

Mid-Michigan District Health Department BOARD OF HEALTH ANNUAL REPORT

2009



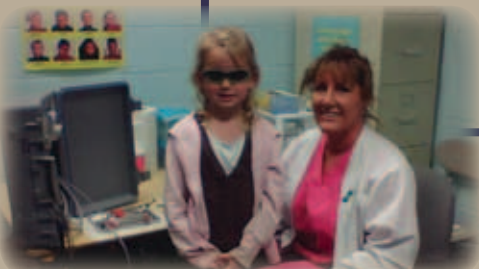
*Your public health experts;
connecting with the community and
exceeding expectations*

Serving Clinton, Gratiot & Montcalm Counties



Our Mission

We take action to assure the health and well-being of our community and the environment by responding to public health needs and providing a broad spectrum of prevention and educational services.



Health Officer's Perspective

On behalf of the Board of Health, I am pleased to present you with the Mid-Michigan District Health Department's 2009 Annual Report.

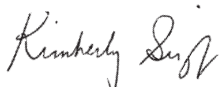
This report provides an overview of several selected health indicators and highlights the programs and services of the Environmental Health (EH) and Community Health & Education (CHED) Divisions. Health department staff works each day to make sure the tap water you drink, the restaurant food you eat, and the environment you live in are safe. Our programs provide children with immunizations and good nutrition. Michigan's local public health departments promptly respond to diseases such as meningitis, pertussis and H1N1 influenza. All of these services are provided by the dedicated staff of the Mid-Michigan District Health Department for the residents of Clinton, Gratiot and Montcalm Counties.

This report also summarizes department priorities and accomplishments in 2009. Our emphasis continues to be on maximizing existing resources, seeking creative partnerships and funding opportunities to meet current needs and address new challenges. Highlights for the year included:

- Implemented new software systems for Community Health and Education Division (Insight) and Financial Management (Quantum). The new systems replaced an outdated system installed in the mid-1980s and have enhanced operations and efficiencies.
- Expanded and relocated the Stanton Dental Care Center to the Montcalm Area Career Center in Sidney. The new dental clinic now has six operatories and can serve 40 percent more patients.
- Initiated a new Quality Improvement focus within the agency and provided staff training sessions to review and enhance department processes and outcomes.
- In conjunction with community partners and volunteers, the agency initiated a comprehensive H1N1 influenza response and vaccination campaign.
- Working with local restaurant owners and managers, the Environmental Health Division provided advanced-level food training classes to area food service professionals. Through the course of the year, 388 "Certified Food Manager" certifications were issued.

In conclusion, the Mid-Michigan District Health Department will continue its efforts to enhance the health and well-being of the residents of the Clinton, Gratiot and Montcalm Counties by providing exceptional customer service, enhancing community partnerships, and by actively responding to emerging issues. I encourage you to review this report and call me (989-831-3610) with any questions, or e-mail me at ksingh@mmdhd.org. The Mid-Michigan District Health Department appreciates your continued support and looks forward to continuing our work in making our communities safer and healthier.

Sincerely,



Kimberly Singh, M.A., C.H.E.S.
Health Officer



Kimberly Singh,
M.A., C.H.E.S.
Health Officer, Mid-Michigan
District Health Department

The Mid-Michigan District Health Department will continue its efforts to enhance the health and well-being of the residents of the district by providing exceptional customer service, through strengthened community partnerships and by actively responding to emerging issues.



2009 BOARD OF HEALTH

*(front l-r) Patricia Gillis, Roland Merignac, and Carl Paepke.
(back l-r) Paul McNamara, Jack Enderle, Health Officer Kimberly Singh and Tom Lindeman.
Medical Director Dr. Robert Graham not pictured.*



The Mid-Michigan District Health Department Board of Health governs the agency's programming, finances and personnel. It is composed of two county commissioners, appointed by each of the three member counties (Clinton, Gratiot and Montcalm) served by the health department. It is the responsibility of the Board of Health to see that a plan is designed and implemented which will provide long-term, continuing health protection for the residents of the district.

JACK A. ENDERLE (CLINTON COUNTY)

Mr. Enderle is serving his third year on the Board of Health. As Chairperson of the Finance Committee, he is responsible for developing and presenting the proposed annual budget for Board approval. He also serves as a member of the Personnel and Mid-Central Coordinating Committees.

PAUL E. MCNAMARA (CLINTON COUNTY)

Mr. McNamara is serving his third year on the Board of Health and is Vice-Chairperson. He also serves as a member of the Program and Public Health Emergency Committees and is a representative on the Michigan Association for Local Public Health (MALPH) Board.

ROLAND MERIGNAC (GRATIOT COUNTY)

Mr. Merignac is serving his first year on the Board of Health. As Chairperson of the Program Committee, he is responsible for developing and presenting all proposed policies and program changes. He also serves as a member of the Mid-Central Coordinating Committee.

PATRICIA K. GILLIS (GRATIOT COUNTY)

Ms. Gillis is serving her first year on the Board of Health. She also serves as a member of the Finance, Personnel and Public Health Emergency Committees.

TOM LINDEMAN (MONTCALM COUNTY)

Mr. Lindeman is serving his sixth year on the Board of Health. As Chairperson of the Personnel Committee, he presides at all negotiation meetings and presents recommended salary and benefit changes to the Board.

