## Five County Cardiovascular Disease Study

Heart Disease and Stroke Prevention Unit May 2011

### **Consent to Participate**

Your participation in this Town Hall discussion is totally voluntary. You can stop participating at any time and decide not to answer any questions. Your continued participation in the meeting will be considered your consent. We will be audio taping the meeting as well as taking notes.

## Topics

**Overview of Issue** Background **Demographics** Hospitalization/Mortality Data **County Health Rankings** Cardiovascular Disease (CVD) Risk Factors **Community Resources MDCH Program Initiatives Questions and Discussion** 

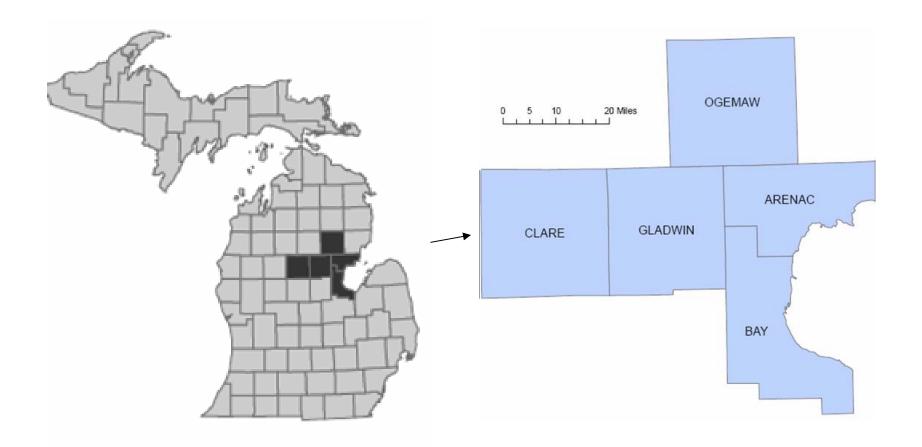
### **Overview of Issue**

In 2008 MDCH staff noted a contiguous five county area with high hospitalization rates for CVD, Heart Disease, Coronary Heart Disease, and Heart Failure.

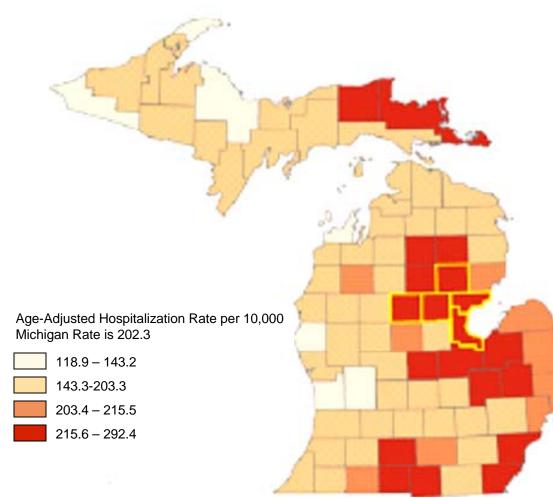
Repeated analysis and further exploration of CVD risk factors, demographics and socioeconomic factors supported this was a higher risk area.

CVD if often referred to as heart disease and stroke. Heart disease includes heart attack and other types of heart disease.

# **Five Counties:** Arenac, Bay, Clare, Gladwin, and Ogemaw



### Initial Cardiovascular Disease (CVD) Hospitalization Map, 2002-2006



Similar high rates were also seen in:

- heart disease
- heart failure
- coronary heart

disease

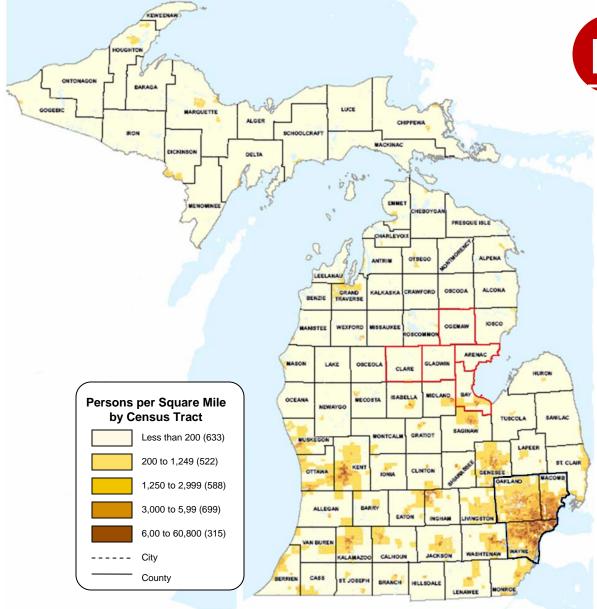
## **Study Purpose**

Explore additional health related and disease specific data to determine if geographical disparities persist among the five county cluster Explore possible explanations and

solutions with community members

### **Study Team**

Velma Theisen, Manager HDSP Unit Adrienne Nickles, HDSP Epidemiologist Henry Miller, HDSP Evaluator, GIS Christi Demitz, HDSP Pub. Hlth. Consultant Stephanie Thompson, MPHI CDMTR Mary Thompson, MPHI CDMTR

