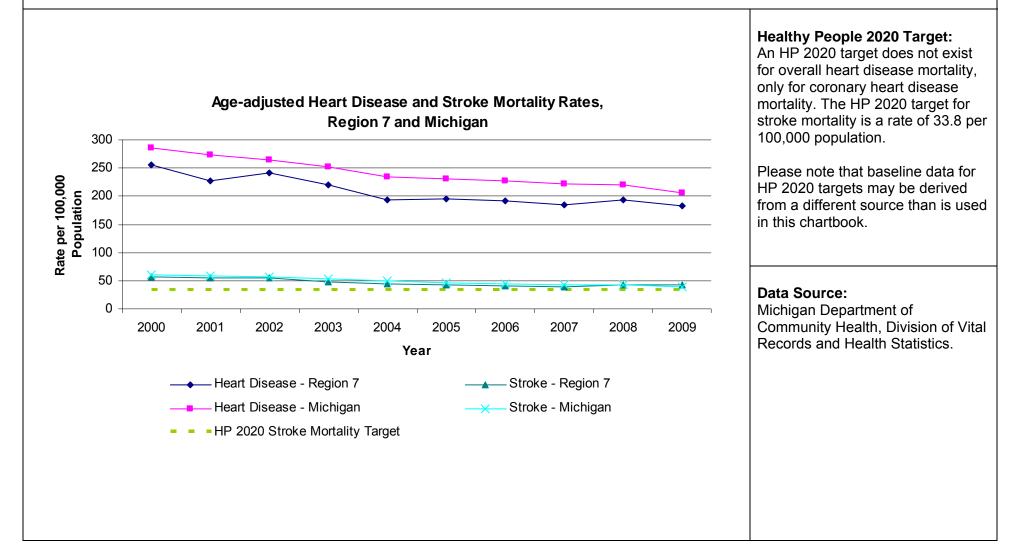


Region 7 Colorectal Cancer Screening Indicator Definition/Overview: Colorectal cancer is the third most common type of non-skin cancer in both men and women in the United States. ٠ In general, individuals should be tested for colorectal cancer beginning at age 50. Up to 60 percent of deaths from colorectal cancer could be prevented through regular screening. Healthy People 2020 Target: The HP 2020 target for individuals who receive a colorectal cancer screening based on the most recent guidelines is 70.5 percent. Colorectal Cancer Screening Among Adults Aged 50 Years and Older, **Region 7 and Michigan** Please note that baseline data for 80 HP 2020 targets may be derived from a different source than is used 60 Percentage in this chartbook. 40 20 0 Data Source: 2002 2004 2006 2008 2010 Michigan Department of Community Health, Michigan Year Behavioral Risk Factor Surveillance - Had a Blood Stool Test in the Past Two Years - Region 7 System, 2002 - 2010. Had a Blood Stool Test in the Past Two Years - Michigan Had a Sigmoidoscopy or Colonoscopy in the Past Five Years - Region 7 Had a Sigmoidoscopy or Colonoscopy in the Past Five Years - Michigan HP 2020 Target



