
Annual Report 2017

Protecting the interests of deceased individuals, their
loved ones and the community



Milwaukee County Medical Examiner
933 West Highland Avenue
Milwaukee, Wisconsin 53233

Table of Contents

Page

MISSION STATEMENT	3
PURPOSE AND FUNCTION	4
DEPARTMENT AUTHORITY	5
GLOSSARY OF TERMS	6 - 7
HOW AND WHY THE MEDICAL EXAMINERS OFFICE FUNCTIONS	8 - 9
FINANCIAL ASPECTS OF THE MEDICAL EXAMINES OFFICE	10
SUMMARY DATA – MEDICAL EXAMINER CASES	11
DEATHS BY MANNER	
ACCIDENT	12 - 15
NATURAL	16 - 19
SUICIDE	20 - 21
HOMICIDE	22 - 23
UNDETERMINED	24 - 26
MEDICAL EXAMINER ACTIVITIES	27 - 28



Mission Statement

- To promote and maintain the highest professional standards in the field of death investigation;
- To provide timely, accurate and legally defensible determinations as to the cause and manner of death;
- To enhance public health and safety through reducing the incidence of preventable deaths;
- To foster public awareness and support the advancement of professional medical and legal education; and,
- To protect the interests of deceased individuals, their loved ones, and the communities we serve.

The Purpose and Function of the Medical Examiner's Office

The purpose and function of the Milwaukee County Medical Examiner's Office (MCMEO) is to determine the cause and manner of death in those deaths that fall under the jurisdiction of the Medical Examiner's Office (as outlined in WI State Statute 979.01).

The Medical Examiner's Office staff applies their knowledge and experience in the field of death investigation and forensic pathology to perform comprehensive, professional investigations, which clarify the circumstances surrounding these deaths. Through the identification, documentation and accurate interpretation of relevant forensic scientific information, the Medical Examiner's Office may provide information for use in criminal and civil litigation. This information may also serve to protect public health and safety by identifying contagious diseases; by identifying environmental hazards in the workplace, home and community; and, by tracking local mortality trends (trends in homicides, suicides, motor vehicle fatalities, drug and alcohol related deaths, etc.). As part of our investigation, we may collect evidence, obtain laboratory specimens, and make positive identification of decedents.

The MCMEO is also committed to providing service to other Wisconsin counties, through the performance of forensic autopsies, assistance with training and education, and consultation on medicolegal issues. It is the ultimate goal of the office to lead the way in standardizing, improving and professionalizing death investigation in the State of Wisconsin.

Department Authority

Section 979.01 Wisconsin Statutes requires that any person having knowledge of an unexplained, unusual, or suspicious death, or a death due to homicide, suicide, or a death following an accident, whether the injury is or is not the primary cause of death, a death without a physician in attendance within 30 days preceding death, a death in which the attending physician refuses to sign the death certificate, etc., shall report such death to the medical examiner for investigation. Investigations are conducted by the office for certifying cause and manner of death. Furthermore, if a death appears to be a result of unlawful means, it is reported to the District Attorney pursuant to §979.04 (2), as well as the appropriate local law enforcement agency, for further investigation, and possible criminal prosecution.

Additional investigative responsibilities described in §979.10 direct the medical examiner to view the remains, and make an investigation into the cause and manner of all deaths in which the next-of-kin selected cremation for disposition.

Glossary of Terms

Cremation	A means for the disposition of human remains after death, consisting of the application of heat to reduce the remains to ashes. A document authorizing the cremation of human remains is required under the law prior to cremation. The medical examiner/coroner for the county in which the cremation is to be performed must authorize such disposition upon review and investigation of the death.
Death certificate	A document signed by a physician, medical examiner or coroner testifying that the circumstances and cause of death as contained in the certificate are verified by the certifier. This certification process is used for legal and evidentiary purposes in matters pertaining to the estate of the decedent, as well as for public health and vital records purposes.
Drug	Medication or substance other than food used for therapeutic or other (recreational) use. A <i>therapeutic</i> drug is a medication or substance used in the prevention, diagnosis or treatment of a disease or symptom. A <i>recreational</i> drug is a substance used for its personal stimulation, euphoria or mood-altering properties (includes alcohol).
Jurisdiction	The medical examiner accepts jurisdiction on all deaths properly reported to this office under WI Statute §979, as described in the Department Authority section of this report. Not all deaths occurring in Milwaukee County are “reportable deaths” within the jurisdiction of the medical examiner.
Manner of death	The classification of circumstances surrounding the cause of death of an individual, as determined by the medical examiner and certified on the death certificate. The standard manners of death as used in death certification include: natural, accident, suicide, homicide and undetermined.
Natural	The cause of death is a physical disease of the body, ultimately resulting in cessation of bodily functions.
Accident	The cause of death is an unintentional injury, caused by a condition or agent external to the decedent.
Suicide	The death is the result of a purposeful action toward the taking of one’s own life.

