



Public Health
Prevent. Promote. Protect.

**Mahoning County
District Board of Health**



2016 ANNUAL REPORT



FROM THE HEALTH COMMISSIONER

Patricia McGovern Sweeney, JD, MPH, RN



Very often, I receive questions from the public asking what exactly public health does. Most know of our role in restaurant inspections and public health nuisance abatement, but few understand the true scope of local public health department responsibilities. In a nutshell, I tell them that we promote and protect the public's health and work to ensure conditions in which all people can live healthy lives, but what does that really mean?

In 1994, the Public Health Functions Working Group, convened by the U.S. Department of Health and Human Services, identified 10 essential services that form the foundation of the nation's public health strategy to prevent disease, and promote and protect the public's health.

Twenty-three years later, these Ten Essential Services continue to be the bedrock for the services provided by public health. This is what public health does! This is what the Mahoning County District Board of Health does! Throughout this report, readers will see examples demonstrating how MCDBOH provides these essential services for the residents of Mahoning County every day.



Respectfully,

Patricia McGovern Sweeney, JD, MPH, RN
Health Commissioner

ESSENTIAL SERVICE: Develop policies and plans that support individual and community health efforts



Since 2014, the Mahoning County District Board of Health has been a nationally accredited local health department by the Public Health Accreditation Board (PHAB). This accreditation demonstrates that MCDBOH has established and adheres to policies and plans that yield high quality, effective public health services. Since initial accreditation, MCDBOH submits annual reports to PHAB to demonstrate the department's continued commitment to a culture of quality improvement and performance management. This year the PHAB annual report review team commended the MCDBOH stating " MCDBOH is exemplary in the development and implementation of QI and performance management. In addition there seems to be outstanding work around health equity and other critical cross cutting issues. The identification and focus on opioid deaths is another example of MCDBOH addressing a key issue. MCDBOH works well across program and administrative functions."

The Mahoning County District Board of Health governing body consists of a District Advisory Council, a Licensing Council, and members of the Board of Health. This body has over 150 collective years of experience establishing and monitoring sound public health practice and fiscal policies that support the work of MCDBOH.

2016 DISTRICT ADVISORY COUNCIL

David Mannon, Chair
Jodi Kale, Secretary

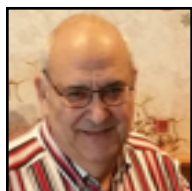
2016 LICENSING COUNCIL MEMBERS

John Kotchmar Mike Heher Bev Fisher
Tony Olin Tom Grantonic

2016 MAHONING COUNTY DISTRICT BOARD OF HEALTH (MCDBOH) MEMBERS



Mr. Don Somers, 2016 MCDBOH President, has served on the Board since 1996. Holding a BS in Biology and Environmental Health Sciences from Bowling Green State University, Mr. Somers worked in the public health field for over 35 years. He is currently President of Management Recruiters of Youngstown, an executive recruiting firm.



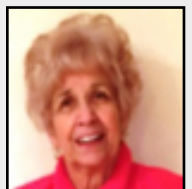
Mr. Len Perry has worked in the environmental health and safety profession for over 40 years. He earned a BS in Biology from Youngstown State University and a MPH from A.T. Still University School of Health Management. Mr. Perry is a Registered Sanitarian, a Registered Environmental Health Specialist and is Certified in Public Health. Mr. Perry is a 33 year member of the MCDBOH.



Since 2002, **Mrs. Bev Fisher, CFE** has served as the licensing council member of MCDBOH as the campground representative. Professionally, Mrs. Fisher joined the Canfield Fair Administration in 1990 and was named the first ever Canfield Fair Manager in 1995. Her many awards include Ohio Fair Manager and District Director of the year.

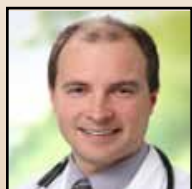


Lisa Weiss, MD, M.ED, FAAFP, served MCDBOH as the physician member from 2008-2016. Dr. Weiss is the Associate Dean of Curriculum and an associate professor of family and community medicine at NEOMED. A graduate of the University of Kentucky Chandler College of Med., she completed a residency in family medicine and a fellowship in academic medicine. Dr. Weiss is a family physician at Summa Health NEOMED.



