

DATA SUPPLEMENT

2022 ANNUAL REPORT





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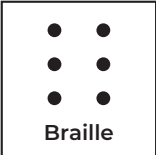


Table of Contents

COMMISSIONER'S OFFICE

Finance	5
Staffing	7
Vital Statistics Records	7

Office of Violence Prevention (OVP)	8
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COMMUNITY HEALTH

Maternal & Child Health (MCH)

Birth Outcomes Made Better (BOMB) Doula Program	10
Community Healthcare Access Program (CHAP)	10
Direct Assistance to Dads (DAD) Project & Empowering Families of Milwaukee (EFM)	11
Infant Mortality Special Initiatives: Cribs for Kids and Strong Baby	12
Newborn Screening: Congenital Disorders and Hearing	13
Parents Nurturing and Caring for Their Children (PNCC)	14
Women Infants and Children (WIC) Nutrition	15

ENVIRONMENTAL HEALTH

Consumer Environmental Health	16
Emergency Preparedness and Response	19
Home Environmental Health	22

MEDICAL SERVICES

Clinical Services

Communicable Disease (CD)	24
Milwaukee Breast and Cervical Cancer Awareness Program (MBCCAP)	25
Sexual and Reproductive Health (SRH)	26

Milwaukee Health Department Laboratory	27
---	-----------

POLICY, INNOVATION, AND ENGAGEMENT (PIE)	29
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Vital Statistics: Fetal Infant Mortality Review (FIMR)	31
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2022 ANNUAL REPORT

About this Data Supplement

The Annual Report is a comprehensive overview of the City of Milwaukee Health Department (MHD) and includes information on each division, office, and program within the department.

For the 2022 Annual Report, MHD has implemented a new format that includes a condensed main report highlighting Key Program Indicators (KPIs), with a separate data supplement that includes detailed data tables for each program.

Note: Gaps within this data supplement are the result of several factors, including the restructuring of numerous KPIs across the department and program disruptions caused by the COVID-19 pandemic.

The main 2022 Annual Report and Data Supplement can be found online at:
milwaukee.gov/AnnualReports

COMMISSIONER'S OFFICE

Finance					
City of Milwaukee Health Department Expenditures by Funding Source					
Funding Source	2018	2019	2020	2021	2022
O&M	\$13,555,698	\$16,122,871	\$14,586,057	\$16,884,600	\$12,291,819.83
Grant	\$10,450,150	\$9,388,247	\$29,805,644	\$33,725,720	\$31,222,619.47
Reimbursable	\$2,094	\$785,819.50	\$349,615	\$265	\$269.81
Capital	\$977,318	\$1,229,587.10	\$533,734	\$624,314	\$680,102.40
Total Expenses	\$24,985,260	\$27,526,525	\$45,275,050	\$51,234,899	\$44,194,811.51

** financial data is preliminary and subject to change*

2022 Total Expenses by Branch	
Branch	2022 Total Expenses
Commissioner's Office	\$2,172,285
Community Health	\$6,946,717
COVID-19	\$10,210,778
Environmental Health	\$10,105,238
Medical Services	\$8,975,958
Policy, Innovation, and Engagement	\$3,310,218
Office of Violence Prevention	\$2,473,616
Total Expenses	\$44,194,812

** financial data is preliminary and subject to change*

COVID-19 Grant information			
Grant Name	Funding Source	Dates of Grant Period	Amount Over Grant Period
ELC Project E: Covid-19	CDC, via WI DHS	5/18/2020-11/18/2022	\$7,188,616
ELC/CARES COVID-19 Prev & Control	US Treasury, via WI DHS	10/1/2020-10/31/2022	\$6,056,200
Covid-19 Testing Pilot Program	CARES Act, via WI DHS	10/12/2020-7/1/2023	\$6,595,095
COVID-19 Lab Sequencing	CDC, via UW-Madison	9/15/2020-9/14/2022	\$154,137
COVID-19 Immunizations	US HHS, via WI DHS	6/1/2021-6/30/2024	\$772,500
ARPA COVID Recovery	US Treasury, via WI DHS	3/1/2021-12/31/2024	\$3,695,600
CDC Health Disparities	CDC	6/1/2021-5/31/2024	\$6,606,781
ELC: Enhancing COVID-19 Detection	CDC, via WI DHS	1/15/2021-8/1/2023	\$3,551,276
Impact Imm Failure on SARS-CV2	CDC, via UW-Madison	4/1/2021-5/17/2023	\$488,970
City ARPA Funding	US Treasury	3/3/2021-12/31/2026	\$13,300,000

** financial data is preliminary and subject to change*

O&M and Grant Expenses by Department				
Department	2021 O&M Expenses	2021 Grant Expenses	2022 O&M Expenses	2022 Grant Expenses
Community Healthcare Access Program	\$232,823	\$281,451	\$233,803	\$313,310
Direct Assistance for Dads	\$3,396	\$91,001	\$9,050	\$128,770
Empowering Families of Milwaukee	\$429,773	\$1,162,264	\$529,833	\$1,310,856
Infant Mortality Special Initiatives (Cribs for Kids, Strong Baby Title V)	\$279,359	\$308,842	\$556,661	\$708,350
BOMB Doula Program	\$295,846		\$100,728	\$458,028
Parents Nurturing and Caring for Their Children (PNCC) and Newborn Screening	\$707,848	\$237,030	\$139,816	\$684,619
Women, Infants, and Children Nutrition (WIC)	\$70,276	\$1,130,430	\$20,924	\$1,536,801
Office of Violence Prevention (OVP)	\$693,228	\$998,007	\$656,180	\$1,817,435
Consumer Environmental Health	\$1,679,797	\$2,369	\$2,285,821	\$19,943
Home Environmental Health	\$1,033,621	\$4,206,992	\$885,575	\$4,614,087
Emergency Preparedness and Environment Health	\$94,230	\$934,858	\$20,275	\$698,018
Infectious Disease (Communicable Disease, Tb Control, Immunizations)	\$1,731,619	\$1,272,998	\$477,883	\$1,178,653
Sexual and Reproductive Health	\$518,221	\$331	\$360,653	\$2,151,730
Well Woman/MBCCAP	\$60,573	\$752,242	\$172,326	\$687,167
Laboratory Services	\$1,883,499	\$826,517	\$1,797,581	\$1,258,842
Policy, Innovation, and Engagement	\$722,323	\$225,401	\$510,276	\$2,246,365
Vital Statistics	\$153,525	\$1,493	\$123,181	\$104,606
Fetal Infant Mortality Review	\$48,761	N/A	\$29,125	N/A
COVID-19 Response	\$3,959,083	\$20,931,633	\$402	\$10,233,572
Total Expenses	\$14,597,799	\$33,363,858	\$8,910,090	\$30,151,153

