Health Profile Chartbook 2015

Mason County



2015 Chartbooks

The 2015 Chartbooks provide a snapshot of the health status of the District Health Department #10 jurisdiction. Information is presented by county and when available, comparisons are made to the jurisdiction, to Michigan, and to Healthy People 2020 Objectives.

Data include population, education, race, births and deaths, incidence of disease, injuries, and immunizations. This year, a Behavioral Risk Factor Survey was conducted in the entire 10 county jurisdiction by an independent research and evaluation firm. This random telephone survey reached between 350 to 622 residents in each county for a total number of respondents of 4,699. A wide range of health behaviors were included:

- Health status indicators, such as perception of general health, satisfaction with life, weight (BMI), and levels of high blood pressure.
- Health risk behaviors, such as smoking, drinking, diet, and physical activity
- Clinical preventative measures, such as routine physical checkups, cancer screenings, oral health, and immunizations
- Chronic conditions, such as diabetes, asthma, and cancer

In addition, DHD#10 is collecting information for the Community Health Improvement Plan. The four main areas of focus in this plan are

- Poverty
- Access to Preventive Care
- Promotion of Healthy Lifestyle and Behavior
- Creation and Maintenance of Healthy Communities

After the data are presented in this Chartbook, the last section will summarize some of the conclusions from the Behavioral Risk Factor Survey and examples of progress completed toward the CHIP goals.

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Demographics

Source: US Census Bureau

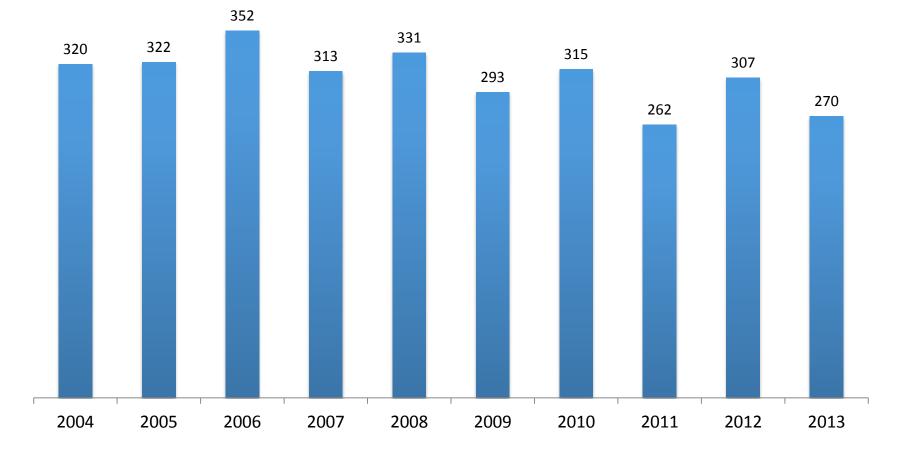
- Population , July, 2014 estimate.
- Age and race, July, 2014.
- Education based on persons over age 25, 2010-2014.
- Female persons, July, 2014
- Persons per household, 2010-2014
- Language other than English spoken at home (age 5+), 2010-2014
- Disability, under age 65, 2010-2014
- Mean travel time to work (minutes), age 16+, 2010-2014
- Per capita income in past 12 months, 2010-2014
- Population per square mile, 2010

Population:	Mason	Michigan	Race and Ethnicity:	Mason	Michigan		Mason	
Total	20.024	0.000.077	-	05 70/	70.00/	Gender: females	50.4%	
population	28,824	9,909,877	White	95.7%	79.9%	Persons per	2.32	
Persons under 5 years	5.3%	5.8%	Black	0.9%	14.2%	household Language other	-	
Persons under 18 years	20.7%	22.4%	American Indian/Alaska	1.1%	0.7%	than English spoken at home	4.5%	
			Native			Disability, under	12.1%	
Persons 65 years and over	21.2%	15.4%	Asian	0.6%	2.9%	age 65		
Education: High school	90.7%	89.3%	More than one	1.7%	2.3%	Mean travel time to work (minutes)	18.4	
graduates			race			Per capita income	\$23,563	
Bachelor's degree or	20.1%	26.4%	Hispanic	4.6%	4.8%	Population per		
higher						square mile	58.0	