Glossary of Terms (Continued)

Homicide	The death is the result of an intentional harmful act of another person, whether or not that action was intended to cause death.
Undetermined	A death is certified as undetermined when, after complete investigation, insufficient evidence remains to make a complete determination as to one of the above classifications.
Poison	A “toxin” is a substance that can harm an organism by other than mechanical means. “Poison” simply means “too much,” as even therapeutically useful substances can cause harm when given at high levels.
Race	The ethnic category to which an individual is assigned for vital statistics reporting. The categories used in this report are: African American, Asian/Pacific Islander, Caucasian, Eastern Indian, Hispanic, Multi-racial, and Native American.
Trauma NOS	This refers to trauma from a cause that is not otherwise specified or does not meet the definitions of other categories.

How and Why the Medical Examiner's Office Functions

Approximately 8,000 to 9,000 deaths occur in Milwaukee County annually. With a population of over 951,000, this equates to approximately 1 percent of the population per year. Many deaths occur in hospitals, nursing homes, hospice care or under the immediate care of a physician and are not unexpected deaths. Others occur as the result of obvious non-natural events (accidents, suicides and homicides). Many of the remaining deaths are unexplained, unexpected and/or suspicious.

All deaths in the State of Wisconsin must be explained by means of a certified death certificate, a legal document which is kept on permanent file with the county and state vital records offices. This document must be filled out and signed by a medical physician caring for the deceased, or by a Medical Examiner/Coroner who has assumed legal jurisdiction over the death. Only a Medical Examiner or Coroner can certify a death as an accident, suicide or homicide because these cases must be investigated by the proper authorities.

In the State of Wisconsin, a county must establish an office to investigate unexplained and non-natural deaths. This office must be run by a Coroner (an elected official) or a Medical Examiner (an official appointed by the County Executive and/or County Board). In most counties in Wisconsin, Coroners and Medical Examiners are not required to be physicians or forensic pathologists. However, due to the population of Milwaukee County, Milwaukee County is required to have a Board-Certified Forensic Pathologist as its Medical Examiner.

As mentioned above, the criteria for assuming jurisdiction over a death is outlined in WI state statute 979.01. This statute details that when a person becomes aware of a death occurring in Milwaukee County and it is known to be related to non-natural causes, or if it is felt to meet one of the criteria spelled out in the statute, the death must be reported to the Milwaukee County Medical Examiner's Office (MCMEO).

Upon receiving notification of a death, the death will be assigned to a forensic investigator to investigate the circumstances and to determine if the death indeed falls within the authority of the office, based on state statute 979.01. If the death is felt to not fall under its authority, jurisdiction will be declined, and the certification of the death certificate will be referred to the decedent's personal physician. If no physician can be found or if the physician refuses to sign the death certificate, MCMEO will assume jurisdiction and certify the death.

If the death is felt to fall under the jurisdiction of the MCMEO, the next step will be to determine what level of investigation is necessary to determine the cause and manner of death.

Every death is evaluated individually to determine what level of investigation is needed. Some cases may be adequately investigated by obtaining medical records, performing an external exam of the body, and speaking to physicians, family members and/or witnesses. Some cases may require a scene investigation where the forensic investigator goes to the scene of the death to investigate. Some will require an autopsy and toxicology studies. Some may

Milwaukee County Medical Examiner Annual Report 2017

require additional laboratory studies, follow-up interviews, and the review of police reports and other records.

A typical case requires many hours to determine the cause and manner of death. A complex case can take weeks or months and require extensive investigation and research by the MCMEO. Specimens sent to outside laboratories for preparation and/or testing may delay the completion of a case for weeks to months.

In the end, all information collected from the investigation is utilized to determine the cause and manner of death. The office generates an investigative report on each case reported, with autopsy or external examination reports generated for every decedent examined by the forensic pathologist. Diagrams, digital photographs and other documentation are also maintained in the permanent file/database.

Often, the forensic pathologist is required to testify in court with regards to his or her findings and opinions. While most of this testimony is related to criminal cases, the pathologists occasionally testify in civil proceedings, as well.