** financial data is preliminary and subject to change*

Staffing

City of Milwaukee Health Department Personnel

	2018	2019	2020	2021	2022
O&M FTE	138.2	136.7	164.26	162.12	190.8
Non-O&M FTE	102.8	108.85	120.71	441.85	109.2
Total FTE	241	245.55	284.97	603.97	300

City of Milwaukee Health Department Total FTE by Branch (2022)

Branch	2022 FTE
Community Health	62
Environmental Health	66
Medical Services	70
Policy, Innovation, & Engagement	26
Office of the Commissioner	15

** FTE = Full Time Equivalent employee (40 hours / week)*

Vital Statistics Records

Performance Measure	2018	2019	2020	2021	2022
Total gross income, cash receipts, and billing	\$458,679	\$404,584	\$535,633	\$594,254	\$465,347
Births registered	9,318	9,170	8,476	8,241	10,262
Deaths registered	5,928	5,931	7,220	5,075	6,643
Total death certificates issued	44978	47706	52,649	49,194	46,447
Total birth certificates issued	15,122	10,755	17,251	23,627	15,959

COMMISSIONER'S OFFICE

Office of Violence Prevention (OVP)

Office of Violence Prevention (OVP)					
Performance Measure	2018	2019	2020	2021	2022
# of community engagement events and briefings	28	24	105	100	97
# of copies of Blueprint for Peace distributed	400	3,250	2,500	2,000	N/A
# of Facebook followers (cumulative)	1,699	5,513	6,734	7,000	7,700
# of 414Life website views	7,824	14,034	13,979	17,631	N/A
# of OVP website unique views	N/A	16,641	18,542	15,614	N/A
Trauma Response Initiative					
# of referrals received	327	466	217	270	272
# of families engaged ¹	182	272	89	194	203
Safe Visitation and Exchange					
# of families served	60	70	23	22	26
# of supervised exchange services provided	386	637	100	90	49
# of one-to-one supervision services provided	348	762	148	0	224
Milwaukee Commission on Domestic Violence & Sexual Assault					
# of agencies and organizations engaged	72	85	87	92	86
# of Commission meetings	11	11	10	10	11
Average Meeting Attendance	N/A	N/A	N/A	N/A	55
Completed trainings of current Officers / recruits of MPD	Yes	Yes	Yes	Yes	Yes
Family Violence Prevention					
Emergency referrals & Assistance	N/A	N/A	N/A	27	35
# community engagements efforts/events	26	42	31	22	4

¹Families engaged include families that a trauma Response member made contact with through phone calls or home visits.

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Office of Violence Prevention (OVP)					
Performance Measure	2018	2019	2020	2021	2022
414Life Violence Interruption					
# of violence interruptions	14 ¹	67	63	66	71
# of participants	16	56	54	28	62
Suicide Prevention					
# of suicide prevention trainings ²	N/A	N/A	26	22	22
# of community members trained	N/A	N/A	671	623	1,280
# of gun locks distributed	N/A	N/A	N/A	10,000	6,900
Safe Summer Outreach Pilot					
# of community engagements	N/A	N/A	N/A	N/A	96
# of De-Escalation	N/A	N/A	N/A	N/A	41
ReCAST MKE					
# of youth and families served	2,063	4,578	1,958	1341	1,202
# of adults trained	306	403	753	79	123
# of organizations receiving funding or subcontracts	49	29	31	10	23

¹This program began in November 2018, so 2018 figures reflect two months of service.

²Suicide prevention trainings were added to OVP's scope of work after the Community Health Liaison joined the OVP.

COMMUNITY HEALTH

Maternal & Child Health (MCH)

Birth Outcomes Made Better (BOMB) Doula Program					
Performance Measure	2018	2019	2020	2021	2022
# of new families enrolled	N/A	N/A	1	79	91
# of babies born among families enrolled	N/A	N/A	1	74	73
# of singleton babies born at less than 37 weeks gestation (premature)	N/A	N/A	0	10	6
# of singleton babies born weighing less than 2500 grams (low birthweight)	N/A	N/A	0	18	11
Presence of Doulas during labor/delivery (percentage)	N/A	N/A	100%	68%	81%
% of Black/African American identified families enrolled	N/A	N/A	N/A	N/A	70%
# of infant deaths among enrolled families (not including terminations/stillbirths)	N/A	N/A ¹	0	1	0

¹ Didn't enroll families until 12/2020 due to delays caused by COVID-19 pandemic.