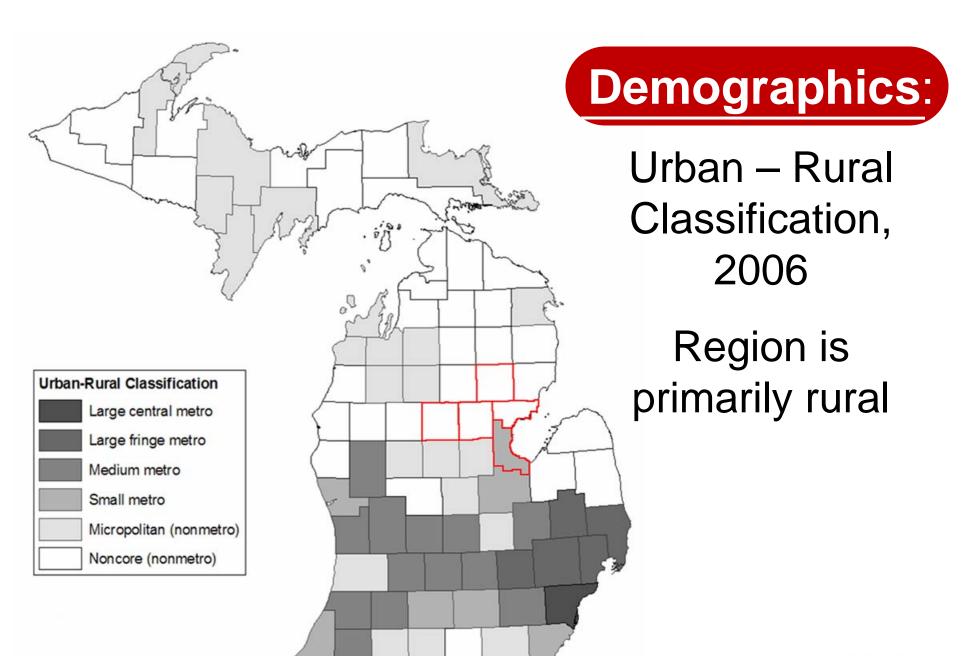


**Demographics:** 

Population density from 2010 Census

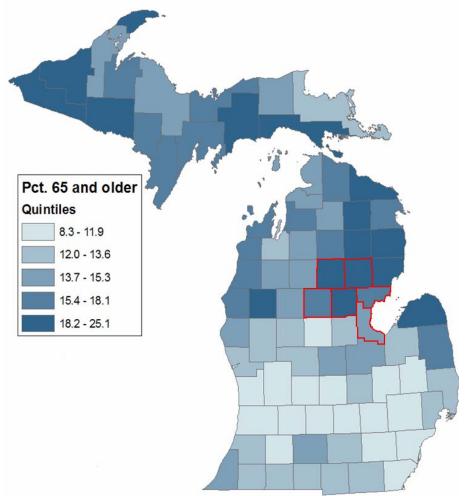
Region is largely low density





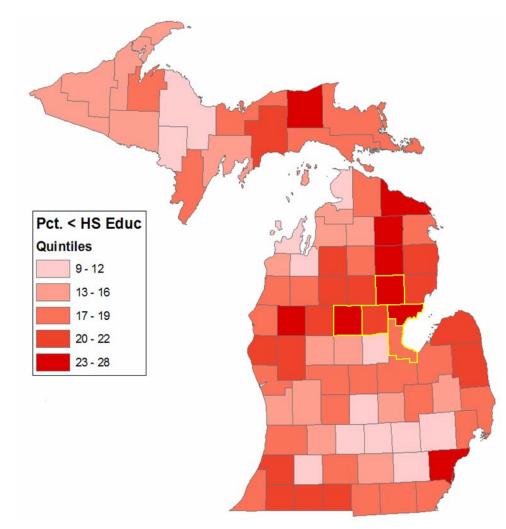


# **Demographics**: Population Age 65 and Older, 2002



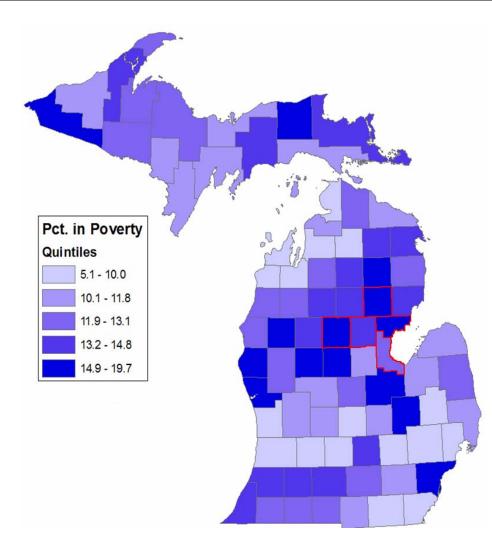
Region has a high population of senior citizens

#### **Demographics**: Percent Age 25+ with Less Than a High School Education



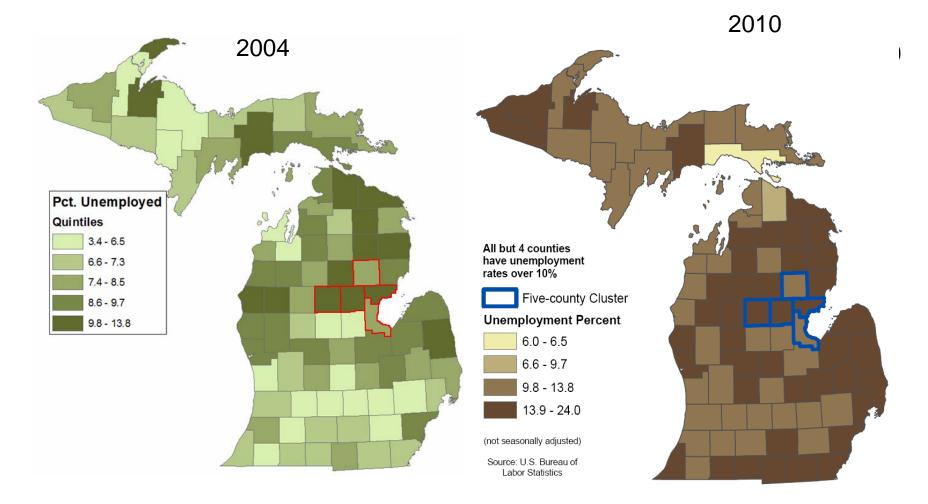
Region has higher percent population with less than a high school education

