# Annual Report



# Jefferson County Coroner/Medical Examiner's Office



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2022

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# Introduction

In 2022, the Jefferson County Coroner/Medical Examiner's Office (JCCMEO) was notified of approximately 88% of the deaths that occurred in Jefferson County. Pursuant to State of Alabama, 45-37-60, (Act 79-454, p. 739, §1-10) notification is made when there is suspicion of criminal violence or criminal neglect, when death occurs in suspicious or unusual circumstances, when deaths are thought to result from trauma or violence, in any prison or penal institution, when in police custody, or deaths due to disease constituting a hazard to public health when requested in writing by the County Health Officer.



The Jefferson County Coroner/Medical Examiner's Office is fully accredited by the National Association of Medical Examiners <u>www.thename.org</u>.



BMD The JCCMEO deputy coroner investigators are certified through the American Board of Medicolegal Death Investigators www.abmdi.org.

#### **Mission**

The mission of the Coroner/Medical Examiner office is to establish the identity of human remains and to determine the cause, manner, and circumstances surrounding death in sudden and unexpected deaths occurring within Jefferson County, Alabama.

#### **Death Statistics**

This report contains aggregate data of the cases investigated by this office. This report does not contain data on all deaths that occurred within Jefferson County, but rather only those deaths that were investigated by the Jefferson County Coroner/Medical Examiner's Office.

You can visit the Alabama Department of Public Health website to obtain data on all deaths that occurred within Jefferson County, Alabama www.adph.org/healthstats.

#### **Death Certificates**

The Coroner's Office cannot provide copies of death certificates; death certificates must be obtained through the Jefferson County Department of Health or the State of Alabama Vital Records office.

Jefferson County Department of Health 1400 6<sup>th</sup> Avenue South Birmingham, Alabama 35233 (205) 933-9110 http://www.jcdh.org

State of Alabama Vital Records P.O. Box 5625 Montgomery, Alabama 36103-5625 (334) 206-5418 www.adph.org/vitalrecords

## History



Jefferson County operated under an elected coroner system since the county's inception in 1819 until 1931. In a coroner system the County Coroner was elected to office by the citizens of Jefferson County and was typically a lay person with no formal training in medicolegal death investigation.

On May 27, 1931, the office of County Coroner was abolished by Act of State Legislature. The office was subsequently reestablished with the position of County Coroner being an appointed position by the Jefferson County Commission and not an elected position by the citizens of the county. The Act referred to the coroner as the "Agent, County Commission, as Coroner".

In January 1977, by Act of State Legislature, the office of County Coroner and the coroner system in Jefferson County was abolished and the Jefferson County Coroner/Medical Examiner's Office (JCCMEO) was established. This was the end of the coroner system and the beginning of the medical examiner system in Jefferson County. The new law required the Coroner/Medical Examiner of Jefferson County to be a board-certified forensic pathologist.

On July 26, 1979, pursuant to State of Alabama Act 79-454, the office of County Coroner in Jefferson County was once again abolished and the Jefferson County Coroner/Medical Examiner's Office (JCCMEO) as it is known today was established. As with the previous Act, the new Jefferson County Coroner/Medical Examiner Act set forth that the Coroner/Medical Examiner shall be an appointed position by the Jefferson County Commission and that the Coroner/Medical Examiner shall be a board-certified forensic pathologist. The act also established a new regulatory commission, the "Jefferson County Coroner/Medical Examiner's Commission", to promulgate rules and regulations governing the reviews and investigations of the Coroner/Medical Examiner's Office and the conditions upon which such investigations shall be conducted. The act also retained in the office all the authority vested in coroners by the state laws of Alabama.

The Coroner retained a physical office on the second floor of the <u>Jefferson County Courthouse</u> and at the <u>Bessemer Courthouse</u> until 1977, when at that time both offices were consolidated and moved to its current location at <u>Cooper Green Mercy Health Services</u>.

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# **Medicolegal Death Investigation**



A medicolegal death investigation is an official investigation or inquest into the manner, cause, and circumstances surrounding death. As it applies a medicolegal death investigation is a combination of medicine and law, with a purpose to answer the questions of death. The answers obtained in these investigations can assist with criminal and civil litigation,

insurance claims, the distribution of estates, and the health and safety of the public. These investigations are performed by trained medicolegal death investigators (MDIs) and can represent multiple different disciplines. The MDI investigators can be a coroner, deputy coroner, forensic pathologist, morgue technologist, forensic odontologist, forensic anthropologist, forensic toxicologist, or a criminalist.

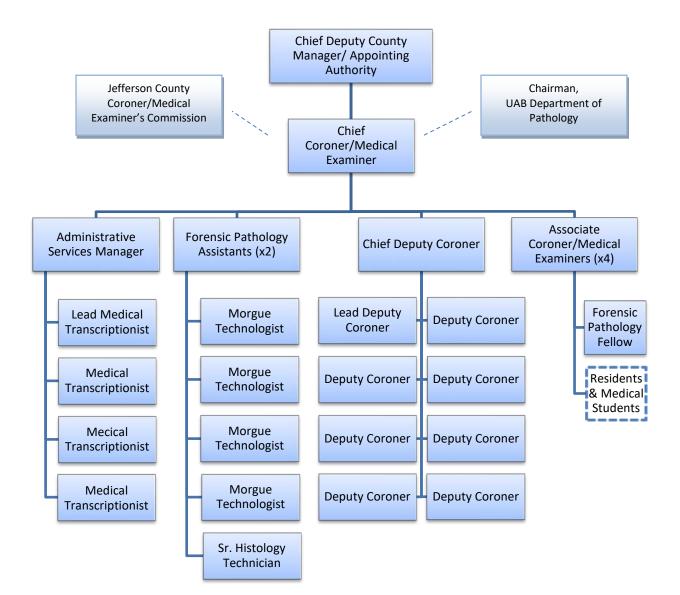
At the JCCMEO these investigations are begun by deputy coroners who are formally trained MDIs. When a death is reported to the JCCMEO it is the responsibility of the deputy coroner to determine if the death falls under the statutory jurisdiction of the JCCMEO and if so, will jurisdiction be assumed or declined. Pursuant to State of Alabama Code 11-5-35 (*Act 2006-581, p. 1527, §6.*) the Jefferson County Coroner/Medical Examiner's Office only has the authority to certify a death if the offense, occurrence, or incident that ultimately resulted in the death occurred within the geographical boundaries of Jefferson County, Alabama. Therefore, if the sequence of events that ultimately resulted in the death began in a county or state other than Jefferson County, Alabama then the coroner's office of that county should be notified of the death.

<u>Declined Jurisdiction</u>: Jurisdiction is declined if investigators (i.e., law enforcement, paramedics, and/or medical staff, and the deputy coroner) find no signs of foul play, injury, and/or evidence of current substance abuse associated with the death and if the decedent has a documented significant medical history and is currently under the care of a primary care physician.

<u>Assumed Jurisdiction</u>: Jurisdiction is assumed if there is suspicion of criminal violence or criminal neglect, when death occurs in suspicious or unusual circumstances, when deaths are thought to result from trauma or violence, in any prison or penal institution, when in police custody, or a death due to disease constituting a hazard to public health when requested in writing by the County Health Officer.

If jurisdiction is to be assumed a deputy coroner in most cases responds to the scene of the death to begin the investigation. The decedent is transported from the scene to the JCCMEO for examination, which is usually completed within 24 hours from the time of death by one of the forensic pathologists on staff. An examination/autopsy is necessary to accurately determine cause, manner, and circumstances surrounding the death, so to satisfy statuary requirements, for the good of public health, and to assist with potential civil and criminal litigation. Depending on the circumstances surrounding the death and the evidence that is needed to substantiate the death an autopsy may not be performed in every case, but rather a less invasive external examination is performed. The final examination/autopsy report is usually available 4-6 weeks after the date of death.

# **Organizational Chart**



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# Section 1: Summary Data

# 2021-2022 Comparison

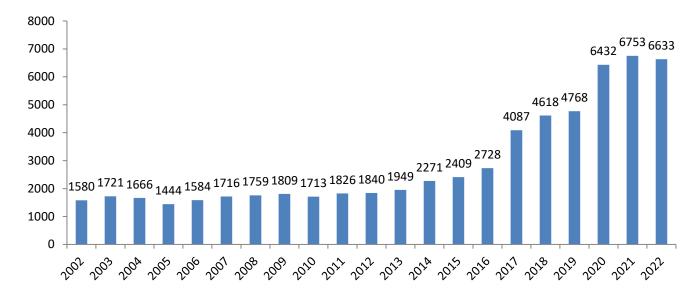
Table 1.1: Previous year comparison data and percentage of change.

	<u>2021</u>	<u>2022</u>	<u>% Change</u>
Total deaths reported to the JCCMEO:	6,754	6,633	-1.8
Jurisdiction Assumed:	1,228	1,291	+5.1
Accident	581	615	+5.9
Homicide	216	204	-5.6
Natural	308	328	+6.5
Suicide	94	100	+6.4
Undetermined	28	42	+50.0
Pending	0	0	0
Stillborn <sup>1</sup>	1	2	+100
Human tissue <sup>2</sup>	0	0	0
Jurisdiction Declined:	5,526	5,342	-3.3
Natural Causes	3,688	3,660	-0.8
Hospice	1,577	1,391	-11.8
Safekeeping	253	281	+11.1
Non-human	8	10	+25
Cremation Permits	2,835	3,867	+36.4
Death Certificate Reviews of Declined Cases:	246	271	+10.2
Total bodies transported by JCCMEO:	1,481	1,572	+6.1
Examination	1,228	1,291	+5.1
Safekeeping	253	281	+11.1
Total Examinations:	1,228	1,291	+5.1
Autopsies	825	856	+3.8
External Examination	403	435	+8.0
No examination performed	0	0	0
Organ/Tissue Procurement and Approvals (metrics change):			
Organ/Tissue (2021 = procurements, 2022 = approvals)	12	82	n/a
Corneas (2021 = procurements, 2022 = approvals)	20	110	n/a
Toxicology performed:	4 4 7 9	4 224	
Yes	1,170	1,221	+4.4
No	58	70	+21.0
Total scenes visited by investigators:	682	772	+13.2
Unclaimed bodies (county burials):	127	108	-15.0
Unidentified remains (cumulative total):	54	54	0

<sup>&</sup>lt;sup>1</sup> Pursuant to State of Alabama Vital Records rules, stillborn deaths are not assigned a manner of death. <sup>2</sup> Tissue of no forensic value.

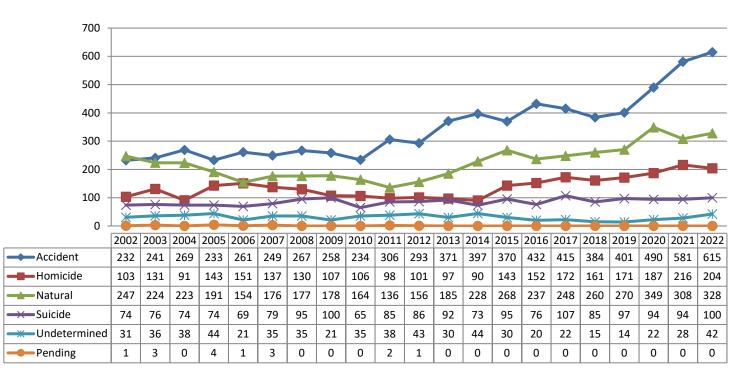
## Historical Summary: Year of Death, 2002-2022

Figure 1.1: represents the total number of deaths reported to the JCCMEO by year of death.



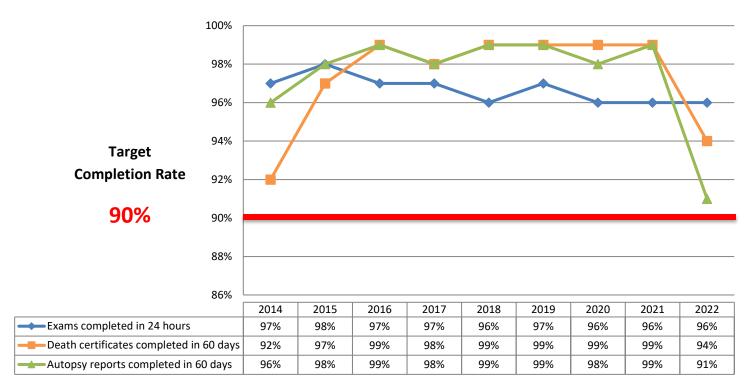
#### Historical Summary: Manner of Death, 2002-2022

Figure 1.2: represents the total number of cases by manner of death, includes only Assumed cases.