Community Healthcare Access Program (CHAP)					
Performance Measure	2018	2019	2020	2021	2022
# of individuals completing applications for BadgerCare Plus (new)	1502	627	123	99	161 ²
# of individuals completing applications for BadgerCare Plus (renewals)	Not tracked individually; cumulative	985	282	25	39
# of Childless Adults applications (new)	Not tracked individually; cumulative	52	78	25	26
# of Childless Adults applications (renewals)	Not tracked individually; cumulative	158	8	9	9
# of Marketplace or Health Benefit Navigations	N/A	39	14	7	20

² COVID impacted clinics being open and continued emergency coverage; unwinding not occurring until 2023 impacting the number of people needing to enroll in or renew BadgerCare.

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Community Healthcare Access Program (CHAP)					
Performance Measure	2018	2019	2020	2021	2022
# of Express Enrollments Applications (new and renewals)	561	30	5	0	0
# of Non-qualified Immigrant Pregnant Women ¹	57	63	24	22	68
# of FoodShare applications (new)	796	787	205	204	497 ²
# of FoodShare applications (renewals)	Not tracked individually; cumulative	948	361	196	565 ²
# of community outreach events focused on Medicaid enrollment in which CHAP staff participate	N/A	60	20	5	9
# of Troubleshoots (i.e. technical assists) done by staff ³	4087	3173	1513	1308	2043

¹This service enrolls undocumented mothers in insurance coverage that lasts through delivery.

²Foodshare applications / renewals increased from 2021 - 2022; CHAP's services have played a major role in supporting food insecurity issues in Milwaukee during the pandemic.

³Includes family, new / decisions, renewals, and document verification (sending IDs, check stubs, updated job info, etc.)

Direct Assistance to Dads (DAD) Project					
Performance Measure	2018	2019	2020	2021	2022
# of babies born (singletons + multiples)	4	0	2	4	6
Singletons	4	0	2	4	6
Multiples	0	0	0	0	0
# of singleton babies born at less than 37 weeks gestation (premature)	0	0	0	0	0
# of singleton babies born weighing less than 2500 grams (low birthweight)	0	0	1	1	0
# of infant deaths among families enrolled (babies born alive who die before age 1)	0	0	0	0	0
# of stillbirths among families enrolled (babies who die before taking their first breath, are without a heartbeat at birth and weigh at least 350 grams and/or are more than 20 wks gestation)	0	0	0	0	0

Empowering Families of Milwaukee (EFM)

Performance Measure	2018	2019	2020	2021	2022
# of babies born (singletons + multiples)	37	73	33	39	56
Singletons	29	73	29	39	56
Multiples	8	0	4	0	0
# of singleton babies born at less than 37 weeks gestation (premature)	2	4	2	1	3
# of singleton babies born weighing less than 2500 grams (low birthweight)	2	3	1	2	4
# of infant deaths among families enrolled (babies born alive who die before age 1)	1	0	1	0	1
# of stillbirths among families enrolled (babies who die before taking their first breath, are without a heartbeat at birth and weigh at least 350 grams and/or are more than 20 wks gestation)	0	1	1	0	0

Infant Mortality Special Initiatives: Cribs for Kids and Strong Baby

Performance Measure	2018	2019	2020	2021	2022
# of clients served by Cribs for Kids Program	N/A	N/A	371	221	163 ¹
Total # of cribs distributed through classes and home visiting	651	611	386	401	306 ¹

¹No cribs for kids programming for 4 months due to staffing. Classes resumed at half capacity (2x/week vs 4x/week). No longer have staff solely dedicated to classes. Participants in home visiting programs may receive pack n' play via home visitor.

Newborn Screening: Congenital Disorder Screening

Performance Measure	2018	2019	2020	2021	2022
Total number of referrals (Includes newborn blood screening and whole blood referrals received from the newborn screening laboratory and community)	111	103	110	140	106
# of babies screened by MHD ¹	44	43	65	76	50
Average # of referrals case managed monthly	10	9	10	12	9
# of babies rescreened (birth hospital)	Not reported	5	4	13	4
# of babies rescreened (lab)	Not reported	4	11	10	9
# of infants identified and subsequently case managed with sickling disorder through NBS	17	30	26	11	11
# of babies with sickle cell seen in clinic by 4 months of age	21	29	27	11	11
# of infants case managed for CF	14	2	0	1	0
# of babies referred and successfully case managed for CF (that needed case management)	Not reported	2	0	0	0
# outreach events / conferences / health fairs attended	3	7	1	5	4

¹On average about 50% of referrals are screened by MHD versus hospitals, which helps close the gap in screening services.

Newborn Screening: Hearing Screening

Performance Measure	2018	2019	2020	2021	2022
# of referrals received	347	415	1074	922	850
Average number of babies case managed by RONS monthly ²	119	135	318	305	338
# of babies that received screening by Regional Outreach Nurse Specialist (RONS)	37	56	14	6	5
# of babies referred by Regional Outreach Nurse Specialist (RONS) to Audiology	5	6	1	0	1
# of newborns identified with hearing loss and referred to early intervention	32	29	46	41	28

² Volume of cases received per month has been steadily increasing over the last 5 years even through the COVID-19 pandemic.

Parents Nurturing and Caring for Their Children (PNCC)					
Performance Measure	2018	2019	2020	2021	2022
# of new referrals	102	133	71	73	59
Total number of families enrolled in the program	67	64	30	45	41
# of babies born (singletons + multiples)	34	41	27	36	36
# singleton babies born at less than 37 weeks gestation (premature)	1	6	4	3	4
# of singleton babies born weighing less than 2500 grams/5.5 lbs (low birthweight)	1	3	3	3	2
# of stillbirths among families enrolled (babies who die before taking their first breath, are without a heartbeat at birth and weigh at least 350 grams and/or are more than 20 wks gestation)	0	0	0	1	2
Number of ASQ screenings completed for families enrolled	117	25	22	26	31
Number of referrals based on ASQ screenings	8	0	3	0	0
Number of mental health screenings for depression for mothers each month (Edinburgh Postnatal Depression Scale (EPDS) - based on program screening requirements, which vary by program)	162	73	62	91	69
Number of referrals to mental health services (based on EPDS score and/or other referrals made for mental health services, e.g., anxiety, etc.,)	7	4	0	15	4
# of clients referred to CCC after closure	N/A	1	2	4	14

NOTE:

The Milwaukee Health Department's PNCC Program has ended services as of May 2023.