# **Demographics**: Percent Living in Poverty, 2004

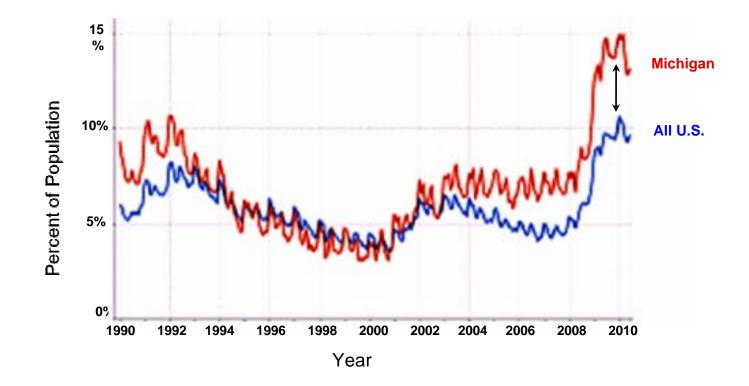


Region has higher rates of poverty

# **Demographics**: Percent Unemployed 2004 and 2010

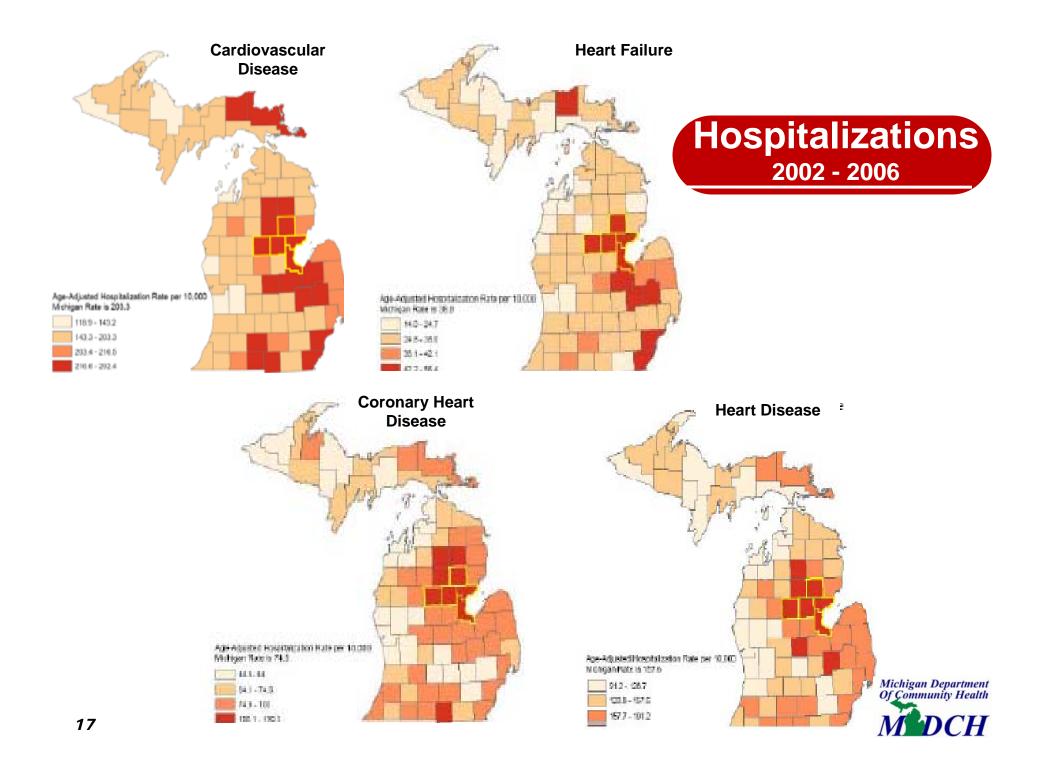


#### **Demographics**: Unemployment in Michigan Compared to United States

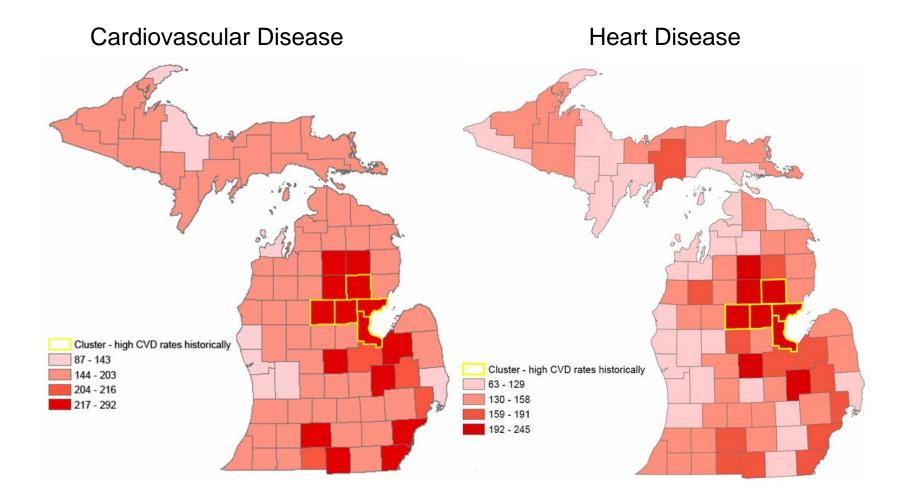


#### **Demographics**: Economic Indicators

County	Population (est. 2009) U.S. Census	Family Independen ce Program % pop.	Food Assistance Program % pop.	Medicaid % pop.	Jobless Rate (2010) DLEG	
Michigan	9,969,727	2%	20%	19%	11.3	
Arenac	16,092	1%	22%	23%	17.1	
Bay	107,434	2%	19%	19%	12.3	
Clare	30,104	2%	29%	28%	16.6	
Gladwin	25,724	2%	22%	23%	17.0	
Ogemaw	21,234	2%	27%	27%	13.8	