CARL PAEPKE (MONTCALM COUNTY)

Mr. Paepke is serving his fifteenth year on the Board of Health. As Chairperson of the Board, he is responsible for preparing and/or approving meeting agendas and presiding at Board meetings. He also serves as a member of the Finance, Program, Mid-Central Coordinating and Public Health Emergency Committees.

KIMBERLY SINGH, M.A., C.H.E.S. (HEALTH OFFICER)

Ms. Singh is serving her thirteenth year as the agency's Health Officer. She is responsible for carrying out the policies of the Board of Health and overseeing the internal operations of the Health Department.

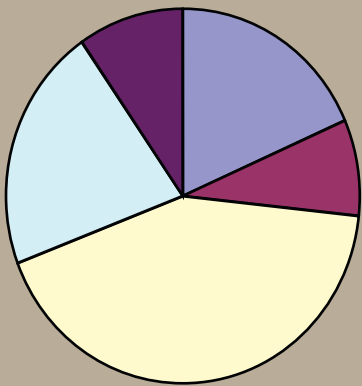
ROBERT GRAHAM, D.O., M.P.H., F.A.A.F.P. (MEDICAL DIRECTOR)

Dr. Graham is serving his eighteenth year as the Medical Director for the Mid-Michigan District Health Department and is also the Medical Director for the Central Michigan District Health Department. He is responsible for determining and directing medical policies and procedures.

2009 FINANCES

REVENUES

State & Federal Funds	43%
Appropriations & County Funding	21%
Medicaid & Medicare	18%
Other Funding	10%
Fees & Collections	8%
TOTAL REVENUES	\$6,970,533.52



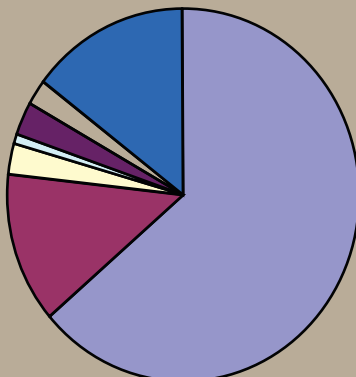
- State & Federal Funds
- Appropriations & County Funding
- Medicaid & Medicare
- Fees & Collections
- Other Funding

The accounting and financial management of the health department's resources are overseen by the Administrative Services Division. The financial management staff are responsible for complying with budgeting requirements and financial reporting for the various state and federal agencies that provide financial resources to the agency.

EXPENDITURES

Personnel	64%
Supplies	13%
Other	15%
Travel	3%
Contractual	2%
Equipment	2%
Communication	1%
TOTAL EXPENDITURES	\$6,970,533.52

- Personnel
- Supplies
- Other
- Contractual
- Travel
- Communication
- Equipment



Environmental Health Division

Ensuring a safe and healthy environment for the residents and visitors of Clinton, Gratiot, and Montcalm Counties remains the Environmental Health Division's primary objective. The Division has continued to seek new and innovative ways to provide environmental education to the public and focused on community partnerships to enhance our educational efforts. Below are some examples of those collaboration initiatives.



Bruce Du Hamel, R.S., M.S.A.
Environmental Health
Division Director

2009 Highlights

FOOD SERVICE EDUCATIONAL PROGRAMS - The Division's food certification program has been offered for two years; however, 2009 marked a change for our Food Program's educational efforts. In partnership with area profit and non-profit food establishments and in response to feedback provided by class attendees and instructors; educational offerings now include the following three individual classes, each designed to fit the particular needs of the client:

- A Recertification Class- allows the client with advanced education or prior course work to attend an accelerated course. This class still offers the five-year national certification upon completion.
- A Food Handler Certification Class- serves clients requesting a less advanced training course. This basic class provides a certificate upon completion.
- The original Manager Certification Class- meets the Michigan Food Law requirements.

WHEELER TOWNSHIP SEWER PROJECT - Beginning in 2009, the health department formed a partnership with Wheeler Township in Gratiot County to provide final inspections of homeowner connections to its new municipal sewer collection system. Gratiot County EH staff oversaw 94 site inspections, verifying proper abandonment of the old septic systems and proper isolation from existing water wells. As part of the collaboration with the Township, staff provided "as-built" drawings for each inspection, digital photos of each property's connection and an electronic database file of the entire sewer project to Wheeler Township. The health department is also assisting the Township in gaining compliance with any non-conforming parcels. Additionally, the Division is creating comprehensive, up-to-date files for each resident involved in the project to allow for quicker response to well permit applications and public information requests within project boundaries.

MDA EDUCATION GRANT - In 2009, the Division completed a Michigan Department of Agriculture (MDA) Training and Education Grant. This project represented a partnership between our department and local profit and non-profit restaurants. The goal of this pilot project was to provide training to local restaurant owners regarding a new MDA Risk Control Plan (RCP). A group of restaurants participated in training workshops held in the Ithaca and Stanton offices. After participating in the training workshops, our food service inspectors provided assistance to the owners to complete a RCP. The response from participating restaurants was favorable. As a result of this grant, local restaurant owners and operators are now more aware of food safety and sanitation practices in their facilities.

Through community education and enforcement of laws designed to protect the public, the Environmental Health Division continually works to protect the environment in which we live by responding to emerging issues such as food safety, sanitation, drinking water supplies and wastewater disposal.