Women Infants and Children Nutrition (WIC)

Performance Measure	2018	2019	2020	2021	2022
Annual Count of WIC Participation	12,810	12,903	12,500	11,809	12,090
# of infants breastfed through 3 months of age	212	226	236	281	360
# of infants breastfed through 6 months of age	149	167	166	184	232
% of infants who ever breastfed	57%	57%	49%	55%	64%
% of infants breastfed through 3 months of age	42%	39%	37%	41%	50%
% of infants breastfed through 6 months of age	24%	21%	18%	21%	27%

ENVIRONMENTAL HEALTH

Consumer Environmental Health (CEH)					
Performance Measure	2018	2019	2020	2021	2022
Number of prelicensing food establishment inspections	537	430	383	481	519 ¹
Number of 30 day food establishment inspections completed ²	622	597	245	462	589
Number of routine food establishment inspections completed	2,697	2,633	999	1649	2265
Total number of food establishment inspections (Includes prelicensing, routine, reinspection, etc.) ³	9832	9528	3951	6391	8476
Percent of routine food establishment inspections with a priority violation	41%	42%	44%	37%	42% ⁴
Number of food complaints	577	701	829	641	648
Total revenue collected from all billed activities for routine food activities	\$2,499,221	\$2,109,897	\$426,619	\$1,935,946	\$1,606,275
Number of temporary events for initial inspections of vendors	N/A	N/A	N/A	N/A	94
Total temporary event inspections completed	535	454	5	316	441
Percent of temporary food inspections with a priority violation	25%	20%	0%	29%	29%
Number of mobile food preinspections	129	115	117	157	179
Number of routine mobile food inspections completed	195	180	22	110	180
Total number of mobile food inspections (Includes prelicensing, routine, reinspection, etc.)	930	800	310	709	920
Percent of mobile inspections with a priority violation	34%	32%	47%	13%	19%
Number of tattoo and body art preinspections	19	17	16	27	24
Number of tattoo and body art routine inspections	47	49	20	37	49

¹ As part of prelicensing process, 245 additional follow-up inspections were completed

² A 30 day inspection is provided to new businesses after opening to consult with MHD staff to ensure continuing compliance, understanding the food grading system, & establishing expectations for future inspections.

³ Includes all inspection types: routine inspections, reinspection, specials, etc.

⁴ This is the first year we are reporting permanent food establishments, mobile food, and temporary events independently. The overall percent of inspections with a priority violation is 41%.

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Consumer Environmental Health (CEH)					
Performance Measure	2018	2019	2020	2021	2022
Total number of tattoo & body art inspections (Includes precicensing, routine, reinspection, etc.)	186	215	50	60	256
Number of body art complaints	1	1	1	0	1
Total revenue collected from all billed activities for tattoo and body art activities	\$19,009	\$13,569	\$1,099	\$18,198	\$24,369
Number of devices inspected/inspections performed	1,081	865	737	1123	836
Number of Weight and measures complaints	36	22	14	28	28
Total revenue collected from all billed activities for weight and measures activities	\$429,080	\$337,452	\$79,114	\$351,197	\$330,258
Total additional revenue collected from all billed DATCP inspections	N/A	N/A	N/A	N/A	\$2,695
Number of outreach trainings conducted	381	325	53	149	151
5 CDC Risk Factors on Inspections					
CDC Risk Factors of Violations Reported During Routine Food Inspections of Permanent Food Establishments	18.4%	21.2%	21.7%	12.2%	26.4%
CDC Risk Factors of Violations Reported During Inspections of Temporary Events	12.3%	51.2%	2.5%	21.2%	12.8%
CDC Risk Factors Reported During Inspections of Mobile Food Establishments in 2022	14.0%	41.8%	7.6%	5.0%	31.6%

Consumer Environmental Health (CEH)								
Cases Reported								
	2018	2019	2020	2021	2022	Three Year Average	Estimated Number of Cases Per Case Reported *	Total Estimated Cases 2022
Campylobacter	58	99	46	67	64	59	30	1920
E. coli 0157	14	13	1	12	22	12	26	572
Listeria	0	0	0	0	0	0	2	0
Salmonella	99	75	52	69	76	66	29	2204
Vibrio	0	1	1	2	1	1	142	142
Yersinia	1	0	2	2	4	3	123	492

* City of Milwaukee enteric disease cases from Wisconsin Electronic Disease Surveillance System on January 6, 2020.
 FoodNet Progress Report - <https://www.cdc.gov/features/dsfoodnet2012/food-safety-progress-report-2012-508c.pdf>

Consumer Environmental Health (CEH)								
Incidence per 100,000 ¹								
	2018	2019	2020	2021	2022	Three Year Average	Healthy People 2030 Target ²	Healthy People 2030 Status ³ (Met / Not Met)
Campylobacter	9.8	16.6	7.7	11.6	10.8	9.9	10.9	Met
E. coli 0157	2.4	2.2	0.2	2.1	3.7	2.0	3.7	Not met
Listeria	0.0	0.0	0.0	0.0	0.0	0.0	0.22	Met
Salmonella	16.6	12.6	8.7	12.0	12.8	11.0	10.6	Not met
Vibrio	0.0	0.2	0.2	0.3	0.2	0.2	N/A*	N/A*
Yersinia	0.2	0.0	0.3	0.3	0.7	0.4	N/A*	N/A*