After 20 years of service to the MCDBOH, **Mrs. Margot Baird, RNBS** resigned her position in December 2016. Serving from 1996 - 2016, Mrs. Baird was the first nurse to hold the position of President of the Board of Health. Professionally, for 14 years, Mrs. Baird worked as the school nurse for the Western Reserve Local Schools in Berlin Center and is currently engaged in the family business, Baird Brothers Fine Hardwoods.

MCDBOH Medical Director



In February 2016, **James F. Kravec, M.D., F.A.C.P.** became the Medical Director of MCDBOH. Dr. Kravec also serves as the executive vice-president and regional chief clinical officer of Mercy Health, Youngstown. A Youngstown native, Dr. Kravec graduated from YSU, earned his medical degree from Northeast Ohio Medical University (NEOMED) and completed his residency in internal medicine at

Summa Health Akron City Hospital. Dr. Kravec is board certified in both internal medicine and hospice and palliative medicine. He actively practices internal medicine in the Ambulatory Care Center and is a faculty member of the internal medicine residency at St. Elizabeth Youngstown Hospital.

MAHONING COUNTY DISTRICT BOARD OF HEALTH-2016 FINANCIAL STATEMENT

REVENUES

LOCAL REVENUES

Environmental Health License, Registration and Permit Fees	\$1,406,006
Local Taxes: Inside Millage and Tuberculosis Levy	1,068,602
Laboratory Services Fees	303,499
Contracts with Governmental Agencies/Non-profits	229,422
Insurance Reimbursements	229,034
Rental Income	52,994
Personal Health Services Patient Paid Fees	43,037
Miscellaneous Revenues (Donations, Sale of Assets)	8,495

SUB-TOTAL LOCAL REVENUES \$3,341,089

STATE AND FEDERAL REVENUES

Ohio Department of Health Funded Grants/Projects	
State Funded Dollars Include:	\$206,097
Child and Family Health Services Block Grant	
Ohio Smoke Free Workplace Funds	
Federal Funded Dollars Include:	1,478,266
Child and Family Health Services Block Grant	
Immunization Action Plan Grant	
Public Health Infrastructure Grant	
WIC Program	
Medicaid/Medicare Reimbursement for Services	216,428
Other State and Federal Dollars Include:	661,689
MY Baby's 1st - Ohio Department of Medicaid	
HUB Grant - Ohio Commission on Minority Health	
Mosquito Control Grant - Ohio EPA	
Medical Reserve Corps Grant - NACCHO	
Lead Abatement Grant - HUD	

State Subsidies 61,579

SUB-TOTAL STATE AND FEDERAL REVENUES \$2,624,054

TOTAL REVENUES \$5,965,148

EXPENDITURES

	FED/STATE	LOCAL	TOTALS
Personal Health Services	\$2,168,776	\$779,118	\$2,947,894
Environmental Health Services	41,072	1,643,149	1,684,221
Laboratory Services		401,824	401,824
Administrative & Support Services	61,579	482,706	544,285

TOTAL EXPENDITURES.....\$2,271,427.....\$3,306,797...\$5,578,224

THIS IS AN UNAUDITED FINANCIAL STATEMENT

ESSENTIAL SERVICE: Monitor health status to identify and solve community health problems

MCDBOH provides 24/7/365 disease and injury surveillance and monitoring and operates the Mahoning County Tuberculosis clinic. In 2016, MCDBOH epidemiologists and public health nurses investigated reports of 1,190 cases of infectious disease. Follow-up investigations include report verification, case investigation, contact tracing, direct observed therapy and counseling regarding treatment, testing, prophylaxis and quarantine or isolation as indicated.

