



CITY OF MILWAUKEE
HEALTH DEPARTMENT

2023 ANNUAL REPORT
DATA SUPPLEMENT



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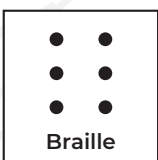


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2023 ANNUAL REPORT

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.

MHD has implemented a new format that includes a condensed main report highlighting Key Performance 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 2023 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	2019	2020	2021	2022	2023
O&M	\$16,122,871	\$14,586,057	\$16,884,600	\$12,291,820	\$18,244,554
Grant	\$9,388,247	\$29,805,644	\$33,725,720	\$31,222,619	\$24,130,331
Reimbursable	\$785,820	\$349,615	\$265	\$270	\$0
Capital	\$1,229,587	\$533,734	\$624,314	\$680,102	\$37,722
Total Expenses	\$27,526,525	\$45,275,050	\$51,234,899	\$44,194,812	\$42,412,607

* financial data is preliminary and subject to change

2023 Total Expenses by Branch

Branch	2022 Total Expenses
Commissioner's Office	\$2,705,047
Maternal and Child Health	\$7,022,701
COVID-19	\$1,341,723
Environmental Health	\$15,643,000
Clinical Services	\$8,649,924
Policy, Innovation, and Engagement	\$3,744,980
Office of Community Wellness and Safety	\$3,305,232
Total	\$42,412,607

COVID-19 Grant information

Grant Name	Funding Source	Dates of Grant Period	Amount Over Grant Period *
COVID-19 Health Disparities	Centers for Disease Control (CDC)	June 2021 - May 2024	\$6,606,781
ELC Project E: AMD Sequencing	State of WI via CDC	May 2021 - July 2024	\$1,338,255
ELC Project E: Enhancing Detection	State of WI via CDC	May 2020 - July 2024	\$9,311,998
ELC Project E: Enhancing Detection Expansion	State of WI via CDC	January 2021 - July 2024	\$5,519,885
CDC Phylodynamics	University of WI via CDC	September 2022 - September 2025	\$777,740
City ARPA: COVID-19	US Treasury - American Rescue Plan Act	March 2021 - December 2026	\$6,386,549
COVID-19 Immunizations	State of WI via CDC	June 2021 - June 2024	\$772,500
CDC Impact of Immune Failure on COVID-19	University of WI via CDC	April 2021 - May 2023	\$488,970

* The grants listed here were awarded and / or spent during 2023. The amounts in Column four are the total award in the period shown, and may include multiple award years.

O&M and Grant Expenses by Department ¹		
Department	2023 O&M Expenses	2023 Grant Expenses
Community Healthcare Access Program (CHAP)	\$272,680	\$240,045
Direct Assistance for Dads (DAD Project)	\$7,573	\$130,456
Empowering Families of Milwaukee (EFM)	\$1,009,171	\$1,502,754
Maternal and Child Health (MCH) (Strong Baby, Newborn Screening, Safe Sleep, Back To School Health Fair)	\$1,415,904	\$617,610
BOMB Doula Program	\$388,615	\$221,288
Parents Nurturing and Caring for Their Children (PNCC) and Newborn Screening ²	\$318,304	\$17,135
Women, Infants, and Children (WIC)	\$29,799	\$1,421,430
Office of Violence Prevention	\$1,344,356	\$2,188,877
Consumer Environmental Health (CEH)	\$2,807,423	(\$0)
Home Environmental Health (HEH)	\$3,237,551	\$9,510,898
Emergency Preparedness and Environmental Health (EPEH)	\$213,866	\$859,574
Infectious Disease (Communicable Disease, Tb Control, Immunizations)	\$1,632,114	\$794,787
Sexual and Reproductive Health (SRH)	\$1,283,425	\$1,058,108
Well Woman/MBCCAP	\$82,991	\$667,036
Laboratory Services	\$2,308,177	\$1,408,752
Policy, Innovation, and Engagement (PIE)	\$1,350,638	\$2,200,069
Substance Misuse / Opioid Settlement	\$237,504	\$486
Vital Statistics	\$275,615	\$907
Fetal Infant Mortality Review	\$323,939	\$431,918
COVID-19 Response	\$28,604	\$1,328,083
Total Expenses	\$18,244,311	\$24,168,297

¹ financial data is preliminary and subject to change

² PNCC Program ended services as of May 2023

Staffing					
City of Milwaukee Health Department Personnel					
	2019	2020	2021	2022	2023
O&M FTE	136.7	164.26	162.12	190.8	141.14
Non-O&M FTE	108.85	120.71	441.85	109.2	92.99
Total FTE	245.55	284.97	603.97	300	234.13

City of Milwaukee Health Department Total FTE* by Branch	
Branch	2023 FTE
Commissioner's Office	22
Maternal and Child Health	57
Environmental Health	65
Medical Services	65
Policy, Innovation, & Engagement	26