FOOD PROGRAM

The focus of the food program is to assure a safe, clean food product for the public through regular inspections and education. Efforts in this program are key elements in assuring the meals we consume outside of home are safe.

	<i>Number of Services Provided (unduplicated)</i>			
	Clinton	Gratiot	Montcalm	District
Advanced Food Training Classes	120	114	154	388
Food Service Inspections (Fixed)	382	279	440	1,101
Food Service Inspections (Temporary)	105	53	100	258
TOTALS	607	446	694	1,747

WASTEWATER MANAGEMENT

One of the most important methods of preventing the spread of disease and viral infection is the proper treatment of human wastewater. These programs provide guidance and oversight for on-site sewage disposal.

	<i>Number of Inspections and Permits Issued (unduplicated)</i>			
	Clinton	Gratiot	Montcalm	District
On-Site Sewage Disposal Permits	77	61	168	306
Site Evaluations	35	13	20	68
TOTALS	112	74	188	374

ENVIRONMENTAL QUALITY

Assuring a good quality of life where we live and play is a key component of these programs.

	<i>Number of Clients Served (unduplicated)</i>			
	Clinton	Gratiot	Montcalm	District
Campground Program	4	7	30	41
Dept. of Human Services Inspections	53	26	56	135
Nuisance Complaint Investigations	27	28	87	142
Radon Test Kits Distributed	278	79	174	531
Public Swimming Pool Program	36	9	16	61
TOTALS	398	149	363	910

SURFACE & GROUNDWATER CONTROL

A fundamental component of public health met by these programs is the protection of our lakes, streams and the water we drink.

	<i>Number of Clients Served (unduplicated)</i>			
	Clinton	Gratiot	Montcalm	District
Ground Water Quality Control	94	115	304	513
Well Contaminate Monitoring	8	11	21	40
Septage Waste Haulers				
Trucks Inspected	10	7	15	32
Sites Inspected	3	4	20	27
Water System Evaluation	5	3	28	36
Sewage Disposal Evaluation	7	3	28	38
TOTALS	127	143	416	686

In 2009, the Environmental Health Division provided service to 3,717 unduplicated clients or facilities throughout the district.

Community Health & Education Division

This division embraces its role as the provider of and advocate for public health in Clinton, Gratiot, and Montcalm counties. Enhancing partnerships in the community is always at the forefront of this division's mission, and this has been especially true in 2009.

In 2009, the Community Health and Education Division provided service to 39,896 unduplicated individuals and families.

2009 Highlights



Andrea Tabor,
R.N., B.S.N., M.P.H.
Community Health and
Education Division Director

The Community Health & Education Division provides a variety of preventative health services to individuals and families in a variety of settings, including health department clinic, homes, community centers, churches, schools and throughout the entire community.

HEAD START CLINICS - For the second year in a row, a team of MMDHD staff held clinics at the 15 Head Start locations in Montcalm and Gratiot Counties which serve 300 children (Clinton County has Head-Start staff on-site that provide these services). During the clinics, children in need of services received blood lead and hemoglobin tests, hearing & vision screenings and fluoride varnish treatments. Staff follow-up on any abnormal results. This comprehensive service assures that the children receive the services needed to make certain that they are healthy and ready to learn.

STAFF RECOGNITION - In April, Angie Martin, Registered Dietitian, was named "Child Advocate of the Year" by the Child Advocacy Agency. Angie, who works in the Women, Infants and Children (WIC) and Maternal/Infant Health Programs, has been with MMDHD for 16 years. In June, Lisa Mikesell, RN, received the Michigan Department of Community Health's Certification in Tuberculosis (TB) after successfully completing a three-day training. Information from her training was integrated into the agency's TB program, enhancing our work in this area.

"TALK EARLY & TALK OFTEN" (TETO) - This program, implemented by the Michigan Department of Community Health, offers training sessions to enhance parents' ability to talk with their children about sensitive topics. The program is based on research that parents are the primary educators of their children and, when given the information and tools, can be instrumental in providing critical messages to their children to help them make positive choices, such as decreasing risky behavior (e.g., use of substances or initiation of sexual activity). The role of the local health department is to promote and coordinate the program in their community. MMDHD staff presented the TETO program information to middle school principals and counselors in all three counties. MMDHD staff will continue to work with the schools to promote the program.

COMMUNITY-BASED DENTAL CLINIC- ST. JOHNS - In 2009, a total of 544 Gratiot County and 545 Clinton County adults were served by the Community-Based Dental Clinic, which is open 2 days per week. Staff provided 1,086 visits during that same time frame. Per satisfaction surveys, many of the clients are very appreciative of the services provided at the dental clinic. The clients shared that, without the Community-Based Dental Clinic, they would not have access to needed dental health services. Although dental benefits for adults on Medicaid was drastically cut effective July 1, 2009 - the clinic has continued to serve clients due to financial support from community partners (Capital Area Community Services, Capital Area United Way, Capital Area Community Foundation, EightCap, Inc., Gratiot County Community Foundation, and Gratiot County United Way).

MATERNAL & CHILD HEALTH

Maternal and child health programs give financial, social, nutritional and medical support to qualified families. These programs benefit the community by reducing infant mortality, ensuring healthy births and maintaining infant and child health.