MAHONING COUNTY COMMUNICABLE DISEASES TOTAL

Mahoning County townships, villages, and cities of Canfield, Campbell and Struthers (does not include Youngstown City)

DISEASE	2015	2016
Infant Botulism	1	0
Campylobacteriosis	10	12
Chlamydia Infection	416	489
Cryptosporidium	1	6
Coccidioidomycosis	0	0
Cytomegalovirus-congenital (CMV)	0	0
E. coli (non O157) shiga toxin	4	3
Ehrlichiosis	1	0
Giardia	7	4
Gonococcal Infection	108	148
Haemophilus Influenza	3	3
Hepatitis A	0	0
Hepatitis B Acute	1	3
Hepatitis B Chronic	26	29
Hepatitis C Chronic	210	196
Influenza-associated hospitalizations	96	152
Influenza, Pediatric Mortality	0	0
LaCrosse Encephalitis	0	1
Legionella	11	8
Listeria	0	0

DISEASE	2015	2016
Lyme Disease	17	18
Meningitis-Aseptic/Viral	9	6
Meningitis-Bacterial (Other)	1	1
Meningococcal Disease (N. Mening)	0	1
Mumps (suspected)	2	0
Mycobacterial disease-other than TB	14	9
Pertussis	51	20
Q-fever	3	0
Rocky Mountain Spotted Fever	0	3
Salmonella	17	20
Shigella	5	2
Streptococcal-Group A-invasive	4	1
Streptococcal-Group B-Newborn	0	0
Streptococcal Pneumoniae	0	20
Tuberculosis	2	1
Varicella	7	14
West Nile Virus	1	0
Yersinia	1	1
Zika Virus	0	1

MAHONING COUNTY TUBERCULOSIS PROGRAM DATA 2016

Client contacts	2,472
TB skin tests administered	1,483
Laboratory samples obtained	118
Active TB cases	3
Active TB cases discharged from clinical care	2
Clients evaluated and started on LTBI* treatment	16
LTBI cases discharged from clinical care	15
Out of office visits, including skin tests and medication administration	392

*LTBI – Latent TB Infection

LEADING CAUSES OF DEATH, 2015

Average Age-Adjusted Death Rates per 100,000

Cause of Death	Mahoning County		Ohio	
	Number	Rate	Number	Rate
Heart Disease	897	234.4	28,027	191.4
Cancer	579	168.8	25,368	174.9
Chronic Lower Respiratory Disease	152	40.6	7,197	49.5
Unintentional Injuries	135	54.8	6,735	55.8
Stroke	146	38.0	5,930	40.6
Alzheimer's Disease	140	33.9	4,642	31.1

Ohio Department of Health, Bureau of Vital Statistics

Annual Birth Data, Mahoning County	2010	2011	2012	2013	2014	2015	2016*
Very LBW (<1500gm) (<3.3 lbs.)	49	41	38	39	48	33	28
LBW (1500-2499g) (3.3-5.5lbs.)	198	180	185	219	222	192	217
Normal BW (2500-3999g) (5.5-8.81lbs.)	2,033	1,917	2,029	1,996	2,001	1,996	2,095
High BW (4000g+) (>8.82 lbs.)	139	150	131	130	139	145	144
Preterm	354	299	288	343	330	307	326
Term	2,065	1,990	2,097	2,042	2,080	2,061	2,158
<32 Weeks	70	45	65	58	59	49	50
32 to 36 weeks	284	254	223	285	271	258	276
37 to 42 weeks	1,988	1,934	2,043	1,976	2,012	2,004	2,095
42 weeks +	77	56	54	66	68	57	63
Total Number of Births	2,419	2,305	2,405	2,384	2,410	2,368	2,485

MY BABY'S 1ST INFANT MORTALITY COALITION



In 2013, in response to poor infant mortality data, MCDBOH and the Youngstown City Health District collaborated to establish the MY Baby's 1st Coalition, a community driven effort to reduce infant mortality across Mahoning County. During 2016, MY Baby's 1st implemented strategies to address community factors that increase the risk for infant mortality. Throughout the year, coalition members conducted outreach in the most at risk census tracts, to share information about:

