



Macomb County Health Department



2011/2012
Annual Report
Improve. Promote. Protect.
macombgov.org/publichealth



TABLE OF CONTENTS

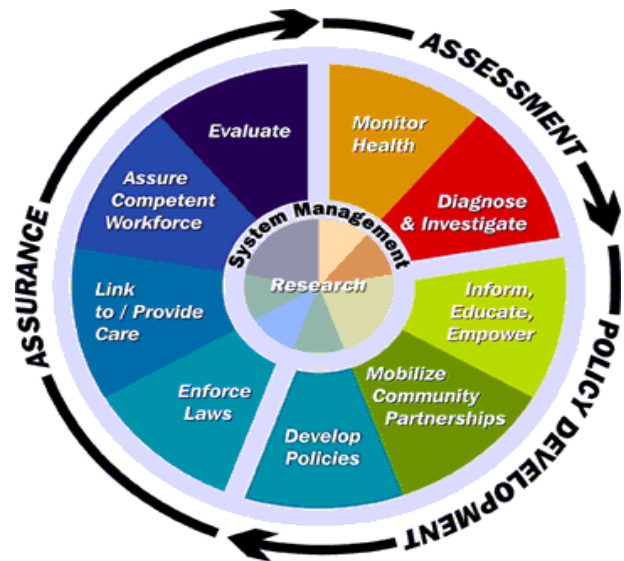
Public Health Mission Statement	3
Letter from the Director	4
Organizational Chart	5
Budget	6-7
Vital Statistics	8
Health Promotion/Disease Control Division	9-15
Breast & Cervical Cancer Screening Program	9
Cardiovascular Disease Risk Reduction Program (CVDRRP).....	10
Health Education Program	10
Hearing & Vision Program.....	11
Nutrition Program	11
Healthy Kids Healthy Futures Coalition	12
Macomb County Tobacco Prevention Coalition.....	12
Communicable Disease (CD) Program	13
Tuberculosis	14
School Immunization.....	14
HIV (AIDS) Counseling & Testing Program	15
Sexually Transmitted Disease (STD) Control Program.....	15
Family Health Services Division	16-21
Women, Infants & Children (WIC) Nutrition Program	16-17
Family Planning Program.....	17-18
Children’s Special Health Care Services (CSHCS)	18
MIChild/Healthy Kids Program	18
Dental Health Program.....	19
Fetal-Infant Mortality Review Program (FIMR)	19
Public Health Nursing.....	20
Immunization Program.....	21
Environmental Health Division	22-23
Food Sanitation Program.....	22
Public Swimming Pool Program	22
Body Art Establishment Regulation.....	22
Surface Water Improvement & Monitoring Team (SWIM).....	23
Environment Management & Risk Assessment Program (EMRAP).....	23
Onsite Sewage Disposal & Onsite Water Supply Program.....	23
Animal Shelter	24
Macomb County Medical Examiner’s Office	24
Emergency Preparedness Program	25-26
Health Department Locations	27

The 10 Essential Public Health Services Centers for Disease Control & Prevention

The Institute of Medicine defines public health as, what people in a society do, to assure the conditions that enable people to be healthy. This includes program activities that are effective, organized, and maintained to promote healthy individuals and communities.

The Core Public Health Functions Steering Committee developed a working definition of public health and a guiding framework for the responsibilities of local public health systems:

1. Monitor health status to identify and solve community health problems.
2. Diagnose and investigate health problems and health hazards in the community.
3. Inform, educate, and empower people about health issues.
4. Mobilize community partnerships and action to identify and solve health problems.
5. Develop policies and plans that support individual and community health efforts.
6. Enforce laws and regulations that protect health and ensure safety.
7. Link people to needed personal health services and assure the provision of health care when otherwise unavailable.
8. Assure competent public and personal health care workforce.
9. Evaluate effectiveness, accessibility, and quality of personal and population-based health services.
10. Research for new insights and innovative solutions to health problems.



The 10 Essential Public Health Services

Macomb County Public Health

MISSION

The Mission of the Macomb County Health Department is to
Improve, Promote and Protect
the personal and environmental health of
our residents and our communities.

OUR VALUES

We value the delivery of public health services in a professional, ethical and competent manner, which respects the dignity of the individual.

We are committed to excellence in all we do.

We value professional growth.

We value addressing community needs and the needs of population groups.

We value a safe and healthy environment, which promotes safe and healthy communities.

We value employee ideas, which generate quality improvement.



Macomb County Health Department

43525 Elizabeth Road
Mount Clemens, Michigan 48043
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Dear Residents, Friends and Colleagues:

As the new Director of the Macomb County Health Department, it is my pleasure to present our 2011/2012 annual report demonstrating our work to *improve, promote and protect the personal and environmental health of our residents and our communities*. Over the last few years, Macomb County has seen changes in healthcare services, economic challenges and opportunities, and in the richness of our diverse community. However, throughout the years, there remains a consistent and urgent need for public health services to promote community wellness and prevent illness. Our Department programs and enforcement activities serve a multitude of public health needs in our county.

Here are just a few of the examples of programs designed to pursue our mission and address some essential public health services in 2011 and 2012:

Our Health and Nutrition Education Program, now called Healthy Communities, spearheaded the Healthy Kids/Healthy Future Coalition to *improve* nutrition and physical activity opportunities by providing health education presentations to over 12,000 school-aged children in our community.

The Women, Infants and Children (WIC) Nutrition Program *promotes* maternal child health by providing nutrition assessments, education and counseling, breastfeeding promotion and support, and supplemental nutritious food benefits to an average of over 10,000 women and children each month.

Over the past two years, the Health Department's Household Hazardous Waste Program collected over 412,000 pounds (or 206 tons) of hazardous waste from common household products (e.g., cleaners, pesticides, medications, automotive fluids, etc.) and safely disposed of them to *protect* our soil and water resources.

As we continue to seek innovative ways to effectively and efficiently meet the health needs of our growing and changing community, I am proud to say that our staff is incredibly dedicated to meeting this challenge while upholding the quality of our work. The support and leadership of our County Executive, Mark A. Hackel, and the Director of the Department of Health and Community Services, Steven C. Gold, MPH, further encourages us to contribute to the vision of ensuring Macomb County residents *lead healthy lives in supportive communities*.

Please take a moment to review our work and contact us with your comments and ideas. Tell us how we can do better to improve, promote, and protect the personal and environmental health of every resident and visitor in Macomb County.

Sincerely,

A handwritten signature in black ink that reads "William J. Ridella".

William J. Ridella, M.P.H, M.B.A
Director/Health Officer

**Accredited by the Michigan Public
Health Accreditation Commission**



OFFICE OF THE COUNTY EXECUTIVE
MACOMB COUNTY EXECUTIVE
MARK A. HACKEL

DEPARTMENT OF HEALTH AND COMMUNITY SERVICES
DIRECTOR
STEVEN C. GOLD, MPH

MACOMB COUNTY HEALTH DEPARTMENT
DIRECTOR/HEALTH OFFICER
WILLIAM J. RIDELLA, MPH, MBA

MEDICAL DIRECTOR
KEVIN P. LOKAR, MD, MPH

OFFICE OF MEDICAL EXAMINER
CHIEF MEDICAL EXAMINER
DANIEL SPITZ, MD

EMERGENCY PREPAREDNESS PROGRAM
COORDINATOR
ANDREW COX, REHS

DEPUTY HEALTH OFFICER
GARY R. WHITE, RS, MS

OFFICE OF PLANNING AND QUALITY ASSURANCE
MANAGER
NIKI ROSS

ENVIRONMENTAL HEALTH
ASSOCIATE DIVISION DIRECTORS
STEVE LICHOTA
SHERRY LABELLE, MSA

FAMILY HEALTH SERVICES
DIVISION DIRECTOR
KRISTA WILLETTE, RN, MSA

OFFICE OF FINANCIAL SERVICES
MANAGER
PATRICK DETINE

HEALTH PROMOTION / DISEASE CONTROL
DIVISION DIRECTOR
JANICE CHANG, MB,BS, MPH

- Accreditation
- Continuous Quality Improvement
- Clinical Laboratory Certification
- Health Data and Statistics