Financial Aspects of the MCMEO

The MCMEO is a county department, which utilizes tax dollars to operate. In addition to this, MCMEO generates revenue from its services thereby offsetting costs and diminishing its reliance on the tax levy. In 2017, approximately 64 percent of the total operating budget was paid for by revenue dollars.

Revenue is generated by charging fees for cremation permits, as well as completing death certifications. Body transport is also charged at cost but covers the expense of transport for this office. Other counties utilizing the services of the office are charged for the performance of referral autopsies and for expert witness testimony by the forensic pathologists and/or toxicologists. The office also charges a rental fee to a Wisconsin tissue procurement organization to use the autopsy suite for tissue procurement procedures, and temporary body storage.

Milwaukee County Medical Examiner Annual Report 2017

Deaths in Milwaukee County in 2017 (by Manner of Death)

MANNER	NUMBER	PERCENTAGE
Accident	798	42%
Natural	750	39%
Suicide	156	8%
Homicide	142	7%
Undetermined	59	3%

ME CASES JURISDICTION ACCEPTED	1,905
CREMATION ONLY INVESTIGATIONS	3,002
JURISDICTION WAIVED	954
NON-REPORTABLE	457
CONSULTATION EXAM/OTHER JURISDICTION	468

There were 7,003 deaths reported to the Milwaukee County Milwaukee County in calendar year 2017.

Of the 1,905 cases where jurisdiction was accepted, 999 cases were autopsied (52%). Additionally, 49 external exams (20 external exam-only and 29 external exams with toxicology), and 9 private autopsies for suspected CJD cases were performed. The Milwaukee County Medical Examiner's office does not perform partial autopsies or allow hospitals to perform autopsies under its jurisdiction. Autopsies were not performed in deaths where the reported circumstances, scene investigation, medical history or external examination offered information sufficient to certify the death. All suicides, homicides and most accidental deaths underwent autopsy.

Milwaukee County Medical Examiner Annual Report 2017

Deaths by Manner: **Accident**

For the first time, accidental deaths outpaced natural deaths, primarily due to the increased amount of drug-related deaths. Accidental death refers to unintentional deaths resulting from interaction with a “hostile environment” such as drowning or fire.

In 2017, 798 deaths were certified as accidents and comprised 42% of all deaths investigated, compared to 751 (41%) in 2016. The two most frequent causes of accidental death across all age groups were drug-related with 377 deaths (47%) and falls with 245 (31%) deaths.

2017 Accidental Deaths By Age and Gender

Death Type/Age Category		<1	1 - 5	6 - 12	13 - 17	18 - 25	26 - 55	56 - 74	75+	Total
Not Otherwise Specified	Female	0	0	0	0	0	1	0	1	2
	Male	0	0	0	0	0	1	0	0	1
		0	0	0	0	0	2	0	1	3
Alcohol Related	Male	0	0	0	0	0	4	2	0	6
	Female	0	0	0	0	0	3	0	0	3
		0	0	0	0	0	7	2	0	9
Asphyxia	Female	1	0	0	0	0	1	2	3	7
	Male	7	0	1	0	1	4	5	1	19
		8	0	1	0	1	5	7	4	26
Blunt Force Trauma	Male	0	0	0	1	2	4	5	1	13
	Female	0	0	0	0	0	0	1	3	4
		0	0	0	1	2	4	6	4	17
Burn	Female	0	0	0	0	0	0	1	0	1
	Male	0	0	0	0	0	0	2	0	2
		0	0	0	0	0	0	3	0	3
Carbon Monoxide (non-fire)	Male	0	0	0	0	0	1	0	0	1
		0	0	0	0	0	1	0	0	1
Cardiovascular	Female	0	0	0	0	0	0	1	0	1
		0	0	0	0	0	0	1	0	1
Drowning (non-boat)	Male	0	0	0	2	2	7	0	0	11
	Female	0	0	0	0	0	1	1	0	2
		0	0	0	2	2	8	1	0	13
Drug Related	Male	0	1	0	1	27	170	48	0	247
	Female	0	0	0	0	8	103	19	0	130