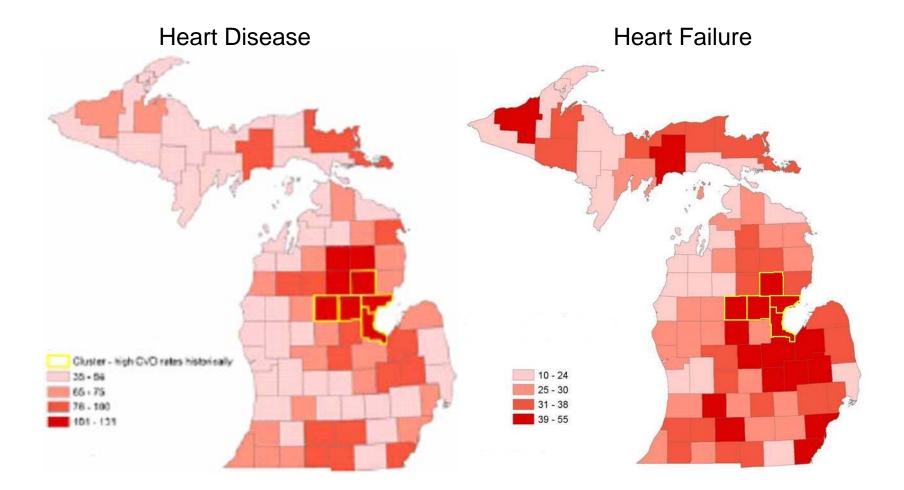


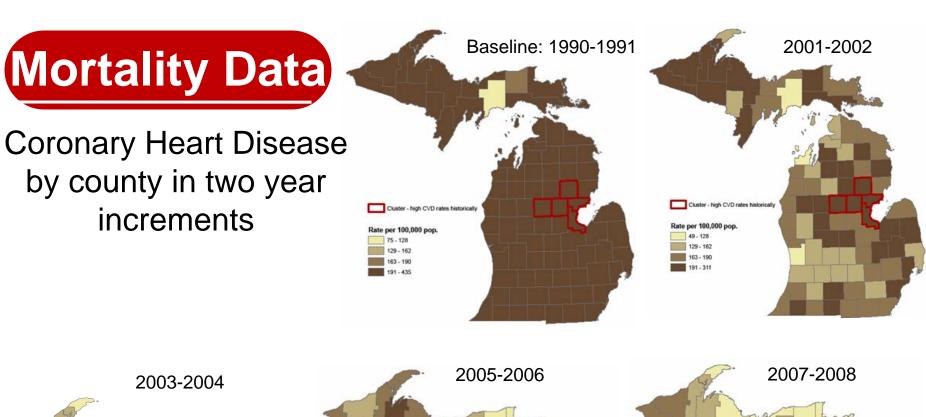
### Hospitalization Data, 2004-2008

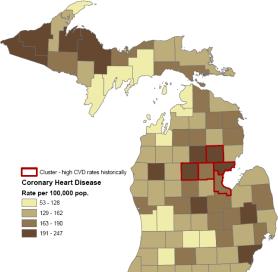


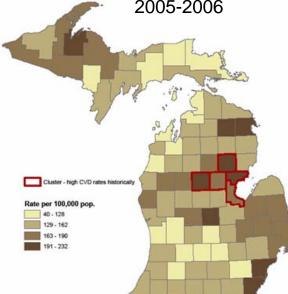
State Average: 196.7 (per 10,000) Arenac: 291.5, Bay: 257.7, Clare: 256.1, Gladwin: 236.1, Ogemaw: 257.3