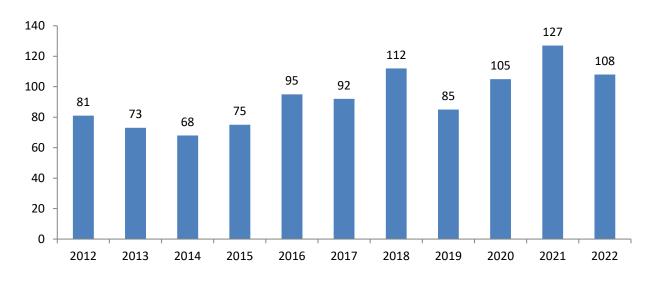
#### Historical Summary: Turnaround Time Percentages, 2014-2022

Figure 1.3: represents turnaround time percentages for examinations completed within 24 hours and, death certificates and autopsy reports completed within 60 days. Target completion rate is 90%.



#### Historical Summary: County Burials, 2012-2022

Figure 1.4: represents the total number of county burials by year of burial.



# Section 2: 2022 Total Case Data

## **General Statistics and Notable Trends**

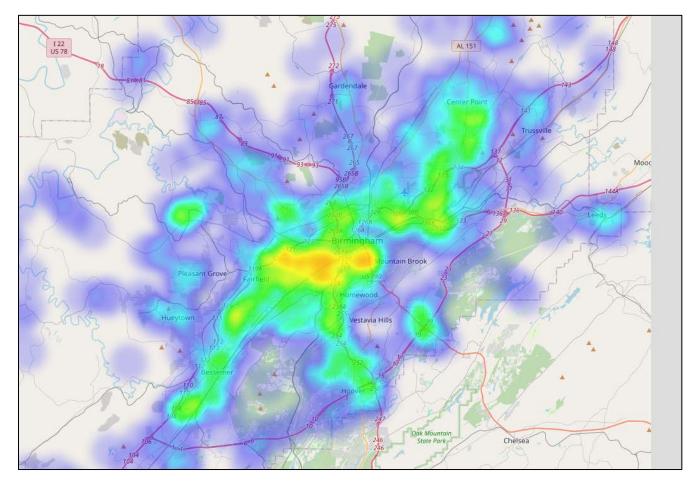
There was a 1.8% decrease in the total number of deaths reported to the JCCMEO this past year, from 6,754 deaths in 2021 to 6,633 deaths in 2022.

There was a 5.1% increase in the total number of deaths where jurisdiction was assumed, from 1,228 cases in 2021 to 1,291 cases in 2022.

The total number of accident, natural, suicide, and undetermined deaths examined by the JCCMEO increased in 2022 compared to 2021; while homicide deaths decreased.

#### **Total Assumed Cases by Place of Death, 2022**

Figure 2.1: N=1,291, represents total Assumed cases reported by place of death.



# **Total Deaths Reported by Law Enforcement Agency and Jurisdiction, 2022**

Table 2.1: N=2,433, represents the total deaths reported to the JCCMEO by type of jurisdiction.

Law Enforcement Agency	<u>Assumed</u>	Declined	<u>Safekeeping</u>	<u>Non-human</u>	<u>Total</u>
ALEA – State Bureau of Investigations	2	0	0	0	2
ALEA – State Troopers	15	0	0	0	15
Alabama Department of Corrections - LES	40	0	0	0	40
Adamsville Police Department	8	9	3	0	20
Argo Police Department	0	0	0	0	0
Bessemer Police Department	68	64	10	0	142
Birmingham Police Department	655	371	98	3	1,127
Brighton Police Department	6	4	0	1	11
Brookside Police Department	2	2	0	0	4
Fairfield Police Department <sup>3</sup>	0	0	0	0	0
Fultondale Police Department	9	10	1	0	20
Gardendale Police Department	13	21	5	0	39
Graysville Police Department	3	2	0	0	5
Helena Police Department	0	1	0	0	1
Homewood Police Department	31	13	10	0	54
Hoover Police Department	45	41	17	0	103
Hueytown Police Department	18	26	3	0	47
Irondale Police Department	11	9	4	0	24
Jefferson County Sheriff's Office	253	219	40	6	518
Kimberly Police Department	0	3	0	0	3
Lake View Police Department	2	0	0	0	2
Leeds Police Department	18	9	2	0	29
Lipscomb Police Department	0	2	0	0	2
Midfield Police Department	14	3	1	0	18
Morris Police Department	2	4	0	0	6
Mountain Brook Police Department	4	15	0	0	19
Pleasant Grove Police Department	8	14	10	0	32
Tarrant Police Department	18	6	3	0	27
Trafford Police Department	2	0	0	0	2
Trussville Police Department	18	21	2	0	41
UAB Police Department	2	0	0	0	2
Vestavia Hills Police Department	20	42	5	0	67
Warrior Police Department	4	6	1	0	11
Totals:	1,291	917	215	10	2,433

<sup>3</sup> The Jefferson County Sheriff's Office provides death investigation services for the City of Fairfield.

2022

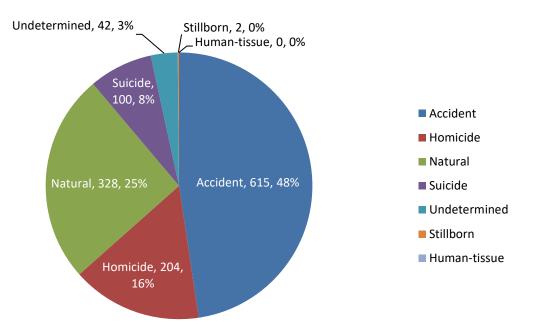
# **Total Assumed Cases by Law Enforcement Agency and Manner of Death, 2022**

Table 2.2: N=1,291, represents all Assumed cases by law enforcement agency and manner of death.

Law Enforcement Agency	<u>Accident</u>	<u>Homicide</u>	<u>Natural</u>	<u>Suicide</u>	<u>Undetermined</u>	<u>Stillborn<sup>1</sup></u>	<u>Human</u> Tissue <sup>2</sup>	<u>Total</u>
ALEA - State Bureau of Investigation	0	2	0	0	0	0	0	2
ALEA – State Troopers	15	0	0	0	0	0	0	15
Alabama Dept. of Corrections - LES	12	7	20	0	1	0	0	40
Adamsville Police Department	3	1	2	1	0	1	0	8
Argo Police Department	0	0	0	0	0	0	0	0
Bessemer Police Department	27	13	17	5	6	0	0	68
Birmingham Police Department	323	142	139	28	22	1	0	655
Brighton Police Department	4	0	2	0	0	0	0	6
Brookside Police Department	1	0	1	0	0	0	0	2
Fairfield Police Department <sup>3</sup>	0	0	0	0	0	0	0	0
Fultondale Police Department	7	0	2	0	0	0	0	9
Gardendale Police Department	5	0	2	6	0	0	0	13
Graysville Police Department	3	0	0	0	0	0	0	3
Helena Police Department	0	0	0	0	0	0	0	0
Homewood Police Department	16	3	7	3	2	0	0	31
Hoover Police Department	12	3	22	6	2	0	0	45
Hueytown Police Department	6	3	4	4	1	0	0	18
Irondale Police Department	3	0	5	3	0	0	0	11
Jefferson County Sheriff's Office	123	23	71	31	5	0	0	253
Kimberly Police Department	0	0	0	0	0	0	0	0
Lake View Police Department	0	0	1	1	0	0	0	2
Leeds Police Department	8	0	5	3	2	0	0	18
Lipscomb Police Department	0	0	0	0	0	0	0	0
Midfield Police Department	8	3	3	0	0	0	0	14
Morris Police Department	0	0	2	0	0	0	0	2
Mountain Brook Police Department	0	0	0	4	0	0	0	4
Pleasant Grove Police Department	5	0	3	0	0	0	0	8
Tarrant Police Department	7	0	10	0	1	0	0	18
Trafford Police Department	2	0	0	0	0	0	0	2
Trussville Police Department	9	1	6	2	0	0	0	18
UAB Police Department	2	0	0	0	0	0	0	2
Vestavia Hills Police Department	11	3	3	3	0	0	0	20
Warrior Police Department	3	0	1	0	0	0	0	4
Totals:	615	204	328	100	42	2	0	1,291

#### Percentage of Assumed Cases by Manner of Death, 2022

Figure 2.2: N=1,291, represents number and percentage of cases by manner of death, includes only Assumed jurisdiction.<sup>1, 2</sup>



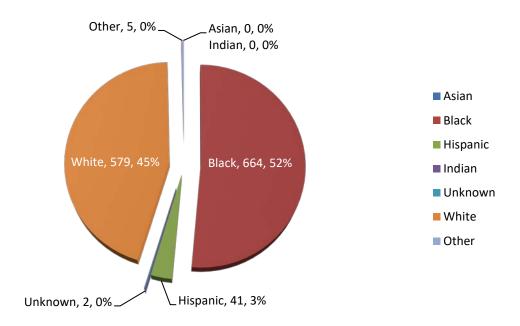
#### **Total Assumed Cases by Manner of Death and Type of Examination, 2022**

Table 2.3: N=1,291, represents all Assumed cases by manner of death and type of examination performed.

Examination	Accident	Homicide	Natural	Suicide	Undetermined	Stillborn <sup>1</sup>	Human-tissue <sup>2</sup>	Total
Autopsy	454 / 74%	203 / 99.5%	144 / 44%	18 / 18%	37 / 88%	0 / 0%	0 / 0%	856
External	161 / 26%	1/0.5%	182 / 56%	82 / 82%	5 / 12%	2 / 100%	0 / 0%	435
No Exam	0 / 0%	0 / 0%	0 / 0%	0 / 0%	0 / 0%	0 / 0%	0 / 0%	0
Total	615	204	328	100	42	2	0	1,291

## **Total Assumed Cases by Race, 2022**

Figure 2.3: N=1,291, represents all Assumed cases by race, with totals and percentages.



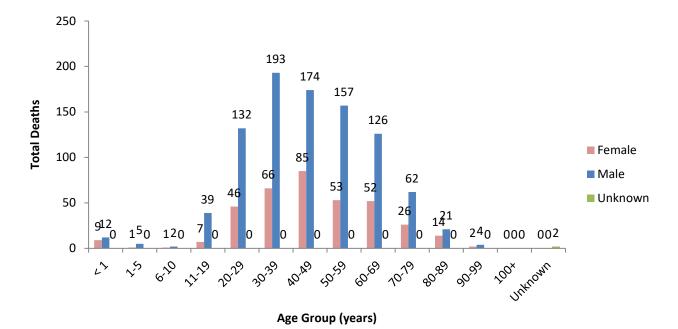
## **Total Assumed Cases by Race and Manner of Death, 2022**

Table 2.4: N=1,291, represents all Assumed cases by race and manner of death.

Race	Accident	Homicide	Natural	Suicide	Undetermined	Stillborn <sup>1</sup>	Human- tissue <sup>2</sup>	Total
Asian	0	0	0	0	0	0	0	0
Black	272	168	170	24	28	2	0	664
Hispanic	24	5	8	2	2	0	0	41
Indian	0	0	0	0	0	0	0	0
Other	3	0	1	1	0	0	0	5
Unknown	0	0	0	0	2	0	0	2
White	316	31	149	73	10	0	0	579
Total	615	204	328	100	42	2	0	1,291

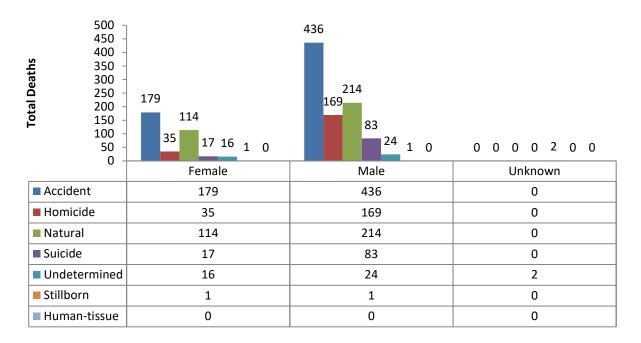
# **Total Assumed Cases by Gender and Age Group, 2022**

Figure 2.4: N=1,291, represents all Assumed cases by gender and age group.