Births

Number of births by year

Source: Michigan Department of Health and Human Services

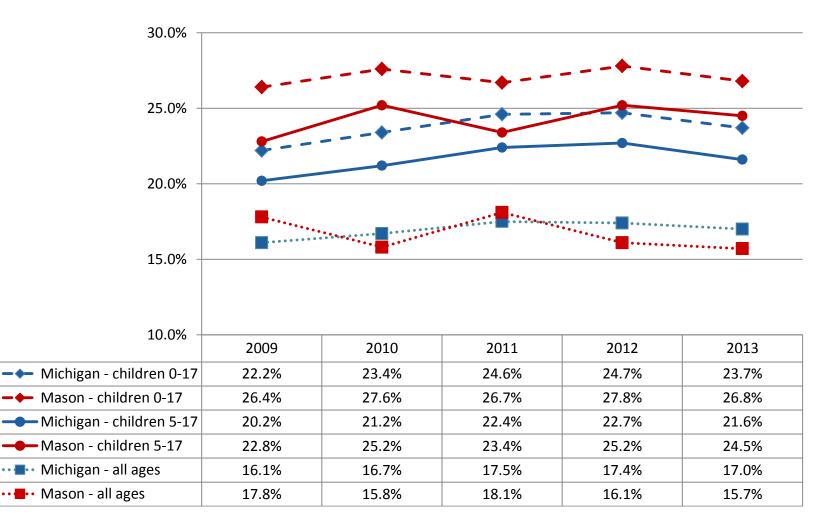


Poverty

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Percent living below the poverty level.

Source: US Census Bureau and Small Area Income and Poverty Estimates (SAIPE) website, provided by Michigan League for Public Policy.



Poverty Indicators

- WIC (Women, Infants, and Children) is determined by the number of children age 0-4 who received benefits in Oceana County. Data reflect the county of service.
- School children eligible for free and reduced price meals is based on family income below 185 percent of poverty.
- Percent of births paid by Medicaid.

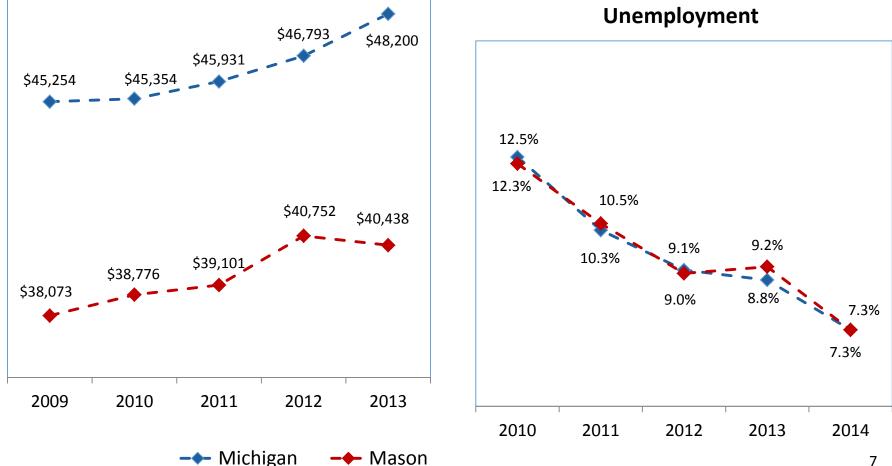
70.0% 60.0% 50.0% 40.0% 2010 2011 2012 2013 2014 --- Michigan - Medicaid paid births 45.3% 45.1% 44.0% 43.9% 42.8% — Mason - Medicaid paid births 54.3% 55.3% 51.1% 47.8% 47.1% — Michigan - Children receiving WIC 52.0% 49.7% 50.5% 51.2% 51.4% 70.3% 65.7% 63.6% 65.9% 64.8% •• •• Michigan - Free/reduced meals 46.5% 48.1% 48.2% 48.6% 46.7% 57.0% 54.7% 53.1% 57.0% 55.6%

Source: Michigan Department of Health and Human Services and the Michigan Department of Education, provided by Michigan League for Public Policy.

Median Income and Unemployment

Unemployment is based on the number of unemployed compared to the number in the labor force.

Source: Michigan League for Public Policy provided income data from the US Census Bureau and Small Area Income and Poverty Estimates (SAIPE) and unemployment data from the Bureau of Labor Statistics.



Median Household Income

Leading Causes of Death

Leading causes of death are rates per 100,000 population.

* too small to calculate

Source: Michigan Department of Health and Human Services, 2013.

Cause of Death	Michigan	DHD#10	Mason County
Heart disease	199.9	202.0	206.6
Cancer	170.7	187.8	194.0
Chronic lower respiratory disease	46.8	54.4	51.0
Accidents	39.8	48.7	*
Stroke	36.3	43.9	*
Alzheimer's	26.5	26.3	*
Diabetes	23.7	24.6	*
Pneumonia/Influenza	15.7	15.8	*
Kidney disease	13.9	13.1	*
Suicide	12.9	16.8	*

Years of Potential Life Lost

- The number of years of potential life lost are rates calculated as the number of years between the age at death and 75 years of age for persons dying before their 75th year.
- Rates are per 100,000 population under 75 years of age.