- Community Health and Safety
- Food Protection
- Shelter Management (Group Care Facilities and Day Care Centers)
- Onsite Waste Water Disposal and Drinking Water Supply Management
- Surface and Recreational Water Quality Management
- Household Hazardous Waste Collection and Disposal
- Environment Management & Risk Assessment (EMRAP)

- Dental Clinic
- Family Planning
- Immunizations
- MI-Child/Healthy Kids/
- Prenatal Care
- Health Insurance
- Maternal & Child Health
- Women, Infants & Children Supplemental
- Nutrition Program (WIC Program)
- Children's Special Health Care Services

- Payroll
- Accounts Receivable
- Accounts Payable
- Insurance Billing
- State Financial Reporting
- Budget Management

- Communicable Disease
 - Surveillance and Investigation
 - Tuberculosis Control
 - School Immunization
- Healthy Communities
- Hearing and Vision Screening
- HIV Counseling and Testing
- STD Clinic

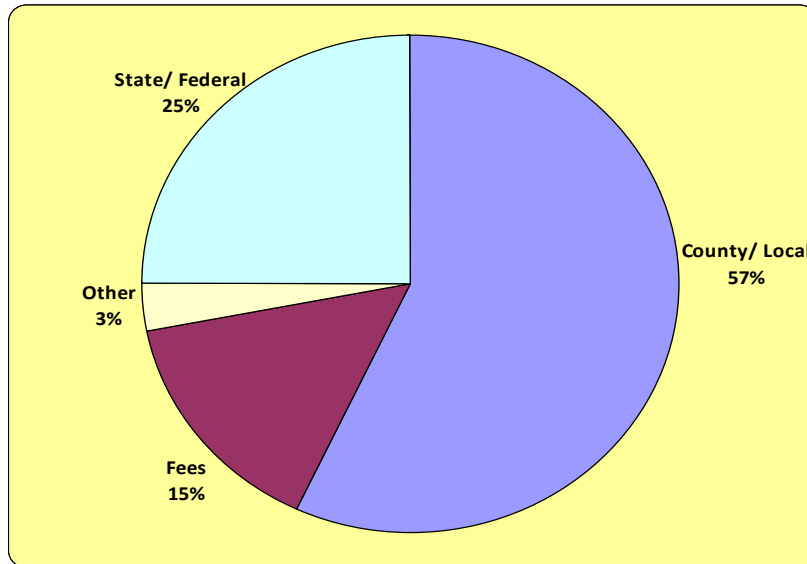
BUDGET

Macomb County Health Department

2011

Funding Sources by Category

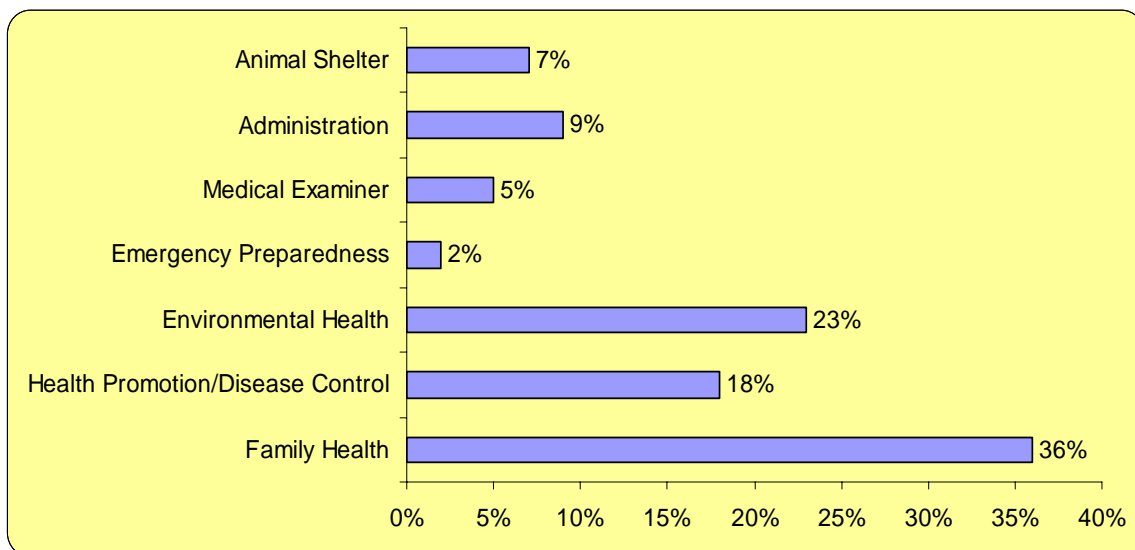
Total Revenues: \$25,335,465



2011

Expenditures by Category

Total Expenditures: \$25,335,465



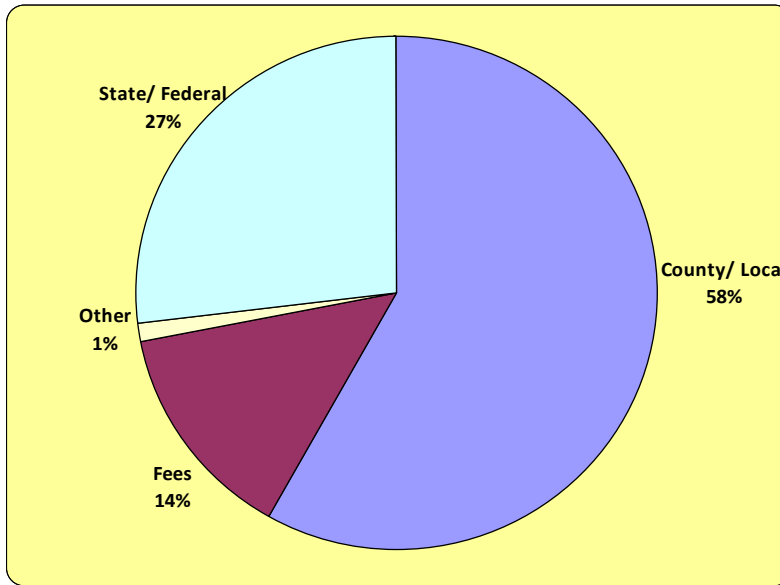
BUDGET

Macomb County Health Department

2012

Funding Sources by Category

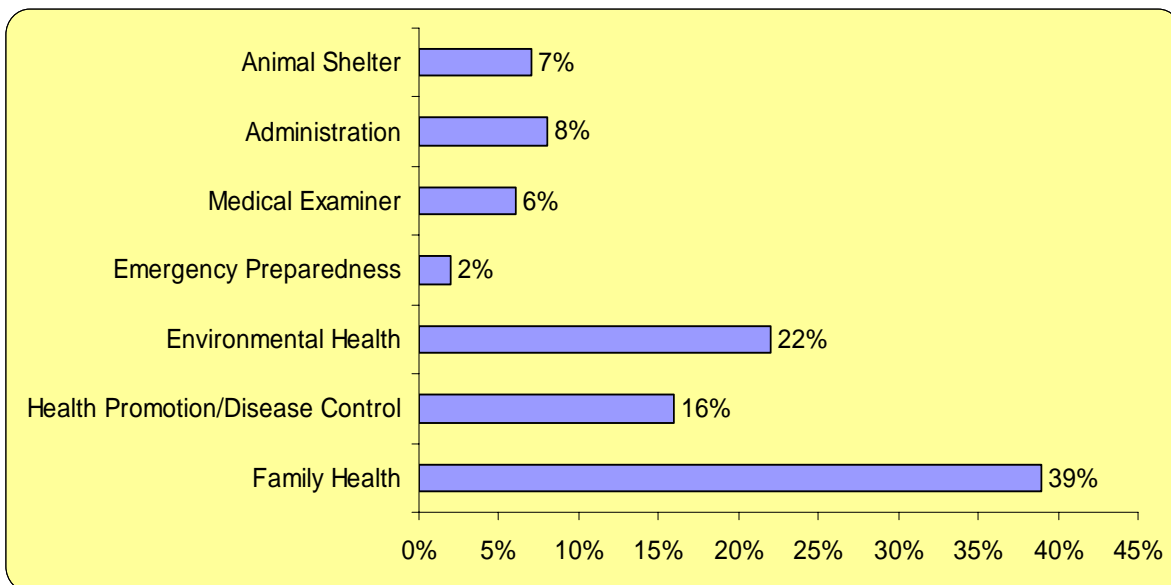
Total Revenues: \$24,338,206



2012

Expenditures by Category

Total Expenditures: \$24,338,206



VITAL STATISTICS

Vital records are a source of important health information noted at the time of birth and death by the attending medical providers.

Characteristics of the Mother or Infant, as a Percentage of Live Births, Macomb County and Michigan Residents				
	2010 Macomb	2011 Macomb	2010 Michigan	2011 Michigan
Total Live BIRTHS	9,112	9,052	114,717	114,159
Under 20 years old	5.8%	5.4%	9.5%	8.5%
Less than 12 years of education	10.1%	10.3%	15.4%	14.4%
Smoked while pregnant	14.8%	16.7%	17.7%	19.3%
Unmarried	33.6%	35.8%	42.1%	42.7%
Low birthweight	8.5%	8.7%	8.4%	8.4%
Very low birthweight	1.7%	1.6%	1.7%	1.6%

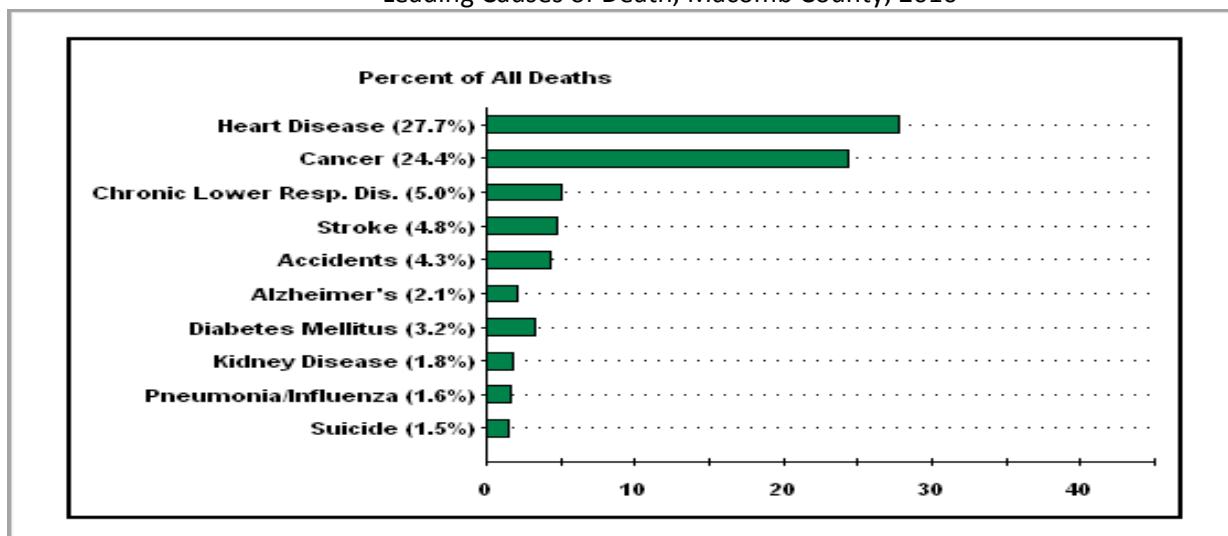
Source: Vital Records & Health Statistics, Michigan Department of Community Health.

DEATHS

There were 7,688 deaths in Macomb County during 2010*. 4,573 (or 59%) of those deaths were in residents aged 75 years and older. Persons 24 years of age and under accounted for 156 (or 2.0%) of all deaths. 57.1% of all deaths were attributed to the 3 leading causes of death: Heart Disease, Cancer, and Chronic Lower Respiratory Disease.

*2011 Death data not available at time of report.

Leading Causes of Death, Macomb County, 2010



DEMOGRAPHICS, Macomb County

Population size.....840,978
 Population density (people per square mile).....1,745

Age distribution

Under Age 18.....23.0%
 Age 65+.....14.3%

Race/Ethnicity

White.....83.9%
 Black/African American.....8.6%
 Asian/Pacific Islander.....3.0%