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

Vital Statistics Records					
Performance Measure	2019	2020	2021	2022	2023
Total gross income, cash receipts, and billing	\$404,584	\$535,633	\$594,254	\$465,347	\$471,015
Births registered	9,170	8,476	8,241	10,262	11,757
Deaths registered	5,931	7,220	5,075	6,643	5,532
Total death certificates issued	47706	52,649	49,194	46,447	46,447
Total birth certificates issued	10,755	17,251	23,627	15,959	18,221

MATERNAL AND CHILD HEALTH (MCH)

Birth Outcomes Made Better (BOMB) Doula					
Performance Measure	2019 ¹	2020	2021	2022	2023
# of new families enrolled	N/A	1	79	91	161
# of babies born among families enrolled	N/A	1	74	73	117
# of singleton babies born at less than 37 weeks gestation (premature)	N/A	0	10	6	11
# of singleton babies born weighing less than 2500 grams (low birthweight)	N/A	0	18	11	16
Presence of Doulas during labor/delivery (percentage)	N/A	100%	68%	81%	72%
% of Black/African American identified families enrolled	N/A	N/A	N/A	70%	69%
% of infant deaths among enrolled families (not including terminations/stillbirths)	N/A	0%	1 (1.3%)	0%	0%

¹ Did not enroll families until 12/2020 due to delays caused by COVID-19 pandemic.

Community Healthcare Access Program (CHAP)					
Performance Measure	2019	2020	2021	2022	2023
# of individuals completing applications for BadgerCare Plus (new)	627	123	99	161	179
# of individuals completing applications for BadgerCare Plus (renewals)	985	282	25	39	526 ²
# of Childless Adults applications (new)	52	78	25	26	49
# of Childless Adults applications (renewals)	158	8	9	9	10
# of Marketplace or Health Benefit Navigations	39	14	7	20	18

² 2020-2022 CHAP was significantly impacted with the automatic renewals of benefits nationwide. In 2023 there is a significant increase due to the unwinding of BC+ which started in June 2023.

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Community Healthcare Access Program (CHAP)					
Performance Measure	2019	2020	2021	2022	2023
# of Express Enrollments Applications (new and renewals)	30	5	0	0	3
# of Non-qualified Immigrant Pregnant Women ¹	63	24	22	68	68
# of FoodShare applications (new)	787	205	204	497 ²	508
# of FoodShare applications (renewals)	948	361	196	565 ²	524
# of community outreach events focused on Medicaid enrollment in which CHAP staff participate	60	20	5	9	2
# of Troubleshoots (i.e. technical assists) done by staff ³ Goal - 375 per quarter ⁴	3,173	1,513	1,308	2,043	3,364

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

² Foodshare applications / renewals significantly increased from 2021-22. CHAP's services played a major role in supporting food insecurity issues during the pandemic.

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

⁴ Total number changes year to year depending on goals of the grant.

Direct Assistance to Dads (DAD Project) Birth Outcomes					
Performance Measure	2019	2020	2021	2022	2023
# of babies born (singletons + multiples)	0	2	4	6	6
Singletons	0	2	4	6	6
Multiples	0	0	0	0	0
# of singleton babies born at less than 37 weeks gestation (premature)	0	0 ⁵	0 ⁵	0 ⁵	0 ⁵
# of singleton babies born weighing less than 2500 grams (low birthweight)	0	1 ⁵	1 ⁵	0 ⁵	1
# 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

⁵ One or more unknown values.

Empowering Families of Milwaukee (EFM) Birth Outcomes					
Performance Measure	2019	2020	2021	2022	2023
# of babies born (singletons + multiples)	73	33	39	56	80
Singletons	73	29	39	56	74
Multiples	0	4	0	0	6 ¹
# of singleton babies born at less than 37 weeks gestation (premature)	4	2	1	3	6 ²
# of singleton babies born weighing less than 2500 grams (low birthweight)	3	1	2	4	7 ³
# of infant deaths among families enrolled (babies born alive who die before age 1)	0%	1 (3%)	0%	1 (1.8%)	1 (1.25%)
# 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)	1	1	0	0	0

¹ 2 of the 6 multiples were born full term, and 4 of 6 multiples were born at a healthy birth weight.

² 92% full term; 4 of the 6 premature babies' birthing parents were enrolled within 2 weeks of delivery.

³ 91% healthy birth weight; 2 of the 7 low birth weight babies' birthing parents were enrolled after 37 weeks gestation, and 5 of 7 low birth weight babies' birthing parents were enrolled within 2 weeks of delivery.