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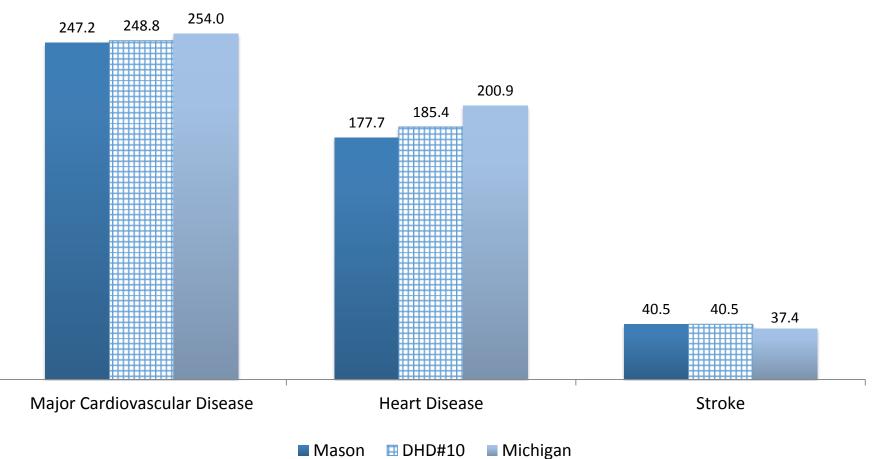
Source: Michigan Department of Health and Human Services, 2014.

Cause of Death	Michigan	DHD#10	Mason County
Cancer	1,691.0	1,997.3	1,562.8
Heart disease	1,306.2	1,323.0	972.0
Accidents	1,072.2	1,246.7	*
Suicide	425.5	440.3	*
Perinatal	303.8	*	0
Homicide	256.1	*	*
Lower respiratory	234.2	324.9	343.1
Diabetes	203.6	189.5	*
Liver disease	196.3	189.5	*
Cerebrovascular	168.7	172.9	228.7

Cardiovascular Disease Mortality

Age adjusted rate per 100,000

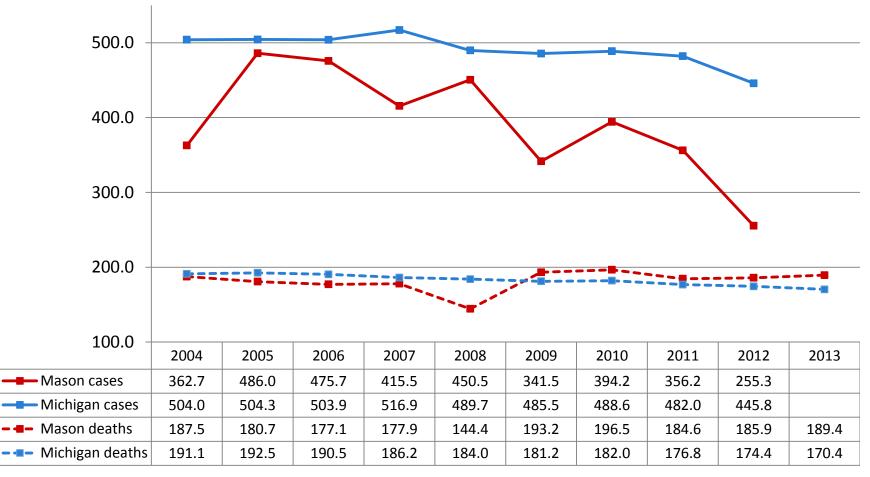
Source: Michigan Department of Health and Human Services, 2011-2013.



Cancer Incidence and Mortality

Age adjusted rates per 100,000 population

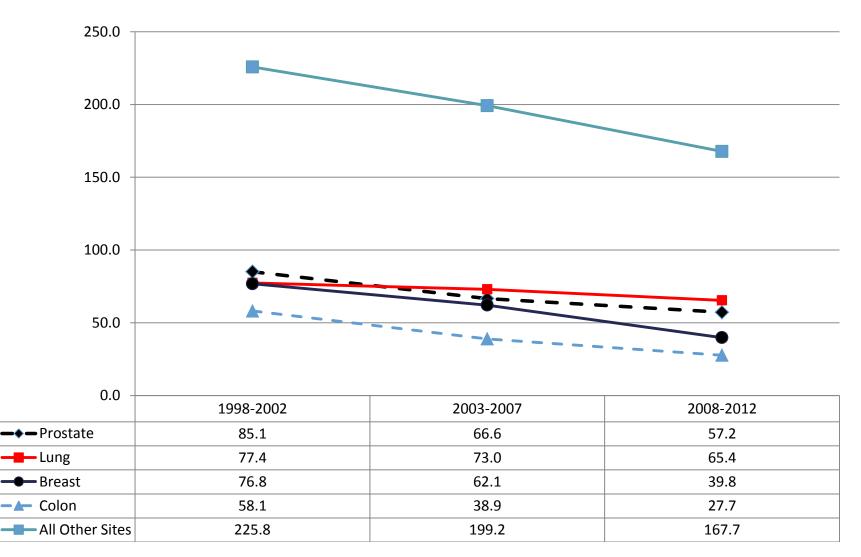
Source: Michigan Department of Health and Human Services