	<i>Number of Clients Served (unduplicated)</i>			
	Clinton	Gratiot	Montcalm	District
Hearing Screenings (# conducted)	2,780	1,985	3,894	8,659
Vision Screenings (# conducted)	4,408	2,770	5,620	12,798
Children's Special Health Care	194	128	261	583
Family Planning Services	509	843	995	2,347
Women, Infants & Children Program	1,148	1,489	2,090	4,727
Maternal Support Services	N/A	234	N/A	234
Infant Support Services	N/A	112	N/A	112
TOTALS	9,039	7,561	12,860	29,460

CHRONIC DISEASE CONTROL

These activities target specific chronic diseases. Efforts focus on early detection and referral.

	<i>Number of Clients Served (unduplicated)</i>			
	Clinton	Gratiot	Montcalm	District
Breast & Cervical Cancer Control	114	128	109	351
Lead Poisoning Screening	242	275	614	1,131
TOTALS	356	403	723	1,482

COMMUNICABLE DISEASE CONTROL

These programs offer testing, education, prevention and treatment services to control communicable diseases within our communities. Many of these services may be available at low or no cost.

	<i>Number of Clients Served (unduplicated)</i>			
	Clinton	Gratiot	Montcalm	District
Communicable Disease Control	261	285	363	909
HIV Counseling/Testing	13	69	79	161
Immunizations	899	1,744	1,304	3,947
Sexually Transmitted Disease Control	287	420	475	1,182
TOTALS	1,460	2,518	2,221	6,199

ORAL HEALTH

These programs promote oral health education and prevention, increase community awareness of the needs in the district and improve access to oral dental services.

	<i>Number of Clients Served (unduplicated)</i>			
	Clinton	Gratiot	Montcalm	District
Stanton Dental Care Center	N/A	N/A	1,666	1,666
Community-Based Dental Clinic- St. Johns	545	544	N/A	1,089
TOTALS	545	544	1,666	2,755

Community-Based Dental Clinic-St. Johns: Client Successes

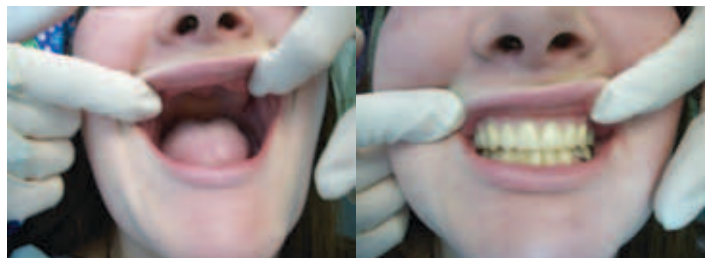
Before

After



Before

After



Medical Director's Perspective



Robert Graham,
D.O., M.P.H., F.A.A.F.P.
Medical Director

Dr. Robert Graham is the Medical Director for the Mid-Michigan District Health Department (MMDHD). A 1977 graduate of the Kirksville (MO.) College of Osteopathic Medicine, Dr. Graham received his Master's Degree from the University of Michigan in 1994, and was made a fellow of the American Academy of Family Physicians in 2004. He began his tenure with MMDHD in 1992. Prior to his affiliation with the health department, Dr. Graham was in private family practice for 14 years in Ithaca, Michigan.

Some of the activities Dr. Graham oversees include immunizations, family planning clinics, disease outbreak investigations, and advising the MMDHD Board of Health in medical matters.

The Medical Director provides general oversight of all health department programs, disease outbreak investigations and advises the MMDHD Board of Health in medical matters. He also provides consultation to health care providers regarding diseases that affect the community.

HIV, West Nile Virus, SARS, Avian Influenza, and H1N1 were not on the medical radar screen when I started practicing medicine in 1978. On the other hand, diseases that were all too common, such as measles, mumps, German measles, chicken pox, and meningitis have virtually disappeared.

In the last 32 years our society, our civilization, the human race has had to struggle with diseases that seemed to swoop down upon us like a fog from another earthly realm. HIV/Aids started cutting a fatal swath through humanity with a relentlessness that took two decades of determined effort to slow down. West Nile Virus took five years to spread from the East to the West Coast. SARS spread from Asia to North America in less than one month. Avian Influenza wiped out millions of domestic food birds and took with it thousands of human lives.

Then came H1N1. The first cases appeared this past year in mid-April in California and Texas. By the first of May, scientists had identified the RNA structure of the new influenza germ. People were getting sick and some were dying from the infection. By the middle of the summer a vaccine was developed. By the end of the fall, millions of people had received a protective dose of the H1N1 vaccine.

The above condensed "Readers Digest" version of infectious diseases in the last three decades turned on the tremendous efforts of the public health system. Thousands of dedicated workers, ranging from field investigators collecting mosquito samples to nurses giving vaccines has contributed to the control of diseases that have emerged in our lifetime.

Critics of preventative health, including those who dispute the effectiveness or safety of vaccinations, are spreading their views in many ways. The Internet, 24-hour news cycles, and competitive news organizations spread unfounded fears on those not familiar with epidemics of our past, including Polio, a contagious and historically devastating disease. Polio was virtually eliminated from the Western hemisphere in the second half of the 20th century due to vaccinations.

Everyone who is thankful for their good health should support the efforts their health department delivers every day. As part of a global system that recognizes the economic and health benefits of prevention, we at the Mid-Michigan District Health Department are proud to do our part to be on the frontline to assure the health and well-being of our community.