 Hispanic /Latino.....2.3%
 Other/Multi-Race.....2.0%
 American Indian.....0.3%

Language Other than English

Spoken.....13.3%

Source: US Census, 2010

HEALTH PROMOTION / DISEASE CONTROL DIVISION

<http://www.macombcountymi.gov/publichealth/HPDC/HPDC.htm>

The goal of the Health Promotion and Disease Control (HP/DC) Division is to reduce the occurrence and impact of communicable and non-communicable diseases on residents of Macomb County.

The HP/DC Division develops community-based health promotion activities and implements programs and policies to prevent and control both communicable and non-communicable (i.e. chronic) diseases in Macomb County.

HEALTH PROMOTION

PROGRAM OVERVIEW	CLIENTS SERVED	
	2011	2012
Breast & Cervical Cancer Screening	1,233	-
Cardiovascular Disease Risk Reduction Testing	8,106	5,480
Health Education Training	14,651	12,909
Children's Hearing & Vision Screening	94,958	97,888
Nutrition Education Training	7,273	6,670

Breast & Cervical Cancer Screening Program (BCCSP)

The Breast & Cervical Cancer Screening Program was eliminated effective 1 October 2011, and the services were transitioned to *My Care Health Center/Macomb Health Plan*, with effective date of 1 February 2012.

BCCSP Statistics	Aug. 1993- Sept. 1998	Oct. 1998- Sept. 2003	Oct. 2003- Sept. 2008	Oct. 2008- Dec. 2011	TOTAL
New Clients	827	1,152	1,588	1,861	5,428
Repeat Clients	422	1,039	1,544	1,373	4,378
Total Clients	1,249	2,191	3,132	3,234	9,806
Abnormal Pap Smear	13	27	37	31	108
LEEP & Colposcopy	48	83	117	82	330
Invasive Cervical Cancer	0	0	1	1	2
Breast Biopsy	81	104	189	244	618
Breast Cancer	19	23	37	55	134

Cardiovascular Disease (CVD) Risk Reduction Program

- ◆ Provides free cardiovascular disease risk assessment and screening services at community sites.
- ◆ Provides education and referral services for clients determined to be at-risk.
- ◆ Develops and provides exhibits and displays on cardiovascular disease risk reduction to increase community awareness.
- ◆ Provides school-based educational programs on heart disease risk reduction to children in preschool to Grade 5.

Cardiovascular Disease Risk Reduction Services	2011	2012
“Heart Health for Seniors” presentations	10	-
Senior participants	241	-
Community CVD risk factor screening	2,281	461
School-based Cardiovascular-related education	5,584	5,019

Health Education Program

- ◆ Develops and provides topical health information presentations and exhibits by certified health educators for community, school, worksite and professional groups.
- ◆ Leads the Macomb County Tobacco Prevention Coalition in its focus on preventing and reducing tobacco use and promoting clean indoor air.
- ◆ Spearheads the Healthy Kids/Healthy Futures Coalition in improving nutrition and physical activity opportunities for youth.
- ◆ Provides free child car seat inspections, child passenger safety presentations, and exhibits and displays.