¹ Incidence calculated using 2010 U.S. Census Population data
² Food Safety, Healthy People 2020 - <http://www.healthypeople.gov/2020/topicsobjectives2020/overview.aspx?topicid=14>
³ Based on comparison between 2020 City of Milwaukee incidence with 2020 target

* CDC did not include vibrio or Yersinia in the Healthy People 2030 goals

Emergency Preparedness and Response

Emergency Preparedness

Performance Measure	2018	2019	2020	2021	2022
% of employees who have completed required Incident Command System (ICS) training	85%	91%	90%+	90%+	90%+
% of staff successfully receiving exercised emergency notification messaging	86%	95%	90%	85%	90%
# of emergency preparedness exercises completed	N/A	N/A	10	Active Response	Active Response
Public Health Emergency Operations Plan (EOP) reviewed and updated	Yes	Yes	Yes	Yes	Yes
% of staff slated for fit testing who had completed a fit test within the calendar year	N/A	N/A	76%	52%	60%
# of staff respirator fit tests completed	N/A	N/A	42	56	78
# of Safety Committee Meetings conducted	N/A	N/A	11	17	10
# of facility chemical storage plans reviewed as part of the Local Emergency Planning Committee (LEPC)	7	42	25	64	50
# of days cooling/warming shelter open	N/A	N/A	4	0	5
# of needle/infectious waste removals completed	N/A	N/A	60	60	45

Emergency Preparedness and Response

Environmental Health

Performance Measure	2018	2019	2020	2021	2022
# of water samples collected for annual Milwaukee Triathlon for pathogenic testing	N/A	N/A	N/A	18	18
# of water quality advisories issued for City of Milwaukee beaches	303	293	171	102	102
# of closures of individual beaches	33	5	33	22	9
# of swim advisories of individual beaches	N/A	N/A	N/A	N/A	31
# of meetings attended for Milwaukee water quality (beaches and floodplain) as part of multi-agency Milwaukee Estuary Area of Concern workgroups	N/A	N/A	7	10	6
# of potable water samples collected for health surveillance at Summerfest Grounds	210	202	0	187	282
Annual Infectious Waste Reports submitted to DNR	3	3	3	3	3
# of on-site and off-site meetings/inspections conducted with State agencies regarding brownfield vapor intrusion investigations	N/A	N/A	N/A	5	24
# of Safety Committee / Safety Captain meetings	3	10	7	17	10
# of Safety Drills and Safety Trainings conducted	N/A	N/A	N/A	N/A	8
# of meetings attended as part of multi-agency CAT children's asthma workgroup	N/A	N/A	N/A	9	12
# of confirmed cases of West Nile Virus (WNV) in the City of Milwaukee	0	0	0	0	0
Consultations related to potential rabies exposure	N/A	N/A	N/A	N/A	65
Consultations on Air Quality	N/A	N/A	N/A	N/A	94
Corsi-Rosenthal boxes distributed to improve indoor air quality	N/A	N/A	N/A	N/A	128
Other Environmental Health Consultations	N/A	N/A	N/A	N/A	38

Emergency Preparedness and Response

COVID-19 Response

Performance Measure	FY 2020	FY 2021	FY 2022
# of total diagnostic tests performed	311,175	127,361	53,592
# of tests performed at COVID-19 isolation facility (includes MFD testing site FY 2020)	3,127	633	175
# of tests performed at community testing sites	305,316	124,791	51,631
# of tests performed at place-based testing sites	2,574	1,848	1,786
# of place-based testing clinics completed	126	94	25
# of total vaccinations administered	N/A	216,853	21,138
# of vaccinations administered to homebound clients	N/A	955	829
# of homebound clients served	N/A	681	683
# of vaccinations administered at mass vaccination clinics	N/A	195,775	12,056
# of vaccinations administered at mobile vaccination clinics	N/A	19,414	8,253
# of mobile vaccination clinics	N/A	568	355
# of phone calls to COVID-19 Hotline ¹	25,408	46,510	18,977
# of COVID-19 isolation and warming clients served	234	254	393
# of masks provided to distribution sites	481,425	20,960	1,181,565*
# of COVID-19 antigen tests provided to distribution sites	N/A	N/A	35,810*
# of COVID-19 hazard assessments completed	46	27	6
# of COVID-19 subject matter expert presentations	15	8	5

¹Hotline inception was in March 2020, but the number of incoming calls was not tracked systemically until the end of May 2020.

** Numbers are approximate.*

Home Environmental Health (HEH)

Performance Measure	2018	2019	2020	2021	2022
Lead Hazard Reduction					
Number of lead inspections completed ¹	234	193	130	121	163
Number of risk assessments completed	181	209	119	130	159
Number of permits issued	197	236	250	279	379 ²
Number of MHD final clearances	154	162	121	153	129
Number of families provided relocation service	N/A	51	53	62	50
Number of units with orders issued	161	183	102	165	188
Healthy Homes					
Number of Healthy Homes assessments completed	N/A	50	53	82	39
Lead Surveillance and Responses					
Number of EBL outreach letters sent	2,350	3,952	2,102	2,064	2,538
Number of new children referred for nurse case management	91	71	48	87	109 ³
Number of children requiring chelation	23	12	9	16	6
Number of chelation events	25	15	11	23	9
Number of nurse cases closed	31	124	83	101	69
Number of nurse case management outreach interventions	N/A	2,628	4,674	7,978	6,015
Number of initial developmental screenings completed	N/A	113	187	74	83
Division Metrics					
Total combined revenue generated from lead billing	\$50,507	\$95,200	\$54,650	\$90,900	\$59,050 ⁴
Revenue generated from environmental investigation billing	\$45,163	\$86,300	\$48,900	\$81,975	\$56,625
Revenue generated from case management billing	\$5,344	\$8,900	\$5,650	\$8,925	\$2,425
Number of outreach events attended	43	36	4	12	11

¹ Due to the COVID-19 pandemic, home visits and inspections were placed on hold from March 16 to June 8, 2020.