MMDHD RESPONDS TO H1N1



In June 2009, the Centers for Disease Control (CDC) declared that an H1N1 influenza pandemic had threatened the nation's health. State and local health departments were awarded additional Federal funding to enhance their ability to prepare and respond to this influenza pandemic, focusing on two key areas:

- Vaccination, Antiviral Distribution/Dispensing and Administration – to identify and address any gaps in existing plans and initiate activities in preparation for a mass vaccination campaign.
- Laboratory, epidemiology, surveillance and associated pandemic preparedness and response activities – to ensure there was capacity to detect and monitor influenza illness and viruses.

MMDHD established an internal H1N1 Planning and Response Team consisting of administration and key staff. In collaboration with community partners, the department implemented plans for disseminating information; distributing antivirals, enrolling providers in the H1N1 vaccination program and holding mass vaccination clinics.

Vaccine became available in late-October to vaccinate priority groups targeted by the CDC, which included:

- Health care and emergency services personnel
- All persons between the ages of 6 months to 24 years
- Pregnant women
- Persons who live or care for children younger than 6 months
- Persons between the ages of 25 and 64 years with certain health conditions (e.g., COPD, diabetes, cancer, etc.)

In late October MMDHD began offering clinics at health department branch offices. In addition, 5 mass vaccination clinics were held on 2 Saturdays which resulted in approximately 5,600 individuals vaccinated for H1N1. Due to the overwhelming support of volunteer groups and community agencies throughout the district, the clinics were very well received (see comments below):

"I wondered if you would pass on my sincere thanks and appreciation to the organizers of this H1N1 clinic. It was just a masterpiece of organization and effort."

"I want to compliment you, your staff and all the volunteers who were at the clinic. Everyone was helpful and professional. The line moved quickly and the whole event was very well organized. I was very happy with the entire process."

In mid-December, the CDC determined that the target groups could be expanded to any individuals wishing to receive the H1N1 vaccination.

In addition to the mass vaccination clinics, approximately 18,685 doses of vaccine were distributed to area providers (physicians and area pharmacies). It is estimated that 11,807 residents in Clinton, Gratiot, and Montcalm Counties were vaccinated for H1N1 by the health department.

COMMUNITY HEALTH STATUS

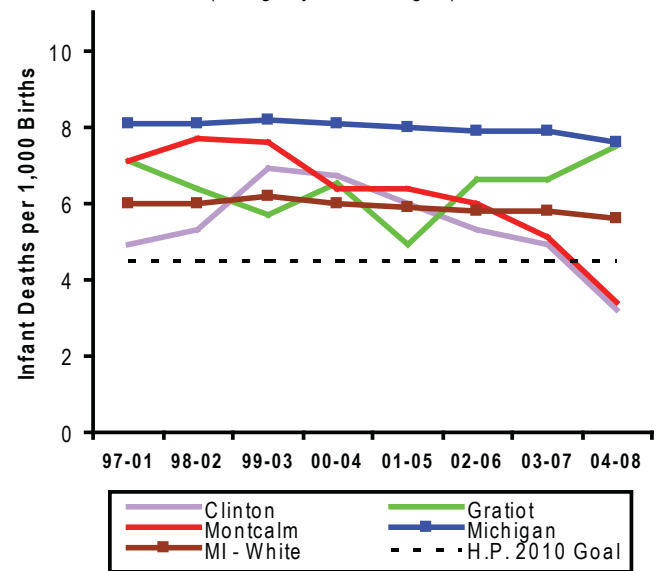
Many indicators are used to measure the health of the population. The following two pages summarize select indicators which help create a snapshot of the health status of the residents living in Clinton, Gratiot, and Montcalm counties. In some cases, Michigan data has also been provided to allow for comparison between the counties and state level. Because the population of mid-Michigan is primarily white, non-hispanic (94%), we have included “Michigan, White” statistics on selected indicators to better reflect our district’s population.