Health information poster display

Health Education Services	2011	2012
Health Education for all residents	14,315	12,588
Health Education for School-aged Child	--	12,209
Child Car Seat inspections	336	321
Faulty Owner-installed Child Car seats	77.4%	78.7%

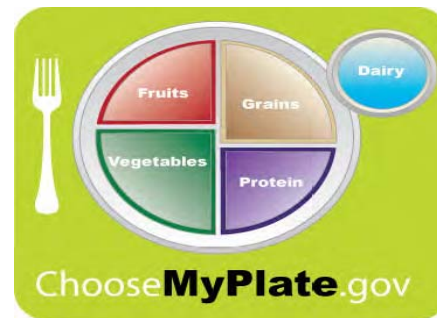
Children's Hearing & Vision Screening Program

- ◆ Provides school-based hearing and vision screening for preschool (age 3-5 yrs) and all school-aged children at pre-determined Grade levels.
- ◆ Provides referrals to Otology clinics and follow-up supervision for vision referrals for preschool and school-aged children who fail at the screening test.
- ◆ Delivers services at health centers, schools, daycare centers and other community sites.

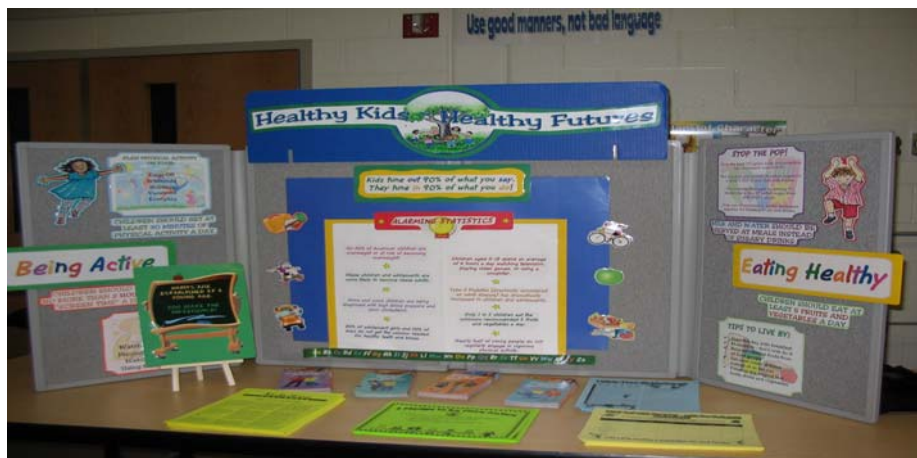
Hearing and Vision Screening Services	2011	2012
Hearing Screening services	38,550	35,257
Referrals for further Hearing evaluation	1,620	1,385
Otology clinic attendance	--	243
Vision Screening services	56,408	62,631
Referrals for further Vision evaluation	8,683	8,845

Nutrition Program

- ◆ Provides nutrition education, consultations and referral services to individuals, schools, health professionals (including other Health Department programs) and community groups.
- ◆ Designs and develops nutrition education materials and community resource guides, and works collaboratively to implement community nutrition events.
- ◆ Provides diabetes prevention, education and screening services.



Nutrition Services	2011	2012
Nutrition education clients served	7,273	6,670
Blood Glucose screening	--	768
My Plate promotional activities/services	--	1,876



HEALTHY KIDS HEALTHY FUTURES COALITION

www.healthykidshealthyfutures.com

The HKHF Coalition tackles the issue of childhood obesity in Macomb County by encouraging the practice of healthy habits and behaviors.

Coalition members include Arab Community Center for Economic & Social Services (ACCESS); Girl Scouts of Southeastern Michigan; Great Parents-Great Start; Henry Ford Macomb Hospital; Huron-Clinton MetroParks; L’Anse Creuse Public Schools; Head Start; Macomb Intermediate School District (MISD); Michigan State University Extension (MSUE); Oakland University; SpotPE, St. John – Clintondale; Warren Community Center; UEA Staywell.

- ◆ Maintained and updated the website that provides information to parents, community groups, schools, and concerned adults to promote healthy nutrition choices and physical activity behaviors among Macomb County children.
- ◆ Provided health promotional displays.
- ◆ Developed and distributed “*Out & About in Macomb*” booklets which provide a guide to fun activities for families.
- ◆ Sponsored “*Fun & Fitness Day*” 2011 and 2012 at Warren City Center where community members received free physical activity resources and healthy family nutrition information.

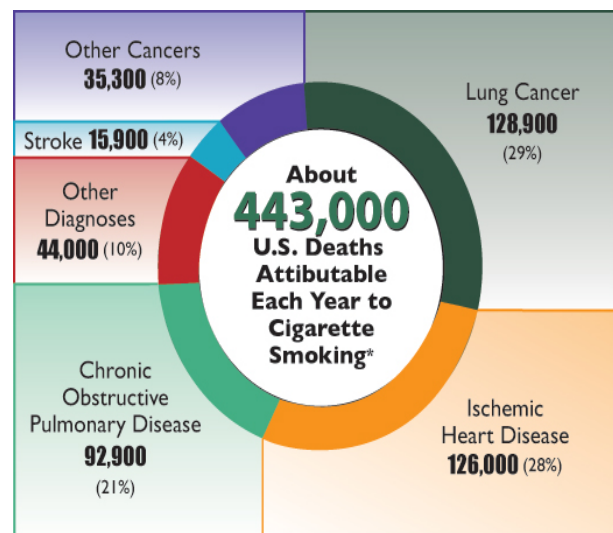
MACOMB COUNTY TOBACCO PREVENTION COALITION

www.macombtobaccoprevention.com

Macomb County Tobacco Prevention Coalition is a very active group of human service organizations under the leadership of the Macomb County Health Department. The goals of the Coalition are to:

- ◆ Educate young people about the dangers of using tobacco
- ◆ Encourage quitting smoking for all age groups
- ◆ Advocate for clean indoor air in all settings

The Coalition members include Beaumont Health Systems; McLaren Macomb Hospital; American Cancer Society; Southeastern Michigan Indians; Macomb County Office of Substance Abuse (MCOSA); Macomb County Community Mental health (CMH); Arab Community Center for Economic & Social Services (ACCESS); Macomb Family Services; Clintondale School Health Clinic; CARE of Southeastern Michigan.



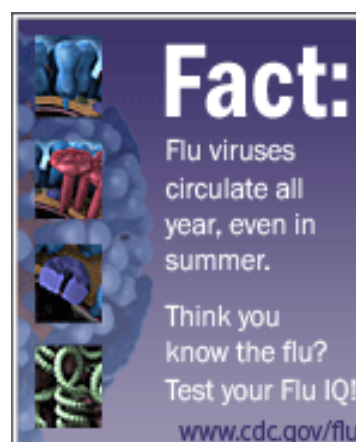
Centers for Disease Control and Prevention, Annual deaths attributable to cigarette smoking – United States, 2000-2004.

DISEASE CONTROL

PROGRAM OVERVIEW	SERVICES	
	2011	2012
Communicable Disease Investigations	1,489	1,596
HIV Counseling and Testing	1,424	892
Sexually Transmitted Disease (STD) Tests	8,110	4,824
Tuberculosis Control clients	82	106
School Immunization Assessments	47,784	48,503

Communicable Disease (CD) Program

- ◆ As mandated by the State Public Health Code, monitored the incidence of individual reported communicable diseases and outbreaks; investigated reportable communicable diseases, including food-borne illnesses; and reported communicable diseases to State public health authorities
- ◆ Provided prevention and control recommendations to contacts of communicable diseases; provided foreign travel health information and referral for vaccination or preventive measures; and disease information via CD Hotline: (586) 469 -5473.