EFM / DAD Program Outcomes					
Performance Measure	2019	2020	2021	2022	2023
% of infants (among birthing parents that enrolled prenatally) who were breastfed any amount at 6 months of age	38%	29%	31%	25%	43%
% of caregivers screened for depression within 3 months of delivery (or 3 months of enrollment is not enrolled prenatally)	56%	42%	69%	66%	81%
% of caregivers with a positive screen for depression who accepted a referral and received services	40%	0%	25%	20%	50%
% of children who received their last well-child check up	89%	72%	86%	81%	77%
% of children with a family member who read, told stories and/or sang songs with their child every day	76%	78%	72%	74%	71%
% of children with a timely screen for developmental delays using a validated tool	57%	52%	82%	74%	73%

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EFM / DAD Program Outcomes					
Performance Measure	2019	2020	2021	2022	2023
% of children with a positive screen for developmental delays whose parents accepted a referral and received service in a timely manner	50%	69%	76%	74%	40% ¹
% of caregivers who were screened for interpersonal violence within 6 months of enrollment	86%	87%	93%	87%	89%
% of caregivers who had continuous health insurance coverage for at least 6 consecutive months	88%	95%	93%	94%	96%
% of families that report an increase in their parenting skills and in their understanding of their child's development since being in the program	N/A ²	N/A ²	N/A ²	94%	97%
% of families that report an increase in their ability to manage their children's behaviors using age-appropriate discipline strategies since being in the program	N/A ²	N/A ²	N/A ²	92%	89%
% of families that report an increase in their ability to take care of the health needs of their family since being in the program	N/A ²	N/A ²	N/A ²	87%	92%

¹ 2023 metric may not be accurate due to MHD's transfer to a new electronic health records system.

² Not measured before 2022.

Infant Mortality Special Initiatives: Cribs for Kids and Strong Baby Title V					
Performance Measure	2018	2019	2020	2021	2022
# of clients served by Cribs for Kids Program	N/A	371	221	163	378
Total # of cribs distributed through classes and home visiting	611	386	401	306	335

Newborn Screening - Congenital Disorders					
Performance Measure	2019	2020	2021	2022	2023
Total number of referrals (Includes newborn blood screening and whole blood referrals received from the newborn screening laboratory and community)	103	110	140	106	67
Average # of referrals case managed monthly	9	10	12	9	13
# of babies screened by MHD	43	65	76	50	37
# of babies rescreened (birth hospital)	5	4	13	4	2
# of babies rescreened (lab)	4	11	10	9	4
# of infants identified and subsequently case managed with sickling disorder through NBS	30	26	11	11	8
# of babies with sickle cell seen in clinic by 4 months of age	29	27	11	11	13
# of infants case managed for CF	2	0	1	0	0
# of babies referred and successfully case managed for CF (that needed case management)	2	0	0	0	0
# outreach events / conferences / health fairs attended	7	1	5	4	4

Newborn Screening - Hearing					
Performance Measure	2019	2020	2021	2022	2023
# of referrals received	415	1074	922	850	674
Average number of babies case managed by RONS monthly	135	318	305	338	287
# of babies that received screening by Regional Outreach Nurse Specialist (RONS)	56	14	6	5	14
# of babies referred by Regional Outreach Nurse Specialist (RONS) to Audiology	6	1	0	1	4
# of newborns identified with hearing loss and referred to early intervention	29	46	41	28	43

Women Infants and Children Nutrition (WIC)

Performance Measure	2019	2020	2021	2022	2023
Annual Count of WIC Participation	12,903	12,500	11,809	12,090	15,052
# of infants breastfed through 3 months of age	226	236	281	360	474
# of infants breastfed through 6 months of age	167	166	184	232	329
% of infants who ever breastfed	57%	49%	55%	64%	59%
% of infants breastfed through 3 months of age	39%	37%	41%	50%	55%
% of infants breastfed through 6 months of age	21%	18%	21%	27%	33%

ENVIRONMENTAL HEALTH

Consumer Environmental Health (CEH)*

Performance Measure	2019	2020	2021	2022	2023
Number of prelicensing inspections	703	573	747	761	850
Number of 30 day inspections completed	597	245	463	589	587
Number of routine food inspections completed	2638	999	1652	2261	2603

** Data from 2018-2022 updated to include initial preinspection and all subsequent follow-up inspections on preinspections.*

5 CDC Risk Factors Percentage Breakdown - Routine Food Inspections

Cross Contamination	N/A	N/A	N/A	18.3%	19.1%
Improper Holding	N/A	N/A	N/A	22%	24.8%
Inadequate Cooking	N/A	N/A	N/A	21.2%	25.8%
Personal Hygiene	N/A	N/A	N/A	12%	6.8%
Unsafe Source	N/A	N/A	N/A	26.5%	23.5%
Total number of food inspections (prelicensing, routine, reinspections etc.)	9524	3950	6392	8480	9692
% of routine food inspections (non-mobile or temporary) with a priority violation	44%	44%	39%	42%	47%