- The high rates of infant mortality in the African American population in Mahoning County
- The use of Progesterone to reduce premature birth
- The use of Long Acting Reversible Contraceptives (LARC) to achieve healthy birth spacing
- The health benefits of breastfeeding
- The resources available to pregnant women participating in Mercy Health's CenteringPregnancy® and Resource Mothers programs, and the Empowering Mom's support group
- How families with limited resources can provide a safe sleep environment for their baby through the Cribs for Kids® program
- The benefits of using the Mahoning County Pathways HUB as THE connection to a healthy pregnancy, and
- The learning opportunities that are available to expectant and new fathers through the Fatherhood Initiative

Also, during 2016, MCDBOH public health nurses provided Pack 'n Play® portable cribs and infant safe sleep education to 244 families. And, to assist more families, the coalition's Safe Sleep/Injury Prevention subcommittee developed "First Responder Cards" that ambulance, fire, and police personnel can provide to a family during a response or call when they detect an infant in an unsafe sleep environment. The First Responder Cards provide information on how that family may receive a Pack 'n Play® portable crib. For more information call MCDBOH at (330) 270-2855 Ext. 125.

MAHONING COUNTY COMMUNITY HEALTH IMPROVEMENT PLAN

In 2014, more than 30 organizations across Mahoning County conducted a community health assessment and developed a comprehensive Community Health Improvement Plan. Since then, members of the Mahoning County Community Health Improvement Planning (CHIP) Team, have been implementing programs and strategies to address the following four health priorities:

1. Reduce infant mortality and eliminate birth outcome inequity
2. Improve rates of healthy eating and active living
3. Reduce the incidence and burden of chronic disease (particularly diabetes), and
4. Reduce rates of substance use disorders (particularly opiates and heroin)

Throughout the year, the CHIP Team assembles to evaluate progress toward reaching the community's collective health improvement goals. The Report Card that follows demonstrates movement toward goal achievement in several areas (noted by the color yellow). However, there are areas where goals were not achieved by the expected date (red) and even some areas where data reveals that we have moved in the wrong direction – away from the intended goals (purple). For this reason, the CHIP Team revised a number of the Plan's objectives and strategies to more finely focus community efforts during 2017 - 2019. In addition, to address the fact that racial and ethnic groups in Mahoning County disproportionately experience poorer health outcomes, the CHIP Team added a fifth priority health issue to the plan:

5. Reducing health outcome inequities

To review the 2017 revised Mahoning County CHIP Plan visit:

<http://www.mahoninghealth.org/community-health-division/community-health-assessment/>



First Responder card (front)



First Responder card (back)

MAHONING COUNTY COMMUNITY HEALTH IMPROVEMENT PLAN 2016 REPORT CARD

KEY	
Goal Met	
Making Progress Towards Goal	
Goal Not Met	
Moving Away From Goal	
Data Not Available	

PRIORITY ONE: Healthy Eating/Active Living

GOAL: Increase the number of adults and children regularly engaged in healthy eating and active living.

INDICATORS	GOAL TARGET 2017	GOAL TARGET 2019
	Adults Reporting Eating < 5 Servings of Fruits or Vegetables per day	Adult Obesity
	Adults Who Are Physically Inactive	
	Breastfeeding Rates	Overweight/Obesity Prevalence in 3rd Graders
Minutes per week Children Active in School		

To increase the number of adults and children regularly engaged in healthy eating and active living, Akron Children's Mahoning Valley has conducted numerous educational and activity programs: Ounce of Prevention; Fitness Fun Storytime; Eat, Play, Grow, Fitness Club; Fit and Healthy Action Challenges; and the Mahoning Valley Healthy Kids Coalition. The MCDBOH has continued to offer the Healthy U Chronic Disease Self-Management Program. With the help of YSU, Department of Ecology, Mahoning County schools were surveyed to assess physical activity in schools. YSU and Mercy Health conducted programs in the inner city to promote physical activity and healthy eating. With the goal of making breastfeeding the cultural standard in Mahoning County, a new breastfeeding support group was developed by Mahoning County WIC to help women make informed feeding decisions. Additional focus is needed to increase physical activity among children and adults.