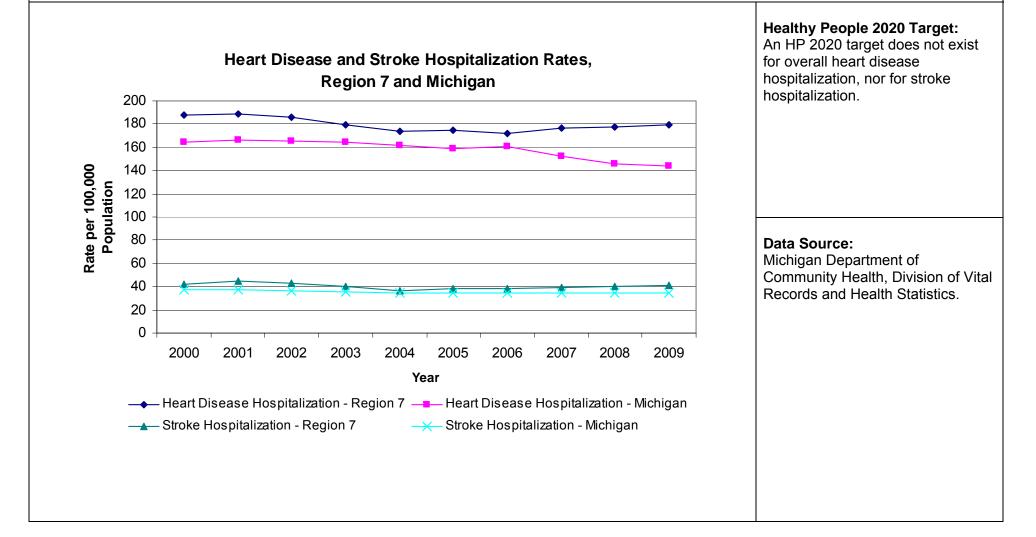
Cardiovascular Disease - Mortality

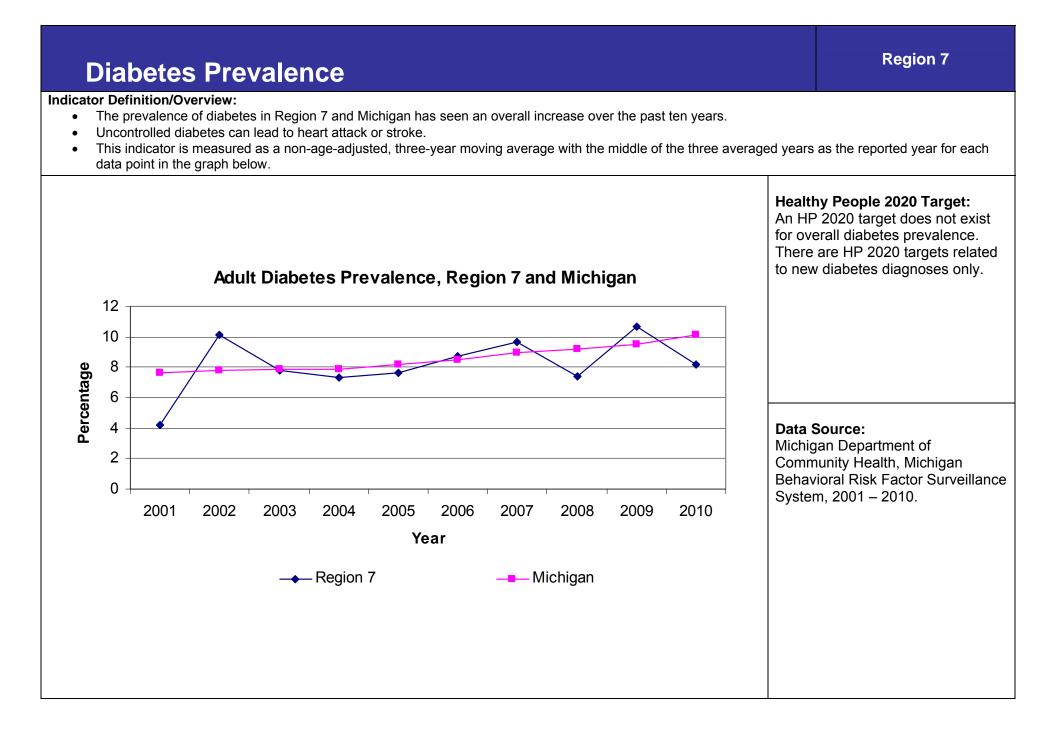
- Cardiovascular disease accounts for over one-third of deaths in the United States, surpassing all other causes of death in terms of mortality rate.
- Stroke is the third leading cause of death for both men and women.
- Heart disease is the leading cause of death for both men and women.



Cardiovascular Disease - Hospitalizations

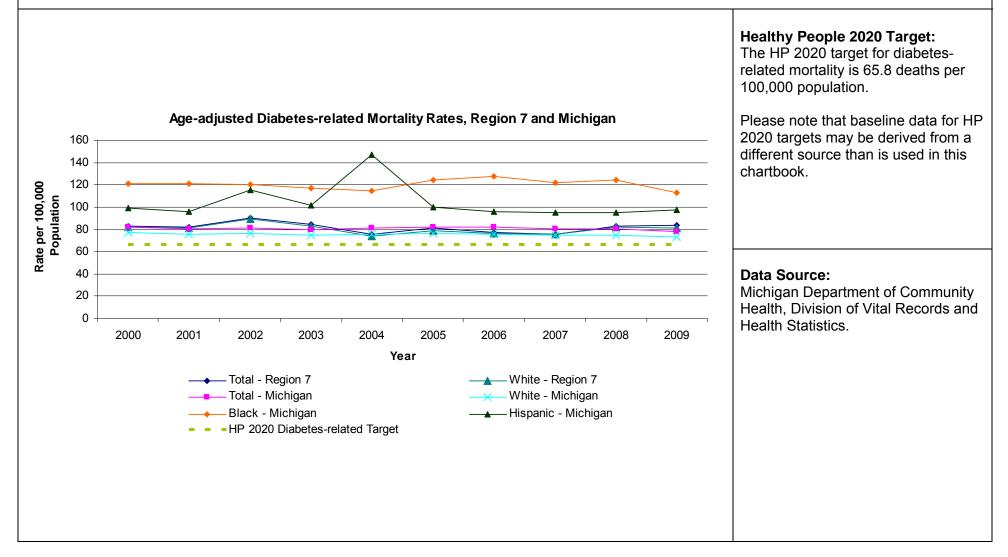
- The cost of cardiovascular disease in the United States was estimated to be more than \$503 billion in 2010, a figure that is expected to increase as the population ages.
- Hospitalization for heart disease is classified under the International Classification of Diseases 9 (ICD-9), codes 391-392, 393-398, 402, 404, 410-416, 420-429. Hospitalization for stroke is classified as codes 430-438.





Diabetes-related Mortality

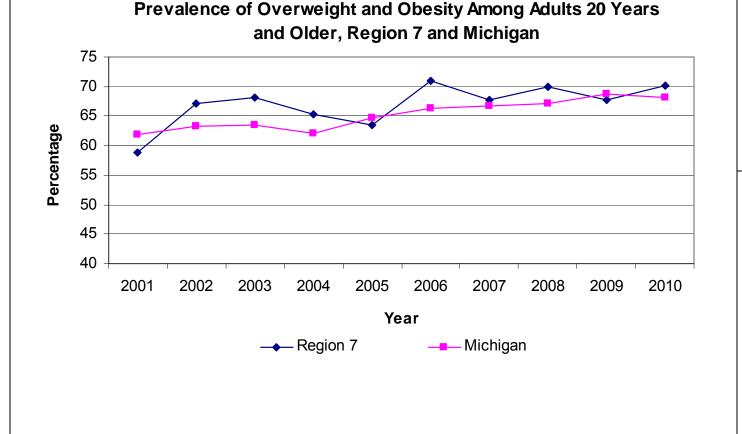
- Diabetes is the seventh leading cause of death in Region 7, and the sixth leading cause of death in Michigan.
- Rates are per 100,000 population.
- Overall, the risk for death among people with diabetes is about double that of people in the same age group who do not have diabetes.



Overweight and Obesity

Indicator Definition/Overview:

- Overweight is defined as having a body mass index between 25.0 and 29.9, and obesity is defined having a body mass index of ≥ 30.
- Obesity is one of today's most pressing public health issues. The rates of obesity have risen dramatically over the past 30 years. Nationwide, obesity prevalence doubled among adults between 1980 and 2004, from 15 percent to 32.2 percent.
- Obesity has been shown to be associated with several poor health outcomes, including: hypertension, osteoarthritis, dyslipidemia, type 2 diabetes, coronary heart disease, stroke, gallbladder disease, sleep apnea and respiratory problems, and some cancers (i.e., endometrial, breast, and colon).