COMMUNITY INDICATORS

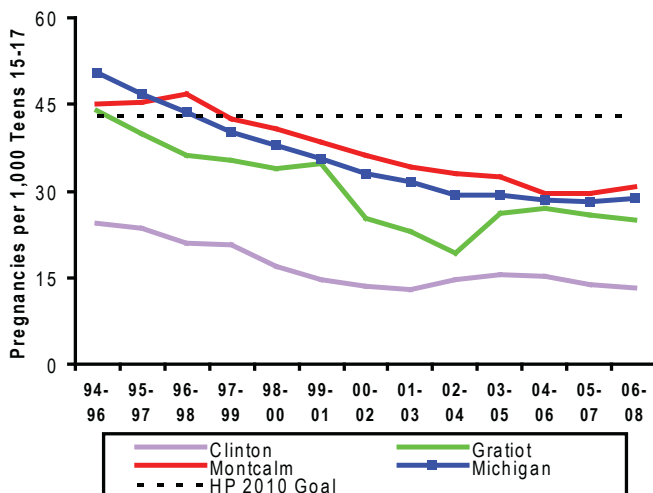
INFANT MORTALITY RATE

The infant mortality rate is a measure of the number of infant deaths under the age of 1 year per 1,000 live births. Infants at greatest risk of death are those born prematurely, having low birth weight or born with major congenital anomalies. Other factors influencing infant mortality include socioeconomic status, age and health of the mother, risk of infant injury, extent of prenatal care, and the infant’s medical care during the first year of life. Infant mortality is often used as an index of the general health of the community, since many of the risk factors reflect on community issues such as healthcare access, education, poverty, and lifestyle choices. After seeing a steady improvement in infant mortality from the early 1970s to the early 1990s, the rate in Michigan has changed little in the 10 years leading up to 2008, hovering near 8 deaths per 1,000 infants. In the most recent 6 years for which data is available, both Clinton and Montcalm Counties have experienced a declining infant mortality rate that is lower than the overall rate for Michigan (and recently lower than the “Healthy People 2010” goal of no more than 4.5 deaths per 1,000 infants). Over the same period, Gratiot County has experienced an upward trend in infant mortality. Nationally, the mortality rate for African American infants continues to be more than twice that of Caucasian infants. The MMDHD continues to advocate for a community-wide collaborative effort to examine and reduce factors that lead to infant mortality.

Infant Mortality Rate
(using 5-year averages)



Teen Pregnancy (Age 15-17 yrs.)
(using 3-year averages)



TEEN PREGNANCY RATE

The teen pregnancy rate typically represents the number of women 15 to 19 years of age who have given birth, experienced an abortion or miscarried per 1,000 teens of the same age. For this report, however, the data represents a more specific group of teens, age 15-17 years only. From 1990 to 2005, Michigan experienced a continuous decline in teen pregnancy. Since 2005, the rate for 15-17-year-olds has leveled off and may even be increasing. The counties served by MMDHD have generally shown steady declines in the teen pregnancy rate over the past 15 years. Gratiot and Clinton County rates have remained below that of Michigan, while the Montcalm County rate has consistently remained above that of the State. Efforts to encourage responsible sexual decision making and increased use of contraceptives have contributed to the decrease in teen pregnancy. MMDHD offers Family Planning services in all 3 counties.

SELECTED BIRTH INDICATORS

SELECTED BIRTH CHARACTERISTICS

Findings from the Centers for Disease Control (CDC) indicate that many women report high-risk behaviors or experience high-risk conditions before, during, and shortly after pregnancy. These behavioral/social characteristics of the mother may influence the delivery outcome and the future health status of her newborn. Some of these characteristics are monitored at the county and state levels so that trends can be observed and evaluated. These findings are useful in assisting the design of public health programs and policies that address these behaviors and experiences so that the health of mothers and their infants can be improved. The table (above) compares selected birth characteristics for Clinton, Gratiot, and Montcalm Counties as well as the State of Michigan.

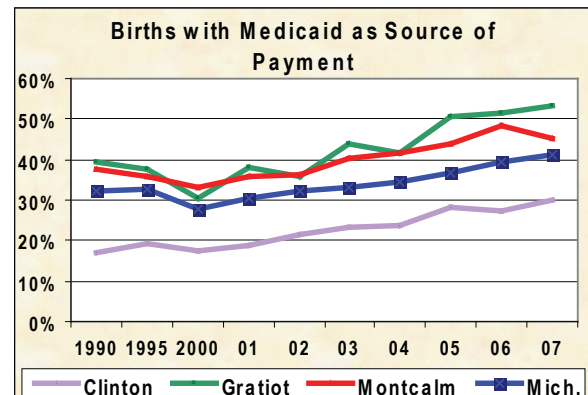
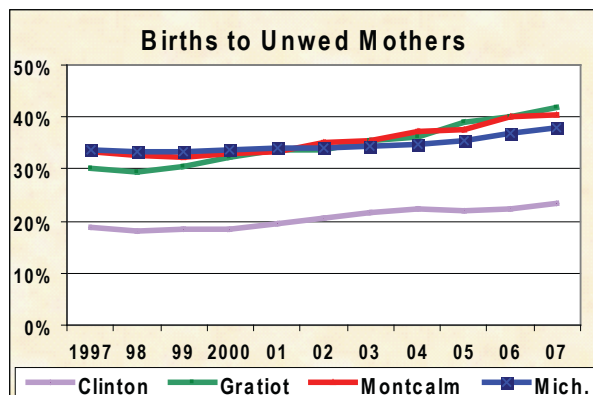
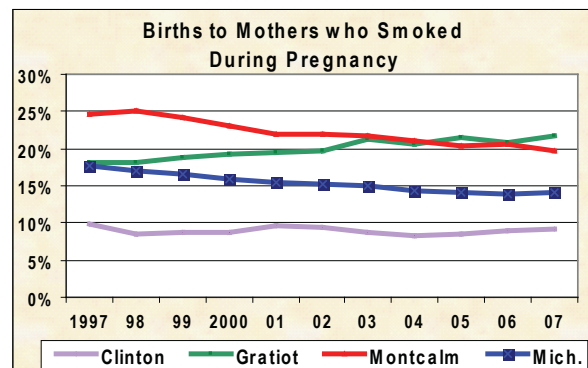
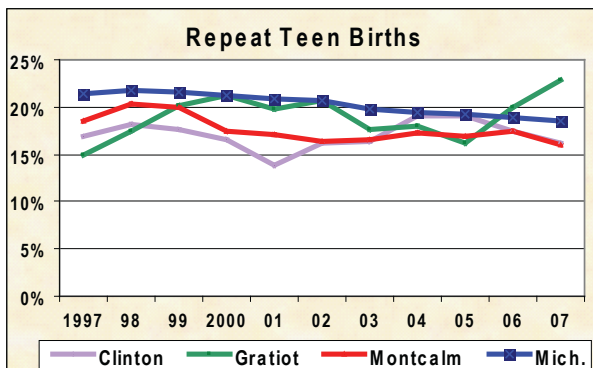
SELECTED BIRTH CHARACTERISTICS - 2008