PRIORITY TWO: Infant Mortality and Birth Outcome Inequity

GOAL: Infant mortality in Mahoning County will meet national goals and the disparity between black and white birth outcomes will be eliminated.

INDICATORS	GOAL TARGET 2015	GOAL TARGET 2017	GOAL TARGET 2019
	Number of Fetal and Infant Mortality	Births with First Trimester Prenatal Care	Low Education (HS diploma or less) Infant Mortality Rate/ 1,000 Live Births
	Review Recommendations	<18 Month Inter-Conception Spacing	Low Birth Weight Pre-Term Births
	Progesterone Education		Number of Deaths Due to Unsafe Sleep Environment Infant Mortality Rate per 1,000 Per Live Births for Deliveries Paid by Medicaid Black/White Infant Mortality Dissimilarity Index

The MY Baby's 1st Infant Mortality Coalition has been actively working to reduce the infant mortality rate and the disparity between black and white birth outcomes across Mahoning County. Several strategies have been implemented to assist pregnant and parenting women including; implementing breastfeeding initiatives; providing birth spacing education and Long Acting Reversible Contraceptive (LARC) programs; making progesterone available to help lower the risk of recurrent pre-term births; implementing CenteringPregnancy®, which provides social support and education in a group prenatal care setting; organizing Cribs for Kids® & car seat distributions to provide safe sleep and travel measures for babies; implementing Empowering Mom's which provides social and educational resources for pregnant and parenting women; implementation of the Community Pathways HUB to connect women to a healthy pregnancy and the Fetal Infant Mortality Review (FIMR) Program to analyze the systematic issues resulting in fetal and infant deaths. Insufficient birth spacing remains a major cause of low birth weight and prematurity.

PRIORITY THREE: Chronic Disease

GOAL: Fewer residents of Mahoning County will be diagnosed with diabetes and those with diabetes currently will experience reduced morbidity.

INDICATORS	GOAL TARGET 2015	GOAL TARGET 2019
	YMCA Diabetes Prevention Program Participants YMCA Diabetes Prevention Program Evaluation Mercy Health Youngstown Primary Care Physician Practices Meeting Primary Care 6 Measure of Diabetes Care, HbA1c	Incidence of Diabetes Among 1,000 Adults Adult Smoking
	Tobacco Cessation Training	Diabetic HbA1c Monitoring
	Mahoning County Primary Care Practices Meeting D5 Criteria	

Many community efforts are underway with the goal of reducing the number of residents diagnosed with diabetes and reducing morbidity for those with diabetes currently. Area hospitals, the YMCA of Youngstown, and MCDBOH conducted diabetes prevention and diabetes education programs in the community. With grant support, the YMCA has offered the evidence based Diabetes Prevention Program (DPP) free or at a reduced cost to participants. Some health insurers are including DPP as an allowable cost with physician referral. Mercy Health provided diabetes education programs to individuals newly diagnosed with type 1 or type 2 diabetes or those with uncontrolled diabetes or pre-diabetes. Locally, Mercy Health Primary Care Physician Practices have set standards for documentation of Primary 6, which assesses the extent to which their patients receive pneumococcal vaccination, breast and colorectal cancer screening, controlled HbA1c, controlled high blood pressure, and medical attention for nephropathy. The community focus on diabetes is yielding positive results. Tobacco use, a major contributor to mortality from all chronic diseases, remains a significant problem in Mahoning County.

PRIORITY FOUR: Substance Use Disorders (Heroin and Opiates)
GOAL: Decrease deaths from Substance Use Disorders.