Milwaukee County Medical Examiner Annual Report 2017

		0	1	0	1	35	273	67	0	377
Environmental Exposure	Male	0	0	0	0	0	4	1	1	6
	Female	0	0	0	0	0	1	0	2	3
		0	0	0	0	0	5	1	3	9
Falls	Female	0	0	0	0	0	3	13	128	144
	Male	0	0	0	0	0	8	31	62	101
		0	0	0	0	0	11	44	190	245
Fire Related Injury	Male	0	0	0	0	1	0	2	0	3
	Female	0	0	0	0	0	1	1	0	2
		0	0	0	0	1	1	3	0	5
Industrial	Male	0	0	0	0	0	1	0	0	1
		0	0	0	0	0	1	0	0	1
Motorized Vehicle - Driver	Male	0	0	0	1	8	21	5	2	37
	Female	0	0	0	0	0	6	4	1	11
		0	0	0	1	8	27	9	3	48
Motorized Vehicle - Passenger	Male	0	0	0	1	5	3	1	0	10
	Female	0	1	0	1	1	1	1	1	6
		0	1	0	2	6	4	2	1	16
Motorized Vehicle - Pedestrian	Male	0	0	0	1	2	6	7	1	17
	Female	0	0	0	0	0	2	3	1	6
		0	0	0	1	2	8	10	2	23
Non-Powered Vehicle - occupant	Male	0	0	0	0	0	0	1	0	1
		0	0	0	0	0	0	1	0	1
Therapy Related Trauma	Male	0	0	0	0	0	0	1	0	1
		0	0	0	0	0	0	1	0	1
Water Related Incident	Male	0	0	0	0	0	0	1	0	1
		0	0	0	0	0	0	1	0	1
Total		8	2	1	8	57	356	158	208	798

Milwaukee County Medical Examiner Annual Report 2017

2017 Accidental Deaths by Race and Gender

Death Type/Race		Unk.	Asian/Pacific Islander	Black	Hispanic	Multi- Racial	Native American	White	Total
	Female	0	0	1	0	0	0	1	2
	Male	0	0	0	1	0	0	0	1
		0	0	1	1	0	0	1	3
Alcohol Related	Female	0	0	2	0	0	0	1	3
	Male	0	0	1	2	1	0	2	6
		0	0	3	2	1	0	3	9
Asphyxia	Female	0	0	2	0	0	0	5	7
	Male	0	0	5	5	1	0	8	19
		0	0	7	5	1	0	13	26
Blunt Force Trauma	Female	0	0	0	0	0	0	4	4
	Male	0	0	5	2	0	0	6	13
		0	0	5	2	0	0	10	17
Burn	Female	0	0	1	0	0	0	0	1
	Male	0	0	2	0	0	0	0	2
		0	0	3	0	0	0	0	3
Carbon Monoxide	Male	0	0	0	1	0	0	0	1
Cardiovascular	Female	0	0	0	0	0	0	1	1
Drowning (non- boat)	Female	0	0	1	0	0	0	1	2
	Male	0	0	6	3	0	0	2	11
		0	0	7	3	0	0	3	13
Drug Related	Female	0	1	24	12	1	3	89	130
	Male	1	2	60	27	1	1	155	247
		1	3	84	39	2	4	244	377
Environmental Exposure	Female	0	0	2	0	0	0	1	3
	Male	0	0	4	1	0	0	1	6
		0	0	6	1	0	0	2	9
Falls	Female	0	1	14	5	0	0	124	144
	Male	0	1	12	6	0	1	81	101
		0	2	26	11	0	1	205	245
Fire Related Injury	Female	0	0	0	0	0	0	2	2
	Male	0	0	0	0	0	0	3	3
		0	0	0	0	0	0	5	5
Industrial	Male	0	0	1	0	0	0	0	1
Motorized Vehicle - Driver	Female	0	0	8	0	0	0	3	11
	Male	0	0	16	3	0	0	18	37
		0	0	24	3	0	0	21	48

Milwaukee County Medical Examiner Annual Report 2017

Motorized Vehicle - Passenger	Female	0	0	3	1	0	0	2	6
	Male	0	1	8	1	0	0	0	10
		0	1	11	2	0	0	2	16
Motorized Vehicle - Pedestrian	Female	0	0	2	0	0	0	4	6
	Male	0	1	9	2	0	0	5	17
		0	1	11	2	0	0	9	23
Non-Powered	Male	0	0	1	0	0	0	0	1
Therapy Related	Male	0	0	0	0	0	0	1	1
Water Related	Male	0	0	0	0	0	0	1	1
Total		1	7	190	72	4	5	519	798

Milwaukee County Medical Examiner Annual Report 2017

Deaths by Manner: **Natural**

The second most common manner classification certified by the Milwaukee County Medical Examiner’s Office in 2017 were “natural” deaths. Natural deaths come under jurisdiction of the medical examiner when they are sudden or unexpected, when the decedent has not been under the care of a health care provider, or when there are suspicious circumstances surrounding the death.