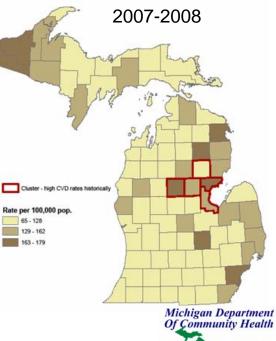
### Hospitalization Data, 2004-2008





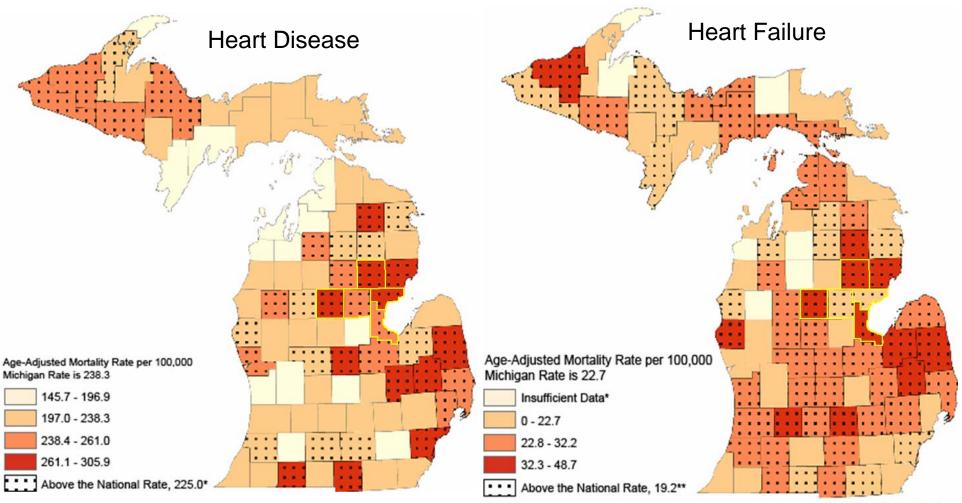






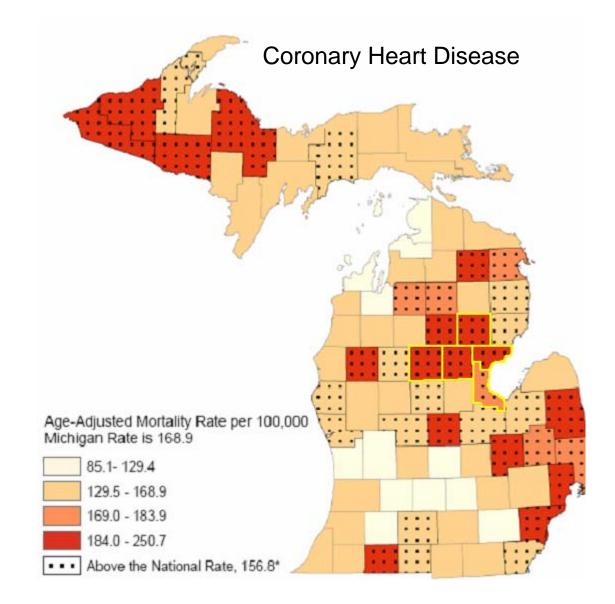


# **Mortality Data:** Michigan Compared to National Rates, 2002-2006



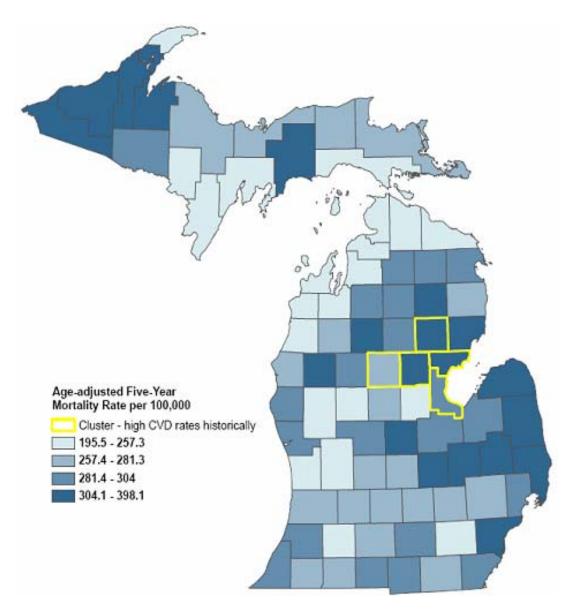
Michigan Department Of Community Health

# **Mortality Data:** Michigan Compared to National Rates, 2002-2006



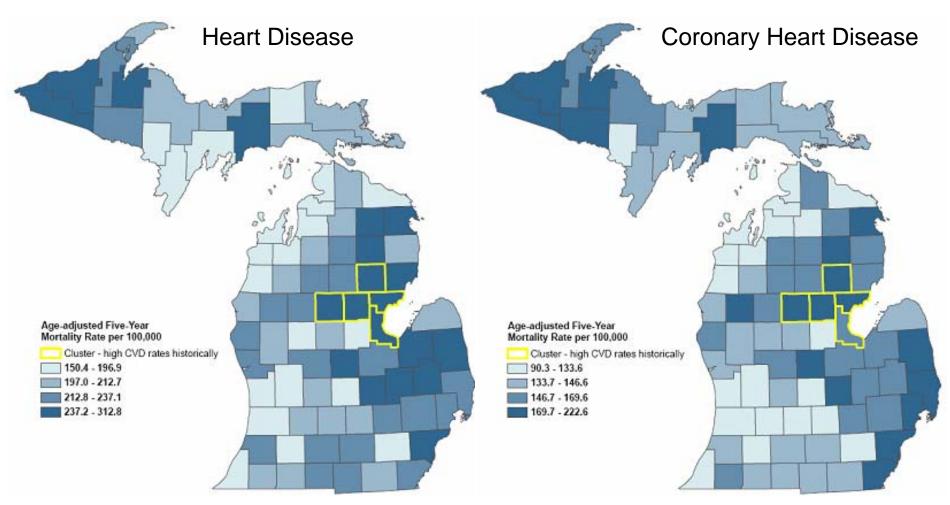
Michigan Department Of Community Health

# **Mortality Data:** Cardiovascular Disease, 2004-2008



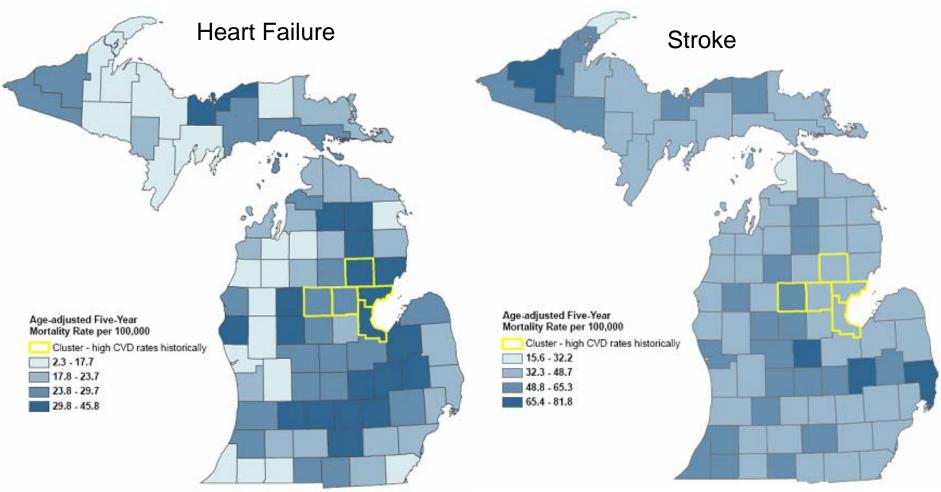
Michigan Department Of Community Health

# **Mortality Data:** Heart Disease and Coronary Heart Disease, 2004-2008



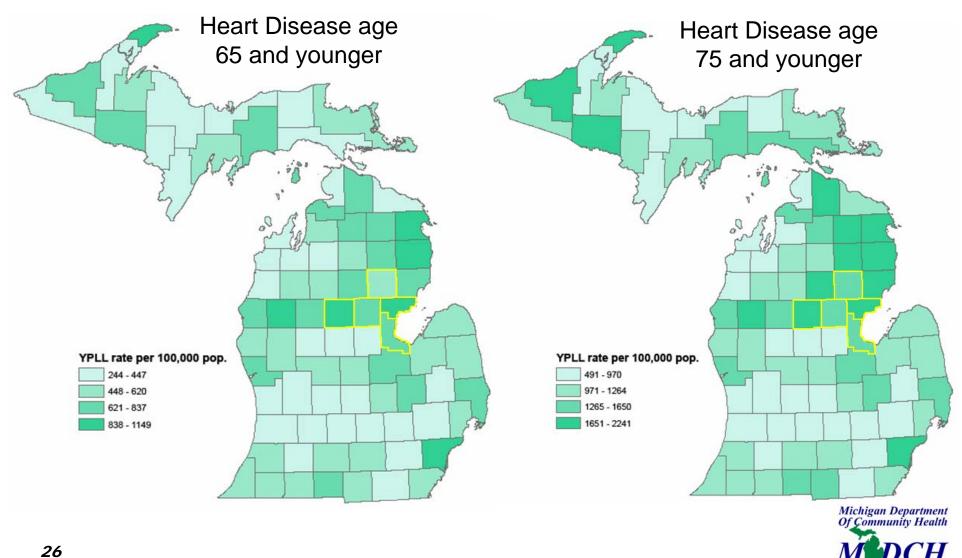


# **Mortality Data:** Heart Failure and Stroke, 2004-2008

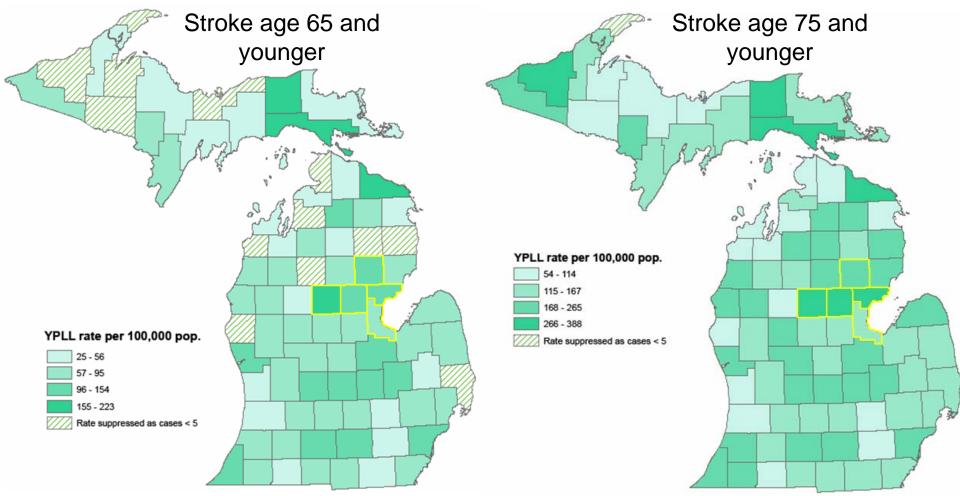




#### **Mortality Data:** Years of Potential Life Lost (YPLL) Heart Disease, 2004-2008



# **Mortality Data:** Years of Potential Life Lost (YPLL) Stroke, 2004-2008



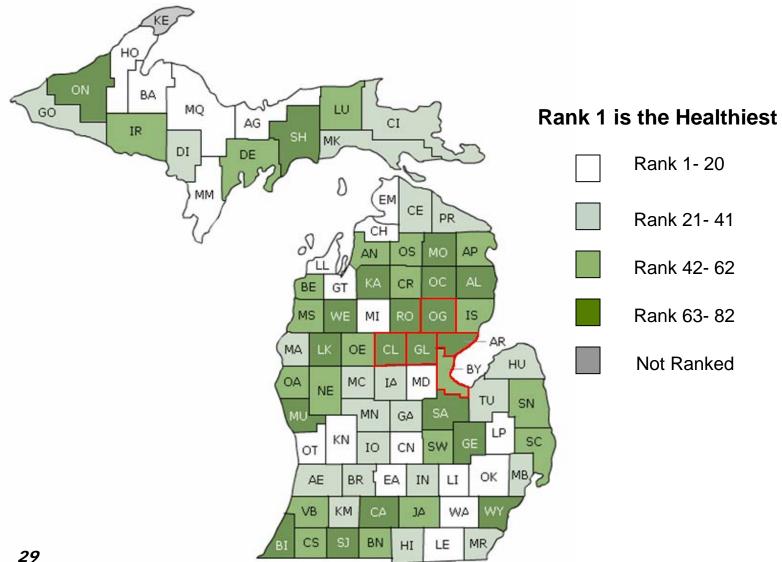


### County Health Rankings: 2011

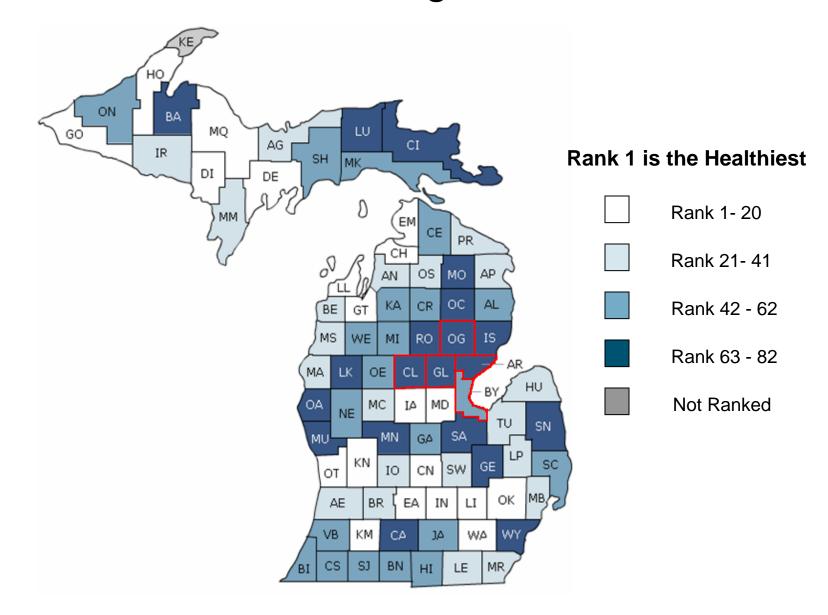
#### www.countyhealthrankings.org

			The County Health Rankings: A call to action					
Home	FAQs	Contact Us	Rankings Methods	Engaging Partners	Finding Solutions			
WELCO	ME TO THE CO	PROJECT NEWS						
<ul> <li>The County Health Rankings</li> <li>The County Health Rankings are being developed by the University of Wisconsin Population Health Institute through a grant from the Robert Wood Johnson Foundation and will be released in February 2010. This Web site will serve as a focal point for information about the County Health Rankings, a project developed to: <ul> <li>Increase awareness of the many factors—clinical care access and quality, health- promoting behaviors, social and economic factors, and the physical environment— that contribute to the health of communities</li> <li>Foster engagement among public and private decision makers to improve community health and</li> <li>Develop incentives to encourage coordination across sectors for community health improvement.