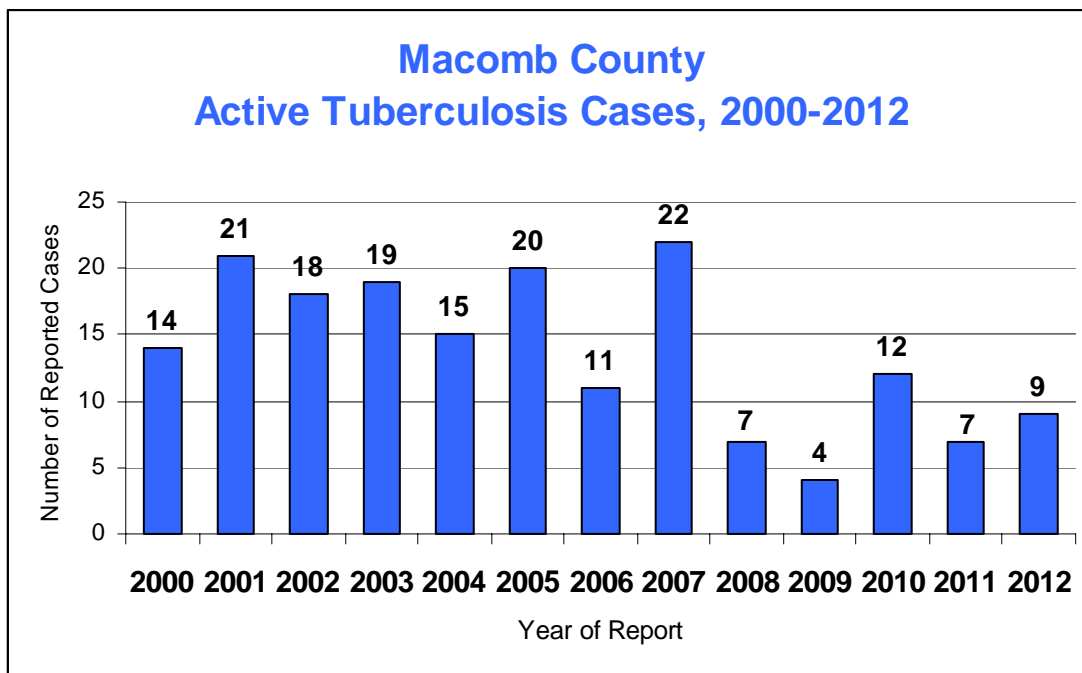


RANK	Leading Communicable Diseases			
	2011		2012	
1	Flu Like Disease	44,499	Flu Like Disease	36,167
2	Chlamydia (Genital)	1,941	Chlamydia (Genital)	2,380
3	Hepatitis C, Chronic	602	Hepatitis C, Chronic	597
4	Gonorrhea	496	Gonorrhea	526
5	Campylobacter	134	Hepatitis B, Chronic	151
6	Hepatitis B, Chronic	121	Campylobacter	116
7	Meningitis - Aseptic	74	Salmonellosis	91
8	Salmonellosis	71	Meningitis - Aseptic	75
9	Pertussis	62	Syphilis - All stages	58
10	Chickenpox (Varicella)	54	Chickenpox (Varicella)	45

Tuberculosis (TB) Control Program

The goal of the TB Control Program is to prevent the transmission of TB and stop Latent TB infection from progressing to active TB disease. To decrease the spread of TB, the program:

- ◆ Provided diagnosis, treatment, case management and clinical consultation services for individuals latently infected or actively ill with Tuberculosis, including provision of Directly Observed Therapy (DOT) for eligible individuals.
- ◆ Conducted surveillance and reporting of active Tuberculosis cases to the State; and ensured contact investigation for persons exposed to an active case of Tuberculosis.



School Immunization Program

In order to ensure a high level of immunity and minimize the potential spread of vaccine-preventable disease in childcare and school populations, the School Immunization Program:

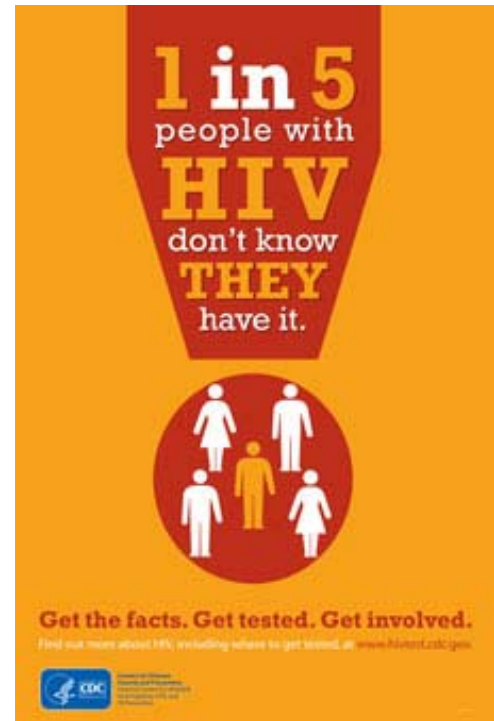
- ◆ Enforced mandated requirement for student immunization coverage (of at least 95% for all schools, pre-schools, childcare and Head Start programs) and reported immunization rates to the State using the Michigan Care Improvement Registry – School Immunization System (MCIR-SIRS); advised schools in enforcement of exclusion of all under-immunized children in school, preschool and childcare.

School Immunization Program Services	2011	2012
School Assessments	34,983	35,772
School Immunization Coverage	91%	91%
Childcare Assessments	12,801	12,731
Childcare Immunization Coverage	87%	86%

HIV [AIDS] Counseling & Testing

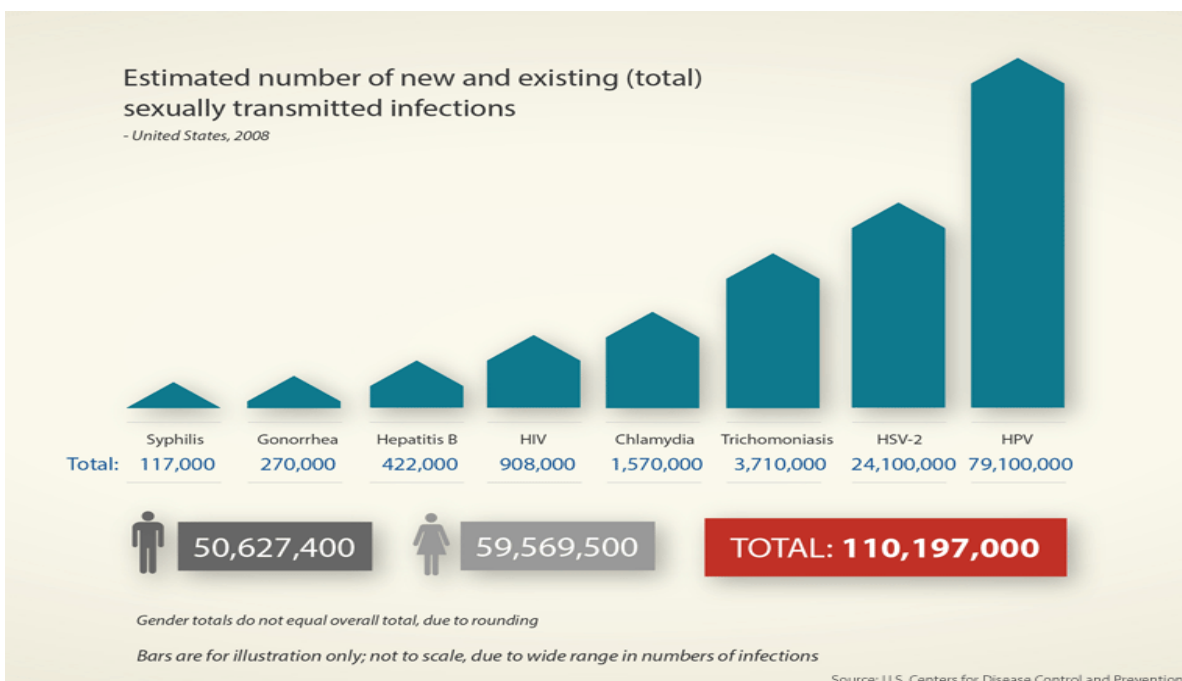
- ◆ Provided anonymous and confidential HIV counseling and testing in the STD/HIV Clinic.
- ◆ Reported HIV cases to the State; received HIV case reports on Macomb County residents, and initiated investigation of cases.
- ◆ Provided partner counseling and referral services and provided referrals for HIV case management and other community services/resources.