In 2017, 750 deaths were certified as natural and comprised 39% of all deaths investigated, compared to 755 (41%) in 2016. The most frequent cause of natural death across all age groups was cardiovascular with 502 deaths (67%). The majority of these deaths occurred in the 56-74 year age group (278) and in men (342 males versus 160 females).

2017 Natural Deaths By Age and Gender

Type/Age in years		<1	1 - 5	6- 12	13 - 17	18 - 25	26 - 55	56 - 74	75+	Total
Not Otherwise Specified	Female	0	0	0	0	0	1	0	1	2
	Male	0	1	0	0	0	1	0	0	2
		0	1	0	0	0	2	0	1	4
Alcohol Related	Female	0	0	0	0	0	6	10	0	16
	Male	0	0	0	0	0	12	23	1	36
		0	0	0	0	0	18	33	1	52
Cancer	Female	0	0	0	0	0	1	3	0	4
	Male	0	0	0	0	0	0	5	2	7
		0	0	0	0	0	1	8	2	11
Cardiovascular	Female	0	0	1	0	0	26	81	52	160
	Male	0	0	0	0	0	80	197	65	342
		0	0	1	0	0	106	278	117	502
Central Nervous System	Female	0	0	0	0	1	0	5	3	9
	Male	0	0	0	0	2	6	9	1	18
		0	0	0	0	3	6	14	4	27
Congenital	Female	0	0	0	0	0	0	0	0	0
	Male	0	0	1	0	0	0	0	0	1
		0	0	1	0	0	0	0	0	1
Endocrine	Female	0	0	0	0	0	4	7	2	13
	Male	0	0	1	0	0	6	14	1	22
		0	0	1	0	0	10	21	3	35
Gastrointestinal	Female	0	0	0	0	0	0	1	0	1
	Male	0	0	0	1	0	2	2	0	5
		0	0	0	1	0	2	3	0	6
Infectious	Female	2	0	0	1	1	2	0	1	7
	Male	1	0	0	0	0	3	3	0	7
		3	0	0	1	1	5	3	1	14

Milwaukee County Medical Examiner Annual Report 2017

Kidney Disease	Female	0	0	0	0	0	1	1	0	2
	Male	0	0	0	0	0	0	1	0	1
		0	0	0	0	0	1	2	0	3
Liver Disease	Female	0	0	0	0	0	0	1	0	1
	Male	0	0	0	0	0	1	1	1	3
		0	0	0	0	0	1	2	1	4
Metabolic/Nutritional	Female	0	0	0	0	1	5	2	0	8
	Male	0	0	0	0	0	5	3	0	8
		0	0	0	0	1	10	5	0	16
Neoplastic	Female	0	0	0	0	0	1	1	1	3
	Male	0	0	0	0	0	1	2	2	5
		0	0	0	0	0	2	3	3	8
Other	Female	1	0	0	0	1	1	0	0	3
		1	0	0	0	1	1	0	0	3
Prematurity	Female	0	1	0	0	0	0	0	0	1
		0	1	0	0	0	0	0	0	1
Respiratory	Female	0	0	0	0	0	7	9	6	22
	Male	1	0	0	0	0	3	14	4	22
		1	0	0	0	0	10	23	10	44
Undetermined	Female	1	0	0	0	0	0	0	0	1
	Male	0	0	0	0	1	1	0	0	2
		1	0	0	0	1	1	0	0	3
Vascular	Female	0	0	0	0	0	2	3	0	5
	Male	0	0	0	0	0	5	6	0	11
		0	0	0	0	0	7	9	0	16
Total		6	2	3	2	7	183	404	143	750