</li> </ul> </li> <li>The project builds on the University of Wisconsin Population Health Institute's experience in producing the Wisconsin County Health Rankings annually since 2003.</li> </ul>					Upcoming webinars: State Team Webinar: Media Strategies and Communications Led by Burness Communications and UW Population Health Institute Staff Wednesday, January 20 2:00- 3:30pm CST (3:00-4:30pm EST; 12:00-1:30pm PST) Click here to register Local Health Department Webinar: Communication Toolkits and Key Messages for the Media and Stakeholders Led by Burness Communications and UW Population Health Institute Staff Tuesday, February 2 2:00-			
Robert The Robe issues fai improvin organizat meaningt commitme and heat lives and	Wood John int Wood Joh ing our cour the health ions and ind ul and time! h care of the	htry. As the nation and health care of ividuals to identify y change. For mor gorous, balanced a see we serve. Whe they need, we es	ocuses on the pressing he i's largest philanthropy de f all Americans, we work v solutions and achieve co e than 35 years we've bro approach to the problems en it comes to helping Ame opect to make a difference	voted exclusively to vith a diverse group of mprehensive, bught experience, that affect the health ericans lead healthier	<ul> <li>3:30pm CST (3:00-4:30 EST; 12:00-1:30pm PST Click here to register</li> <li>Coming soon: <ul> <li>Recording and slides from Feb 19 Local He Department webinar</li> </ul> </li> <li>Now available: <ul> <li>Updated list of metric weights)</li> <li>Introductory webinar local health agencies (recorded 12/7/09, 2 minutes)</li> </ul> </li> </ul>	r) salth cs (with		

#### **Michigan County Health Rankings:** Health Outcomes Rankings, 2011



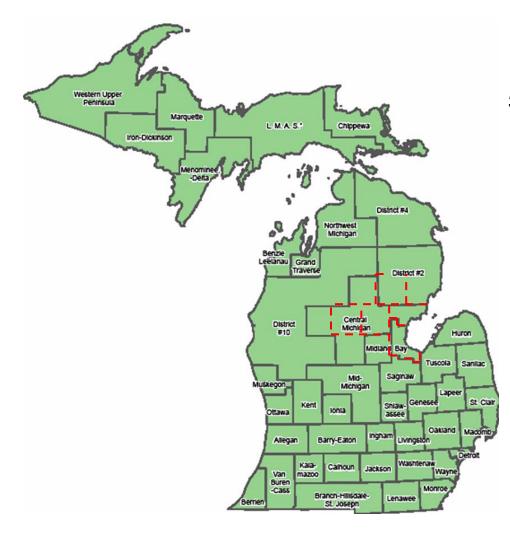
### Michigan County Health Rankings: Risk Factors Rankings, 2011



### Cardiovascular Disease Risk Factors

Current Smoking **High Blood Pressure High Blood Cholesterol Physical Activity Obesity & Overweight** Nutrition: Adequate Fruits & Vegetables **Diabetes** Access to Healthcare