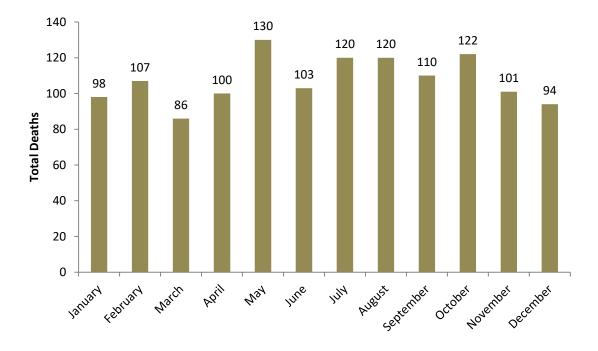
#### **Total Assumed Cases by Gender and Manner of Death, 2022**

Figure 2.5: N=1,291, represents all Assumed cases by gender and manner of death.<sup>1, 2</sup>



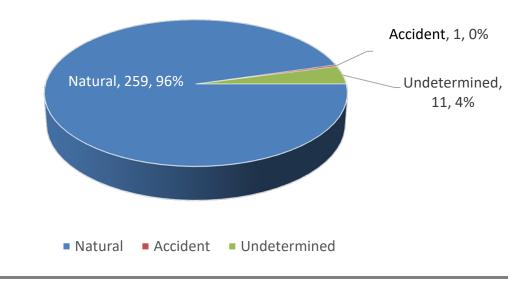
# Total Assumed Cases by Month of Death, 2022

Figure 2.6: N=1,291, represents all Assumed cases by month of death.



#### **Death Certificate Reviews of Declined Cases, 2022**

Figure 2.7: N=247, represents all death certificate reviews (D.C.R.) of declined jurisdiction cases, by manner of death.



# Death Certificate Reviews: Manners of Death

# Section 3: Manner of Death: Assumed Jurisdiction

## Accident

Accidental deaths accounted for 48% of the Assumed cases investigated by the JCCMEO in 2022 and represents the largest percentage of all manners of death.

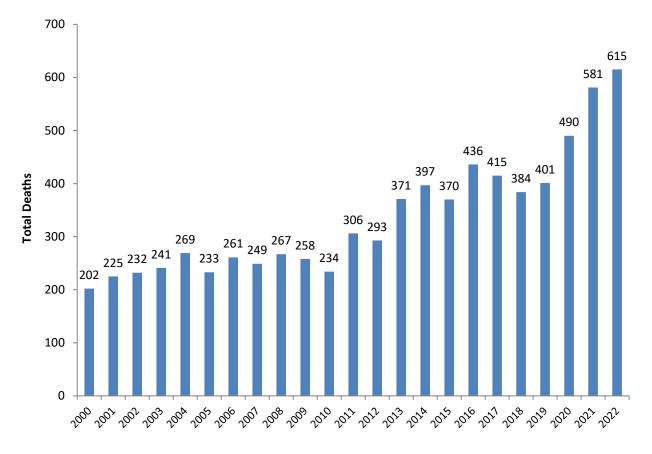
There was a 5.9% increase in the total number of accidental deaths, from 581 deaths in 2021 to 615 deaths in 2022.

Drug deaths were the most common cause of accidental death in 2022 accounting for 72% of the deaths, followed by motor vehicle deaths at 18.7% of the deaths.

The most common race was white representing 51.4% of the accidental deaths, while male was the most common gender representing 70.9% of the accidental deaths.



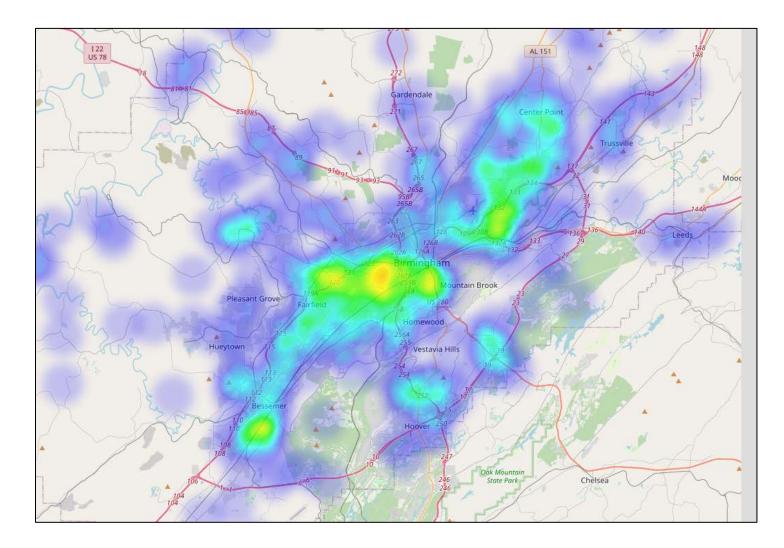
Figure 3.1: represents all accidental deaths investigated by the JCCMEO.



# Annual Report **2022**

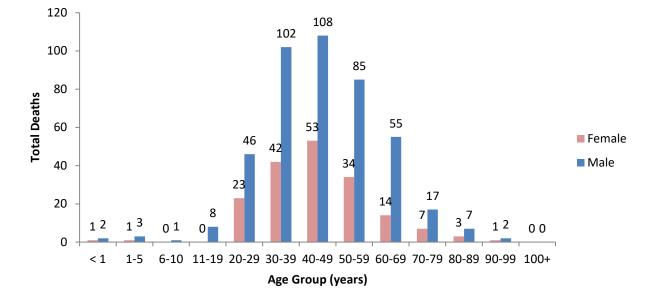
## Total Number of Accidental Deaths Place of Injury, 2022

Figure 3.2: N=615, represents all accidental deaths by place of injury.



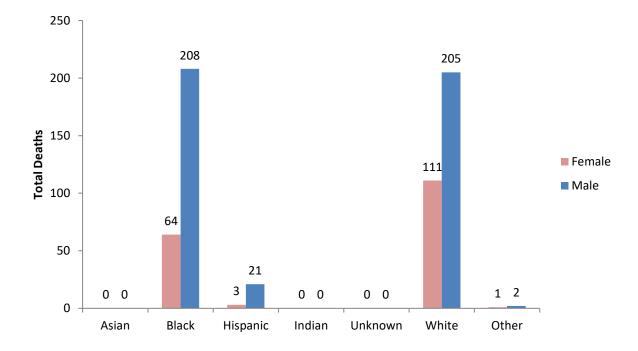
#### Total Number of Accidental Deaths by Gender and Age Group, 2022

Figure 3.3: N=615, represents all accidental deaths by gender and age group.



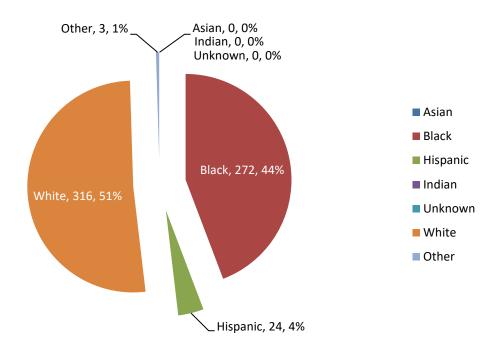
#### Total Number of Accidental Deaths by Gender and Race, 2022

Figure 3.4: N=615, represents all accidental deaths by gender and race.



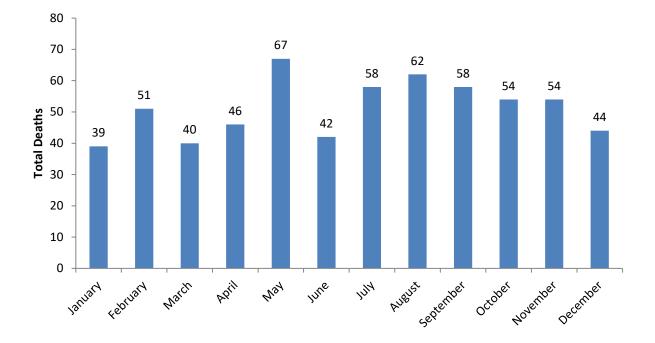
#### Percentage of Accidental Deaths by Race, 2022

Figure 3.5: N=615, represents all accidental deaths by race.



Total Number of Accidental Deaths by Month of Death, 2022

Figure 3.6: N=615, represents all Accidental deaths by month of death.



2022

#### Total Number of Accidental Deaths by Means of Death, 2022

Table 3.1: N=615, represents all Accidental deaths by means of death.

Means of Death	Total
Asphyxia:	
Crib	1
Dry ice	1
Food	1
Motor vehicle	1
Pillow	1
Blunt:	
Excavator	1
Machine	1
Metal beam	1
Tree	2
Carbon monoxide: generator	2
Co-sleeping: bed	1
Drowning:	
Bathtub	2
Crawl space	2
Drainage culvert	1
Pool	2
Drug:	
Opioid	374
Other drugs – Rx and illicit drugs	65
Ethanol (alcohol) – acute toxicity	4
Electrocution: Powerlines	2
Environmental Exposure: Hypothermia	4
Fall:	
Bridge	1
Floor	2
Ladder	2
Parking lot	1
Skylight	1
Stairs	6
Unknown	3
Fire:	
Apartment	2
House	1
Other: home health oxygen	1
Firearm: Handgun	1

Means of Death	Total
Motor vehicle:	
Bicycle	3
Motorcycle	10
Pedestrian	27
Multiple vehicles	40
Single vehicle	31
Train: motor vehicle	4
Total	615

# Homicide

Homicides accounted for 15.8% of the Assumed cases investigated by the JCCMEO in 2022.

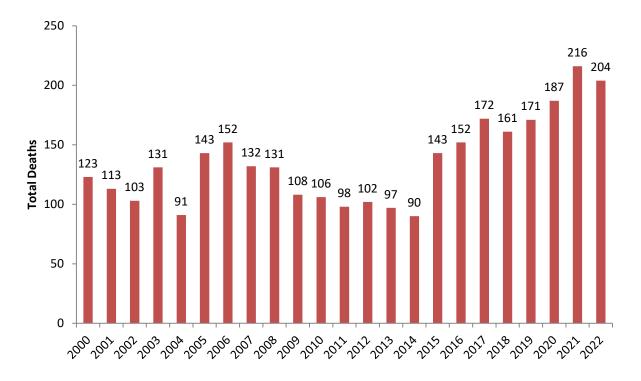
There was a 5.6% decrease in the total number of homicides, from 216 deaths in 2021 to 204 deaths in 2022. This represents the second highest year since the year 2000.

Death due to firearms was the most common cause of homicide in 2022 accounting for 91.2% of the deaths.

The most common race was Black representing 82.4% of the homicides, while males were the most common gender representing 82.8% of homicide deaths.

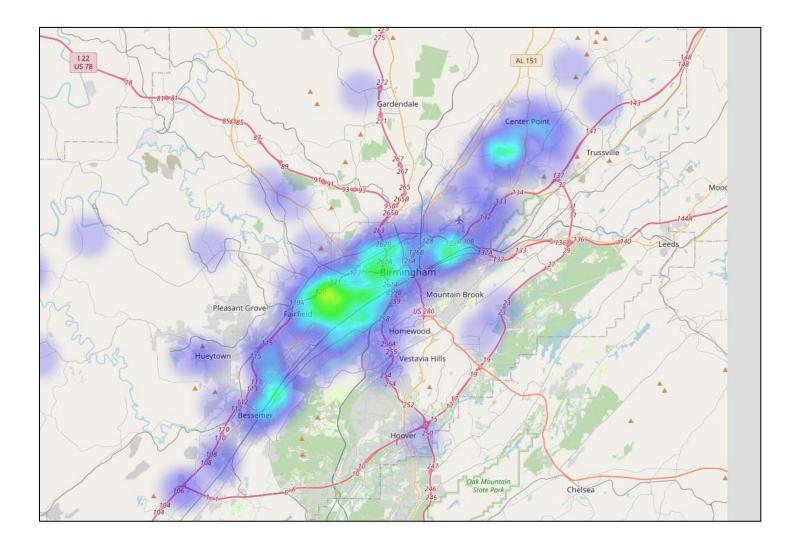
#### Total Number of Homicides by Year of Death 2000-2022

Figure 3.7: represents all homicides investigated by the JCCMEO.