Cancer Incidence Trends

Age adjusted rate per 100,000

Source: Michigan Department of Health and Human Services



Fatal Injuries

The Healthy People 2020 targets for fatal injuries per 100,000 are as follows:Suicide: 10.2Poisoning: 13.1Falls: 7.0Drowning: 1.1Burn/fire/flame: 0.86Firearm related: 9.8Motor vehicle traffic crash related: 12.4Firearm related: 9.8

Source: Michigan Resident Death files, Data Development Section, Michigan Department of Health and Human Services.

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Fatal Injuries and Rates		Number of f	atal injuries	Rates per 100,000 population	
		Annual average 2008-2012	2013	Annual average 2008-2012	2013
	Unintentional (transport)	5.0	6	*	21.0
	Unintentional (other)	7.4	10	25.8	35.0
Mason	Self-inflicted/suicide	6.6	6	23.0	21.0
	Assault/homicide	0.6	1	*	*
	Other	0.6	0	*	*
	Unintentional (transport)	1,071.2	1,093	10.8	11.0
	Unintentional (other)	2,626.6	3,036	26.5	30.7
Michigan	Self-inflicted/suicide	1,214.6	1,296	12.2	13.1
	Assault/homicide	661.0	634	6.7	6.4
	Other	458.0	426	4.6	4.3

Sexually Transmitted Diseases: Gonorrhea and Chlamydia

- Gonorrhea: The Healthy People 2020 target for females is no more than 257 incident cases and males no more than 198 incident cases per 100,000 population aged 15-44 years be reported per year.
- Chlamydia: The Healthy People 2020 target for females aged 15-24 attending family planning clinics with the past 12 months and testing positive for chlamydia will be less than 6.7%.

Source: Michigan Sexually Transmitted Disease Section, Michigan Department of Health and Human Services.

*too small to calculate

Gonorrhea							
	Number of Cases Rate per 100,000						
	2004-2008 average 2009-2013 average 2014			2004-2008	2009-2013	2014	
Mason	8.0	3.2	5	*	*	*	
DHD#10	51.8	28.0	33	10.6	10.7	*	
Michigan	17,376.6	13,170.2	9,666	131.5	133.2	97.5	

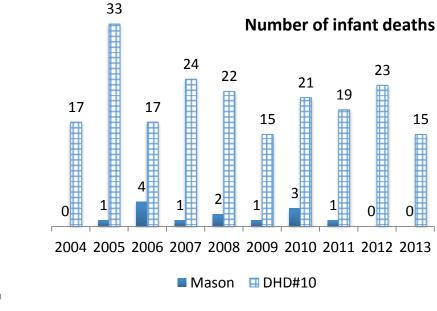
Chlamydia							
Number of Cases Rate per 100,000)	
	2004-2008 average 2009-2013 average 2014			2004-2008	2009-2013	2014	
Mason	34.8	43.0	54	149.5	150.0	187.3	
DHD#10	422.4	533.4	674	201.7	204.1	258.3	
Michigan	41,192.8	48,515.0	44,843	484.3	490.7	452.5	

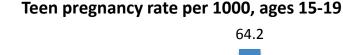
Birth Related Trends

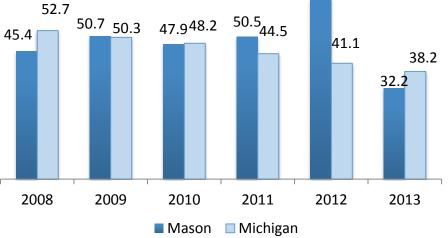
27.0% 25.0% 24.1% 25.6% 21.6% 18.0% 19.0% 20.2% 21.6% 2010 2011 2012 2013 Mason Michigan