	GOAL TARGET 2015	GOAL TARGET 2016	GOAL TARGET 2019
INDICATORS	Naloxone Prescriptions	BRAIN POWER NIDA Curriculum Adoption	Drug Poisoning Death Rate (number of deaths)
		Opiate Prescription Per Capita	Students Reporting Prescription Opiate/Heroin Use
		Newborns with Neonatal Abstinence Syndrome	

With the ongoing growing opiate epidemic, there have been many community-wide awareness activities to educate the public regarding opiate use, abuse, and treatment opportunities to reduce deaths from substance use disorders. Access to naloxone has increased across the county for caregivers/families and for first responders through Meridian Care, MCDBOH, and local pharmacies. The NIDA Brain Power Curriculum is being used in eleven Mahoning County school districts and a Neonatal Abstinence Syndrome (NAS) Task Force has convened. The NAS Task Force is assessing the scope of the problem locally. SBIRT has been implemented at One Health Ohio, the county's FQHC. Mercy Health Youngstown, the county's Level 1 Trauma Center has implemented SBIRT throughout the system training hospital based and practice based physicians, nurses, residents, and nursing students. New initiatives aimed at curbing access to opiates and heroin are planned for 2017.

ESSENTIAL SERVICE: Link people to needed personal health services and assure the provision of health care when otherwise unavailable

VACCINE PREVENTABLE ILLNESS

Vaccines do not just protect children. Vaccines prevent illness across the lifespan. According to the US Centers for Disease Control and Prevention (The CDC), we



never outgrow the need for vaccines. The specific immunizations needed as an adult are determined by factors such as age, lifestyle, high-risk conditions, type and locations of travel, and previous immunizations. MCDBOH provides all immunizations recommended by the CDC.

During 2016, MCDBOH nurses administered more than 6,000 immunizations. Adult immunization clinics are held every Tuesday at the main MCDBOH office location, by appointment. Adults that will be travelling out of the country may come to MCDBOH to receive the immunizations needed for their specific travel destination. Childhood immunization clinics are held four times a month at the following locations: The MCDBOH main office, Struthers Mauthe Park, Boardman Park and Goshen Administration Building. Caregivers may call to schedule childhood vaccination appointments but walk-ins are also accepted at each clinic.

School and business based immunization clinics are available. Call (330) 270-2855 Ext. 125 for more information.



DRUG OVERDOSE PREVENTION

Since 2014, Mahoning County drug related emergency room visits have steadily increased from 705 visits in 2014



to 866 in 2016 (a 23% increase in two years). Similarly, deaths due to heroin and opiates are also on the rise. In the three-year span of 2012 – 2014, Mahoning County reported 147 drug poisoning deaths. Preliminary data, provided by the Mahoning County Coroner's Office, reveal 91 drug poisoning deaths in just 2016. In response, MCDBOH applied for funding from the Ohio Department of Health to enable the implementation of coordinated, targeted drug overdose prevention strategies and to conduct drug death reviews to better understand the circumstances surrounding the county's drug related deaths. In addition, MCDBOH continued to provide naloxone education to community members and first responders. During 2016, 44 Naloxone kits were distributed in the community and 214 kits were distributed to first responders across the county, a significant increase in demand over the previous year. During 2017, MCDBOH will continue our efforts to increase the public's awareness of the signs of an opioid overdose and the use of Naloxone in emergency situations. For free Naloxone kits and opioid overdose reversal education call MCDBOH (330) 270-2855 Ext. 125.



WOMEN INFANTS AND CHILDREN SUPPLEMENTAL NUTRITION PROGRAM (WIC):

The WIC mission is to safe guard the health of low-income women, infants, and children up to age 5 who are at nutritional risk by providing nutritious foods, information on healthy eating, providing breastfeeding support, and making referrals to health care. During 2016, the MCDBOH WIC program served 4,968 individuals at four clinic sites: Austintown (330) 792-2397, Boardman (330) 788-1485, Youngstown (330) 743-3333 and Goshen Twp. (330) 507-9290.

In addition to daily nutrition education, WIC offers special group sessions throughout the year to help families learn healthy eating concepts that they may take home and share with family and friends. Topics presented during 2016 included: Eating on a Budget, Breastfeeding is Best, Gluten Free, Portion Control with my WIC Bowl, Born to Move, Tips to Lower Your Sugar Intake, and Think Your Drink.