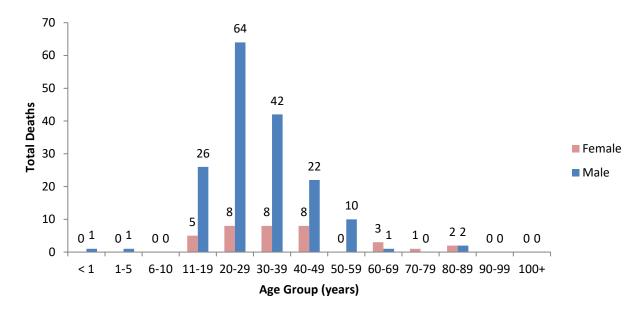
#### **Total Number of Homicides by Place of Injury, 2022**

Figure 3.8: N=204, represents all homicide deaths by place of injury.



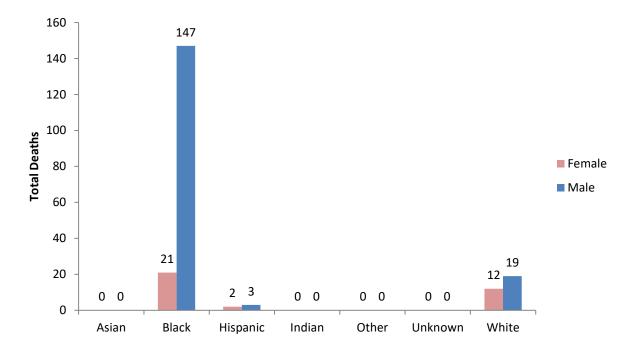
#### Total Number of Homicides by Gender and Age Group, 2022

Figure 3.9: N=204, represents all homicides by gender and age group.



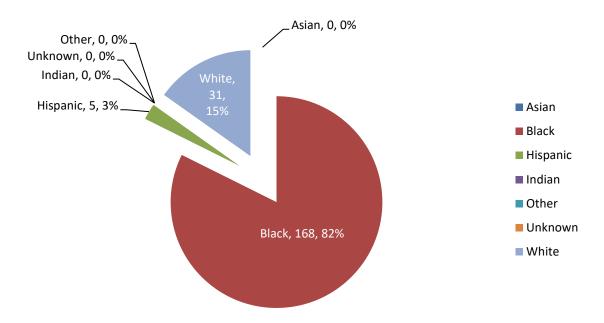
#### Total Number of Homicides by Gender and Race, 2022

Figure 3.10: N=204, represents all homicides by gender and race.



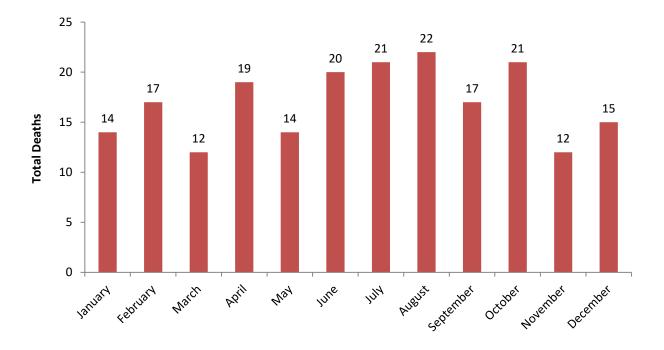
#### Percentage of Homicides by Race, 2022

Figure 3.11: N=204, represents all homicides by race.



#### Total Number of Homicides by Month of Death, 2022

Figure 3.12: N=204, represents all homicides by month of death.



#### **Total Number of Homicides by Means of Death, 2022**

Table 3.2: N=204, represents all Homicides by means of death and weapon type.

Means of Death	Total
Asphyxia:	
Hands	1
Blunt:	
Fist and feet	2
Golf club	1
Hammer	1
Hands	1
Rock	1
Unknown	3
Firearm:	
Handgun	104
Handgun/Rifle	11
Rifle	28
Shotgun	1
Unknown	42
Sharp:	
Knife	6
Unknown	1
Undetermined	1
Total	204

## Natural

Natural deaths accounted for 25.4% of the Assumed cases investigated by the JCCMEO in 2022.

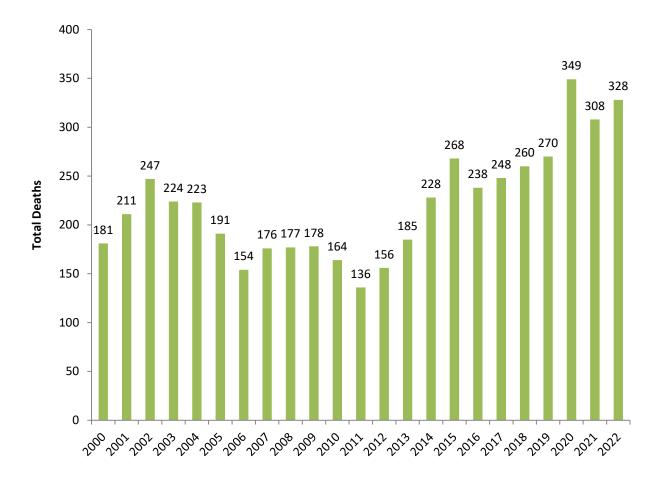
There was a 6.5% increase in the total number of natural deaths, from 308 deaths in 2021 to 328 deaths in 2022.

Deaths due to heart disease were the most common cause of natural death in 2022 accounting for 56.4% of the deaths, followed by other natural disease accounting for 11.9% of the deaths and chronic substance use (ethanol/drugs) accounting for 11.6% of the deaths.

The most common race was black representing 51.8% of the natural deaths, while males were the most common gender representing 65.2% of natural deaths.

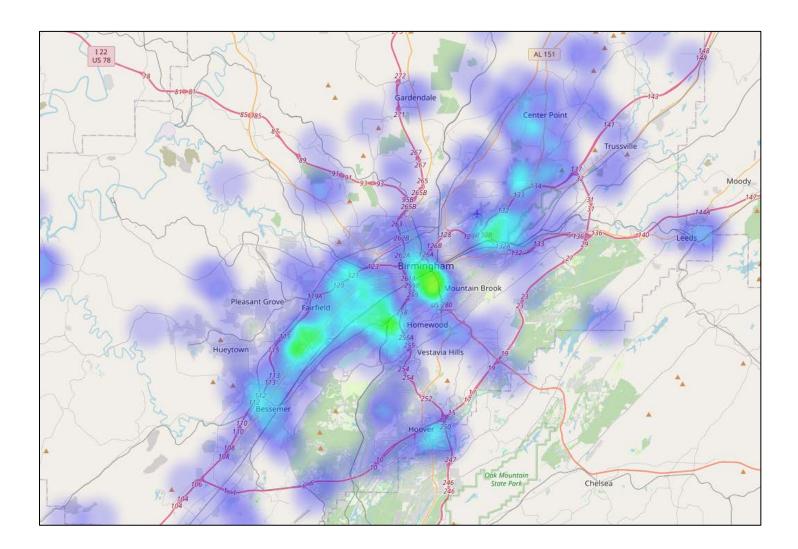
#### Total Number of Natural Deaths by Year of Death 2000-2022

Figure 3.13: represents all natural deaths investigated by the JCCMEO.



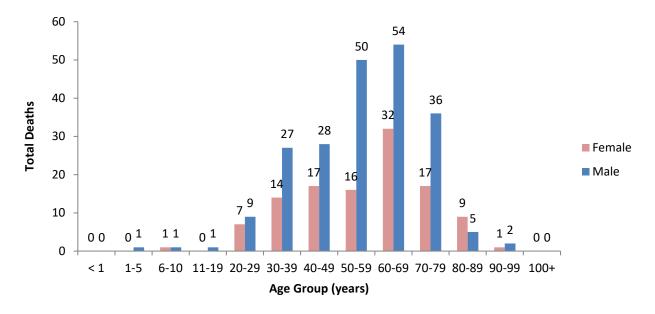
## Total Number of Natural Deaths by Place of Death, 2022

Figure 3.14: N=328, represents all natural deaths by place of death.



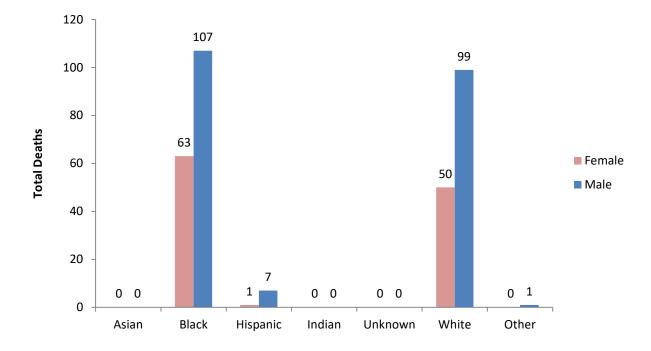
#### Total Number of Natural Deaths by Gender and Age Group, 2022

Figure 3.15: N=328, represents all natural deaths by gender and age group.



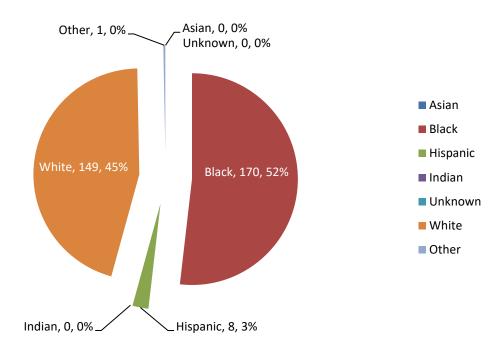
#### Total Number of Natural Deaths by Gender and Race, 2022

Figure 3.16: N=328, represents all natural deaths by gender and race.



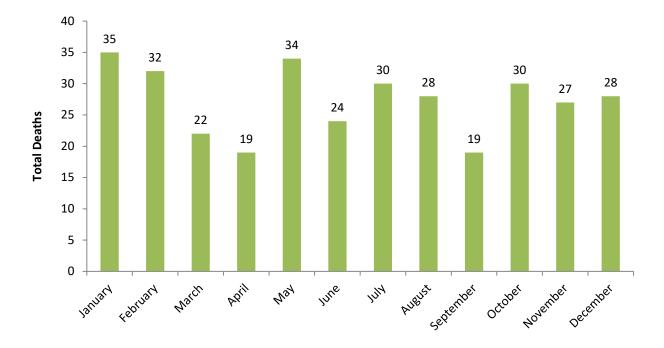
#### Percentage of Natural Deaths by Race, 2022

Figure 3.17: N=328, represents all natural deaths by race.



#### Total Number of Natural Deaths by Month of Death, 2022

Figure 3.18: N=328, represents all natural deaths by month of death.



2022

#### Total Number of Natural Deaths by Means of Death, 2022

Table 3.3: N=328, represents all natural deaths by means of death.

Means of Death	Total
Heart:	
Coronary artery atherosclerosis	27
Hypertensive heart disease	72
Arteriosclerotic cardiovascular disease	55
Other heart disease	31
Lungs:	
Pneumonia	13
COPD / asthma	6
Pulmonary thromboembolism	6
Liver: Cirrhosis	0
Brain:	
Seizure disorder (epilepsy)	7
Meningitis	0
Nontraumatic intracranial hemorrhage	7
Malignancy NOS (includes all organ systems)	8
Chronic substance use (ethanol/drug)	38
Diabetes	18
Gastrointestinal bleeding	1
Other	39
Total	328

# Suicide

Suicide deaths accounted for 7.7% of the deaths investigated by the JCCMEO in 2022 and ties as the second highest year since the year 2000.

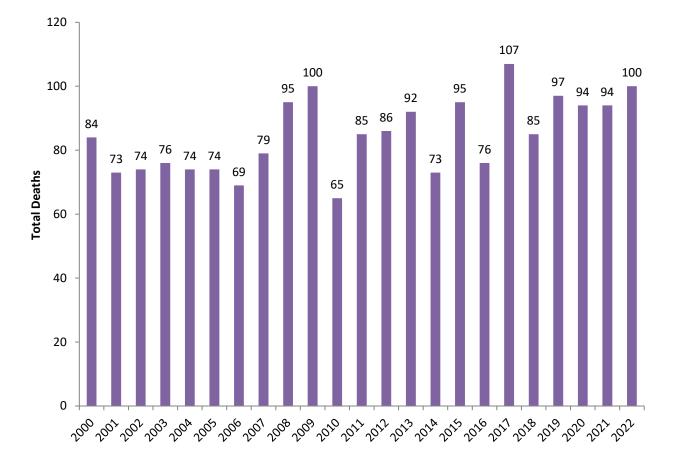
There was 6.4% increase in suicide deaths, from 94 deaths in 2021 to 100 deaths in 2022.