Milwaukee County Medical Examiner Annual Report 2017

2017 Natural Deaths by Race and Gender

Type/Race		APIA	Black	Eastern Indian	Hispanic	Multi-Racial	Native American	White	Total
Not Otherwise Specified	Female	0	1	0	0	0	0	1	2
	Male	0	0	0	0	1	0	1	2
		0	1	0	0	1	0	1	4
Alcohol Related	Female	0	3	0	0	0	1	12	16
	Male	0	7	0	2	0	0	27	36
		0	10	0	2	0	1	39	52
Cancer	Female	0	1	0	0	0	0	3	4
	Male	0	2	0	0	0	0	5	7
		0	3	0	0	0	0	8	11
Cardiovascular	Female	1	43	0	4	0	1	111	160
	Male	6	82	2	8	0	1	243	342
		7	125	2	12	0	2	354	502
Central Nervous System	Female	0	4	0	1	0	0	4	9
	Male	1	6	0	2	0	0	9	18
		1	10	0	3	0	0	13	27
Congenital	Male	0	1	0	0	0	0	0	1
Endocrine	Female	0	4	0	1	0	0	8	13
	Male	0	7	0	0	0	3	12	22
		0	11	0	1	0	3	20	35
Gastrointestinal	Female	0	1	0	0	0	0	0	1
	Male	0	3	0	0	0	0	2	5
		0	4	0	0	0	0	2	6
Infectious	Female	0	4	0	0	1	0	2	7
	Male	0	2	0	1	0	0	4	7
		0	6	0	1	1	0	6	14
Kidney Disease	Female	0	1	0	0	0	0	1	2
	Male	0	1	0	0	0	0	0	1
		0	2	0	0	0	0	1	3
Liver Disease	Female	0	0	0	0	0	0	1	1
	Male	0	1	0	0	0	0	2	3
		0	1	0	0	0	0	3	4
Metabolic/Nutritional	Female	0	3	0	1	0	0	4	8
	Male	0	3	0	1	0	0	4	8
		0	6	0	2	0	0	8	16
	Female	1	1	0	0	0	0	1	3

Milwaukee County Medical Examiner Annual Report 2017

Neoplastic	Male	0	0	0	0	0	0	5	5
		1	1	0	0	0	0	6	8
Other	Female	0	2	0	0	0	0	1	3
Prematurity	Female	1	0	0	0	0	0	0	1
Respiratory	Female	0	5	0	1	0	0	16	22
	Male	0	8	0	2	0	0	12	22
		0	13	0	3	0	0	28	44
Undetermined	Female	0	1	0	0	0	0	0	1
	Male	0	1	0	0	0	0	1	2
		0	1	0	0	0	0	1	3
Vascular	Female	0	1	0	0	0	0	4	5
	Male	0	6	0	0	0	0	5	11
		0	7	0	0	0	0	9	16
Total		10	205	2	24	2	6	501	750

Milwaukee County Medical Examiner Annual Report 2017

Deaths by Manner: **Suicide**

Suicide is defined as the intentional taking of one's own life. A total of 156 (8%) deaths were certified as suicide by the Milwaukee County Medical Examiner's Office in the year 2017. This is up from 2016 which had 114 (6%) deaths classified as suicide. Gunshot injury related suicides represented 42% of all suicidal deaths and Asphyxial deaths came in second at 22%. 74% of all suicides certified in 2017 were male.

2017 Suicide Deaths By Age and Gender

Death Type/Age Category		6 - 12	13 - 17	18 - 25	26 - 55	56 - 74	75+	Total
Asphyxia	Female	1	4	2	8	5	0	20
	Male	0	1	4	22	7	0	34
		1	5	6	30	12	0	54
Blunt Force Trauma	Female	0	0	0	0	1	0	1
	Male	0	0	0	0	1	0	1
		0	0	0	0	2	0	2
Carbon Monoxide (non-fire)	Male	0	0	0	1	0	0	1
	Female	0	0	0	1	0	0	1
		0	0	0	2	0	0	2
Drowning (non-boat)	Male	0	0	0	1	0	0	1
	Female	0	0	0	1	0	0	1
		0	0	0	2	0	0	2
Drug Related	Female	0	0	1	3	1	1	6
	Male	0	0	0	5	3	0	8
		0	0	1	8	4	1	14
Falls	Male	0	0	1	2	2	1	6
	Female	0	0	0	1	0	0	1
		0	0	1	3	2	1	7
Fire Related Injury	Male	0	0	0	0	1	0	1
Gunshot Injury	Male	0	1	11	23	19	5	59
	Female	0	0	2	3	2	0	7
		0	1	13	26	21	5	66
Motorized Vehicle -	Male	0	0	0	0	1	0	1
Sharp Force Injury	Female	0	0	0	1	2	1	4
	Male	0	0	0	3	1	0	4
		0	0	0	4	3	1	8
Total		1	6	21	74	46	8	156