Healthy People 2020 Target:

There is no HP 2020 target for a combined measure of overweight and obesity as displayed in this chart. However, the HP 2020 target for obesity is 30.6 percent of adults aged 20 and older.

Please note that baseline data for HP 2020 targets may be derived from a different source than is used in this chartbook.

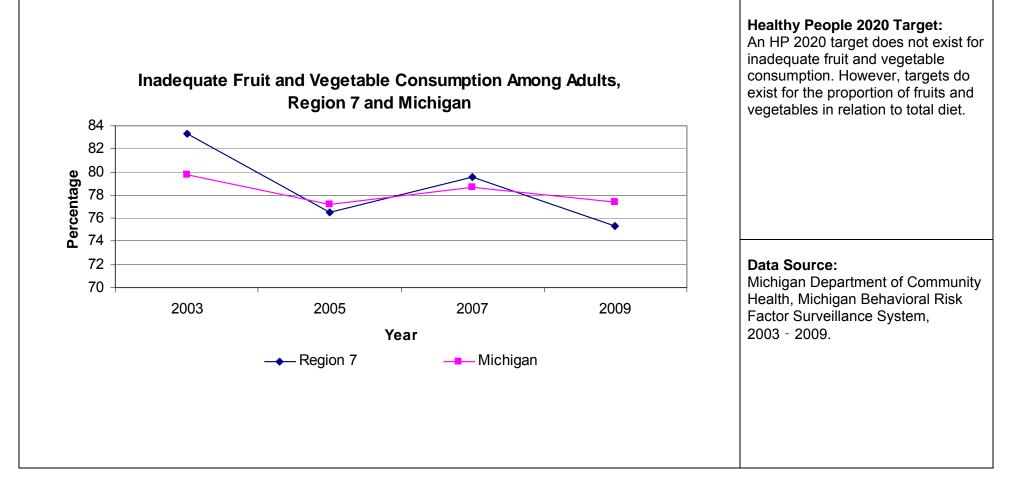
Data Source:

Michigan Department of Community Health, Michigan Behavioral Risk Factor Surveillance System, 2001 - 2010.

Nutrition

Indicator Definition/Overview:

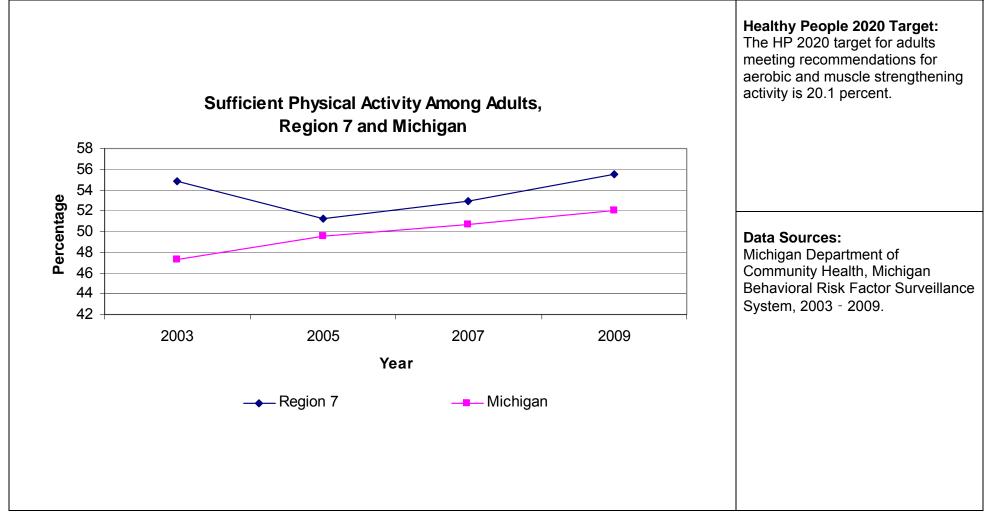
- Dietary factors are associated with cardiovascular disease, stroke, cancer and diabetes, which are estimated to cost society billions of dollars each year in healthcare and lost productivity.
- Good nutrition is especially important in early childhood development.
- State-level monitoring of the nutrition status of Michigan residents includes program analysis, such as the Women, Infants and Children (WIC) Program, and evaluating statewide data from the Michigan Behavioral Risk Factor Survey (MiBRFS) focusing on fruit and vegetable consumption.
- Inadequate fruit and vegetable consumption is defined as consuming fruits and vegetables, on average, fewer than five times per day over the past seven days.



Region 7

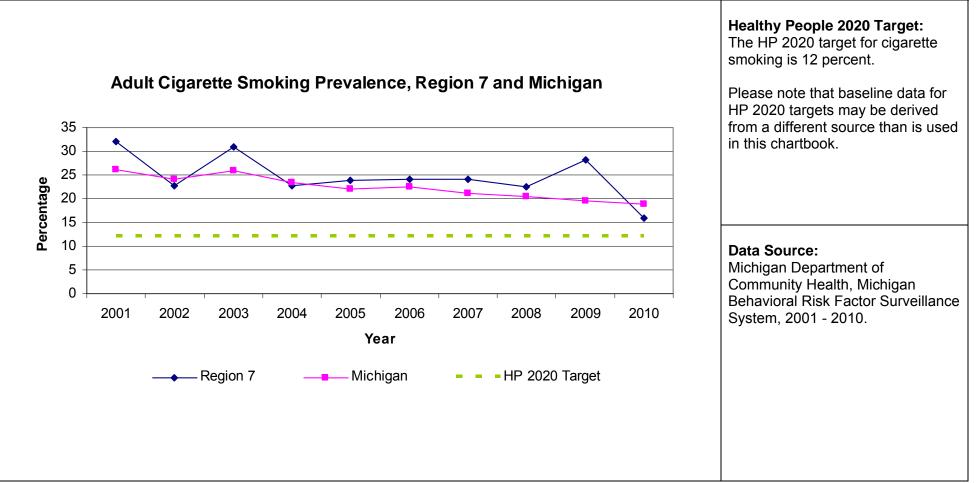
Physical Activity

- Moderate to higher levels of regular physical activity lower mortality rates for both older and younger adults.
- Regular physical activity is associated with decreased risk of developing conditions such as diabetes, colon cancer, and high blood pressure.
- Regular physical activity reduces feelings of depression and anxiety; helps control weight; helps build and maintain healthy bones, muscles, and joints; helps older adults become stronger and better able to move about; and promotes psychological wellbeing.
- This indicator is measured as the percentage of adults not meeting recommendations for physical activity as of the time of survey distribution.