Deaths due to gunshot wounds were the most common cause of suicide death in 2022 accounting for 77% of the deaths and, followed by deaths due to hanging accounting for 15% of the suicide deaths.

The most common race was white representing 73% of the suicide deaths, while males were the most common gender representing 83% of suicide deaths.

#### Total Number of Suicide Deaths by Year of Death 2000-2022

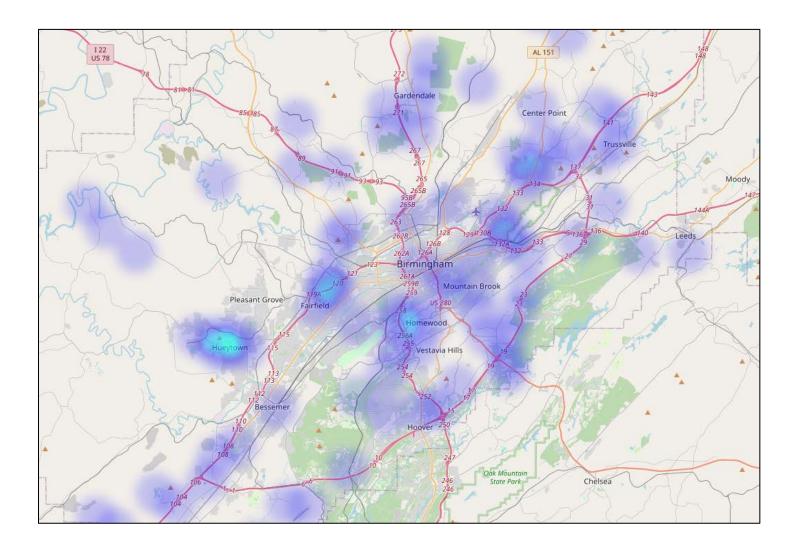
Figure 3.19: represents all suicide deaths investigated by the JCCMEO.



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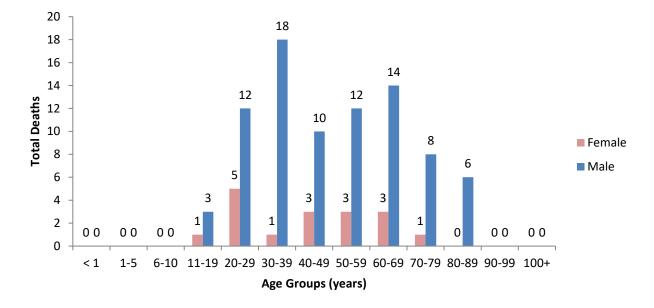
### Total Number of Suicide Deaths by Place of Injury, 2022

Figure 3.20: N=100, represents all suicide deaths by place of injury.



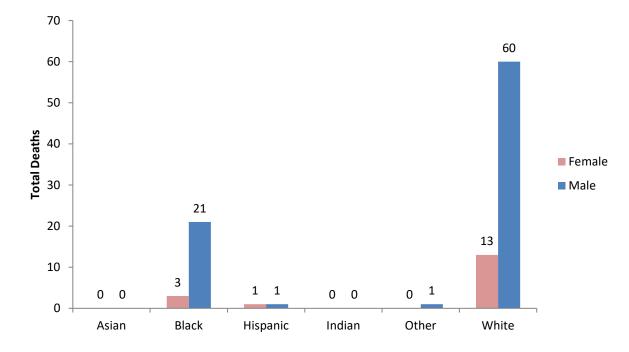
### Total Number of Suicide Deaths by Gender and Age Group, 2022

Figure 3.21: N=100, represents all suicide deaths by gender and age group.



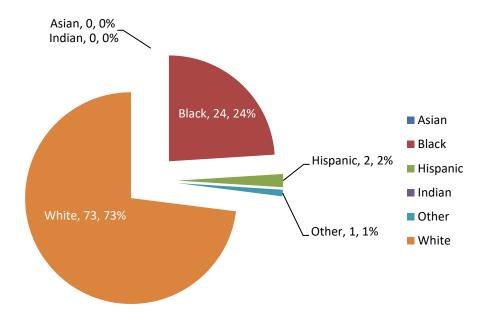
## Total Number of Suicide Deaths by Gender and Race, 2022

Figure 3.22: N=100, represents all suicide deaths by gender and race.



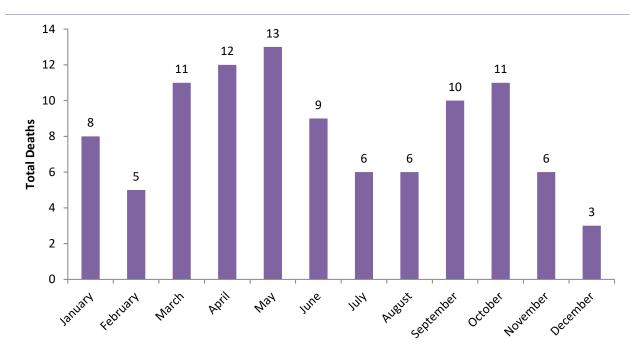
#### Percentage of Suicide Deaths by Race, 2022

Figure 3.23: N=100, represents all suicide deaths by race.



# Total Number of Suicide Deaths by Month of Death, 2022

Figure 3.24: N=100, represents all suicide deaths by month of death.



2022

## Total Number of Suicide Deaths by Means of Death, 2022

Table 3.4: N=100, represents all suicide deaths by means of death.

Means of Death	Total
Asphyxia:	
Shower curtain	1
Nitrogen gas	1
Drug	6
Firearm:	
Handgun	64
Rifle	5
Shotgun	8
Hanging:	
Bath towel	1
Bathrobe tie	1
Belt	1
Chain	1
Electrical cord	4
HDMI cord	1
Nylon strap	1
Pants	1
Rope	3
Sheet	1
Total	100

# Undetermined

Undetermined deaths accounted for 3.3% of the deaths investigated by the JCCMEO in 2022.

There was a 50.0% increase in the total number of undetermined deaths, from 28 deaths in 2021 to 42 deaths in 2022.

Undetermined was the most common means of Undetermined death, accounting for 50.0% of the deaths.

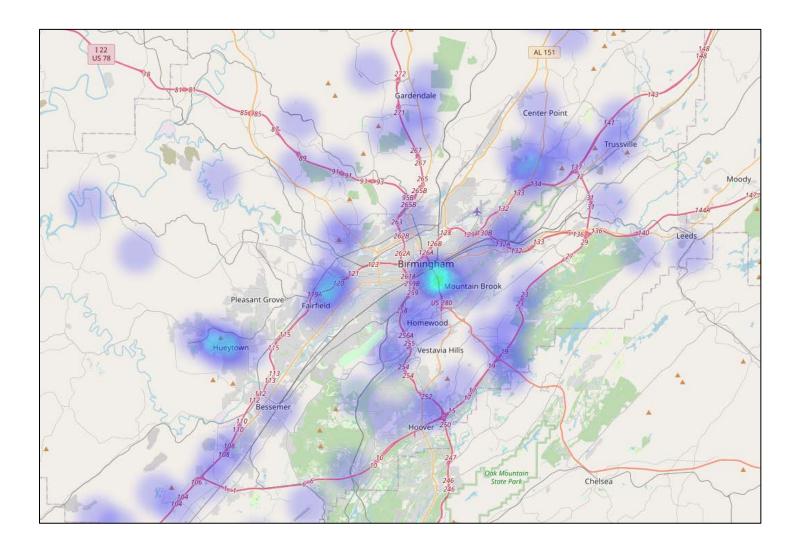
#### **Total Number of Undetermined Deaths by Year of Death 2000-2022**



Figure 3.25: represents all undetermined deaths investigated by the JCCMEO.

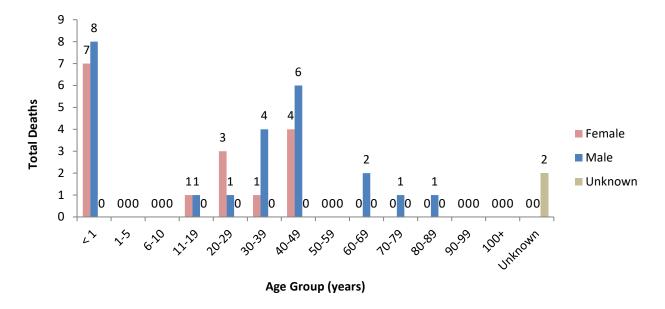
## **Total Number of Undetermined Deaths by Place of Death, 2022**

Figure 3.26: N=42, represents all undetermined deaths by place of death.



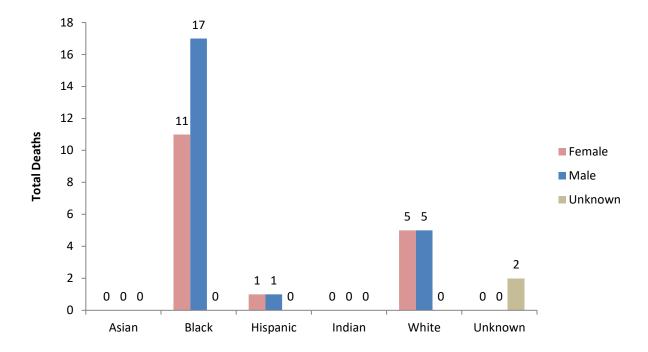
#### **Total Number of Undetermined Deaths by Gender and Age Group, 2022**

Figure 3.27: N=42, represents all undetermined deaths by gender and age group.



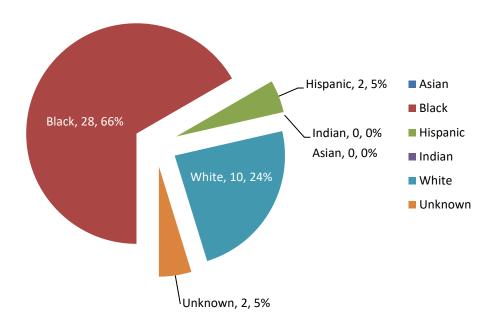
## **Total Number of Undetermined Deaths by Gender and Race, 2022**

Figure 3.28: N=42, represents all undetermined deaths by gender and race.



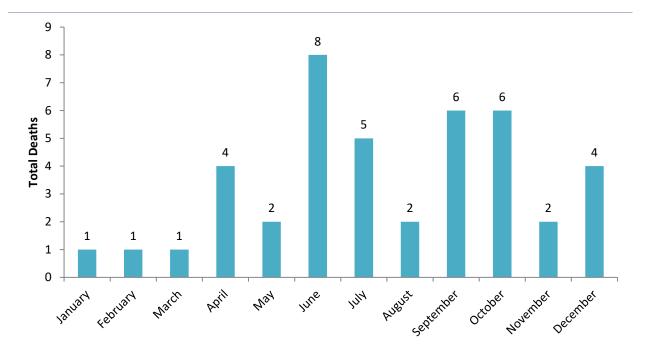
#### Percentage of Undetermined Deaths by Race, 2022

Figure 3.29: N=42, represents all undetermined deaths by race.



### **Total Number of Undetermined Deaths by Month of Death, 2022**

Figure 3.30: N=42, represents all undetermined deaths by month of death.



# Total Number of Undetermined Deaths by Means of Death, 2022

Table 3.5: N=42, represents all undetermined deaths by means of death.

Means of Death	Total
Blunt: Unknown	1
Co-sleeping: Bed	11
Drug:	3
Fire-other:	1
Gun: Handgun	1
Other heart disease	1
Pneumonia	1
Motor vehicle: Pedestrian	1
Train: Pedestrian	1
Undetermined:	
Bouncy seat	1
Crib	3
Undetermined	17
Total	42

# Section 4: Infant/Juvenile Deaths

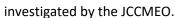
Infant/Juvenile deaths accounted for 4.1% of the deaths investigated by the JCCMEO in 2022. There was a 17.8% increase in the total number of infant/juvenile deaths, from 45 deaths in 2021 to 53 deaths in 2022. Infant deaths increased 5%, from 20 deaths in 2021 to 21 deaths in 2022 and, juvenile deaths increased 28.0%, from 25 deaths in 2021 to 32 deaths in 2022.