Milwaukee County Medical Examiner Annual Report 2017

2017 Suicide Deaths by Race and Gender

Death Type/Race		Asian/Pacific Islander	Black	Hispanic	Multi-Racial	White	Total
Asphyxia	Female	0	3	2	0	15	20
	Male	0	2	1	0	31	34
		0	5	3	0	46	54
Blunt Force Trauma	Female	0	0	0	0	1	1
	Male	0	0	0	0	1	1
		0	0	0	0	2	2
Carbon Monoxide (non-fire)	Female	0	0	0	0	1	1
	Male	0	0	0	0	1	1
		0	0	0	0	2	2
Drowning (non-boat)	Female	0	0	0	0	1	1
	Male	0	0	0	0	1	1
		0	0	0	0	2	2
Drug Related	Female	0	1	1	0	4	6
	Male	0	1	0	0	7	8
		0	2	1	0	11	14
Falls	Female	0	0	0	0	1	1
	Male	0	0	1	0	5	6
		0	0	1	0	6	7
Fire Related Injury	Male	0	1	0	0	0	1
Gunshot Injury	Female	0	1	0	1	5	7
	Male	1	11	2	1	44	59
		1	12	2	2	49	66
Motorized Vehicle -	Male	0	0	0	0	1	1
Sharp Force Injury	Female	0	0	0	0	4	4
	Male	0	0	1	0	3	4
		0	0	1	0	7	8
Total		1	20	8	2	125	156

Deaths by Manner: Homicide

For the purpose of this report, homicide is defined as death “at the hands of another” regardless of intent. The medical examiner determination of homicide rests solely on the medical evidence present at the time of the investigation, and is independent of the legal definition, which often includes the concept of intent.

Milwaukee County Medical Examiner Annual Report 2017

The Milwaukee County Medical Examiner's Office had 142 cases certified as homicides which comprised nearly 7% of all deaths investigated in 2017. This is down from 2016 wherein 168 (10%) deaths were certified as homicides. Male gunshot injury homicides far exceeded all other combinations of categories and gender with 101 male deaths representing 71% of all homicide deaths.

2017 Homicide Deaths By Age and Gender

Death Type/Age Category		<1	1 - 5	6 - 12	13 - 17	18 - 25	26 - 55	56 - 74	75+	Total
Not Otherwise Specified	Male	0	0	0	0	0	2	0	0	2
	Female	0	0	0	0	0	0	0	0	0
Abuse/Neglect	Male	1	0	0	0	0	0	0	0	1
Asphyxia	Male	0	1	0	0	0	1	1	1	4
	Female	0	0	0	0	0	1	0	0	1
		0	1	0	0	0	2	1	1	5
Blunt Force Trauma	Female	1	2	0	0	0	0	0	0	3
	Male	0	1	0	0	0	3	0	0	4
		1	3	0	0	0	3	0	0	7
Burn	Female	1	0	0	0	0	1	0	0	2
Fire Related Injury	Male	0	0	0	0	0	0	1	0	1
Gunshot Injury	Male	0	0	1	4	33	58	5	0	101
	Female	0	0	0	1	3	9	0	1	14
		0	0	1	5	36	67	5	1	115
Motorized Vehicle -	Male	0	0	0	0	1	0	0	0	1
Sharp Force Injury	Male	0	0	0	0	0	6	0	0	6
	Female	0	0	0	0	1	0	1	0	2
		0	0	0	0	1	6	1	0	8
Total		3	4	1	5	38	81	8	2	142

Milwaukee County Medical Examiner Annual Report 2017

2017 Homicide Deaths By Race and Gender

Death Type/Age Category		Asian/Pacific Islander	Black	Eastern Indian	Hispanic	Multi-Racial	Native American	White	Total
Not Otherwise Specified	Male	0	2	0	0	0	0	0	2
Abuse/Neglect	Male	0	1	0	0	0	0	0	1
Asphyxia	Male	0	2	0	0	0	0	2	4
	Female	0	0	0	1	0	0	0	1
		0	2	0	1	0	0	2	5
Blunt Force Trauma	Female	0	3	0	0	0	0	0	3
	Male	0	1	1	1	0	0	1	4
		0	4	1	1	0	0	1	7
Burn	Female	0	2	0	0	0	0	0	2
Fire Related Injury	Male	0	1	0	0	0	0	0	1
Gunshot Injury	Male	0	91	1	1	0	1	7	101
	Female	0	10	0	1	1	0	2	14
		0	101	1	2	1	1	9	115
Motorized	Male	0	1	0	0	0	0	0	1
Sharp Force Injury	Male	1	4	0	0	0	0	1	6
	Female	0	0	0	0	0	0	2	2
		1	4	0	0	0	0	3	8
Total		1	118	2	4	1	1	15	142

Deaths by Manner: Undetermined

A death certified as undetermined is one in which manner cannot be determined after a full investigation. Circumstances in which the investigation may not reveal adequate findings include those in which there is a time delay between death and discovery of the body, or where there is no information as to the source or nature of the injuries or medical condition of the decedent prior to death. A death is certified as undetermined only after a complete investigation is concluded, including autopsy. Only 3 percent of all deaths were certified as undetermined in Milwaukee County in 2017.