5 CDC Risk Factors Percentage Breakdown - Temporary Event Inspections

Cross Contamination	N/A	N/A	N/A	12.3%	3.9%
Improper Holding	N/A	N/A	N/A	51.2%	65.7%
Inadequate Cooking	N/A	N/A	N/A	2.5%	7.2%
Personal Hygiene	N/A	N/A	N/A	21.2%	2.2%
Unsafe Source	N/A	N/A	N/A	12.8%	21%
Number of temporary events visited for initial inspections of vendors	N/A	N/A	N/A	94	95
Total temporary event inspections completed	454	5	316	429	384
% of temporary food inspections with a priority violation	20%	0%	29%	29%	31%

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5 CDC Risk Factors Percentage Breakdown - Mobile Food Establishments					
Cross Contamination	N/A	N/A	N/A	14%	10.6%
Improper Holding	N/A	N/A	N/A	41.8%	48.2%
Inadequate Cooking	N/A	N/A	N/A	7.6%	10.1%
Personal Hygiene	N/A	N/A	N/A	5%	5%
Unsafe Source	N/A	N/A	N/A	31.6%	26.1%
Number of mobile preinspections	115	117	157	179	207
Number of routine mobile food inspections completed	180	22	110	180	327
Total number of mobile food inspections (prelicensing, routine, reinspections etc.)	800	310	709	920	1214
% of mobile routine inspections with a priority violation	32%	47%	13%	19%	30%

Number of tattoo and body art preinspections	17	16	27	24	15
Number of tattoo and body art routine inspections	49	20	37	49	60
Total number of tattoo & body art inspections (prelicensing, routine, reinspections, etc.)	215	50	60	256	258
Number of Devices Inspected/Inspections Performed	865	737	1,123	836	1166
Number of W&M complaints	22	14	28	28	21
Number of outreach trainings conducted	N/A	N/A	N/A	151	189
Number of food complaints	701	829	641	648	590
Number of body art complaints	1	1	0	1	8
QA average rating	N/A	N/A	N/A	94.70%	99.26%

Consumer Environmental Health (CEH)							
Cases Reported							
Cases reported	2019	2020	2021	2022	2023	Three Year Average	Estimated Number of Cases Per Case Reported *
Campylobacter	99	46	67	64	97	76	30
E. coli 0157	13	1	12	22	17	17	26
Listeria	0	0	0	0	3	1	2
Salmonella	75	52	69	76	59	68	29
Vibrio	1	1	2	1	3	2	142
Yersinia	0	2	2	4	11	6	123

* City of Milwaukee enteric disease cases from Wisconsin Electronic Disease Surveillance System on January 6, 2020. Data is provisional and subject to change.

Consumer Environmental Health (CEH)								
Incidence per 100,000 ¹								
Cases reported	2019	2020	2021	2022	2023	Three Year Average	Healthy People 2030 Target ²	Healthy People 2030 Status ³ (Met / Not Met)
Campylobacter	16.6	7.7	11.6	10.7	16.3	13.5	10.9	not met
E. coli 0157	2.2	0.2	2.1	3.7	2.9	3.3	3.7	met
Listeria	0.0	0.0	0.0	0.0	0.5	0.25	0.22	not met
Salmonella	12.6	8.7	12.0	12.8	9.9	11.3	10.6	met
Vibrio	0.2	0.2	0.3	0.17	0.5	0.3	N/A	N/A
Yersinia	0.0	0.3	0.3	0.7	1.8	1.3	N/A	N/A

¹ Incidence calculated using 2010 U.S. Census Population data.

² Food Safety, Healthy People 2030 - <https://health.gov/healthypeople>

³ Based on comparison between City of Milwaukee incidence with 2030 target.

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

Emergency Preparedness and Environmental Health (EPEH)

Emergency Preparedness

Performance Measure	2019	2020	2021	2022	2023
% of employees who have completed required Incident Command System (ICS) training	91%	90%+	90+%	90+%	90+%
% of staff successfully receiving exercised emergency notification messaging	95%	90%	85%	90%	89%
# of emergency preparedness exercises completed	N/A	10	Active Response	Active Response	4
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	76%	52%	60%	80%
# of staff respirator fit tests completed	N/A	42	56	78	45
# of Safety Committee Meetings conducted	N/A	11	17	10	8
# of facility chemical storage plans reviewed as part of the Local Emergency Planning Committee (LEPC)	42	25	64	50	48
# of days cooling/warming shelter open	N/A	4	0	5	0
# of needle/infectious waste removals completed	N/A	60	60	45	30

Emergency Preparedness and Environmental Health (EPEH)