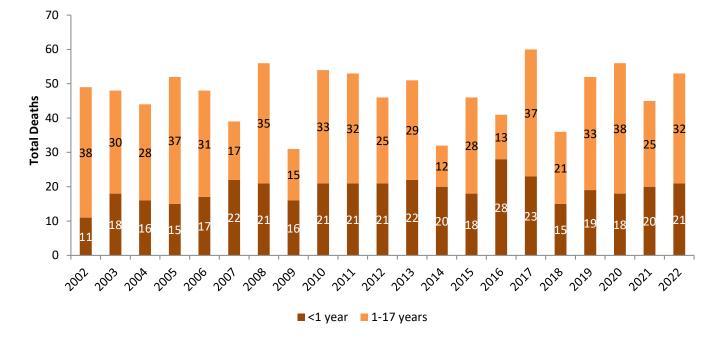
<u>Infants (<1 year of age)</u>: Deaths due to co-sleeping was the most common means of infant death in 2022, accounting for 12 of the 21 or 57.1% of the infant deaths. Undetermined death was the most common manner of infant death, accounting for 71.4% of the deaths. The most common race was Black representing 95.2% of the infant deaths, while males were the most common gender representing 52.4% of the infant deaths.

<u>Juveniles (1–17 years of age)</u>: Deaths due to firearms were the most common means of juvenile death in 2022, accounting for 59.4% of the deaths. Homicide was the most common manner of death, accounting for 50% of the deaths. The most common race was Black representing 81.3% of the juvenile deaths, while males were the most common gender representing 34.4% of the juvenile deaths.

# **Historical Summary**

#### **Total Number of Infant and Juvenile Deaths by Year of Death 2002-2022** Figure 4.1: represents all infant deaths (<1 year of age) and juvenile deaths (1-17 years of age)

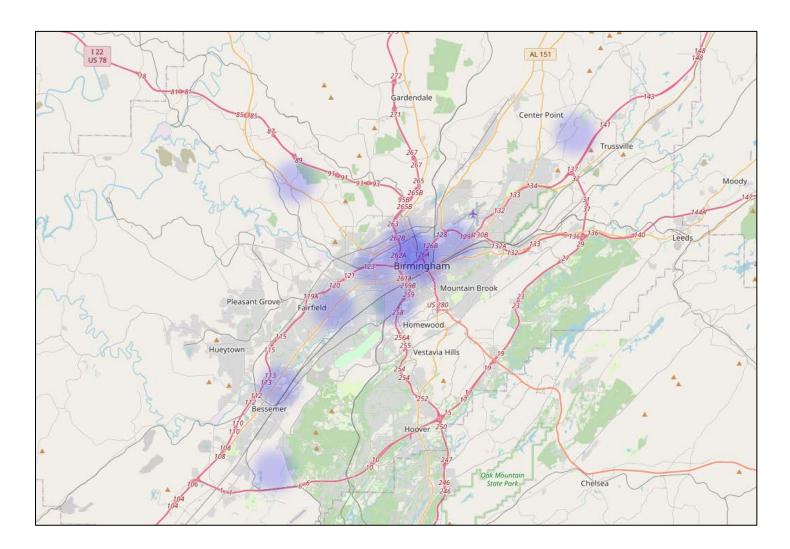




# **Infant Deaths**

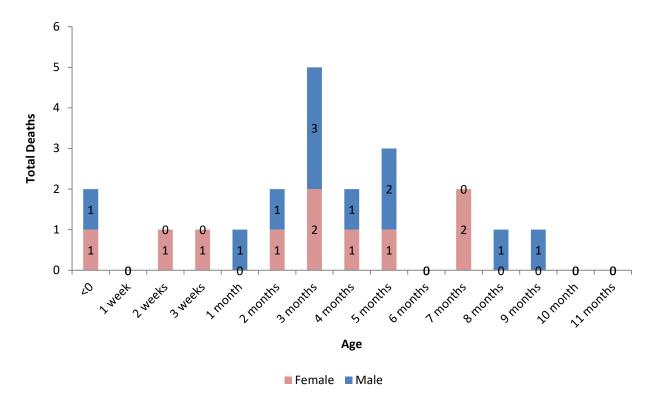
## Total Number of Infant Deaths by Place of Injury, 2022

Figure 4.2: N=21, represents all infant deaths (<1 year of age) by place of injury.



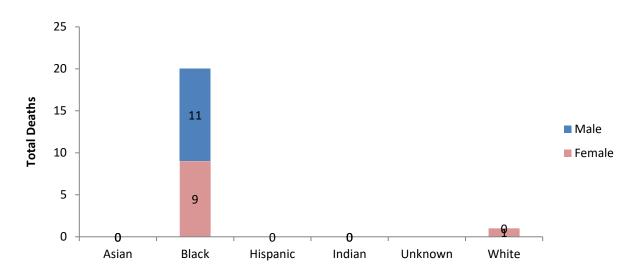
## **Total Number of Infant Deaths by Gender and Age, 2022**

Figure 4.3: N=21, represents all infant deaths (<1 year of age) by gender and age.



## **Total Number of Infant Deaths by Gender and Race, 2022**

Figure 4.4: N=21, represents all infant deaths (<1 year of age) by gender and race.



#### Percentage of Infant Deaths by Race, 2022

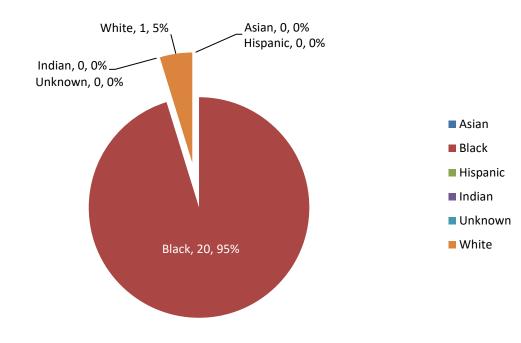
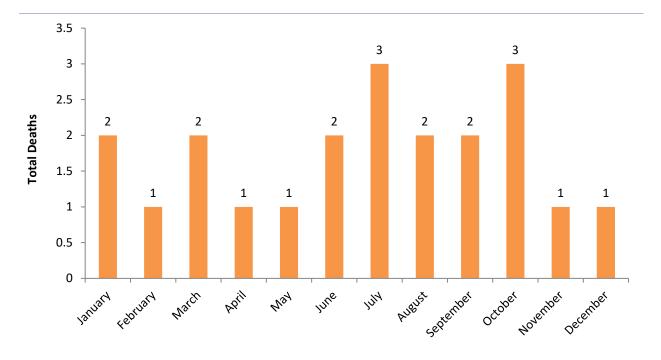


Figure 4.5: N=21, represents all infant deaths (<1 year of age) by race.

#### **Total Number of Infant Deaths by Month of Death, 2022**

Figure 4.6: N=21, represents all infant deaths (<1 year of age) by month of death.



### **Total Number of Infant Deaths by Means of Death, 2022**

Table 4.1: N=21, represents all infant deaths (<1 year of age) by means of death.

Means of Death	Total
Asphyxia: Pillow	1
Blunt:	
Hands	1
Tree	1
Co-sleeping: Bed	12
Natural: Other natural	2
Undetermined:	
Bouncy seat	1
Crib	3
Total	21

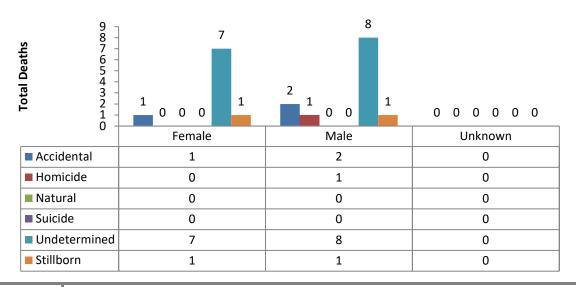
#### Total Number of Infant Deaths by Manner of Death and Race, 2022

Table 4.2: N=21, represents all infant deaths (<1 year of age) by manner of death and race.<sup>1</sup>

Race	Accident	Homicide	Homicide Natural		Undetermined	Stillborn <sup>1</sup>	Total
Asian	0	0	0	0	0	0	0
Black	3	1	0	0	14	2	20
Hispanic	0	0	0	0	0	0	0
Indian	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0
White	0	0	0	0	1	0	1
Total	3	1	0	0	15	2	21

#### Total Number of Infant Deaths by Manner of Death and Gender, 2022

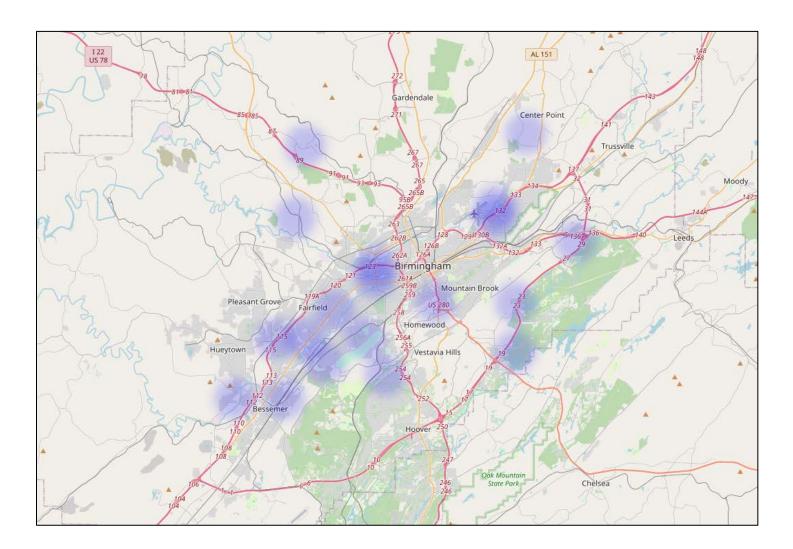
Figure 4.7: N=21, represents all infant deaths (<1 year of age) by manner of death and gender.<sup>1</sup>



# **Juvenile Deaths**

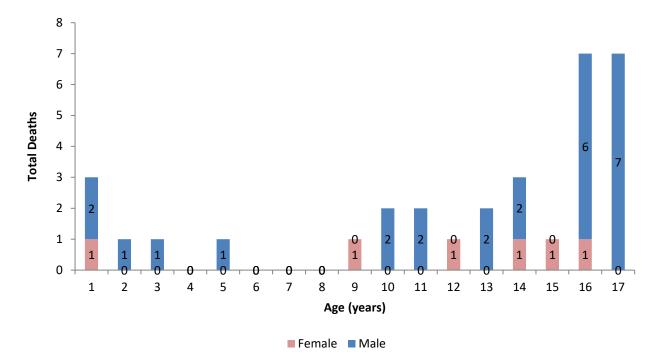
## Total Number of Juvenile Deaths by Place of Injury, 2022

Figure 4.8: N=32, represents all juvenile deaths (1-17 years of age) by place of injury.



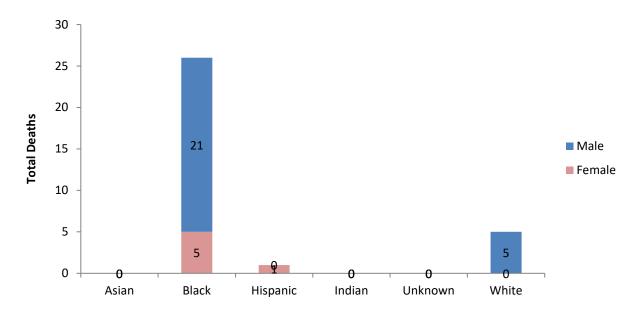
### **Total Number of Juvenile Deaths by Gender and Age, 2022**

Figure 4.9: N=32, represents all juvenile deaths (1-17 years of age) by gender and age.



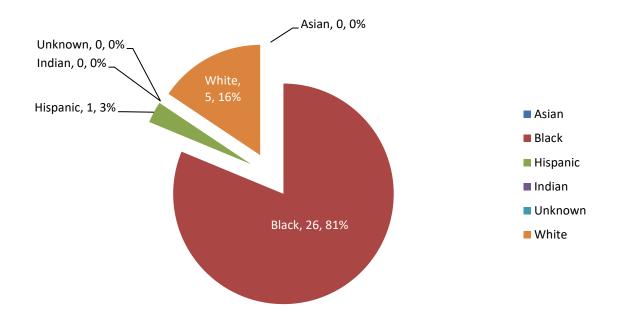
#### **Total Number of Juvenile Deaths by Gender and Race, 2022**

Figure 4.10: N=32, represents all juvenile deaths (1-17 years of age) by gender and race.