² Funding from HUD, CDBG, and ARPA used to increase abatements, creating an increase in permits.

³ PHN referrals increasing. HEH lowered intervention levels despite vacancies and staff turnover.

⁴ 2022 data presents actual revenue. Previous years may present billing claims.

Home Environmental Health (HEH)

Performance Measure	2018	2019	2020	2021	2022
Lead Epidemiology					
Number of blood lead tests reported for all children	38,885	36,536	25,571	23,591	24,775 ¹
Number of unique children with a reported blood lead test	28,208	27,219	20,799	19,990	20,792
Number of blood lead tests reported for children under 72 months	36,937	34,979	24,561	22,676	23,662
Number of unique children under 72 months with a reported blood lead test	26,436	25,792	19,899	19,179	19,807 ²
Number of children under 72 months – 3.5-4.9 µg/dL ³	N/A	N/A	N/A	904	979
Number of children under 72 months – 5-9.9 µg/dL	1,815	1,466	908	720	770
Number of children under 72 months – 10-14.9 µg/dL	340	292	213	170	154
Number of children under 72 months – 15-19.9 µg/dL	126	117	82	59	57
Number of children under 72 months – 20-39.9 µg/dL	107	104	66	69	61
Number of children under 72 months – Greater than 40 µg/dL	26	14	9	22	11
Percent of children under 72 months – Greater than 3.5 µg/dL ³	N/A	N/A	N/A	10.1%	10.3%
Percent of children under 72 months – Greater than 5 µg/dL	9.1%	7.7%	6.4%	5.4%	5.3%
Percent of children under 72 months – Greater than 10 µg/dL	2.3%	2.0%	1.9%	1.7%	1.4%
Percent of children 12 to 35 months of age with at least 1 reported blood lead test	74.9%	74.6%	61.1%	57.1%	*

¹To increase provider compliance with reporting guidelines, DHS compared provider billing of services and provider reporting of blood lead test results. New epidemiology data shows the number of new blood lead test results from previous years reported to DHS. 2022 epidemiology data presented is preliminary.

²blood lead screenings declining. Screening levels still have not rebounded from pre-pandemic levels. MHD continues work with DHS, providers, and community organizations to increase blood lead testing in the community.

³In late 2021, the CDC lowered their BLRV from 5 µg/dL to 3.5 µg/dL.

* 2022 data not available as City of Milwaukee birth counts were not released by DHS.

MEDICAL SERVICES

Clinical Services

Communicable Disease (CD)					
Performance Measure	2018	2019	2020	2021	2022
Communicable Disease					
# of cases of CD reported ¹	3,124	3,262	2,893	3,891	4,249
# of reportable CD cases followed-up by CD Program	1,046	1,079	447	750	1,463
# of COVID-19 cases MHD attempted to contact	N/A	N/A	52,295	44,470	23,661
Immunizations					
# of clients immunized ²	2,208	2,479	4,278	3,135	6,829
# of immunizations provided ²	5,921	6,859	4,818	3,771	8,991
# of offsite immunization clinics ³	28	17	0	0	13
school/childcare education sessions provided	4	3	0 ⁴	0 ⁴	3
# of two-year-old reminder/recall letters mailed	3,456	3,612	988	0	4,021
% of two-year-olds in the City of Milwaukee who are up to date on their immunizations by 24 months of age	62%	62%	58%	57%	57%
% of children in compliance with school required immunizations ⁵	92%	91%	92%	83%	92%
Flu Vaccination Rates by Age					
Performance Measure	2017-18	2018-19	2019-20	2020-21	2021-22
0-17 years	36%	38%	40%	37%	29%
18-64 years	30%	36%	40%	44%	38%
65 years and older	47%	54%	60%	63%	56%

¹ These numbers do not include COVID-19, influenza associated hospitalizations, tuberculosis, or sexually transmitted infections. Not all CDs that are reported require a follow-up.

² These numbers do not include COVID-19 vaccinations.

³ These numbers do not include COVID-19 vaccination only clinics

⁴ Unable to host events in 2020 or 2021 due to COVID-19 pandemic.

⁵ Compliance means they are up-to-date or have a waiver. Includes DTap, MMR, Polio, Heb B, and chickenpox. The state objective is to get 100% of schools to report by the deadline.

Flu vaccination rates are calculated by flu season, which typically runs from September 1st to June 30th of the following year.

Infectious Disease (ID)					
Tuberculosis					
Performance Measure	2018	2019	2020	2021	2022
# of chest x-rays performed at KHC	224	192	123	171	127
# of TB clinic visits	398	463	236	266	240
# of Directly Observed Therapy home visits	1,287	2,008	670	1,023	901
# of refugees with a Class B designation who were provided services (e.g., evaluations, treatment, and other TB care)	39	23	11	13	40
# of cases of tuberculosis in the City of Milwaukee	16	14	9	11	12
# of clients provided TB case management by MHD	16	14	9	11	12
# of cases of multi-drug-resistant TB in Milwaukee	1	0	0	0	1

Milwaukee Breast and Cervical Cancer Awareness Program (MBCCAP)					
Performance Measure	2018	2019	2020	2021	2022
Screening Objective (unduplicated)	950	900	700	900	950 ¹
# Milwaukee residents ages 35-64 yrs screened for breast and cervical cancer (unduplicated) ²	929	1,057	885	1,121	948
Total # breast cancer screenings through internal or external providers ³	901	1,008	792	838	985
# breast cancer screenings, in-house ³	453	474	365	327	341
# breast screenings, provider	448	544	427	511	644
Total # cervical cancer screenings provided	98	74	75	89	130
# cervical screenings in-house	98	71	71	84	125
# cervical screenings, provider	0	3	4	5	5
# of community events	13	21	0 ⁴	0 ⁴	5
# of diagnostic services provided	N/A	N/A	N/A	N/A	728 ⁵
# of clients enrolled in Medicaid by MBCCAP	N/A	N/A	N/A	N/A	30

¹The screening objective is per grant period, which is 7/1/2022 to 6/30/2023.