HIV and STD Services	2011	2012
Clinic Attendance	3,131	1,860
School & Community Education	1,353	0



Sexually Transmitted Disease (STD) Control

- ◆ Provided confidential diagnosis and treatment of certain sexually transmitted diseases at two Health Center locations with day, afternoon and evening hours.
- ◆ Provided school-based group educational services.
- ◆ Provided surveillance of reportable STD cases to the State.



U.S. Centers for Disease Control and Prevention, 2008

FAMILY HEALTH SERVICES DIVISION

http://www.macombcountymi.gov/publichealth/ClinicServices/fhs_FamilyHealthServices.htm

The Family Health Services Division offers a wide variety of programs to promote wellness and provide health information for early detection, evaluation and referral services.

Women, Infants & Children (WIC) Nutrition Program

The Special Supplemental Nutrition Program for Women, Infants, and Children is a United States Department of Agriculture grant funded program for supplemental foods, health care referrals, and nutrition education for low-income pregnant, breastfeeding, and non-breastfeeding postpartum women, and to infants and children up to age five. WIC provides nutrition assessment, education and counseling; breastfeeding promotion and support; and supplemental food package benefits. The WIC program benefits provide nutritious foods such as milk, eggs, whole grain breads and cereals, 100% juice, and fruits and vegetables.

During 2011/2012, there were an average of 10,000 women and children in Macomb County who received WIC benefits each month from the Macomb County Health Department.

2011 WIC Activities

- ◆ Combined the WIC Breastfeeding Peer Counseling program with on-going breastfeeding promotion efforts to increase breastfeeding rates among WIC participants, which are significantly lower than the general population. [Every Ounce Counts](#) breastfeeding classes were offered to pregnant women interested in learning more about breastfeeding. A Facebook page, [WIC Breastfeeding Support](#), was created.
- ◆ Developed and implemented a new series of classes for WIC families with children at risk for obesity. The series, [WIC Healthy Fit](#), runs 3 months in a row, one class per month. Each class offers an opportunity for the children to engage in active play while the parents participate in food demonstrations and engage in discussions about healthy meals and snacks. The series has since been adopted by the Michigan Department of Community Health and is available for WIC programs across Michigan to use.
- ◆ Participated in [Project Fresh](#), a joint effort between the Michigan Department of Community Health, WIC Program and Michigan State University Extension. WIC families were issued special vouchers for Michigan-grown fruits and vegetables that are redeemed at the Mt. Clemens Farmer's Market, as well as other local farm outlets.

2012 WIC Activities

- ◆ Expanded the WIC Breastfeeding Peer Counseling program with the addition of a third peer counselor. The long-range vision is to institutionalize peer counseling as a core service in WIC. [Every Ounce Counts](#) breastfeeding classes continued to be offered.
- ◆ Spearheaded the formation of the [Macomb County Breastfeeding Coalition](#), a county-wide effort to bring together professional, paraprofessional and citizen representatives who share the desire to increase breastfeeding awareness and support in Macomb County.

- ◆ Collaborated with the Arab Community Center for Economic & Social Services (ACCESS) to provide WIC services at the ACCESS facility in Sterling Heights. The subcontract through ACCESS provided WIC services to over 1,000 Arabic-speaking participants residing in Macomb County, including refugees and recent immigrants.
- ◆ Continued to utilize technology for delivering nutrition education to participants. Over 6,900 participants

elected to complete their nutrition education component using the internet website www.WIChealth.org. This initiative helped to by-pass a visit to the WIC office, streamlined services, saved time and resources for WIC families, and freed up WIC staff time, which allowed the program to increase enrollment. Over half of all Macomb County WIC participants now elect to use the internet method for nutrition education.

WIC Program Services	2011	2012
Value of Project Fresh vouchers	\$16,000	\$15,990
Nutrition Care Plan participants	819	866
Iron-deficiency anemia screenings	11,975	12,740
Value of WIC supplemental food benefits redeemed	\$7,050,156	\$7,889,755
Average monthly food benefit per person	\$44.94	\$43.12
WIC program enrollments	20,330	22,866
New pregnant women	1,639	1,889
New breastfeeding women	339	315
New infants	3,628	4,092
Age <5 yr Health evaluation and nutrition education	12,536	13,828
Infant Health evaluation and nutrition education	2,187	2,196

Family Planning Program

The Family Planning Program is a Title X, federally funded program serving women and men for reproductive health care.

- ◆ Provides reproductive education, select sexually transmitted disease testing and treatment, pelvic exams, Pap smears, pregnancy testing, and contraceptives at reduced cost.
- ◆ Encourages low-income females between 19 and 44 years of age to apply for the [Plan First!](#) program, which is administered by the State of Michigan. This program covers the cost of pelvic exams, Pap smears, and birth control for eligible females, thereby increasing access to vital reproductive health care. Applications for Plan First! are available in our Family Planning clinics with staff providing assistance in completion and submission.
- ◆ Two full-time Nurse Practitioners and one part-time Gynecologist perform exams while providing direction to clients on how to proceed with their health care, including medical referrals when needed.

Family Planning Services	2011	2012
Clients	2,934	2,894
Pap Smears	1,752	1,340
Abnormal Pap Smears	398	341
Pregnancy Tests	1,294	1,503
Medical Referrals	519	518
Clients on Plan First!	1,271	1,351

Children's Special Health Care Services (CSHCS)

The CSHCS program assists children in Macomb County with qualifying medical conditions (e.g., birth defects, cancer, cerebral palsy, diabetes/insulin dependent, eye/hearing conditions, and other special needs) and their families, to meet their specific health care needs.

- ◆ Children receive an array of services for medical, hospitalization, hospice, pharmacy, diagnostic, private duty nursing, and specialty equipment/ramp services.
- ◆ CSHCS staff provides Case Management and Care Coordination services through home visiting and telephone contact.

CSHCS SERVICE	FY 2010-11	FY-2011-12
Number of Enrollees	2,072	2,042
Coordination of Care Support Services	238	632
Case Management Services	23	110
State Funding and Billings	\$ 252,480	\$ 282,580

MIChild/ Healthy Kids Program

The MIChild/Healthy Kids program provides low-income Macomb County children and pregnant women with medical insurance through public health outreach and case finding efforts, providing them with a medical home and access to quality well child care, immunizations, screening tests, and sick care supervision. There is a continued high demand for assistance with follow-up after applications reach the Department of Human Services. This high demand uses an e-mail process between Macomb County Health Department staff and the Department of Human Services staff that allows cases with extenuating circumstances, like illness of a newborn or delivery prior to reaching eligibility, to be processed more quickly, thus assuring access to needed medical care.

MIChild/ Healthy Kids Program	2011	2012
Total MIChild/ Healthy Kids Health Insurance Enrollments	1,469	1,486
Enrollment of Pregnant Women	1,021	984

Dental Health Program

The Dental Program, located in our Southwest Health Center, provides oral health services to many eligible adults and children of Macomb County who have Medicaid or lack insurance, and meet income based eligibility criteria. For individuals who are un-insured, fees are based on the Medicaid reimbursement rates and are significantly lower than private practice fees.