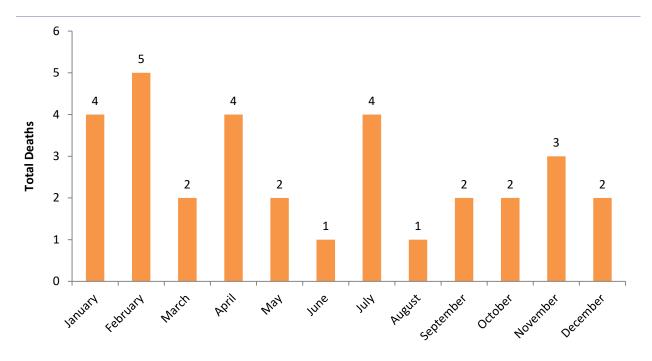
#### Percentage of Juvenile Deaths by Race, 2022

Figure 4.11: N=32, represents all juvenile deaths (1-17 years of age) by race.



#### **Total Number of Juvenile Deaths by Month of Death, 2022**

Figure 4.12: N=32, represents all juvenile deaths (1-17 years of age) by month of death.



## Total Number of Juvenile Deaths by Means of Death, 2022

Table 4.3: N=32, represents all juvenile deaths (1-17 years of age) by means of death.

Means of Death	Total							
Asphyxia: Crib	1							
Auto:								
Motorcycle								
Pedestrian	1							
Single vehicle	2							
Blunt: Tree	1							
Drowning: Pool	1							
Gun:								
Handgun	10							
Rifle	6							
Unknown								
Hanging: Rope	1							
Natural:								
Heart disease	1							
Other natural	2							
Seizure disorder (epilepsy)	1							
Sharp: Unknown								
Total	32							

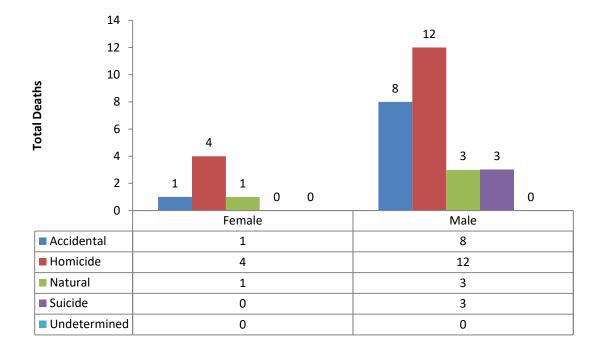
#### Total Number of Juvenile Deaths by Manner of Death and Race, 2022

Table 4.4: N=32, represents all juvenile deaths (1-17 years of age) by manner of death and race.

Race	Accident	Homicide	Natural	Suicide	Undetermined	Total
Asian	0	0	0	0	0	0
Black	5	15	4	2	0	26
Hispanic	0	1	0	0	0	1
Indian	0	0	0	0	0	0
Unknown	0	0	0	0	0	0
White	4	0	0	1	0	5
Total	9	16	4	3	0	32

## Total Number of Juvenile Deaths by Manner of Death and Gender, 2022

Figure 4.13: N=32, represents all juvenile deaths (1-17 years of age) by manner of death and gender.

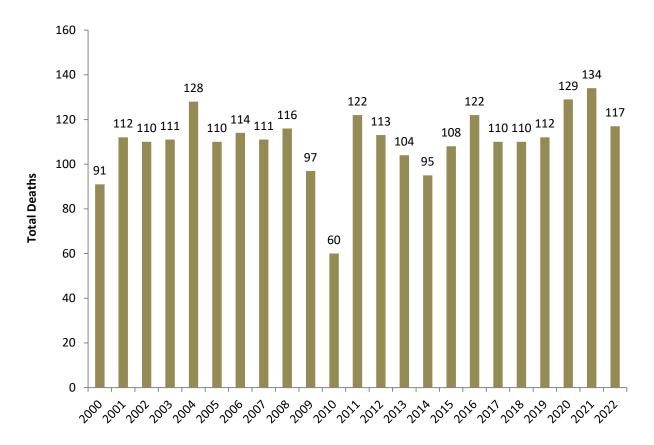


# **Section 5: Motor Vehicle Deaths**

For the purpose of this report, motor vehicle deaths include airplane, all-terrain vehicle, automobile, motorcycle, train, and pedestrian deaths.

Motor vehicle deaths accounted for 9.1% of the deaths investigated by the JCCMEO in 2022. There was a 12.7% decrease in the total number of motor vehicle deaths, from 134 deaths in 2021 to 117 deaths in 2022.

Multiple-vehicle collisions was the most common means of motor vehicle death accounting for 34.2% of the deaths, followed by single-vehicle collisions accounting for 26.5% of the deaths and motor vehicle-pedestrian collisions accounting for 24% of the deaths.

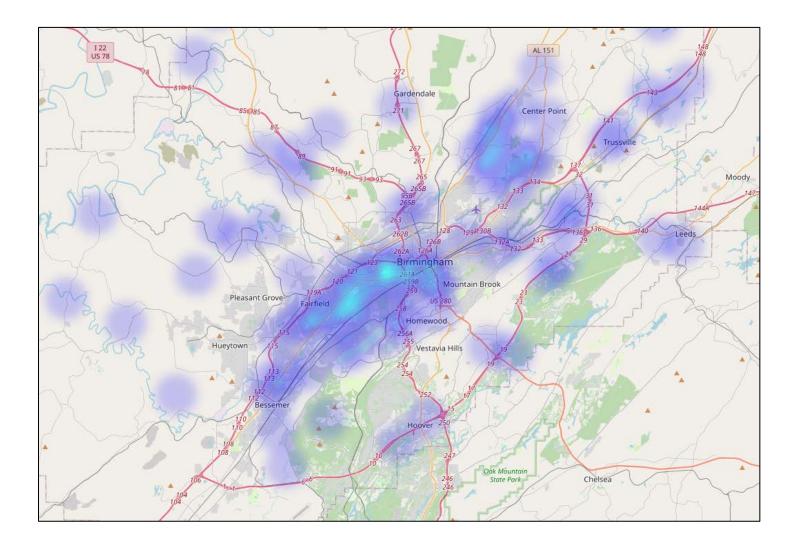


## **Total Number of Motor Vehicle Deaths by Year of Death 2000-2022**

Figure 5.1: represents all motor vehicle deaths investigated by the JCCMEO.

# **Total Number of Motor Vehicle Deaths by Place of Injury, 2022**

Figure 5.2: N=117, represents all motor vehicle deaths by place of injury.



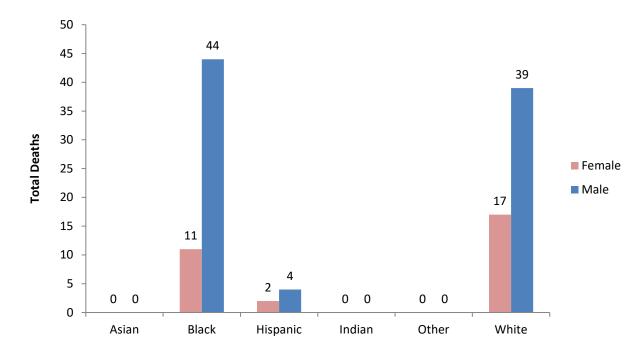
# **Total Number of Motor Vehicle Deaths by Gender and Age Group, 2022**

**Total Deaths** Female Male 6-10 11-19 20-29 30-39 40-49 50-59 60-69 70-79 80-89 90-99 100+ < 1 1-5 Age Group (years)

Figure 5.3: N=117, represents all motor vehicle deaths by gender and age group.

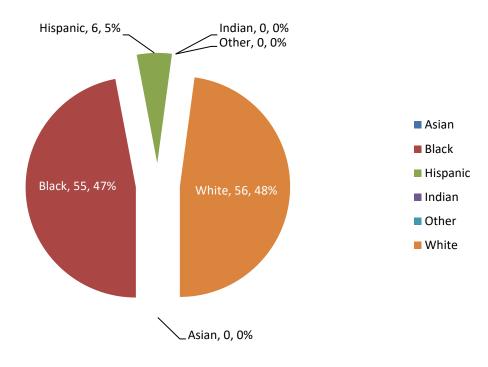
## **Total Number of Motor Vehicle Deaths by Gender and Race, 2022**

Figure 5.4: N=117, represents all motor vehicle deaths by gender and race.



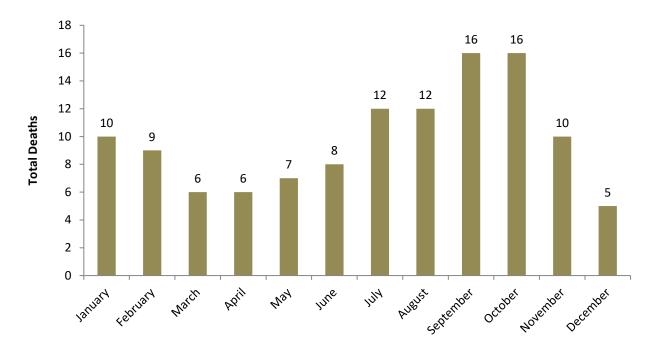
## Percentage of Motor Vehicle Deaths by Race, 2022

Figure 5.5: N=117, represents all motor vehicle deaths by race.



## **Total Number of Motor Vehicle Deaths by Month of Death, 2022**

Figure 5.6: N=117, represents all motor vehicle deaths by month of death.



2022

# **Total Number of Motor Vehicle Deaths by Means of Death, 2022**

Table 5.1: N=117, represents all motor vehicle deaths by means of death.

Means of Death	Total
Motor-vehicle:	
Bicycle	3
Motorcycle	10
Single vehicle	31
Multiple vehicles	40
Train	4
Pedestrian:	
Motor vehicle	28
Train	1
Total	117

# **Section 6: Overdose Deaths**

## **Overview**

The data in this section represent all overdose deaths investigated by the Jefferson County Coroner/ Medical Examiner's Office in the 2022 calendar year where the direct cause of death was due to an overdose/toxic level of illicit drug(s), prescription medication(s), ethanol (alcohol), or other poison(s).

This section does not reflect data on other types of deaths where drugs or ethanol contributed to the death but was not the direct cause of death. An example of a death that would not be included in this section would be a motor vehicle fatality where the decedent/driver of the vehicle was intoxicated, but the immediate cause of death was trauma due to the collision.

For the purpose of this report overdoses have been categorized into the following three Means of Death:

- <u>Drug</u> refers to all overdoses where the direct cause of death was due to illicit drug(s) or, the direct cause of death was due to prescription medication(s) in combination with illicit drug(s). This category of overdoses does not include illicit or prescription opioids. For the purpose of this report "illicit drugs" refers to illegal street type drugs (i.e., cocaine, methamphetamine, etc.).
- <u>Drug-Opioid</u> refers to all overdose deaths where the direct cause of death included either illicit opioid(s) (i.e., heroin, non-pharmaceutical fentanyl, etc.) and/or prescription opioid(s).
- <u>Ethanol (alcohol)</u> refers to all overdoses where the direct cause of death was due to a toxic level of ethanol (alcohol).

Often drug overdoses are found to be a combination of illicit drugs, prescription medications, ethanol (alcohol), and/or other poisons; therefore, a single death might be represented multiple times in this section. Because of this it is important to recognize that in the following graphs and tables the totals for each of the drugs represents the number of occurrences that particular drug was found to be either the single cause of death or a component in conjunction with other drug(s) that combined was the cause of death.

# **General Statistics and Notable Trends**

There was a 12.7% increase in the total overdose deaths this past year, from 401 deaths in 2021 to 452 deaths in 2022.

There was a 9.6% increase in opioid deaths, from 343 deaths in 2021 to 376 deaths in 2022.

There was a 12.3% increase in fentanyl deaths, from 316 deaths in 2021 to 355 deaths in 2022.

There was a 22.2% increase in cocaine deaths, from 117 deaths in 2021 to 143 deaths in 2022.

There was an 70.6% decrease in heroin deaths, from 68 deaths in 2021 to 20 deaths in 2022.