2017 Undetermined Deaths By Age and Gender

Death Type/Age Category		<1	1 - 5	18 - 25	26 - 55	56 - 74	Total
Not Otherwise Specified		2	2	0	0	1	5
Asphyxia	Male	1	0	0	0	0	1
Blunt Force Trauma	Male	0	0	0	1	1	2
Drug Related	Male	0	2	1	1	2	6
	Female	0	0	1	2	1	4
		0	2	2	3	3	10
Falls	Male	0	0	1	1	0	2
Gunshot Injury	Male	0	0	0	1	0	1
Motorized Vehicle -	Male	0	0	0	1	0	1
Sharp Force Injury	Male	0	0	0	0	1	1
Undetermined	Male	13	3	3	3	3	25
	Female	8	0	0	3	0	11
		21	3	3	6	3	36
Total		24	7	6	13	9	59

Milwaukee County Medical Examiner Annual Report 2017

2017 Undetermined Deaths By Race and Gender

Death Type/Age Category		Black	Hispanic	Multi-Racial	White	Total
Not Otherwise Specified	Male	2	0	0	0	2
	Female	2	0	0	1	3
		4	0	0	1	5
Asphyxia	Male	1	0	0	0	1
Blunt Force Trauma	Male	0	1	0	1	2
Drug Related	Male	2	0	0	4	6
	Female	1	0	0	3	4
		3	0	0	7	10
Falls	Male	1	1	0	0	2
Gunshot Injury	Male	0	0	0	1	1
Motorized Vehicle -	Male	0	0	0	1	1
Sharp Force Injury	Male	0	0	0	1	1
Undetermined	Male	16	2	3	4	25
	Female	7	1	0	3	11
		23	3	3	7	36
Total		32	5	3	19	59

Medical Examiner Activities

In addition to conducting death scene investigations, cremation investigations, autopsies and toxicology studies, a number of other activities are performed by medical examiner personnel as part of the death investigation process. These functions include:

- Death certification;
- Testifying at legal proceedings;
- Death notifications to next-of-kin;
- Body identification;
- Protection and legal disposition of property belonging to decedents;
- Burial arrangements for unclaimed bodies;
- Disinterment authorization; and,
- Lectures to law enforcement personnel, medical students, etc.

The statutory duties and responsibilities of the office are performed by the Medical Examiner, a licensed physician trained and board-certified in forensic pathology. Six full-time forensic pathologists, two toxicologists, three forensic chemists, a staff of thirteen forensic investigators, as well as additional clerical, autopsy, and managerial personnel support the medical examiner function. A forensic pathology fellowship program through the Medical College of Wisconsin trains one to two pathologists annually in forensic pathology through the Medical Examiner's Office.

Professional consultants in the specialized fields of forensic odontology (dentistry), forensic radiology, forensic anthropology, adult and pediatric cardiac pathology, and forensic neuropathology provide additional support. An autopsy facility and toxicology laboratory provide a secure facility for staff, visitors and evidence entrusted to our care.

The release and dissemination of medical and other information collected or retained by this office is another important activity. Autopsy reports, investigative reports and related data from individual investigations are provided to interested parties such as families, community-based health care providers, insurers, law enforcement, attorneys and others for their use. In addition, agencies such as the Drug Enforcement Administration, City of Milwaukee Health Department, Consumer Product Safety Commission, and Wisconsin Department of Transportation also receive periodic information from this office to further the data analysis and reporting of deaths investigated in Milwaukee County.

Milwaukee County Medical Examiner Annual Report 2017

Below are other miscellaneous statistics that pertain to the activities of the Medical Examiner's Office:

Activity	2017
Scene visits by Medical Examiner Investigators	1,260
Bodies transported by office or order of the office	1,185
Bodies unidentified after examination	0
Organ and/or tissue donations	454
Unclaimed bodies	31
Number of exhumation permits issued	11
Autopsies performed for outside jurisdictions and private parties	468
Cases with toxicology testing performed	964