Environmental Health

Performance Measure	2019	2020	2021	2022	2023
# of beach water samples collected for pathogenic testing	169	148	139	137	131 ¹
# of water samples collected for annual Milwaukee Triathlon for pathogenic testing	N/A	N/A	18	18	32
# of water quality advisories issued for City of Milwaukee beaches	293	171	102	102	72
# of closures of individual beaches	5	33	22	9	17 ²
# of swim advisories of individual beaches	N/A	N/A	N/A	31	22 ³
# of meetings attended for Milwaukee water quality (beaches and floodplain) as part of multi-agency Milwaukee Estuary Area of Concern workgroups	N/A	7	10	6	16
# of potable water samples collected for health surveillance at Summerfest Grounds	202	0	187	282	255
Annual Infectious Waste Reports submitted to DNR	3	3	3	3	3
# of on-site inspections/ outreach conducted independantly or with State or other agencies regarding vapor intrusion concerns or other HAZMAT/environmental issues	N/A	N/A	5	24	25
# of public and/or formal multi-agency meetings re: vapor intrusion/ indoor air quality	N/A	N/A	N/A	N/A	13 ⁴
# of phone consultations regarding mold and other environmental health concerns	N/A	N/A	N/A	N/A	166
# of Safety Drills and Safety Trainings conducted	N/A	N/A	N/A	N/A	10
# of Safety Committee meetings	10	7	17	10	8
# of Safety Workgroup/ Sub-Committee meetings	N/A	N/A	N/A	N/A	23 ⁵
# of meetings attended as part of multi-agency CAT children's asthma workgroup	N/A	N/A	9	12	6

¹ Number affected downward by closure of McKinley.

² 12 of these were for dangerous currents, not water quality.

³ 10 of these were for heavy rains.

⁴ Community Within the Corridor accounted for most of this activity.

⁵ Expanded number, activity of subcommittees in 2024.

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Environmental Health					
Performance Measure	2019	2020	2021	2022	2023
# of confirmed cases of West Nile Virus (WNV) in the City of Milwaukee ¹	0	0	2	1	5
Potential rabies exposure consultation with citizens, veterinarians, pet owners, health care providers	N/A	N/A	N/A	N/A	94
Arranged post-mortem testing of animals in possible human /pet exposures - bats, opossums, raccoons, dogs, cats	N/A	N/A	N/A	N/A	30 estimated ²
# of possible Carbon Monoxide exposures investigated - exposure prevention information provided/offered	N/A	N/A	N/A	N/A	94 ³
# of Vapor Intrusion Cases with health risk concerns requiring MHD involvement	N/A	N/A	N/A	N/A	8
# of Shelters that had an HVAC Assessments Complete with intention of Improving Indoor Air Quality	N/A	N/A	N/A	N/A	13
# of Corsi Rosenthal Boxes (DIY Air Cleaners) distributed	N/A	N/A	N/A	N/A	177
# of In-Home Childcares enrolled in IAQ Education	N/A	N/A	N/A	N/A	231

¹ WEDSS has reclassified this for reporting purposes, but we have had no related activities (larviciding of sewer basins) for several years.

² Dates of delivery were not kept for several month period 2022-2023. This is conservative estimate for 2023, 26 were confirmed.

³ Took over from CD early in the year.

Emergency Preparedness and Env. Health (EPEH)

COVID-19 Response

Performance Measure	FY 2020	FY 2021	FY 2022	FY 2023
# of total diagnostic tests performed	311,175	127,361	53,592	3,920
# of tests performed at COVID-19 isolation facility (includes MFD testing site FY 2020)	3,127	633	175	982 ¹
# of tests performed at community testing sites	305,316	124,791	51,631	2,218
# of tests performed at place-based testing sites	2,574	1,848	1,786	720 ²
# of place-based testing clinics completed	126	94	25	4 ³
# of total vaccinations administered	N/A	216,853	21,138	1,874
# of vaccinations administered at mobile vaccination clinics	N/A	19,414	8,253	580 ⁴
# of mobile vaccination clinics	N/A	568	355	72 ⁵
# of phone calls to COVID-19 Hotline ¹	25,408	46,510	18,977	10,780 ⁶
# of COVID-19 isolation and warming clients served	234	254	393	260 ⁷
# of masks provided to distribution sites	481,425	20,960	1,181,565	48,952
# of COVID-19 antigen tests provided to distribution sites	N/A	N/A	35,810	159,228
# of COVID-19 hazard assessments completed	46	27	6	1
# of COVID-19 subject matter expert presentations	15	8	5	0

¹ 2023 includes isolation / warming facility (Sisters Hall).

² 18 BinaxNow 40-pks from 1/1/23 to 3/8/23 (Salvation Army).

³ 1/1/23 to 3/8/23 (Salvation Army).

⁴ Missing numbers from 10 clinics, mainly from childhood imms clinics (estimated additional ~100 doses)

⁵ Around 64 were specific COVID Flu / Clinics and 8 included childhood immunizations

⁶ Calls not specific to COVID. Phone number became the general MHD Hotline.

⁷ Sisters Hall from January to March 2023.