Smoking

- Smoking is a leading cause of death and disability and is an important modifiable risk factor.
- Smoking contributes to the development of many kinds of chronic conditions including cancers, respiratory diseases, and cardiovascular diseases, and remains the leading preventable cause of premature death in the United States. It has been estimated that smoking costs the United States \$193 billion in annual health-related economic losses and 5.1 million years of potential life lost each year.
- Smoking is also associated with cardiovascular disease. Risk of stroke doubles for those who smoke as compared to those who do not.
- The Dr. Ron Davis Smoke-Free Air Law, which went into effect on May 1, 2010, protects all Michigan residents and visitors from exposure to secondhand tobacco smoke in all restaurants, bars, and businesses.

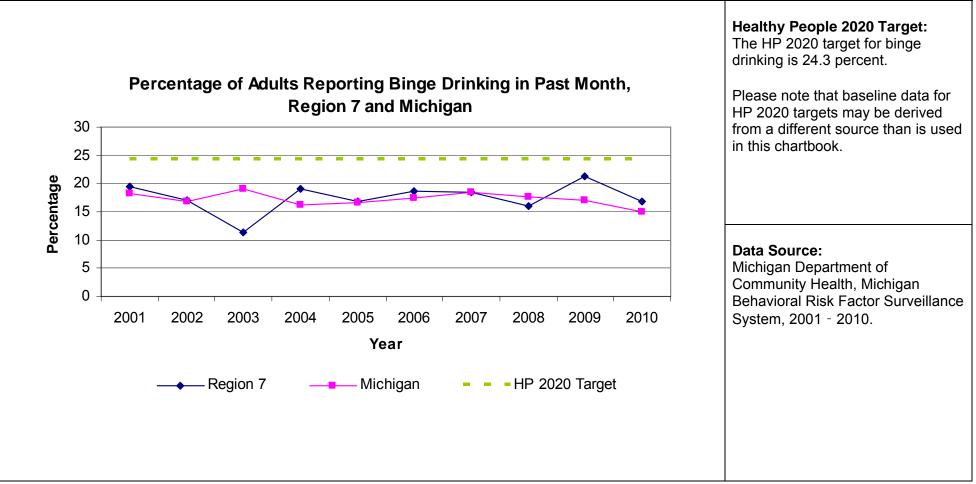


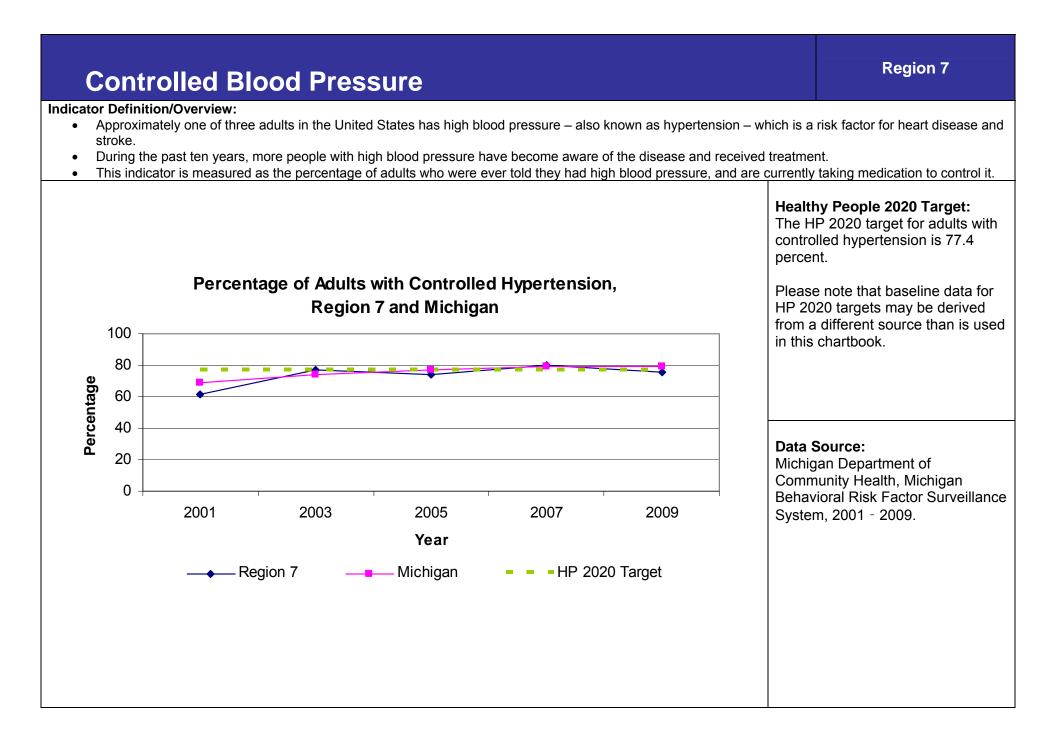
Binge Drinking

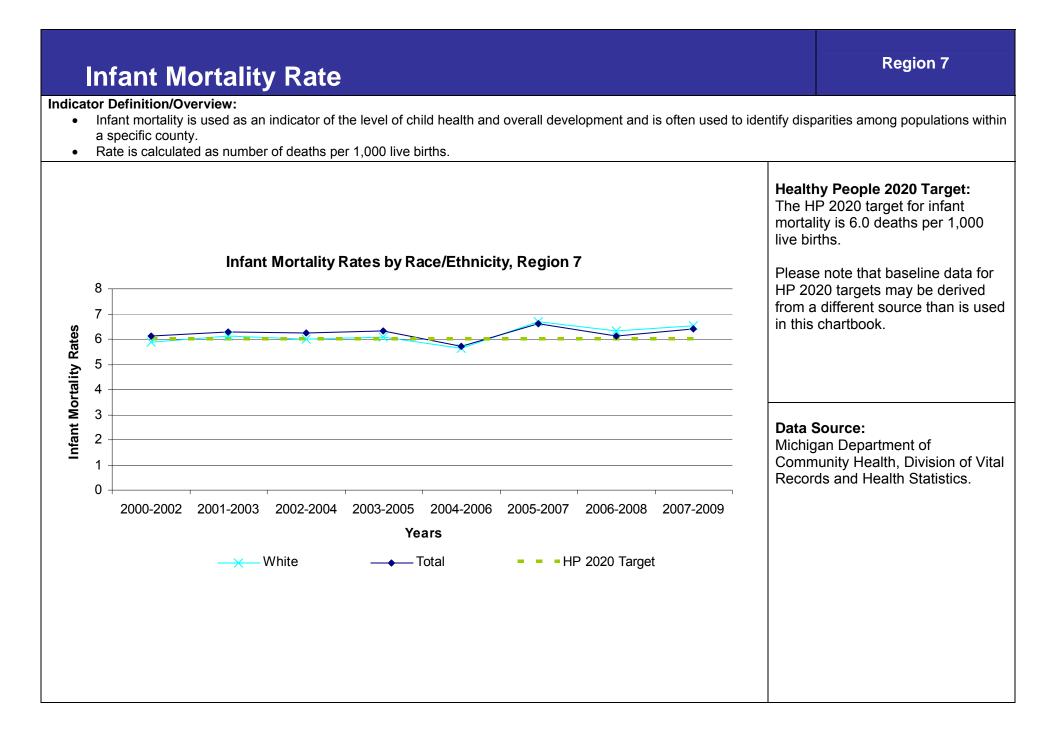
Indicator Definition/Overview:

• Approximately 79,000 people die each year in the United States as a result of excessive alcohol use, making its use the third leading behavior-related cause of death for the nation.

- Excessive alcohol consumption has both immediate consequences: miscarriage, stillbirth, birth defects, unintentional injuries, and violence; and long-term consequences: neurological problems; cardiovascular problems; psychiatric problems; social problems including family problems, lost productivity, and unemployment; cirrhosis; and worsening of liver function for persons with hepatitis C virus.
- Binge drinking is defined as the consumption of five or more drinks per occasion (for men) or four or more drinks per occasion (for women) at least once in the previous month.