Smoked during pregnancy

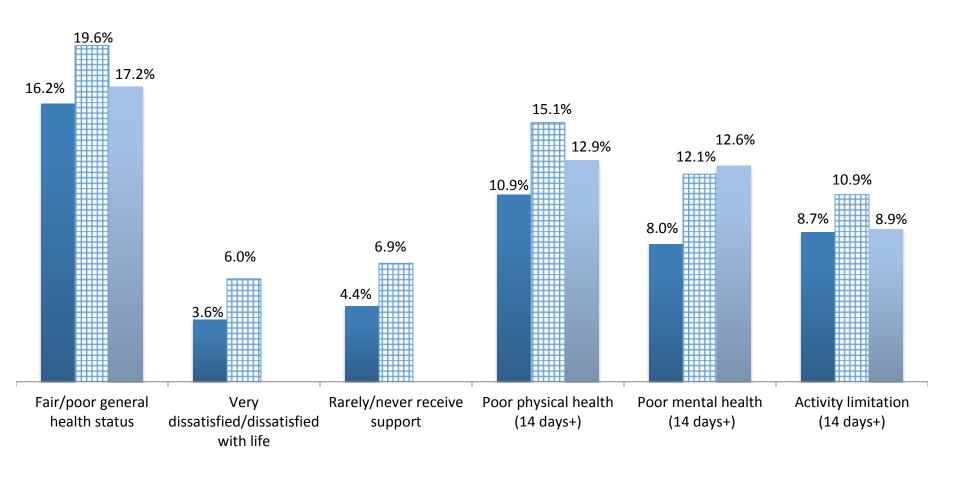
- Smoked while pregnant were those who had a history of smoking, but never quit, plus those who quit at some point between estimated conception and birth date. Three year averages. Healthy People 2020 goal is 1.4%. Source: Michigan Department of Health and Human Services data provided by Michigan League for Public Policy
- Teen pregnancy rates are per 1,000 females ages 15-19 and include live births, abortions, and estimated miscarriages. Healthy People 2020 target for teen pregnancies among 15-17 year olds is 36.2 per 1,000 females; target among 18-19 year olds is 105.9. Source: Michigan Department of Health and Human Services.
- Infant deaths are those occurring to those under one year of age. Source: Michigan Department of Health and Human Services.