Home Environmental Health (HEH)					
Performance Measure	2019	2020	2021	2022	2023
Lead Hazard Reduction					
Number of lead inspections completed ¹	193	130	121	163	271
Number of risk assessments completed ²	209	119	130	159	247
Number of permits issued ²	236	250	279	379	390
Number of MHD final clearances	163	123	155	144	189
Number of families provided relocation service	51	53	62	50	53
Number of units with orders issued	183	102	165	188	271 ³

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

² Increased funding from HUD, CDBG, and ARPA resulted in an increase in caseloads, risks assessments, and permits issued.

³ Significant Increase due to HEH enforcement efforts.

Healthy Homes					
Number of Healthy Homes assessments completed	51	53	83	52	40

Lead Surveillance and Responses					
Number of EBL outreach letters sent	3,952	2,102	2,064	2,538	5,293
Number of new children referred for nurse case management	71	48	87	109	204 ⁴
Number of children requiring chelation	12	9	16	6	16 ⁵
Number of chelation events	15	11	23	10	24 ⁵
Number of nurse cases closed	124	53	101	69	170
Number of nurse case management outreach interventions	2,628	4,674	7,979	6,025	8,738 ⁶
Number of initial developmental screenings completed	113	187	74	83	106

⁴ PHN referrals increasing. HEH lowered intervention levels despite vacancies and staff turnover.

⁵ Increased number of chelated children and chelation events.

⁶ Increased program activity and PHN outreach efforts.

Division Metrics					
Total combined revenue generated from lead billing	\$95,200	\$54,650	\$90,900	\$59,050 ⁷	\$125,475
Revenue generated from environmental investigation	\$86,300	\$489,000	\$81,975	\$56,625	\$85,100
Revenue generated from lead abatement licenses	N/A	N/A	N/A	N/A	\$29,025
Revenue generated from case management billing	\$8,900	\$5,650	\$8,925	\$2,425	\$5,050
Revenue generated from reinspection fees	N/A	N/A	N/A	N/A	\$6,300
Number of outreach events attended	36	4	12	11	15 ⁸

⁷ 2022 data onward presents actual revenue. Previous years may present billing claims.

⁸ Outreach events in 2023 reached approximately 1,700 people.

Home Environmental Health (HEH)					
Performance Measure	2019	2020	2021	2022	2023
Lead Epidemiology					
Number of reported blood lead tests ¹	36,536	25,571	23,591	24,775	27,944
Total Number of children tested	27,219	20,799	19,990	20,792	22,169
Number of reported blood lead tests for children under 72 months	34,979	24,561	22,676	23,662	26,340
Total number of children under 72 months tested	25,792	19,899 ²	19,179 ²	19,807 ²	20,833 ²
Number of children under 72 months – 3.5-4.9 µg/dL ³	N/A	N/A	904	979	1,272
Number of children under 72 months – 5-9.9 µg/dL	1,466	908	720	770	964
Number of children under 72 months – 10-14.9 µg/dL	292	213	170	154	173
Number of children under 72 months – 15-19.9 µg/dL	117	82	59	57	60
Number of children under 72 months – 20-39.9 µg/dL	104	66	69	61	76
Number of children under 72 months – Greater than 40 µg/dL	14	9	22	11	24
Percent of children under 72 months – Greater than 3.5 µg/dL	N/A	N/A	10.1%	10.3%	12.3%
Percent of children under 72 months – Greater than 5 µg/dL	7.7%	6.4%	5.4%	5.3%	6.2%
Percent of children under 72 months – Greater than 10 µg/dL	2.0%	1.8%	1.7%	1.4%	1.6%
Percent of children 12 to 35 months of age with at least 1 reported blood lead test	74.6%	61.1%	57.1%	64.9%	69.1%

¹ To 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. 2023 epidemiology data presented is preliminary.

² Blood lead 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.

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

CLINICAL SERVICES

Infectious Disease (ID)					
Performance Measure	2019	2020	2021	2022	2023
Communicable Disease					
# of cases of CD reported ¹	3,262	2,893	3,891	4,249	1,297
# of reportable CD cases followed-up by CD Program ²	1,079	447	750	1,463	1,189
# of COVID-19 cases MHD attempted to contact	N/A	52,295	44,470	23,661	N/A

¹ These numbers do not include COVID-19, influenza associated hospitalizations, tuberculosis, or sexually transmitted infections.

² These numbers do not include COVID-19 cases.

Immunizations					
# of clients immunized ³	2,479	4,832	219,291	23,652	3,578
# of immunizations provided ³	6,859	4,284	119,753	33,856	7,225
# of offsite immunization clinics	17	0	0	13	39
School / childcare education sessions provided	3	0	0	3	3
# of two-year-old reminder/recall letters mailed	3,612	988	0	4,021	1,768
% of two-year-olds in the City of Milwaukee who are up to date on their immunizations by 24 months of age	62%	58%	57%	57%	58%
% of children in compliance with school required immunizations	91%	92%	83%	92%	79%

³ These numbers now include COVID-19 vaccinations, change from 2022.