### Local Health Departments (LHD)



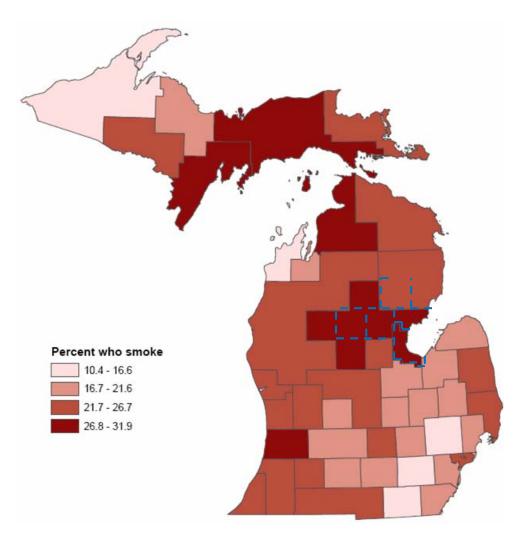
#### 5 County Region Local Health Departments

- 1. Central Michigan
- 2. District Health Department #2

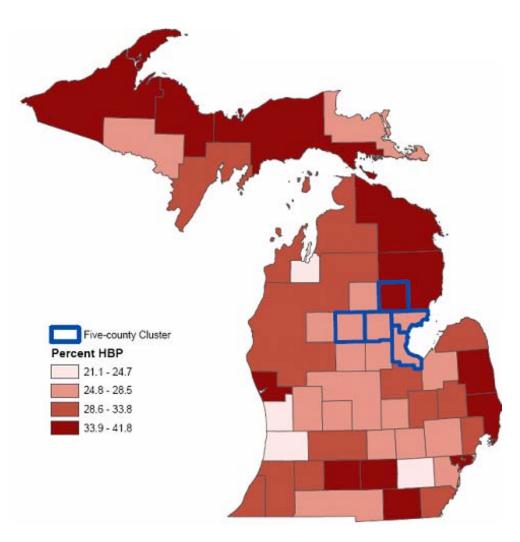
3. Bay

#### **CVD Risk Factors:**

#### Percent of Adults that Smoke

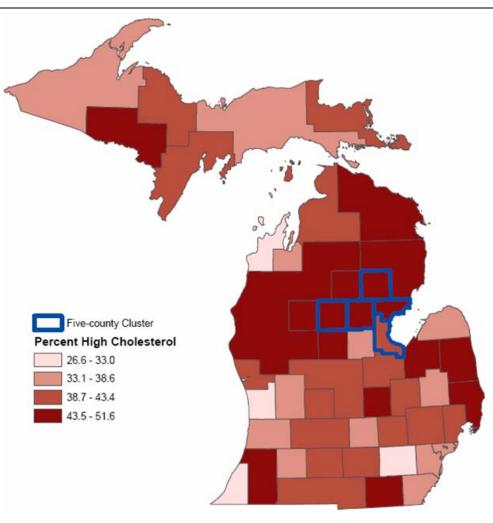


#### CVD Risk Factors: Percent of Adults Reporting High Blood Pressure

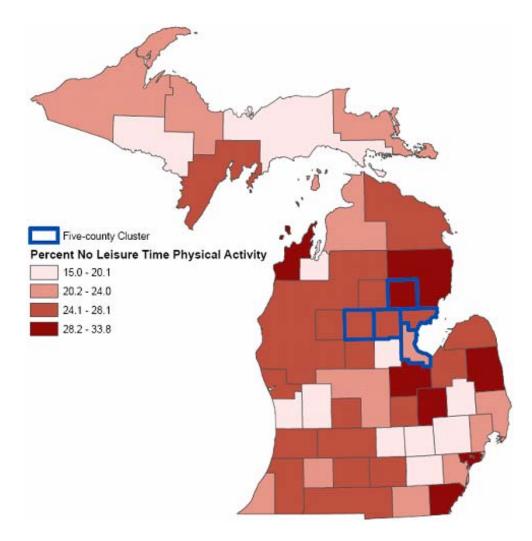


## CVD Risk Factors: Percent of Adults

#### **Reporting High Cholesterol**

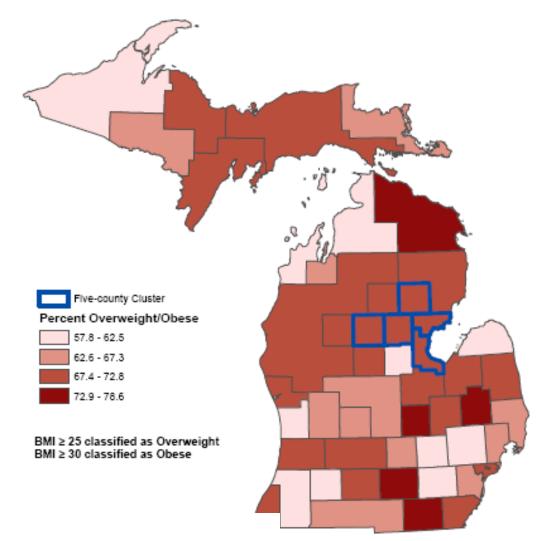


# **CVD Risk Factors:** Percent of Adults with No Leisure Time Physical Activity

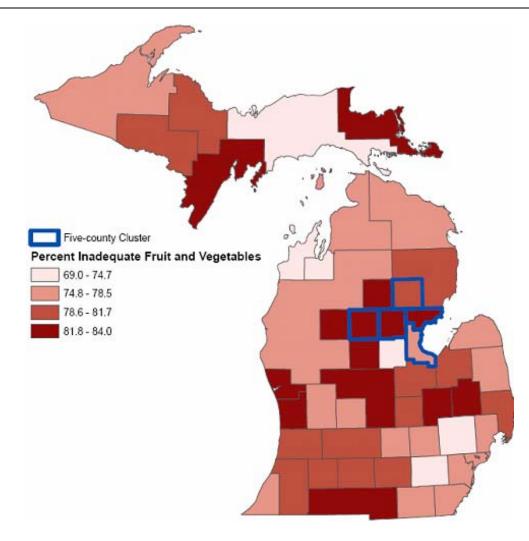


#### **CVD Risk Factors:**

#### Percent of Obese and Overweight Adults

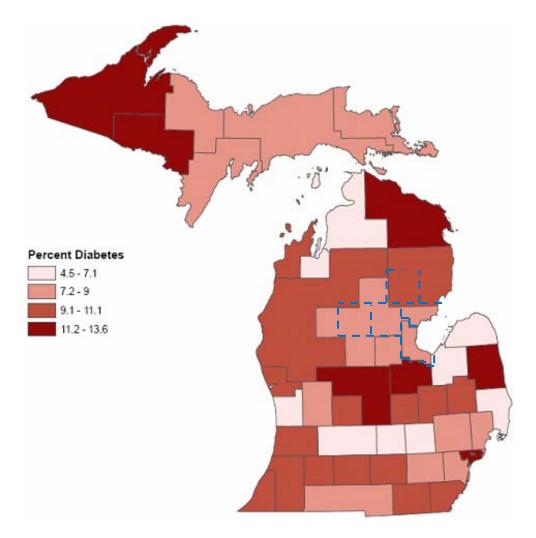


### **CVD Risk Factors:** Percent of Adults with Limited Fruit & Vegetable Intake

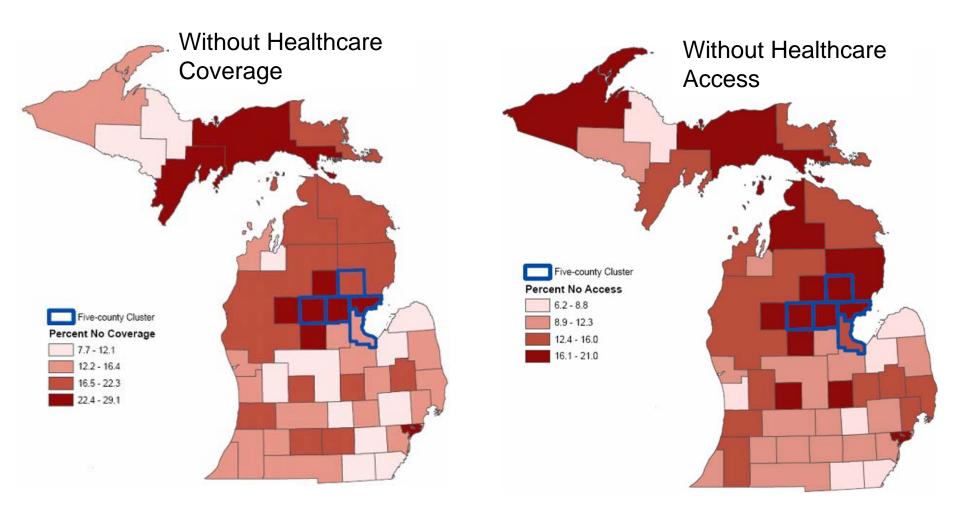


#### **CVD Risk Factors:**

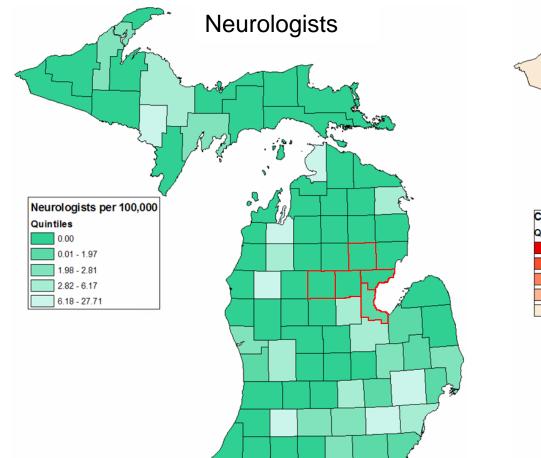
#### Percent of Adults with Diabetes

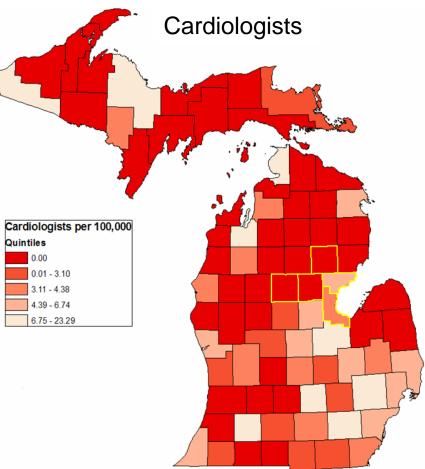


#### **CVD Risk Factors:** Percent of Adults Without Healthcare Coverage or Access



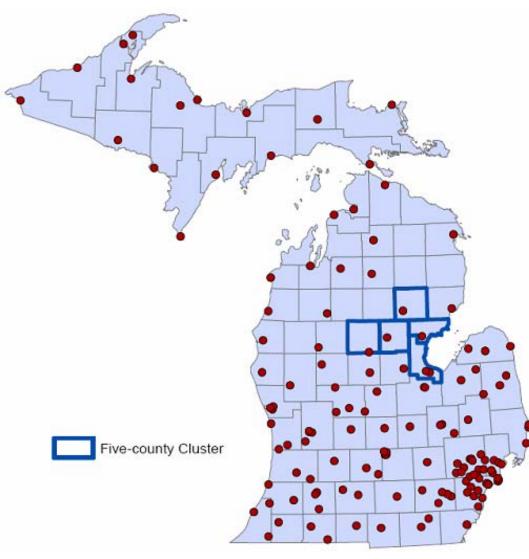