The Dental Program provides high quality basic comprehensive dental services including oral exams, cleanings, x-rays, fillings, fluoride treatments, sealants, crowns and dentures.

In an effort to improve access to dental care for low income children, the Health Department Dental Clinic collaborates with Head Start to provide “Head Start Days”. Twice per year, for two days, the Dental Clinic schedules appointments only for children that are enrolled in Head Start. To reduce barriers and ease the enrollment process, the Head Start staff assists with making these appointments and is on-site during the dental visits.

Dental Services	2011	2012
Total Services Performed	7,031	7,738
Total Client Visits	2,560	2,475
Total Medicaid Visits	1,273	1,331
Total Self-pay Visits	1,287	1,144
Encounters 18 years and younger	491	483
Encounters 19 years and older	2,069	1,992

Fetal-Infant Mortality Review (FIMR) Program

The Macomb County Health Department FIMR Case Review Team (CRT) is comprised of a broad range of providers representing public health, healthcare systems, social service agencies, education, and other community experts. The task of the FIMR Case Review Team is to evaluate and discuss medical and psychosocial issues surrounding a family’s journey from pregnancy to the death of their infant. Significant systems issues are identified and recommendations for improvement in delivery of services are developed.

Case Reviews	2011	2012
Infant mortality cases abstracted and reviewed by the CRT	23	22

Public Health Nursing

The goal of public health nursing services is to improve, promote, and protect the health status of residents through health screening, assessment, anticipatory guidance, education and referral as needed. Services are delivered in homes, schools, clinics, and community outreach sites.

- ◆ The [Maternal Child Health Field Nursing](#) program is comprised of highly trained Public Health Nurses (PHNs) who have extensive education and experience in assessing infants, children and their families within the community setting.
- ◆ The Macomb County Health Department collaborates with the Macomb Intermediate School District's [Early On](#) program to provide home visits and service coordination to families with infants who are at risk for a developmental delay.
- ◆ [Childhood Lead Case Management](#). Lead poisoning can occur when lead builds up within the body. Even small amounts of lead can cause serious health problems. Children under the age of 6 are especially vulnerable to lead poisoning, which can seriously affect mental and physical development.
- ◆ The [Safe Sleep](#) campaign promotes safe sleep positions to reduce the incidence of infant deaths in Macomb County. Safe Sleep brochures were mailed to all new parents and community educational presentations.
- ◆ [Newborn hearing screening](#) can find possible hearing loss in the first few days of a baby's life. If a hearing loss is found early, intervention can begin to prevent a possible speech and language deficit in the future. Nurses assist Macomb County families in obtaining repeat hearing testing for their newborns who have failed their initial newborn hearing screen.
- ◆ Through a partnership with the Macomb Intermediate School District, MSU Extension and Great Parents Great Start Macomb, the Macomb County Health Department provides educational and informational materials, including the [All-Ways Growing](#) baby book.



PHN Activities	2011	2012
Maternal Child Health Referrals	850	865
Early On Evaluations	128	189
Lead Case Management	28	41
Newborn Hearing Screening Referrals	103	130

Immunization Program

Vaccines have reduced or eliminated many infectious diseases that once routinely killed or harmed many infants, children, and adults. However, the viruses and bacteria that cause vaccine-preventable disease and death still exist and can be passed on to people who are not protected by vaccines. Vaccine-preventable diseases have many social and economic costs: sick children miss school and parents lose time from work. These diseases also result in doctor’s visits, hospitalizations, and even premature death.

Children under 5 are especially susceptible to disease because their immune systems have not built up the necessary defenses to fight infection. By immunizing on time (by age 2), parents can protect their children from disease and also protect others at schools or daycares.

It is also important for adults to continue getting immunized. Some adults incorrectly assume that the vaccines they received as children will protect them for the rest of their lives. Pertussis (whooping cough) is very contagious and can cause serious illness — especially in infants who are too young to be fully vaccinated. Vaccination of pre-teens, teens, and adults with Tdap is especially important for families with new infants, to help protect those infants from Whooping Cough.

In 2011 and 2012, the Immunization Program served an average of 28,000 residents by administering protective doses against vaccine-preventable diseases.

Immunization Activities	2011	2012
Vaccines administered to children	45,945	36,831
Vaccines administered to adults	9,468	9,594
Seasonal flu vaccines to children	6,093	5,863
Seasonal flu vaccines to adults	9,684	8,479
Total Vaccines Administered	71,190	60,767



ENVIRONMENTAL HEALTH DIVISION

<http://www.macombcountymi.gov/publichealth/EH/EHPrograms.htm>

The Environmental Health Division is responsible for regulation and monitoring of county-wide facilities and properties to protect and promote community health and safety, by regularly conducting inspections, investigations, and enforcement actions in accordance with state regulations and municipal ordinances. The Division annually provides more than 80,000 services for the community.

Food Service Sanitation Program

- ◆ Regularly conducts inspections at all licensed food service establishments to ensure that food preparation is conducted in a safe and sanitary manner in compliance with FDA Food Code requirements. Inspections cover over 2,300 food service facilities such as restaurants, coffee shops, school cafeterias, and banquet halls which serve millions of meals each year.
- ◆ Provides new construction and remodeling plan review, investigation of foodborne illness complaints, and inspection of all temporary concession stands/food vendors.

Food Program Activities	2011	2012
Licensed Food Service Establishment	2,360	2,375
Routine inspections conducted	4,243	4,251
Re-inspections conducted	1,172	1,171
Temporary Food Establishment inspections	274	243
Plan Reviews	124	125
Complaints Investigated	270	302
Foodborne Outbreaks Investigated	0	4



Food establishment inspection

Public Swimming Pool Program

- ◆ Performs yearly inspections of all licensed public swimming pools and spas in the county. Inspections address the condition of the pool structure, the enclosure area, water filtering and disinfection equipment, and safety equipment.
- ◆ Monitors pool water quality weekly by reviewing commercial laboratory results provided by pool owners.

Pool Inspections	2011	2012
Routine/Seasonal inspections conducted	341	334
Re-inspections conducted	98	101

Body Art Establishment Regulation

- ◆ All body art facilities are required to be inspected at least annually to prevent the transmission of illness, to establish controls that will meet consumer expectations and to provide for the assurance of safe body art practices.
- ◆ Body art establishments include tattoo and permanent cosmetic facilities.

Inspections	2011	2012
Annual inspections conducted	32	37

Surface Water Improvement & Monitoring Team (SWIM)

- ◆ Conducts illicit discharge investigations at commercial, industrial and institutional facilities.

SWIM Activity	2011	2012
Investigations Initiated	158	64
Cases Referred to Prosecutor's Office	2	0
Investigations Resolved	87	57

Environmental Management and Risk Assessment Program (EMRAP)

- ◆ Addresses public health and environmental concerns associated with the transportation, use, storage and disposal of hazardous materials generated in our homes, garden, communities and industrial settings.
- ◆ Staff members interact with local, state and federal agencies to positively affect the outcome of spills, releases and illegal dumping of hazardous materials.
- ◆ Conducts [Household Hazardous Waste and Clean Sweep Pesticide Collections](#) at locations throughout the county to remove and dispose of unwanted, unused and banned chemicals in an environmentally safe and effective manner.

Household Hazardous Waste Collection	2011	2012
Number of Residents served	3,772	4,238
Pounds of hazardous waste	188,274	223,788
Average pounds per car delivered	49.9	52.8

Onsite Sewage Disposal and Onsite Water Supply Programs

- ◆ Ensures water supplies (wells) and sewage disposal systems are adequately installed and maintained by residents who do not have access to municipal water and /or sewer services.
- ◆ Onsite sewage and water supply systems are also required to be evaluated for adequate functionality at the time of property transfer to another owner.