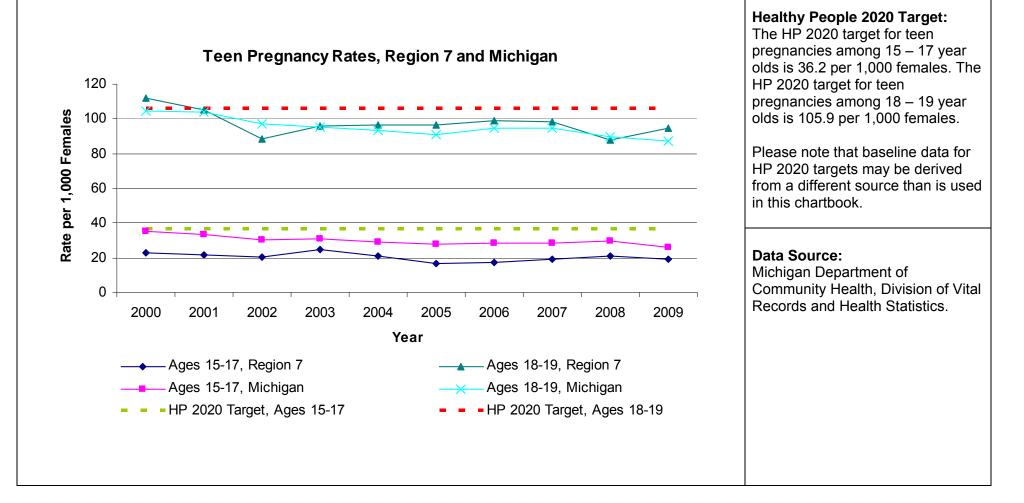




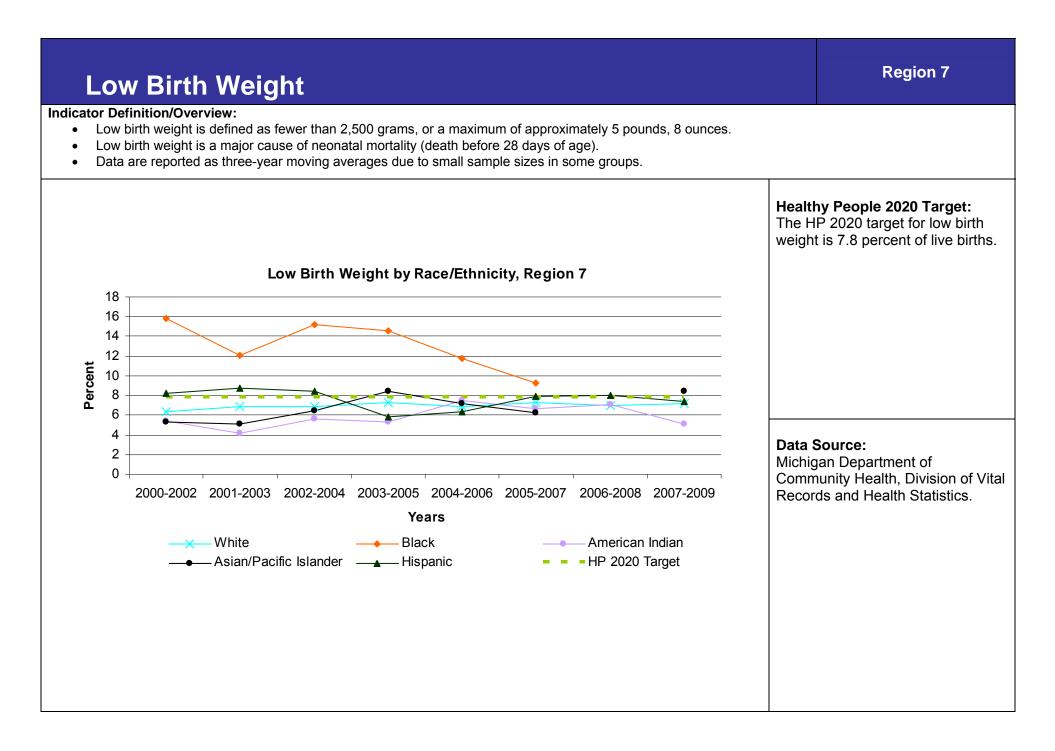
Teen Pregnancy

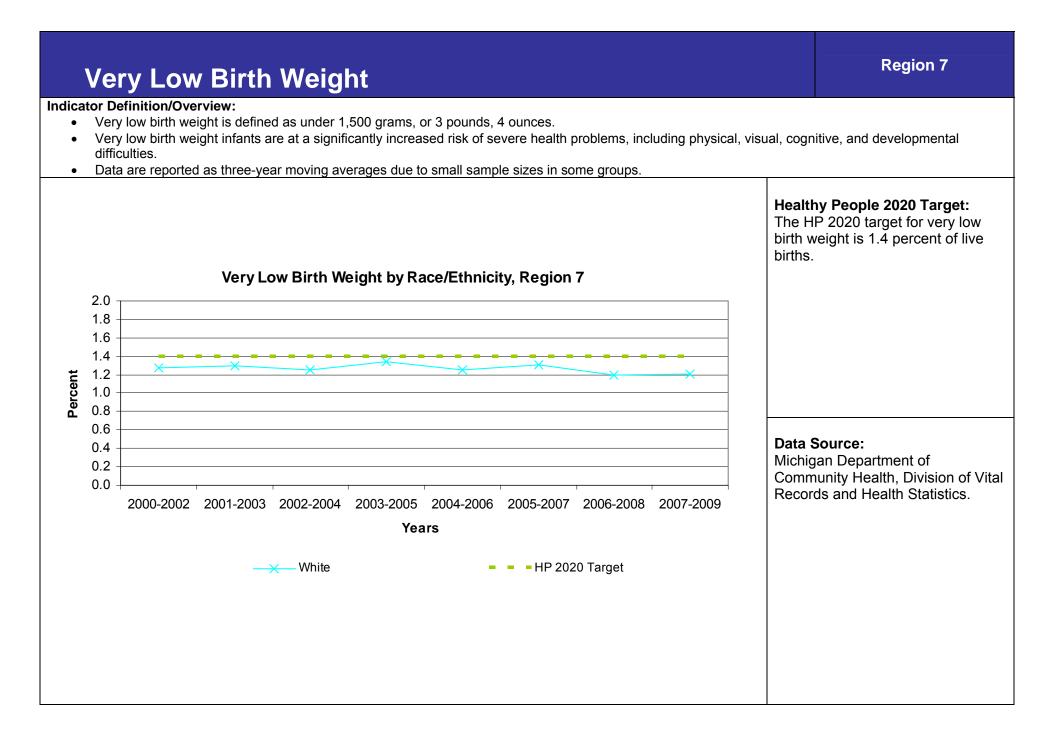
Indicator Definition/Overview:

- Nearly two-thirds of births to women younger than age 18 are the result of unintended pregnancy.
- The children of teenage mothers are less likely to graduate from high school, more likely to suffer health problems, and more likely to encounter problems with the law.
- Only about 50 percent of teenage mothers earn a high school diploma by age 22, in contrast with nearly 90 percent of their peers who had not given birth during their teenage years.
- Teen pregnancy rates include live births, abortions, and estimated number of miscarriages.



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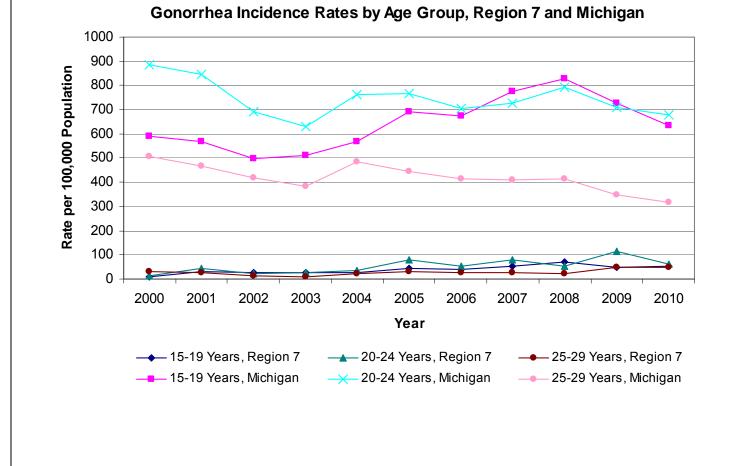


Region 7 Adult Immunizations Indicator Definition/Overview: Rates of severe illness and death from the influenza virus are highest among children less than two years old, people aged 65 years and older and those ٠ with chronic medical conditions. Pneumococcal disease can also result in chronic problems, such as brain damage, hearing loss, limb loss, or death. ٠ This indicator is measured as the percentage of adults, age 65 years and older, who have had a flu vaccine in the past year and a pneumonia vaccine ever, respectively. Healthy People 2020 Target: The HP 2020 target for both pneumococcal and flu vaccines in the adult population ages 65 and Flu and Pneumonia Vaccination Among Adults Aged 65 Years and Older, above is 90 percent. **Region 7 and Michigan** 100 Please note that baseline data for HP 2020 targets may be derived 80 from a different source than is used in this chartbook. Percentage 60 40 20 **Data Source:** Michigan Department of 0 Community Health, Michigan 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 Behavioral Risk Factor Surveillance Year System, 2001 - 2010. — Flu - Region 7 Flu - Michigan - Pneumonia - Region 7 HP 2020 Target Pneumonia - Michigan

Gonorrhea

Indicator Definition/Overview:

- The CDC estimates that less than half of incident gonorrheal infections are reported to them.
- In the United States, sexually active teenagers, young adults, and African Americans report the highest rate of infections.
- Left untreated, gonorrhea increases the chance of having an ectopic pregnancy.