Flu Vaccination Rates by Age					
Performance Measure	2018-19	2019-20	2020-21	2021-22	2022-23
0-17 years	38%	40%	37%	29%	24.1
18-64 years	36%	40%	44%	38%	18.6
65 years and older	54%	60%	63%	56%	38.7

Infectious Disease (ID)					
Tuberculosis					
Performance Measure	2019	2020	2021	2022	2023
# of chest x-rays performed at KHC	192	123	171	127	123
# of TB clinic visits	463	236	266	240	197
# of Directly Observed Therapy home visits	2,008	670	1,023	901	1,201
# of refugees with a Class B designation who were provided services (e.g., evaluations, treatment, and other TB care)	23	11	13	40	52
# of cases of tuberculosis in the City of Milwaukee	14	9	11	12	12
# of clients provided TB case management by MHD	14	9	11	12	12
# of cases of multi drug-resistant TB in Milwaukee	0	0	0	1	0

Milwaukee Breast and Cervical Cancer Awareness Program (MBCCAP)					
Performance Measure	2019	2020	2021	2022	2023
Screening Objective (unduplicated)	900	700	900	950	1400
# Milwaukee residents ages 35-64 yrs screened for breast and cervical cancer (unduplicated)	1,057	885	1,121	948	1223
Total # breast cancer screenings through internal or external providers	1,008	792	838	985	1146
# breast cancer screenings, in-house	474	365	327	341	488
# breast screenings, provider	544	427	511	644	658
Total # cervical cancer screenings provided	74	75	89	130	77
# cervical screenings in-house	71	71	84	125	72
# cervical screenings, provider	3	4	5	5	5
# of community events	21	0 ¹	0 ¹	5	7
# of diagnostic services provided	N/A	N/A	N/A	728	401
# of clients enrolled in Medicaid by MBCCAP	N/A	N/A	N/A	30	7

¹ Unable to host events in 2020 or 2021 due to COVID-19 pandemic.

Sexual and Reproductive Health (SRH)					
Performance Measure	2019	2020	2021	2022	2023
# of clinic visits at KHC (duplicated patients)	5,262	5,415	5,390	6,241	6734
# of persons tested for STIs (unduplicated as of 2022)	4,486	4,425	5,350	3256	4597
# of persons turned away due to clinic capacity limitations	520	393	118	35	13
# of HIV tests conducted	3,581	3,367	3,370	3,431	3051
# of condoms distributed at KHC	19,000 (Jan - May)	100,000	92,000	98,085	124,854
# of persons provided emergency contraception	363	155	278	375	603
# of positive HIV tests	34	45	39	22	15
# of positive gonorrhea tests	1,930	1,967	1,601	1,186	795
# of positive syphilis tests	519	594	688	606	599
# of STI/HIV cases assigned for case management by MHD staff ¹	915	1,109	1,036	1,556	1,466
# of new HIV infections identified in the City of Milwaukee	106	97	100	113	90 ²
# of cases of gonorrhea in the City of Milwaukee	4,686	4,786	5,072	4,907	3,985
# of cases of primary and secondary syphilis in the City of Milwaukee	97	192	445	437	294
# of cases of chlamydia in the City of Milwaukee	10,343	9,405	9,623	9,215	9,127
% of HIV cases linked to care within 1 month of diagnosis in the City of Milwaukee	78%	81%	74%	78%	84% ³

All metrics specific to Keenan Health Center

¹ This does not include HIV. 2019-2023 data appears to only include Chlamydia, Gonorrhea, Syphilis.

² 2023 count is provisional and subject to change.

³ 2023 count is provisional and subject to change.

MILWAUKEE HEALTH DEPARTMENT LABORATORY (MHDL)

Milwaukee Health Department Laboratory (MHDL)					
Performance Measure	2019	2020	2021	2022	2023
Tests Performed: Communicable Diseases					
Respiratory pathogens	687	386	562	423	297
SARS-CoV-2 (COVID-19)	N/A	26,649	14,028	4771	note ¹
Gastrointestinal pathogens	210	215	260	157	126
Syphilis	7,318	5,838	6,900	7,725	8,054
Chlamydia	13,709	10,350	11,562	11,742	12,583
Gonorrhea	18,266	13,532	14,024	14,048	14,879
Mycoplasma	1,596	1,288	1,722	2,502	1,346
Trichomonas	4,528	4,365	5,295	5,281	5,975
HIV	3,698	3,415	3,586	3,836	4,084
Herpes	364	283	354	330	395
Other (Clinical/Reference)	212	553	568	223	245

¹ This metric Included above in respiratory pathogens.