²Also includes individuals over age 64 without access to insurance.

³Individuals that have had both a mammogram and breast exam are only counted once.

⁴Unable to host events in 2020 or 2021 due to COVID-19 pandemic.

⁵Number of duplicated breast and cervical diagnostic tests. These include diagnostic mammograms, ultrasounds, MRIs, surgical consults, biopsies, and surgical excisions. All diagnostic services occur at outside providers.

Sexual and Reproductive Health (SRH)					
Performance Measure	2018	2019	2020	2021	2022
# of persons tested for STIs (unduplicated as of 2022)	3,645	4,486	4,425	5,350	3256 ¹
# of clinic visits at KHC (duplicated patients)	4,214	5,262	5,415	5,390	6,241
# of persons turned away due to clinic capacity limitations	909	520	393	118	35
# of HIV tests conducted	3,087	3,581	3,367	3,370	3,431
# of persons who were offered and accepted information about PrEP to prevent HIV transmission	147	1,019	1,040	912	1,016
# of condoms distributed at KHC	67,500	19,000 (Jan - May)	100,000	92,000	98,085
# of persons provided emergency contraception	250	363	155	278	375
# of positive HIV tests	28	34	45	39	22
# of positive gonorrhea tests	1,510	1,930	1,967	1,601	1186
# of positive syphilis tests	364	519	594	688	606
# of STI/HIV cases assigned for case management by MHD staff	671	915	1,109	1,036	1556 ²
# of new HIV infections identified in the City of Milwaukee	109	106	97	100	* ³
# of cases of gonorrhea in the City of Milwaukee	4,202	4,686	4,786	5,072	4,907
# of cases of primary and secondary syphilis in the City of Milwaukee	57	97	192	445	437
# of cases of chlamydia in the City of Milwaukee	9,870	10,343	9,405	9,623	9,215
% of HIV cases linked to care within 1 month of diagnosis in the City of Milwaukee	81%	78%	81%	74%	* ⁴
% of cases receiving case management for STIs that were successfully treated in the City of Milwaukee	85%	89%	92%	92%	94% ⁵

¹ 2022 total is not comparable to prior years due to a difference in reporting. Prior to 2022, patients who were tested at multiple visits were counted more than once.

All metrics specific to Keenan Health Center

² Case management includes Chlamydia, Gonorrhea, Syphilis, and HIV follow-up. MHD provides case management for STIs within the City of Milwaukee as well as for syphilis cases in the Southeast region of the state. The 2022 total includes all cases managed by MHD staff while previous totals are inclusive only of cases managed in Milwaukee residents.

³ 2022 count is provisional and subject to change.

⁴ Reflects laboratory data received through April of the following year. 2022 data is provisional and subject to change.

⁵ Case management includes Chlamydia, Gonorrhea, Syphilis, and HIV follow-up.

MEDICAL SERVICES

Health Department Laboratory

Milwaukee Health Department Laboratory (MHDL)					
Performance Measure	2018	2019	2020	2021	2022
Tests Performed: Communicable Diseases					
Respiratory pathogens	666	687	386	562	423
SARS-CoV-2 (COVID-19)	N/A	N/A	26,649	14,028	4771
Gastrointestinal pathogens	272	210	215	260	157
Syphilis	6,342	7,318	5,838	6,900 ¹	7,725 ¹
Chlamydia	11,817	13,709	10,350	11,562	11,742
Gonorrhea	16,386	18,266	13,532	14,024	14,048 ²
Mycoplasma		1,596	1,288	1,722	2,502 ³
Trichomonas	4,363	4,528	4,365	5,295	5,281
HIV	3,163	3,698	3,415	3,586	3,836
Herpes	421	364	283	354	330
Other (Clinical/Reference)	260	212	553	568	223
Tests Performed: Environmental Health					
Lead in Dust wipes, Paint, Soil	5,780	6,137	3,956	6,931	6,963 ⁴
Lead in Water	1,425	1,428	979	514	580
Blood Lead					76
Summerfest Water (Potable)	630	613	0	601	624
Beach Water (Recreational)	191	175	147	140	137
Water Treatment Plant (raw and finished water- Potable; Cryptosporidium, Giardia and culturable viruses)	95	72	86	98	84
Harmful Algal Blooms	84	44	15	15	13
SARS-CoV-2 (Air sampling)					205 ⁵
Other (Environmental/Reference)	205	439	414	130	384

¹ Primary and secondary (P&S) syphilis case rates have increased almost every year since 2020 not only in City of Milwaukee but also state-wide.

² No Azithromycin cases with reduced susceptibility reported in 2022. Development of reduced azithromycin susceptibility with azithromycin exposure among patients with *N. gonorrhoeae* infection has lead CDC to update the treatment of uncomplicated urogenital, rectal, or pharyngeal gonorrhea, with a single 500 mg IM dose of ceftriaxone.

³ *Mycoplasma hominis* and *Ureaplasma urealyticum* testing has increased due to their association with urogenital infections and complications of pregnancy.

⁴ MHDL has a turn-around-time of 24-48 hrs for chelation and clearance samples in order to get kids and families back in their homes as soon as possible.