	Clinton	Gratiot	Montcalm	Michigan
Total Live Births	769	468	809	121,231
- to women under age 20 years	35	49	92	12,277
- to women over age 40 years	15	6	11	3,030
% birth mothers under 20 years of age	4.6	10.5	11.4	10.1
% birth mothers w/less than 12 yrs education	7.0	11.5	17.7	16.5
% birth mothers unmarried	22.6	40.6	36.5	40.4
% birth mothers enrolled in Medicaid	29.6	49.8	48.6	43.1
% birth mothers who smoked while pregnant	12.4	31.4	27.6	20.4
% received prenatal care during 1st trimester	86.1	55.6	66.9	73.2
% low birth weight (under 5 lbs. 8 oz.)	6.6	6.0	5.4	8.5
% very low birth weight (under 3 lbs. 5 oz.)	1.3	1.3	*	1.8
% pre-term birth (born before 37 complete weeks)	12.5	9.2	8.4	10.8

NOTE: Values in red indicate specific county results that are less favorable than state results. SOURCE: Birth Characteristics data from Michigan 2008 Resident Birth Files, Michigan Department of Community Health, 2010.

SELECTED MATERNAL BIRTH TRENDS

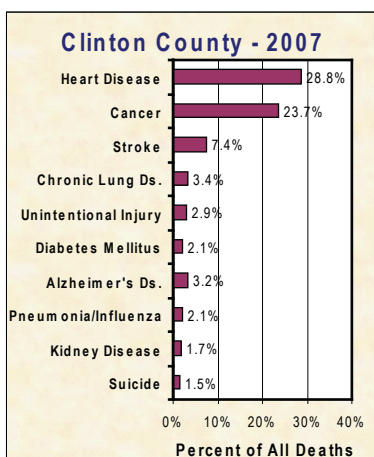
The graphs below represent trends of selected maternal birth characteristics. At the state level, both “Repeat Teen Births” (women giving birth to a second child while a teen) and “Births to Mothers who Smoked During Pregnancy” appear to be moving in a favorable direction (rates decreasing) over the past decade; whereas “Births to Unwed Mothers” and “Births with Medicaid as Source of Payment” appear to be moving in an unfavorable direction (rates increasing). County-level results generally mirror the state trend for each indicator, with one minor exception: Gratiot County appears to be experiencing an upswing in the percentage of mothers who smoked during pregnancy. Most noticeable among the county-level results is the relatively better results for Clinton County in relation to the state and the other two counties. Both Gratiot and Montcalm Counties continue to experience greater rates than the state for “Births to Mothers who Smoked During Pregnancy” and “Births with Medicaid as Source of Payment.”



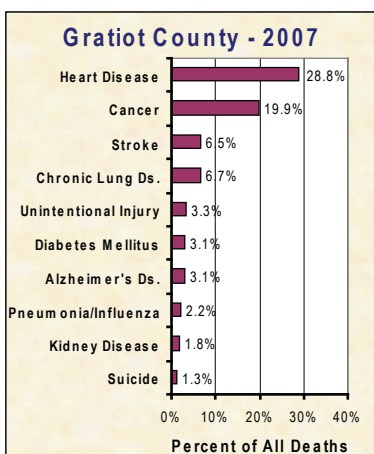
LEADING CAUSES OF DEATH

The 10 disease categories shown below represent the most frequent causes of death and account for about 75% of all deaths. The values in the table represent the average number of deaths per 100,000 people for the years 2005-2007 (most recent data available). Mortality data helps provide a snapshot of the general health status of a community, which aids in the identification of health concerns and the development of intervention programs. This mortality data can also be used to compare the health status of one population to another (e.g., counties) or to evaluate the status of one population over time (e.g., county trends). The table shown provides a comparison of mortality rates between MMDHD's three counties and Michigan. The bar charts represent the proportion of all deaths during 2007 (most recent data available) that each underlying cause is responsible for.