Health Status

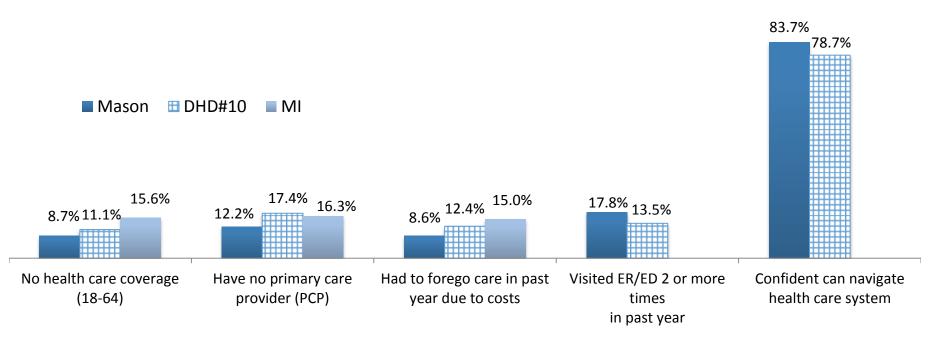




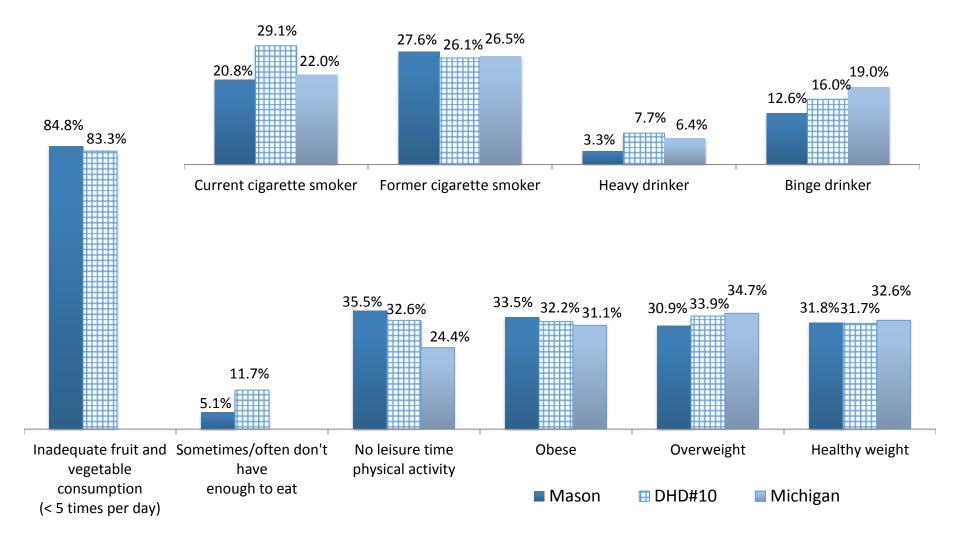


Number of	fpeopl	e per health	n care provider

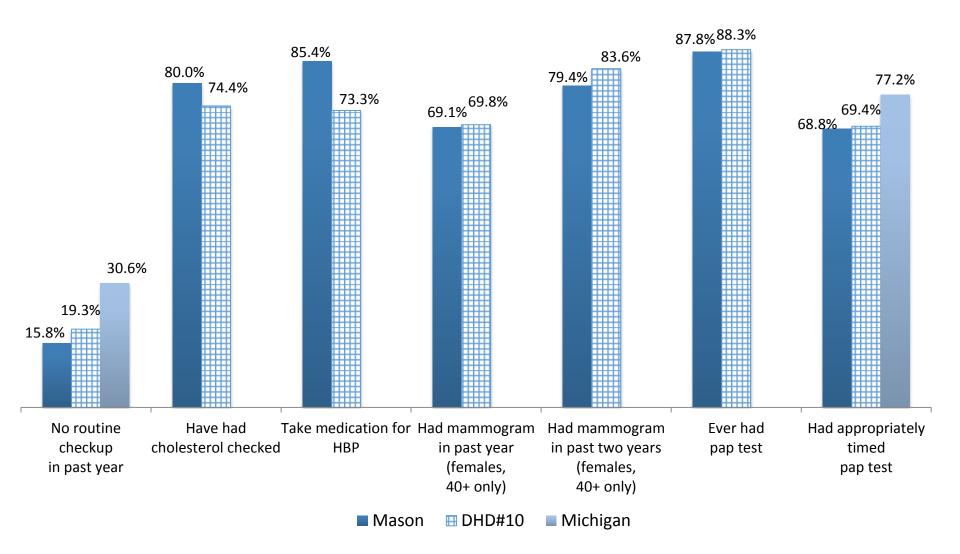
	Mason	Michigan			
Primary care physicians	1,434:1	1,246:1			
Dentists	1,907:1	1,485:1			
Mental health providers	349:1	487:1			
Mental health providers include psychiatrists, clinical psychologists, clinical social workers, psychiatric nurse specialists, and marriage and family therapists who meet certain qualifications and certifications. Source: County Health Rankings, 2015.					