### Number of Neurologists and Cardiologists by County, 2004





#### **Health-Related Resources:**

#### Michigan Hospitals



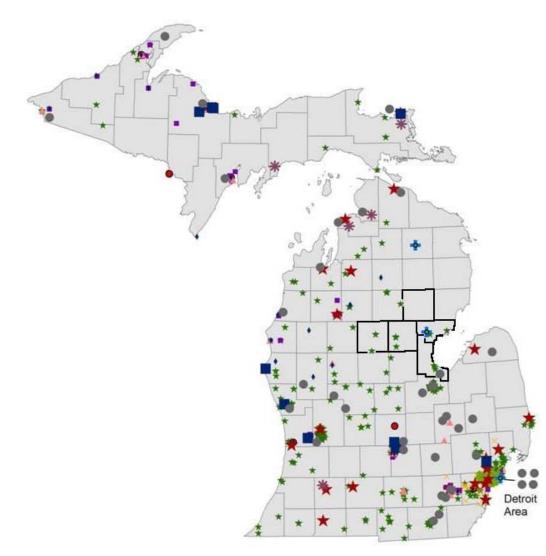
• 142 Hospitals Statewide

#### 6 Hospitals in Region

- 1) West Branch Regional
- 2) St. Mary's Standish
- 3) Mid-Michigan Gladwin
- 4) Mid-Michigan Clare
- 5) Bay Regional Medical Center
- 6) Bay Regional Medical Center West

#### **Health Related Resources:**

Public Health CVD Programs, 2010



#### **Programs Include:**

•Building Healthy Communities

•Healthy School and Childcare Initiatives

Faith-Based Initiatives

•Stroke Registry and Quality Improvement Programs

•Heart Disease Quality Improvement Projects

•High Blood Pressure Initiatives

# What do you think about the high rates of CVD in this area?

## What factors do you think may contribute to these rates?

#### Do You think any of these high rates are a result of the same families living in the area?

## What do you think are some of the strengths in this region?

### What can the community do to address these rates?

# What kind of support could agencies provide to reduce the burden?

Are there any other thoughts, comments, recommendations about this issue you'd like to make?

#### **Next Steps**

Thank you for your time and input.