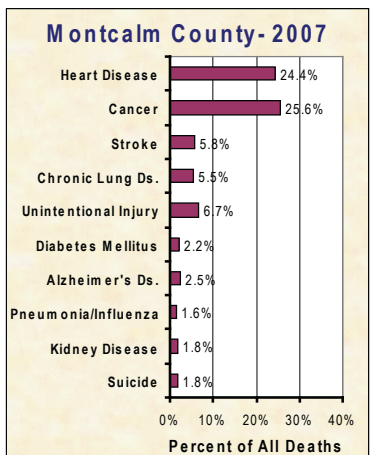
CLINTON COUNTY



GRATIOT COUNTY



MONTCALM COUNTY

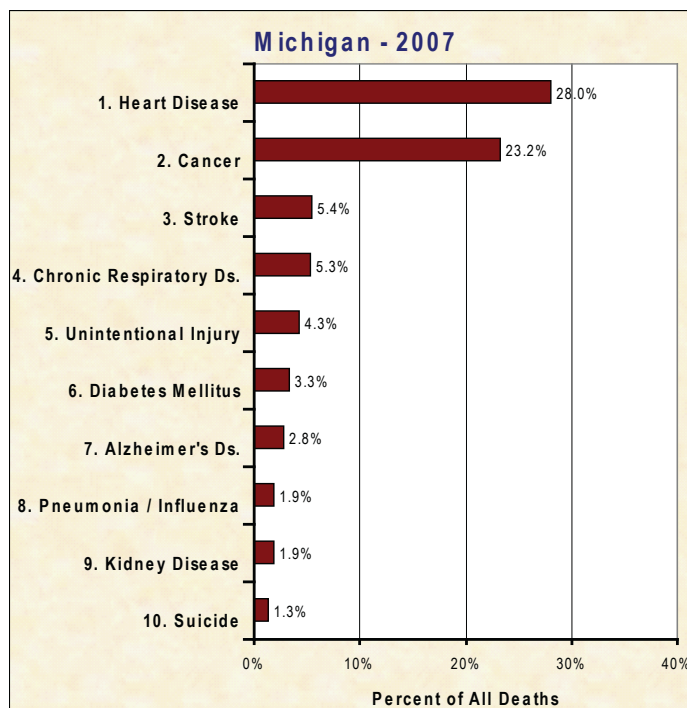


AGE-ADJUSTED MORTALITY PER 100,000 POPULATION (2005-2007 AVERAGE)

	Clinton	Gratiot	Montcalm	Michigan
1. Heart Disease	180.7	251.5	216.6	226.7
2. Cancer	167.8	185.1	199.0	189.4
3. Stroke	59.4	62.4	59.2	44.6
4. Chronic Respiratory	32.8	53.2	52.9	42.9
5. Unintentional Injury	27.4	30.9	50.7	34.4
6. Diabetes	22.2	29.8	22.5	26.6
7. Alzheimer's Disease	23.5	20.2	23.0	21.7
8. Pneumonia/Influenza	12.6	21.3	15.6	16.2
9. Kidney Disease	12.4	19.9	20.7	15.1
10. Suicide	11.6	9.2	14.7	10.9
<i>Subtotal</i>	550.4	683.5	674.9	628.5
<i>Age 65+</i>	11.9%	13.7%	13.0%	12.7%

NOTE: Values in red represent county rates greater than State of Michigan rate.

MICHIGAN



Mid-Michigan District Health Department SERVICES

MATERNAL & CHILD HEALTH SERVICES

- WIC (Women, Infants and Children)
- Family Planning Program
- Immunization Program
- Communicable Disease Control
- Sexually Transmitted Disease testing, treatment, counseling and follow-up
- Tuberculosis Control
- HIV Counseling and Testing
- Children's Special Health Care Services
- Maternity Outpatient Medical Services (M.O.M.S.), MICHild Healthy Kids Enrollment
- Maternal and Infant Support Services
- Breast and Cervical Cancer Control Program (BCCCP)

ENVIRONMENTAL HEALTH PROGRAMS

- Oversee operational status of septic systems and drinking water wells
- Food Service Sanitation Program
- Issue permits for installing or repairing sewage disposal and water supply systems
- Department of Human Services-Licensed Facility Inspections
- Inspect public swimming pools, spas and hot tubs
- Rabies control through investigation of animal bite complaints
- Annual inspections of campgrounds
- Regulate the service of septic tanks, portable toilets and septage waste haulers
- Provide test kits for radon
- Review new public pool location plans and monitor pool sample quality reports
- Lead testing in homes

COMMUNITY HEALTH PROGRAMS

- Health Education
- Hearing & Vision Screening

MID-MICHIGAN HEALTH PLAN ENROLLMENT COORDINATION

- Locally-organized system of care for uninsured adults

MONTCALM AREA COMMUNITY DENTAL CLINIC

(Formerly Stanton Dental Care Center)

- Provides access to dental health and hygiene services for Medicaid, low-income and uninsured patients in the Montcalm County area.

ST. JOHNS COMMUNITY-BASED DENTAL CLINIC

- Provides access to dental health and hygiene services for Medicaid-eligible

BOARD OF HEALTH/ ADMINISTRATIVE OFFICES

615 N. State St., Ste. 2
Stanton, MI 48888
989.831.5237
fax 989.831.5522

CLINTON BRANCH OFFICE & DENTAL CENTER

1307 E. Townsend Rd.
St. Johns, MI 48879
989.224.2195
fax 989.224.4300
Off-site clinic: DeWitt

GRATIOT

BRANCH OFFICE

151 Commerce Dr.
Ithaca, MI 48847
989.875.3681
fax 989.875.3747
Off-site clinic: Alma

MONTCALM AREA

COMMUNITY DENTAL CLINIC

1550 W. Sidney Road
Sidney, MI 48885
877-328-0777
989-328-2200

MONTCALM

BRANCH OFFICE

615 N. State St., Ste. 1
Stanton, MI 48888
989.831.5237
fax 989.831.3666
Off-site clinics:
Greenville, Howard City

www.mmdhd.org



MID-MICHIGAN DISTRICT HEALTH DEPARTMENT

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