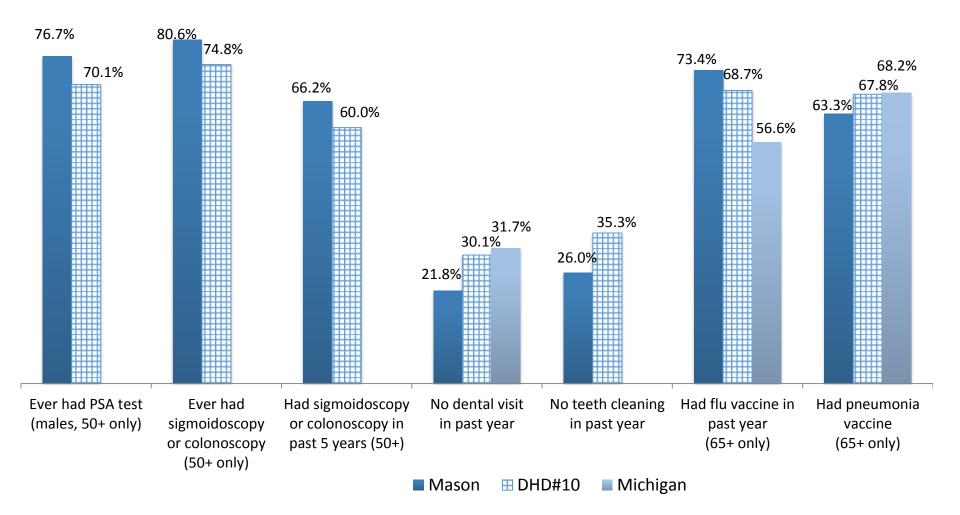
Risk Behaviors



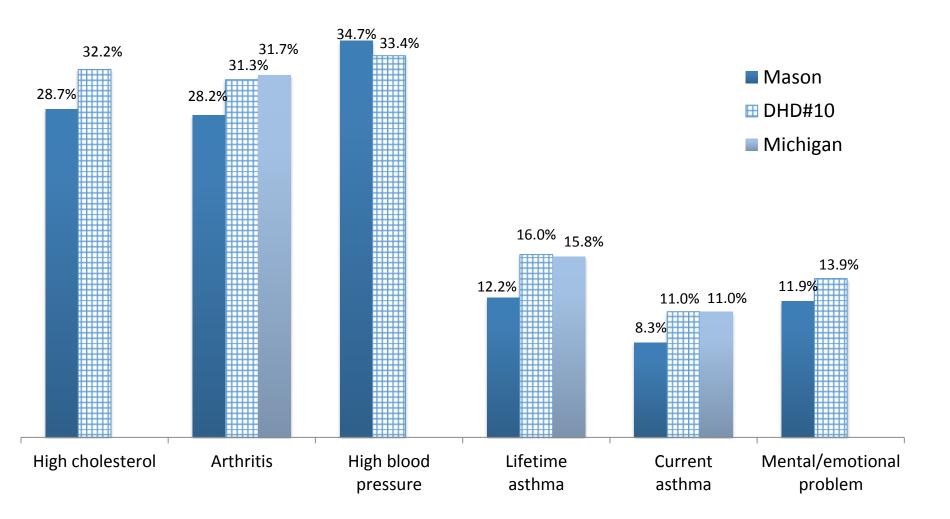
Clinical Preventive Practices



Clinical Preventive Practices, continued

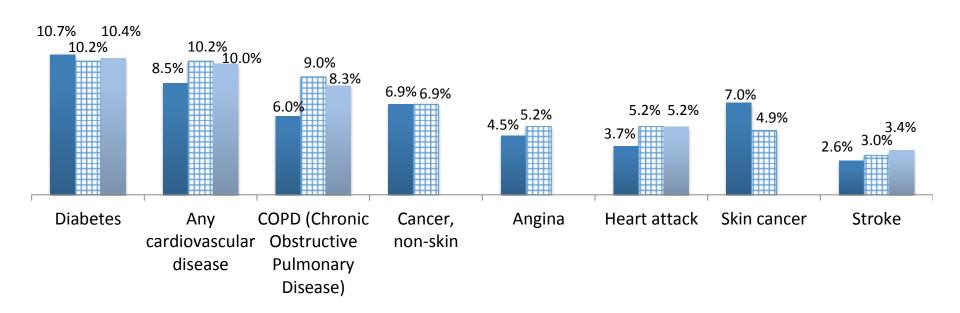


Chronic Conditions



Chronic Conditions, continued

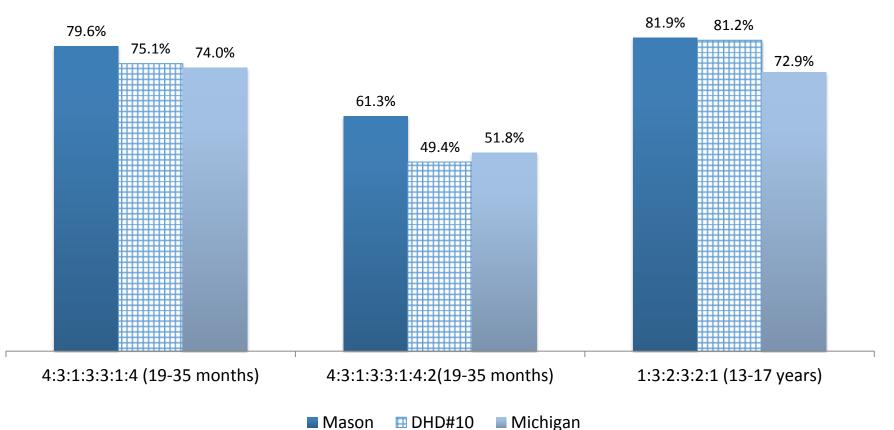




Childhood Immunizations

- 4:3:1:3:3:1:4 includes 4 doses of DTaP, 3 polio, 1 MMR, 3Hib, 3 Hepatitis B, 1 varicella, and 4 PCV7/13. This is the percent of 19-35 month old children who have received these immunizations.
- 4:3:1:3:3:1:4:2 includes the above vaccines with the addition of 2 doses of Hepatitis A. This is the percent of 19-35 month old children who have received these immunizations.
- 1:3:2:3:2:1 includes 1 Tdap, 3 IPV, 2 MMR, 3 HepB, 2 Varicella, and 1 Meningococcal. This is the percent of 13-17 year olds who have received these immunizations.

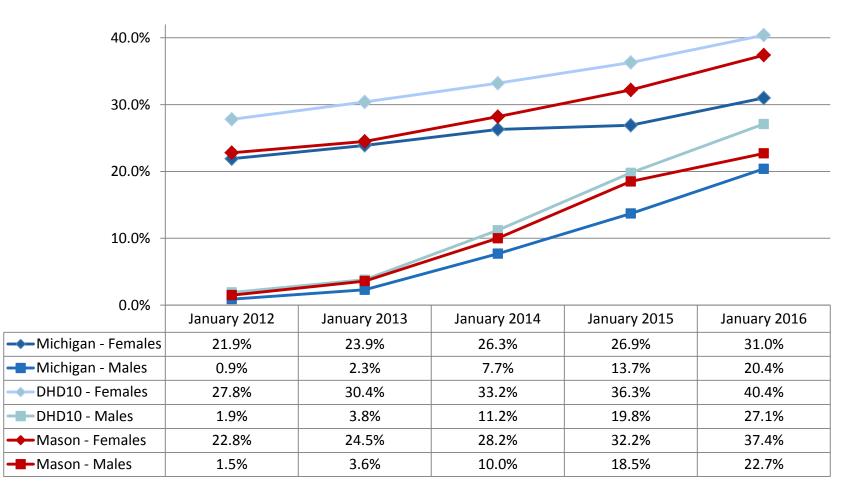
Source: MCIR (Michigan Care Improvement Registry) data, December 31, 2015.