COMMUNITY HEALTH EDUCATION

Throughout 2016, virtually everyone at MCDBOH was engaged in community health education. MCDBOH staff presented health education programs at 28 community based events, 10 school programs, 14 educational programs for community organizations, and conducted no less than two dozen local, state and national media events. Health Educators held five 6-week sessions of the Healthy U Chronic Disease Self-Management Program and the Diabetes Education and Empowerment class, with 127 participants. The Infant Mortality Coalition Coordinator and Pathways HUB staff educated hundreds of at-risk pregnant women about services available in the community to help them have healthy pregnancies.

EATING ON A BUDGET

WHEN

Thursday, April 14
9:00 AM – 10:00 AM

WHERE

Boardman WIC

3910 Hillman Way, Youngstown, Ohio 44512

WHO

Parents, or caregivers of children

Money tight? Join us at the Boardman WIC clinic to learn about the three P's of food budgeting from YSU Senior Dietetics Student Bill Masters.

WIC is a Special Supplemental Nutrition Program for Women, Infants, and Children that provides Federal grants to States 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 who are found to be at nutritional risk.



Shop Healthy on a Budget

With a little planning, and some know-how, you can still buy nutritious foods even on a tight budget.



Eating Right When the Money's Tight

With a little advanced planning, eating right can fit into anyone's budget.



Bulk Buying

Balancing work and family life is often challenging. Buying in bulk, and eating ahead of time helps reduce stress during the week.



Recipes

Practical ideas to help turn your grocery store purchases into delicious and nutritious meals and snacks.

THE PATHWAYS HUB

The Mahoning County Pathways HUB was created in Dec. 2015 to improve the community health priority – infant mortality. The HUB contracts with local care coordination agencies that employ community health workers or home visitors to work directly with clients most at-risk for poor birth outcomes. Current care coordination agencies (CCAs) include: The Healthy Moms Healthy Babies Program of Planned Parenthood of



Greater Ohio, the Mercy Health Resource Mothers Program and the Help Me Grow Home Visiting Program. Community Health Workers (CHWs) help at-risk pregnant women by providing health education, assistance with navigating local provider and social services networks, and social support. The HUB focuses its outreach to pregnant women residing in the census tracts most disparately impacted by the social determinants of health. The HUB evaluates its work by collecting and analyzing care coordination and health outcome data to determine if a client's needs are being met, to monitor the HUB's effectiveness, and to assess the adequacy of resources available in the community. This analysis informs future policy or system changes.

The HUB was initially funded by the Ohio Commission on Minority Health and is one of six Community Pathways HUBs in the state. In 2016, the HUB received funding from the Ohio Department of Medicaid to increase access and services. Plans are underway to add four additional CCAs that will employ six additional CHWs.

At the end of its first year of operation, the HUB had the following outcomes:

- 91 at-risk pregnant women enrolled
- 52 babies delivered — 46 normal birth weight, 4 low birth weight, 0 very low birth weight and 1 set of twins
- 47 infants connected to medical homes
- Over 400 pathways initiated
- Dozens of local agencies, programs, community centers, churches and businesses were contacted by the HUB
- Over 1,000 brochures distributed to the public



ESSENTIAL SERVICE: Diagnose and investigate health problems and health hazards in the community

FIGHT THE BITE!



Vector borne diseases occur when an arthropod, usually an insect, carries a disease to a susceptible host. Mosquitoes are considered to be a particularly dangerous vector due to their capacity to disseminate disease. Two particular species of mosquitoes are currently known to spread the Zika virus: the *Aedes aegypti* and the *Aedes albopictus*. The *Albopictus* species is common to Ohio whereas, the *Aegypti* species has been identified sparsely throughout the state. Knowing which species of mosquitoes are prevalent in the community helps local public health departments focus their public education efforts regarding mosquito control and protection.