Inspection Services	2011	2012
Septic System Permits Issued	241	226
Well Permits Issued	84	99
Septic System Evaluations for Property Transfer	470	513
Water Supply Evaluations for Property Transfer	201	223



EMRAP collection site

Animal Shelter

- ◆ Ensures the safety of Macomb County residents with regard to animal related issues, while providing appropriate and humane treatment of the animals.
- ◆ Adopts a no-kill philosophy and makes every effort to promote pet adoptions of healthy, non-aggressive animals by the general public and by approved animal rescue organizations. All dogs and cats are spayed or neutered prior to adoption to reduce the number of homeless pets.
- ◆ Animal placement services include Adopt-a-Pet Services, approved animal rescue leagues and donation of dogs to various service organizations including Leader Dogs, Paws with a Cause, and the U.S. Customs Service.
- ◆ Provides a wide range of services including adoptions, shelter for lost or unwanted animals, animal cruelty investigations, enforcement of State dog laws, dog licensing, animal bite reports, and quarantine follow-up, rescue services for wild and domestic animals, removal of deceased animals from roadways, and placement services for exotic animals.

Canine -Received/Admitted	2,560	2,122
Returned to Owner	612	573
Adopted	730	756
Feline - Received/Admitted	4,770	3,452
Returned to Owner	76	58
Adopted	420	511
Ferret - Received/Admitted	7	10
Returned to Owner	1	0
Adopted	4	8

MACOMB COUNTY MEDICAL EXAMINER'S OFFICE

<http://www.macombgov.org/publichealth/Medical-Examiner/medicalexaminer.htm>



The Medical Examiner's Office (ME) investigates accidental, homicidal, suicidal, and sudden unexpected deaths which occur in the county. The investigation includes an examination of the scene, autopsy when necessary, to determine the cause and manner of death and issuance of death certificates for these cases.

- ◆ Supports the efforts of the [Gift of Life Organ and Tissue Procurement Agency](#) and the [Michigan Eye Bank](#), and in 2011, entered into a collaborative agreement with these organizations. As part of the agreement, the ME staff evaluates and reports deaths that may meet donor criteria. In 2012, there were 307 referrals to Gift of Life, which resulted in 11 tissue donors, and 81 referrals to the Michigan Eye Bank, which resulted in 18 procurements.
- ◆ For more information on the ME's Office, please visit their website and see their annual report.

Medical Examiner's Office	2011	2012
ME Deaths Investigated	1,789	1,930
Forensic Examinations	625	572
Cremation Permits	3,278	3,362
Home Hospice Deaths Reported	1,726	1,856

EMERGENCY PUBLIC HEALTH PREPAREDNESS PROGRAM

<http://macombgov.org/publichealth/EPP/EmergencyPreparednessProgram.htm>

Macomb County Health Department was excited to participate in the [Cities Readiness Initiative \(CRI\) "Made in Detroit" Exercise](#) on May 2011. The Detroit CRI encompasses seven jurisdictions including the City of Detroit, St. Clair County, Oakland County, Wayne County, Livingston County, Lapeer County, and Macomb County. The exercise was fast paced and required many decisions in a very short period of time. The objectives of the exercise tested each local health department's capability to participate in the established structure identified through conference call protocols, to share information internally and externally, to justify a Strategic National Stockpile (SNS) request, and to effectively communicate/collaborate a coordinated response with all jurisdictions and Macomb County partners.

Macomb County Emergency Public Health Preparedness Program continues to boost its response to a public health emergency by setting up mobile storage units that would reduce response time by providing pre-deployed resources throughout Macomb. These portable storage units hold key response equipment that would be used to dispense medication and allow a rapid response to a public health emergency where every hour is crucial.



The 2011 Emergency Public Health Preparedness Program in Macomb County provided staff with several training opportunities.

- ◆ Emergency Coordinating Team (ECT) – monthly training meetings were held demonstrating several topics of information and training. For example staff received training on how to use 800 MHz radios which would be used in an emergency. They also practiced activating the Continuity of Operations plan which ensures that the Macomb County Health Department can maintain essential services during an emergency.
- ◆ Distribution Node training included both Environmental Health personnel and Facilities and Operations personnel.
- ◆ Training for staff and volunteers to run a mass vaccination site.

2011 was the second year of [Macomb County Health Department's Medical Reserve Corp \(MRC\)](#) team, which continues to be one of the strongest MRC program in the State of Michigan. The team welcomed 24 new volunteers to the team and had over 329 hours of training from the volunteers.



Lotsa Helping Hands

The team also launched its new website, [Lotsa Helping Hands](#). This website is designed to be a 24-hour resource tool for our community and our volunteers in emergency response planning and training. This site allows volunteers to have a community board to share volunteer information and also utilize an online calendar to keep volunteers engaged with activities.

In March 2012, CDC published new Preparedness Capabilities guidance for state and local agencies. The 15 capabilities and their 114 priority elements provide the first ever comprehensive roadmap for public health preparedness programs nationwide. Using these capabilities, Macomb County Emergency Preparedness Program (EPP) performed an assessment of its current preparedness status. The gaps that were identified are being used to prioritize strategic investments for the next four years. This was an important step to align MCHD emergency preparedness with Macomb County Emergency Management and continue the strong partnership that these two departments have.



In July, MCHD built upon last year's exercise by participating in the [2012 CRI Functional Exercise](#) that was based upon a terrorist group releasing Anthrax at a fireworks display after a Detroit Tigers game. This was a multiple day exercise that utilized staff and volunteers to receive mock medication from CDC and then distribute out to patients who would have potentially be exposed to the bioterrorism agent.

This exercise also tested the ability for the Southeast Michigan region to work together to develop consistent messages that would be released to Macomb County partners and communities. The seven local health jurisdictions also had to share information with each other to create a coordinated plan for responding to a large scale disaster.



[Macomb County Health Department Medical Reserve Corp](#) team welcomed 28 new volunteers and has grown to over 175 volunteers. In 2012, the MRC saw a 200% increase in volunteer participation hours (over 750 hours) compared to 2011. Volunteers with the Macomb County Health Department Medical Reserve Corps (MCHD-MRC) have the opportunity to train with health department staff throughout the year to better serve Macomb County residents during a public health emergency. Volunteers learn emergency process and protocol through hands-on events, exercises and classroom training. MCHD-MRC volunteers who participate in training events are essential to providing services to the public and will have the opportunity to become a leader alongside health department staff during public health emergencies. Volunteer candidates must submit an application, pass a background check, and complete an orientation module before becoming a member of the team. To learn more about the MCHD-MRC or to obtain an application, please contact MCHD_MRC@macombgov.org.

The MRC team was also very excited to launch their Facebook, Twitter, and LinkedIn page to help volunteers stay connected with all the activities the team is doing. We encourage everyone to like us and follow us!

[Medical Reserve Corp Team](#)



HEALTH DEPARTMENT LOCATIONS



Central Health Service Center
43525 Elizabeth Road
Mount Clemens, MI 48043
(586) 469-5235



Southeast Health Center
25401 Harper Avenue
St. Clair Shores, MI 48081
(586) 466-6800



Southwest Health Center
27690 Van Dyke
Warren, MI 48093
(586) 465-8090



Verkuilen Building
21885 Dunham Road
Clinton Township, MI 48036
(586) 469-5471



Macomb County Animal Shelter
21417 Dunham Rd
Clinton Township, MI 48036
(586) 469-5115

For information on the services offered at each location, please visit our website at www.macombgov.org/publichealth or call us at (586) 469-5235 Monday – Friday, 8:30 AM – 5:00 PM