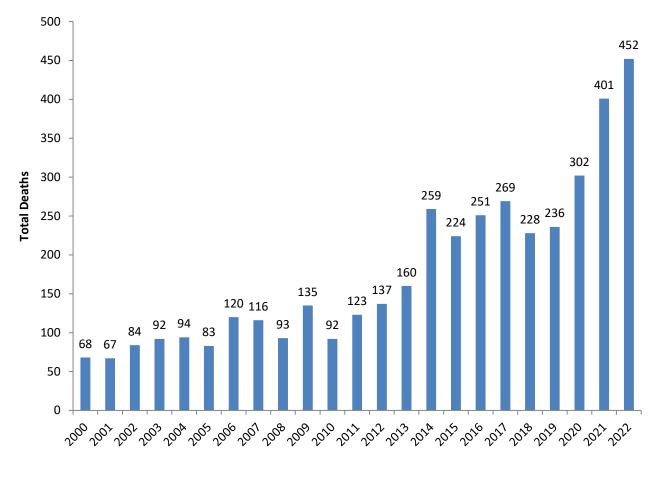
There was a 10.4% increase in methamphetamine deaths, from 134 deaths in 2021 to 148 deaths in 2022. Overdose deaths of individuals who identified as Black increased 13.4%, from 171 deaths in 2021 to 194 deaths in 2022.

Overdose deaths of males who identified as Black increased 22.5%, from 120 deaths in 2021 to 147 deaths in 2022.

## **Historical Summary**

### Total Number of Overdose Deaths by Year of Death 2000-2022

Figure 6.1: represents all overdose deaths investigated by the JCCMEO.

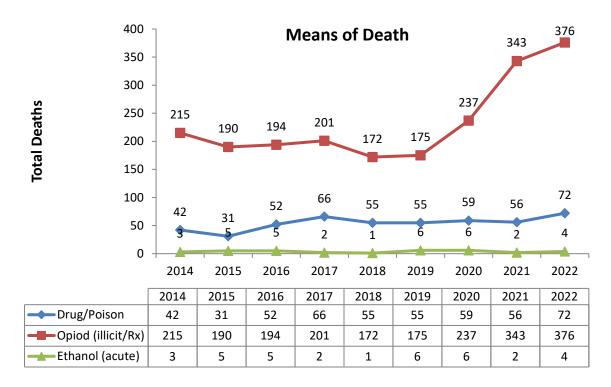


#### **Historical Summary: Means of Death, 2014-2022**

Table 6.1: represents all overdoses by means of death, 2014-2022.

Year	Drug/ Poison	Opioid (illicit/Rx)	Ethanol (acute)		Total Overdose Deaths
2014	42	215	2	=	259
2015	31	190	3	=	224
2016	52	194	5	=	251
2017	66	201	2	=	269
2018	55	172	1	=	228
2019	55	175	6	=	236
2020	59	237	6	=	302
2021	56	343	2	=	401
2022	72	376	4	=	452

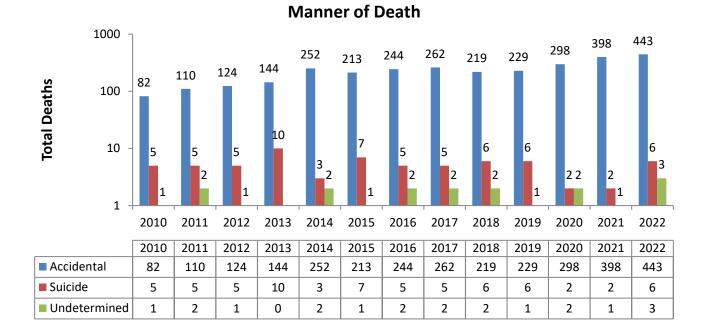
Figure 6.2: represent all overdoses by means of death, 2014-2022.



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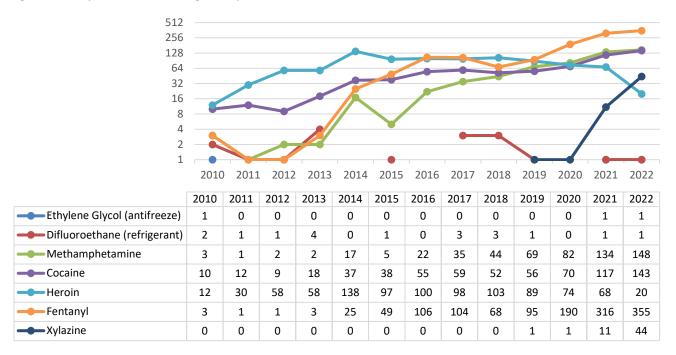
#### Historical Summary: Manner of Death, 2010-2022

Figure 6.3: represents all overdoses by manner of death.



#### Historical Summary: Illicit Drugs/Poisons, 2010-2022

Figure 6.4: represents illicit drugs and poisons.

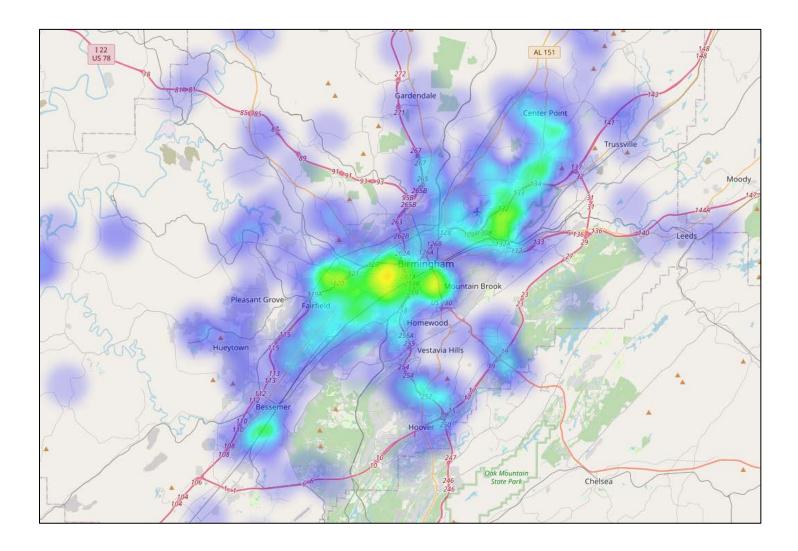


2022

# **2022 Overdose Deaths**

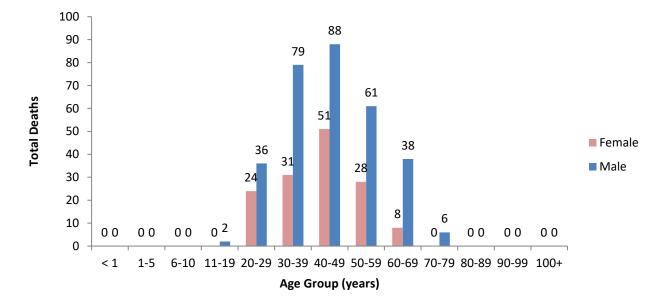
## Total Number of Overdose Deaths by Place of Injury, 2022

Figure 6.5: N=452, represents all overdose deaths by place of injury.



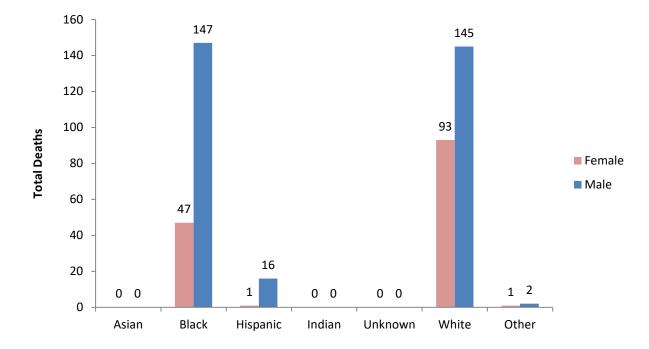
#### **Total Number of Overdose Deaths by Gender and Age Group, 2022**

Figure 6.6: N=452, represents all overdose deaths by gender and age group.



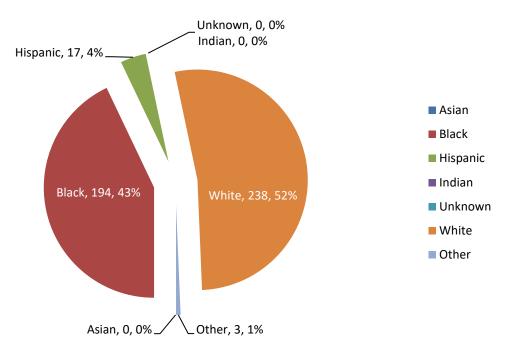
## **Total Number of Overdose Deaths by Gender and Race, 2022**

Figure 6.7: N=452, represents all overdose deaths by gender and race.



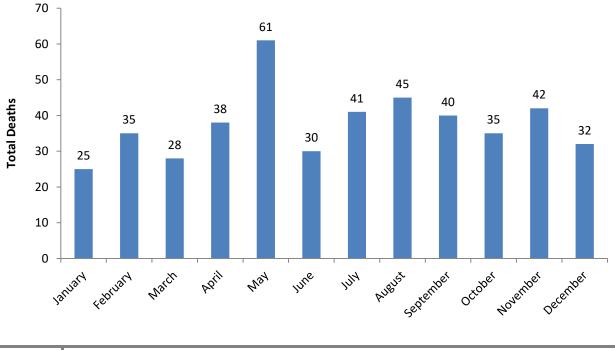
#### Percentage of Overdose Deaths by Race, 2022

Figure 6.8: N=452, represents all overdose deaths by race.



#### **Total Number of Overdose Deaths by Month of Death, 2022** Figure 6.9: N=452, represents all overdose deaths by month of death.

65



2022

## **Commons Medications and Ethanol Deaths: 2010-2022**

Table 6.2: A single death might contain multiple drugs; therefore, a single death might be represented multiple times in this table. The total for each drug represents the number of occurrences for that calendar year where that specific drug was found to be either the single cause of death or a component in conjunction with other drug(s) that combined was the cause of death. Also, the deaths represented in this table might be a result of a combination of prescription drug(s) and illicit drug(s). Often drug overdoses are found to be a combination of both prescription and illicit drugs.

Drug	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Opioids:													
Hydrocodone	8	7	8	12	28	11	13	15	12	11	11	13	9
Hydromorphone (Dilaudid)	0	0	0	2	0	1	0	1	1	1	2	1	1
Methadone	22	13	11	21	21	17	16	7	9	8	5	8	7
Morphine	10	17	12	5	7	3	5	3	0	2	8	2	3
Oxycodone	4	8	4	13	21	11	12	11	8	13	12	13	11
Tramadol	2	0	1	6	5	3	3	9	5	5	3	5	2
Benzodiazepines:	•	•	•		•								
Alprazolam (Xanax)	5	3	7	12	32	8	31	28	15	16	19	22	10
Clonazepam (Klonopin)	0	0	0	1	0	0	0	0	0	2	1	0	0
Diazepam (Valium)	3	1	2	7	11	5	3	6	4	2	4	3	2
Barbiturates:													
Butalbital	0	0	0	1	1	0	0	0	0	1	0	0	0
Phenobarbital	0	0	0	0	1	0	0	0	0	0	0	0	0
Antidepressants:													
Citalopram (Celexa)	4	2	1	1	2	0	1	5	1	2	2	0	1
Nortriptyline (Palmelor)	2	1	0	1	0	0	0	1	0	0	0	0	1
Velafaxine (Effexor)	0	0	0	2	0	0	0	0	0	0	0	0	0
Other:													
Acetaminophen (Tylenol)	2	1	2	1	1	0	0	0	0	0	0	0	0
Amphetamine	3	0	1	0	2	1	2	0	2	1	6	4	12
Carisoprodol (Soma)	1	3	0	2	4	0	0	0	1	0	0	0	0
Fluoxetine (Prozac)	3	2	1	1	1	4	1	3	0	1	0	1	0
Gabapentin	0	0	0	0	1	0	0	0	0	3	0	0	2

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20	22
20	
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Drug	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Promethazine (Phenergan)	0	0	1	3	4	1	0	2	1	1	0	0	1
Quetiapine (Seroquel)	1	0	0	2	2	1	1	1	2	7	1	0	2
Sertraline (Zoloft)	0	0	0	0	3	0	1	1	1	0	0	0	0
Trazodone (Oleptro)	0	0	0	1	1	0	1	1	0	2	0	1	1
Gamma- Hydroxybutyrate (GHB)	1	0	1	0	1	0	0	0	2	0	1	1	0
Ethanol (alcohol)	0	13	26	16	33	30	24	38	37	40	45	52	59

# **End Notes**

- 1. Pursuant to State of Alabama Vital Records rules, stillborn deaths are not assigned a manner of death.
- 2. Tissue of no forensic value.
- 3. The Jefferson County Sheriff's Office provides death investigation services for the City of Fairfield.

**End of Report**