Tests Performed: Environmental Health					
Lead in dust wipes, paint, soil	6,137	3,956	6,931	6,963	11,291 ²
Lead in Water	1,428	979	514	580	793
Blood Lead	N/A	N/A	N/A	76	49 ³
Summerfest Water (Potable)	613	0	601	624	526
Beach Water (Recreational)	175	147	140	137	135
Water Treatment Plant (raw and finished water- Potable; Cryptosporidium, Giardia and culturable viruses)	72	86	98	84	78
Harmful Algal Blooms	44	15	15	13	0 ⁴
SARS-CoV-2 (Air sampling)	N/A	N/A	N/A	205	44
Other (Environmental/Reference)	439	414	130	384	3

² The lab performed nearly twice as many lead tests as last year.

³ MHDL Partnered with Children's Hospital of WI to increase blood lead testing of at-risk youth.

⁴ Discontinued.

Milwaukee Health Department Laboratory (MHDL)

Performance Measure	2019	2020	2021	2022	2023
Other Performance Measures					
# of LRN Activities: Bio-threat Detection (included proficiency testing)	24	11	14	14	31
# of active grants	7	9	13	17	7
# of grant applications submitted	8	8	9	9	3
# of grants applied for awarded	4	4	8	8	3

Outcome Measures					
# of positive HIV cases reported	28	20	23	27	24
# Mycoplasma genitalium infections detected	354	351	380	288	125
# of clients using self-collect option at Sexual Health Clinic	82	692	567	799	1,178
# of COVID samples sequenced	N/A	209	2,098	6,828	1,160
# of water samples with elevated lead (5 ppb and up)	99	141	79	35	28
# of certifications maintained ¹	7	7	7	7	7
# of successful regulatory inspections	3	3	3	6	2 ²

¹ The 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)

² CLIA and DSAT

Customer and Community Impact Measures					
# of clients/partners served	51	96	70	55	49
# of residential soil samples tested	104	82	120	85	126
Monthly e-reports to clinical partners & stakeholders (12 per calendar year) on laboratory surveillance	100%	100%	100%	100%	100%
# of interns and fellows hosted	4	4	7	7	7

POLICY, INNOVATION, AND ENGAGEMENT (PIE)

Policy, Innovation, and Engagement (PIE)					
Performance Measure	2019	2020	2021	2022	2023
Records Requests					
# of data requests (internal and external)	N/A	N/A	N/A	324	33
# of open record requests	N/A	146	127	66	90

Workplace Development					
# of student and fellow placements at MHD	N/A	N/A	N/A	23	36
# of active Academic Affiliation Agreements	15	19	21	29	29
# of policies revised	N/A	N/A	N/A	61	20

Substance Misuse Initiatives					
Number of Narcan kits distributed	N/A	403	582	1,546	2,772
Number of Fentanyl test Strips distributed	N/A	N/A	1,500	10,954	24,593

Communication and Community Engagement					
# of MHD website unique visits	37,584	108,954	401,049	373,901	1.6 million ¹
# of press releases	N/A	N/A	N/A	75	20
# of graphic requests	N/A	N/A	N/A	N/A	200 +

¹ Total of 1.6 million visits to the MHD website, including 602,000 visits from first-time users.

Social Media Breakdown By Platform					
Facebook					
Engagement	N/A	N/A	N/A	8,111	1,500
Total people reached	N/A	N/A	N/A	1,185,641	784,000
Instagram					
Engagement ²	N/A	N/A	N/A	10,544	3,800
Total people reached ³	N/A	N/A	N/A	84,484	127,000
Twitter					
Engagement	N/A	N/A	N/A	4,063	2,800
Total people reached	N/A	N/A	N/A	378,981	78,000

² **Engagement:** the cumulative number of reactions, comments and shares on social media posts.

³ **Reach:** the number of unique people who see our content.

FETAL INFANT MORTALITY REVIEW (FIMR)

Fetal Infant Mortality Review (FIMR)					
Performance Measure	2019	2020	2021	2022	2023 ¹
# of infant deaths	77	97	68	69	67
Infant mortality rate per 1,000 live births	8.4	11.2	8.26	8.77	9
# of stillbirths ²	67	48	47	46	25
# of reviews completed	6	5	6	5	6
% maternal interviews completed	10%	0	0	0	0
# of partners actively engaged	41	45	46	46	55
% of cases analyzed	100%	80% with continuing analysis	50% with continuing analysis	50% with continuing analysis	37% with continuing analysis

¹ 2023 data is preliminary and subject to change.

² Stillbirth defined as being 20 weeks gestation or more, OR weighing 350 grams or more at birth.

Infant Mortality Rate by Race & Ethnicity (Mortality per 1,000 births)						
Year	Race / Ethnicity					
	Overall Rate	NH Black ³	NH White ³	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	9.27	13.69	2.99	6	4.04	4.1
2020 - 2022	9.41	13	4.36	6	5.65	4
2021-2023 ⁴	8.77	11.34	3.96	6.1	6.26	6.79

³ NH = Non-Hispanic.

⁴ 2023 data is preliminary and subject to change.