Healthy People 2020 Target:

The HP 2020 target for females is no more than 257 incident cases per 100,000 population aged 15-44 years be reported per year. The HP 2020 target for males is no more than 198 incident cases per 100,000 population aged 15-44 years be reported per year.

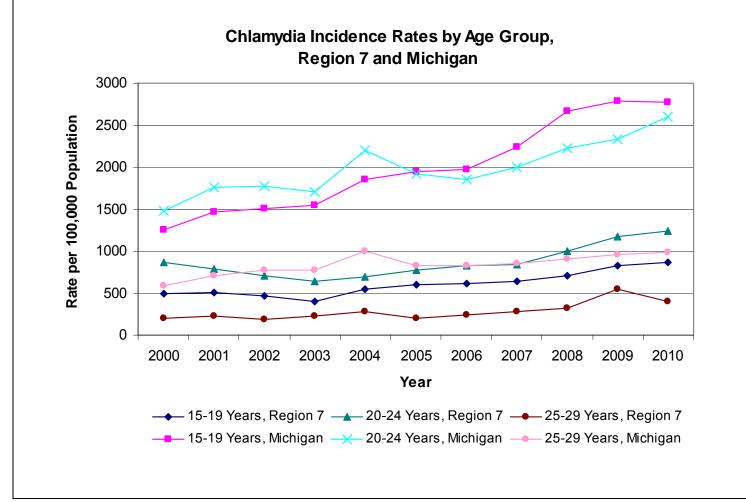
Data Source:

Michigan Department of Community Health, Division of Vital Records and Health Statistics.

Chlamydia

Indicator Definition/Overview:

- Chlamydia is the most commonly reported bacterial sexually transmitted disease in the United States.
- Many people with Chlamydia are not aware of their infection, which means that the true incidence is higher than reported.
- Left untreated, Chlamydia can negatively impact a woman's ability to have children.



Healthy People 2020 Target:

The HP 2020 target for females is no more than 11.5 percent of the population aged 24 years and under who are enrolled in the National Job Training Network in the last 12 months test positive per year. The HP 2020 target for males is no more than 6.3 percent of the population aged 24 years and under who are enrolled in the National Job Training Network in the last 12 months test positive per year.

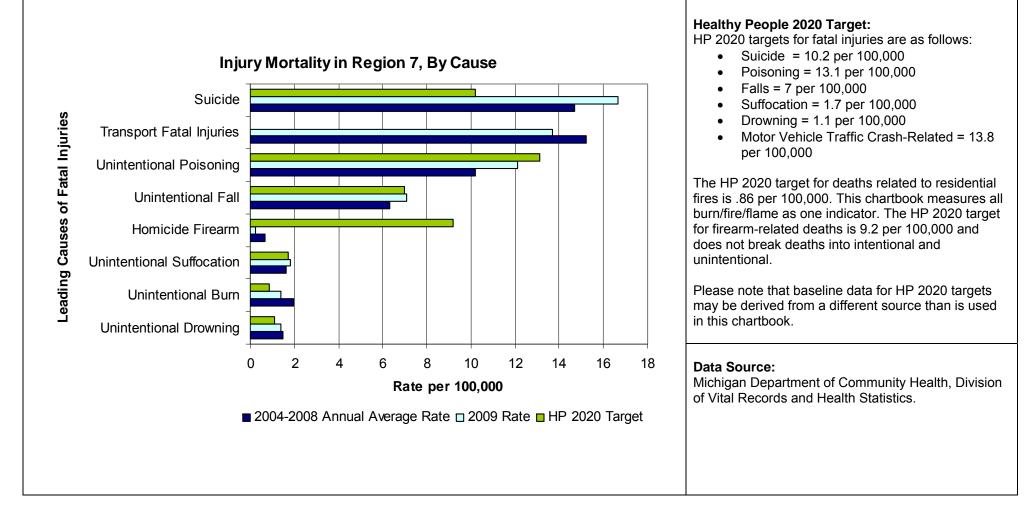
Data Source:

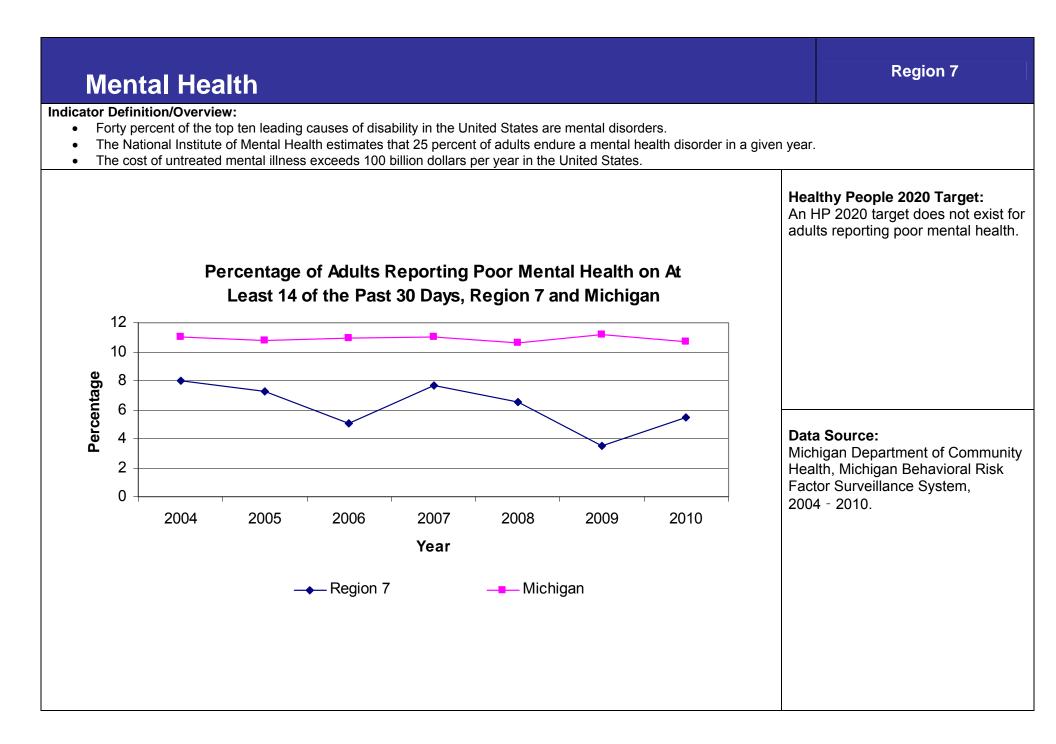
Michigan Department of Community Health, Division of Vital Records and Health Statistics.