During the 2016 mosquito season, with Ohio Department of Health and Emergency Preparedness funding, MCDBOH conducted widespread mosquito surveillance and an intense public education program. Mosquito traps were placed throughout the county to attract and collect mosquitoes for species identification and West Nile Virus testing. In addition, video mosquito control messages were presented

during cinema previews and print materials were distributed to educate the public regarding breeding source reduction and mosquito bite prevention.



MCDBOH 2016 Mosquito Trapping Results	
Total Trapped/Identified by ODH	1,293 /1,053
Mosquitoes Found to be Positive for West Nile Virus	0
Mosquitoes Identified as <i>Aedes aegypti</i> Species	0
Mosquitoes Identified as <i>Aedes albopictus</i> Species	0

MCDBOH EMERGENCY RESPONSE TO ELEVATED LEAD LEVELS IN A MUNICIPAL DRINKING WATER SUPPLY



On January 21, 2016, MCDBOH was notified that Village of Sebring public drinking water system tests indicated lead levels above 15 parts per billion (PPB); the federal action level for lead. Working in a multi-agency emergency response effort with state and local partners, MCDBOH responded to the needs of the Village of Sebring and their residents during this time. Between

Jan. 22 and Feb. 29, the MCDBOH Environmental Laboratory processed over 1000 water samples from Sebring schools, resident homes, and Village buildings. With blood testing equipment supplied by the Ohio Department of Health and several neighboring local health departments, MCDBOH staff conducted two large scale blood lead screening clinics for residents at risk. Simultaneously, MCDBOH staff provided public education to inform residents how to reduce environmental lead exposure and tested the water supply of all MCDBOH licensed food vendors. Throughout the year, the MCDBOH Environmental Laboratory has continued to provide lead testing of drinking water samples and is performing monthly corrosion control testing and sequential trace metals monitoring at designated locations in Sebring. This event raised awareness of the exposure risk associated with lead in water fixtures, lead piping and lead solder in plumbing.

Environmental Laboratory Tests Conducted in 2016

Environmental Laboratory Tests Conducted	26,625
Shale Testing	7
Lead Testing	5,230
Spore Tests from Tattoo Parlors	385
Microbiological Samples	4,627
Groundwater Monitoring Samples	232



TOBACCO CESSATION READINESS ASSESSMENT

Smoking during pregnancy significantly adds to the risk of low birth weight and prematurity, the leading causes of infant mortality. During 2016, the MCDBOH WIC program participated in an OSU research project which assessed participant readiness to quit smoking. During the research project WIC Health Professionals asked every pregnant woman if she was using tobacco, counseled her to quit, and, using the 5A's program, assessed her willingness to make a quit attempt. When indicated, referrals were made to the MCDBOH smoking cessation program (Baby and Me Tobacco Free) and to the Ohio Quit Line and the Mercy Health Regional Tobacco Cessation Program. The project was so successful at increasing referrals for cessation that it will continue in 2017.

IMPROVING LEGAL PREPAREDNESS FOR MEDICAL RESERVE CORPS VOLUNTEERS

Also during 2016, MCDBOH participated in a research project directed by the University of Pittsburgh Graduate School of Public Health. The project initially assessed MRC volunteer legal knowledge related to scope of practice, liability, immunity, and the legal impact of a declared emergency. The researchers then developed a web-based tool known as ELI-V, that gives users clear, concise summaries of the laws influencing participation in emergency activities. The laws are searchable by profession and jurisdiction so users can easily find the laws that impact them specifically. MCDBOH contributed to this Pitt Public Health project from conception through design and implementation.

2016 MAHONING COUNTY DISTRICT BOARD OF HEALTH STAFF

HEALTH COMMISSIONER

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Public Health

Prevent. Promote. Protect.

Mahoning County District Board of Health

District Board of Health Mahoning County

50 Westchester Drive
Youngstown, OH 44515

Toll-free in Mahoning County
1.800.873.MCHD

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Emergency Preparedness
Community Health
Nursing & Clinics
Solid & Infectious Waste Program
Finance & Human Resources
330.270.2855

WIC Clinics
Austintown
330.792.2397
Boardman
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Goshen
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Tuberculosis Clinic
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