HPV Compliance Rates

Percentages are based upon those males and females, ages 13-17, who have received the HPV series.

Source: MCIR (Michigan Care Improvement Registry).



County Health Rankings

"County Health Rankings, a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute, measure the health of nearly all counties in the nation and rank them within states."

www.countyhealthrankings.org

Overall Ranking	Influencing Factors	Components	Ranking (out of 82 counties)			
	Health Outcomes					
Represents how health a county is, using factors of	Length of Life	Premature death	63			
how long people live and how healthy they feel while they are alive (quality of life)	Quality of Life	Poor or fair health; poor physical health days; poor mental health days; low birth weight	66			
	Health F	actors	27			
	Health Behaviors	Smoking; obesity; food environment; physical activity; excessive drinking; alcohol impaired driving deaths; sexually transmitted infections; teen births	37			
Represents what	Clinical Care	Uninsured; ratios of physicians, dentists and mental health providers to population; preventable hospital stays; diabetic monitoring; mammography screening	19			
influences the health of a county	Social and Economic Factors	Education; unemployment; poverty; children in single-parent households; social associations; violent crime; injury deaths	38			
	Physical Environment	Air pollution; drinking water violations; severe housing problems; driving alone to work and long commute	22			

Conclusions: BRFS

Behavioral Risk Factor Survey Findings

The district-wide BRFS findings show both strengths and opportunities for improvement in the health status of our communities

Strengths

- Most enjoy good to excellent general health, physical health, and mental health
- Adequate social and emotional support
- Large majority have health care coverage and a primary care provider (PCP)
- Most have had no problems receiving needed medical care
- Binge drinking lower than Michigan and US
- Most buy fresh fruits/vegetables locally and feel fresh produce is readily available in their community
- Strong majority have routine physical checkups and health screening/tests, such as mammograms
- Vast majority receiving information on how to manage diabetes, heart attack, angina/CHD, COPD
- Majority of adults aged 65+ immunized against pneumonia and flu

Opportunities for Improvement

- DHD#10 area lags behind Michigan and/or US on most indicators measured
- One in five with fair to poor general health
- Physical health and activity limitation worse than MI
- Nearly one in three obese; one in three overweight but not obese
- Nearly three in ten are current smokers
- Prevalence of heavy drinking higher than MI/US
- Nearly one-third not engaging in leisure time physical activity
- Inadequate fruit/vegetable consumption
- Three in ten have not visited the dentist in past year
- One in three have hypertension
- One in ten have diabetes; one in five over age 55 have diabetes
- Higher prevalence than MI and/or US on chronic conditions such as asthma, heart attacks, heart disease, and cancer
- Nearly one-third have high cholesterol

Conclusions: CHIP

Community Health Improvement Plan (CHIP) Successes

Significant progress has been made in 2015 toward our Community Health Improvement Plan goals. The information provided in the Chartbooks is essential in identifying areas of need in our communities as well as providing baseline measurements to determine if goals have been reached. The following are examples of the progress achieved in each of the four areas:

Poverty

• Number of residents with health insurance has increased from 80% in 2012 to 91% in 2015.

Access to Preventive Care

- Adolescent health centers were opened in Grayling and Shelby schools.
- STD clinics have been established in all ten counties.
- HPV immunization rates for females age 13-17 have increased from 27.8% in 2012 to 37.2% in 2015 and rates for males increased from 1.9% to 21.4%.

Promotion of Healthy Lifestyle and Behavior

- Rates of obesity and overweight decreased from 70.2% in 2012 to 68.9% in 2015.
- Three communities hosted Call to Action Summits on overweight and obesity; Enhancements to trails and parks were completed in Lake County; no leisure time physical activity decreased from 26.1% to 25%.
- Walking challenges, worksite programs, and health eating policies were provided throughout the ten county area.

Creation and Maintenance of Healthy Communities

- Cadillac City Council passed a Tobacco-free Outdoor Recreation Area Resolution for city parks, walking and bike trails, playgrounds, fishing piers, athletic fields, and skate park.
- A food policy council was established in Lake County.
- Local community health coalitions have now been established in all ten counties and the Regional Northwest Michigan Chronic Disease Prevention Coalition has been re-established to address high rates of chronic diseases across the jurisdiction.