⁵ MHDL placed active air samplers in childcares (2) and shelters (2) to monitor SARS-CoV-2 and other respiratory infections to assist with emergency preparedness and demonstrate air surveillance as a usefull tool for public health action.

Milwaukee Health Department Laboratory (MHDL)

Performance Measure	2018	2019	2020	2021	2022
Other Performance Measures					
# of LRN Activities: Bio-threat Detection (included proficiency testing)	24	24	11	14	14
# of active grants	6	7	9	13	17
# of grant applications submitted	8	8	8	9	9
# of grants applied for awarded	4	4	4	8	8
Outcome Measures					
# of positive HIV cases reported	22	28	20	23	27
# Mycoplasma genitalium infections detected		354	351	380	288
# of clients using self-collect option at Sexual Health Clinic		82	692	567	799
# of COVID samples sequenced			209	2,098	6,828 ¹
# of water samples with elevated lead (5 ppb and up)	174	99	141	79	35
# of certifications maintained ²	7	7	7	7	7
# of successful regulatory inspections	3	3	3	3	6
Customer and Community Impact Measures					
# of clients/partners served	53	51	96	70	55
# of residential soil samples tested	55	104	82	120	85
Monthly e-reports to clinical partners & stakeholders (12 per calendar year) on laboratory surveillance	100%	100%	100%	100%	100%
# of interns and fellows hosted	8	4	4	7	7

¹MHDL performed almost real-time variant and genomic surveillance for SARS-CoV-2.

²The following certifications are currently maintained: Clinical Laboratory Improvement Amendment (CLIA) certificate of compliance (ZMB, KHC and SSHC locations), Wisconsin Department of Agriculture, Trade & Consumer Protection (DATCP) – Milk, Food and Water Lab certification, Wisconsin Department of Natural Resources (DNR) – Lead in Water certification, American Industrial Hygiene Association Laboratory Accreditation Programs (AIHA-LAP, LLC) – Environmental Lead certification, CDC Environmental Legionella Isolation Techniques Evaluation (ELITE)

POLICY, INNOVATION, AND ENGAGEMENT (PIE)

Policy, Innovation, and Engagement (PIE)					
Performance Measure	2018	2019	2020	2021	2022
Tests Performed: Environmental Health					
# of data requests (internal and external)	N/A	N/A	N/A	N/A	324 ¹
# of open record requests	N/A	N/A	146 ²	127 ²	66 ²
Workplace Development					
# of student and fellow placements at MHD	N/A	N/A	N/A	N/A	6 (PIE & OVP) 17 (Medical Services)
# of active Academic Affiliation Agreements	6	15	19	21	29
# of policies revised	N/A	N/A	N/A	N/A	61 ³
Harm Reduction Initiatives					
Number of Narcan kits distributed	N/A	N/A	403	582	1546
Number of Fentanyl test Strips distributed	N/A	N/A	N/A	1500	10954
Communication and Community Engagement					
# of MHD website unique visits	40,396	37,584	108,954	401,049	373,901
# of press releases	N/A	N/A	N/A	N/A	75
Social Media Engagement: Facebook	N/A	N/A	N/A	N/A	8,111
Social Media Reach: Facebook	N/A	N/A	N/A	N/A	1,185,641
Social Media Engagement: Instagram	N/A	N/A	N/A	N/A	10,544
Social Media Reach: Instagram	N/A	N/A	N/A	N/A	84,484
Social Media Engagement: Twitter	N/A	N/A	N/A	N/A	4,063
Social Media Reach: Twitter	N/A	N/A	N/A	N/A	378,981

¹ was not consistently tracked until 2022.

² In 2021, there were 127 record requests. 24 were directly related to the departments covid work. In 2020, there were 146 record requests. Over 30 were directly related to covid or complaints about covid. in 2022 we are missing 2 months documentation from beginning of the year.

³ was not consistently tracked until 2022.

Policy, Innovation, and Engagement (PIE)

COVID-19 Response

Performance Measure	2020	2021	2022
Responses to emails from public (askmhd covid19@milwaukee.gov)	9	3,500	164
# of assists through COVID-19 hotline	29,092	46,510	18,978
COVID-19 data dashboard views (cumulative since 2020)	361,150	480,065	548,236
COVID-19 vaccination dashboard views	N/A	367,971	N/A ¹
# of unique MHD COVID-19 website views	195,030	1,580,934	319,098
# of public health emergency orders issued	9	3	0

¹ Dashboard was taken down in 2022.

FETAL INFANT MORTALITY REVIEW (FIMR)

Fetal infant Mortality Review (FIMR)					
Performance Measure	2018	2019	2020	2021	2022
# of infant deaths	99	77	97	72	81*
Infant mortality rate per 1,000 live births	10.8	8.4	11.2	8.8	11.3*
# of stillbirths	59	67	48	48	53*
# of reviews completed	5	6	5	6	5*
% maternal interviews completed	11%	10%	0	0	0*
# of partners actively engaged	43	41	45	46	46*
% of cases analyzed	100%	100%	80% with continuing analysis	45% with continuing analysis	45% with continuing analysis*

* 2022 data is preliminary and subject to change.

Infant Mortality Rate by Race & Ethnicity (Mortality per 1,000 births)						
Year	Race / Ethnicity					
	Overall Rate	NH Black	NH White	Hispanic/Latinx	Asian	Multiracial
2015-2017	10.5	15.5	5.1	5.8	6.6	10.7
2016-2018	10.8	15.9	5.7	6.2	5.7	9.1
2017-2019	10.6	15.3	4.4	7.1	5.4	10.4
2018-2020	10.2	14.9	4.2	7.1	3.8	13.1
2019-2021	9.4	14.7	2.6	6.1	5.1	11.9
2020-2022*	10.4	N/A	N/A	N/A	N/A	N/A

* 2022 data is preliminary and subject to change.