Injury Mortality

Indicator Definition/Overview:

- Injuries are a major cause of death and disability.
- Injury death and disability create a large economic burden. The estimated cost of injuries in the United States including medical care and lost productivity was \$406 billion in 2005.
- Like diseases, injuries and violence are preventable they do not occur at random. The same scientific methods used to prevent disease are also successfully applied to prevent injuries and violence.
- Injury mortality is reported in crude rates.





Appendix A: Sources for Indicator Overview/Definition

Workforce - Primary Care	American Academy of Family Physicians, 2011. http://www.aafp.org/online/en/home/policy/policies/p/primarycare.html
	Piggott, Kevin, Ann Batdorf-Barnes, Dana Watt, and Dennis Paradis. "Primary Care Is in Crisis." <i>Michigan Primary Care Consortium.</i> http://www.mipcc.org/sites/mipcc.org/files/u4/crisis_part1_web.pdf
	National Association of Community Health Centers, 2009. http://www.nachc.com/client/documents/pressreleases/PrimaryCareAccessRPT.pdf
Unemployment Rate	U.S. Bureau of Labor Statistics: <u>http://www.bls.gov/bls/unemployment.htm</u>
	LARA: Labor Market Information: <u>http://www.milmi.org/</u>
Access to Care	Institute of Medicine, State of the USA Report, 2009.
Leading Causes of Death	Centers for Disease Control and Prevention, 2011. http://www.cdc.gov/nchs/fastats/lcod.htm
Years of Potential Life Lost	Gardner, J. W., and J. S. Sanborn. "Years of Potential Life Lost (YPLL)what Does It Measure?" <i>Epidemiology</i> 1.4 (1990): 322-29.
Cancer Mortality	Centers for Disease Control and Prevention, 2007. http://www.cdc.gov/nchs/fastats/lcod.htm
	American Cancer Society, Cancer Facts and Figures, 2010. http://www.cancer.org/acs/groups/content/@epidemiologysurveilance/documents/document/acspc-026238.pdf
	National Cancer Institute, 2008. http://www.cancer.gov/cancertopics/factsheet/disparities/cancer-health-disparities
Breast Cancer Screening	National Cancer Institute, 2010. http://www.cancer.gov/cancertopics/factsheet/detection/mammograms
Cervical Cancer Screening	National Cancer Institute, 2010. http://www.cancer.gov/cancertopics/factsheet/detection/Pap-test
Colorectal Cancer	National Cancer Institute, 2008. http://www.cancer.gov/cancertopics/factsheet/detection/colorectal-screening
Screening	Centers for Disease Control and Prevention, 2011. http://www.cdc.gov/cancer/colorectal/statistics/screening_rates.htm

Cardiovascular Disease	Centers for Disease Control and Prevention, 2007. http://www.cdc.gov/nchs/fastats/lcod.htm
Disease	Centers for Disease Control and Prevention, 2010.
	http://www.cdc.gov/chronicdisease/resources/publications/AAG/dhdsp.htm
Diabetes	Centers for Disease Control and Prevention, 2011. http://www.cdc.gov/diabetes/
Overweight and Obesity	Institute of Medicine, State of the USA Report, 2009.
Nutrition	Institute of Medicine, State of the USA Report, 2009.
Physical Activity	Institute of Medicine, State of the USA Report, 2009.
Smoking	Institute of Medicine, State of the USA Report, 2009.
Binge Drinking	Institute of Medicine, State of the USA Report, 2009.
Controlled Blood Pressure	Centers for Disease Control and Prevention, 2011. http://www.cdc.gov/bloodpressure/
Infant Mortality	Institute of Medicine, State of the USA Report, 2009.
Teen Pregnancy	Centers for Disease Control and Prevention, 2011. <u>http://www.cdc.gov/TeenPregnancy/AboutTeenPreg.htm</u>
Low Birth Weight and Very Low Birth	Health Resources and Services Administration, 2009. http://mchb.hrsa.gov/chusa08/hstat/hsi/pages/202lbw.html
Weight	Health Resources and Services Administration, 2009. http://mchb.hrsa.gov/chusa08/hstat/hsi/pages/203vlbw.html
Adult Immunizations	Institute of Medicine, State of the USA Report, 2009.
Gonorrhea	Centers for Disease Control and Prevention, 2011. http://www.cdc.gov/std/Gonorrhea/
Chlamydia	Centers for Disease Control and Prevention, 2011. http://www.cdc.gov/std/chlamydia
Injury Mortality	Institute of Medicine, State of the USA Report, 2009.
	Finkelstein, E.A., Corso, P.S., & Miller, T.R. (2006). <i>Incidence and economic burden of injuries in the United States</i> . New York, NY: Oxford University Press.
Mental Health	National Alliance on Mental Illness, 2011. <u>http://www.nami.org/template.cfm?section=about_mental_illness</u>