

Office of the Chief Medical Examiner Annual Report 2022



Commonwealth of Virginia
Virginia Department of Health
Office of the Chief Medical Examiner
Compiled by Kathrin 'Rosie' Hobron, MPH
August 2024

Office of the Chief Medical Examiner

Annual Report 2022

Chief Medical Examiner: William T. Gormley, MD, PhD

CENTRAL DISTRICT

400 East Jackson Street
Richmond, VA 23219
(804) 786-3174

OCME_CENT@vdh.virginia.gov

Assistant Chief Medical Examiners

Jennifer Bowers, MD
Jeffery Gofton, MD
Renee Robinson, MD
Chrystal Van Dusen, MD

NORTHERN DISTRICT

10850 Pyramid Place, Suite 121
Manassas, VA 20110
(703) 530-2600

OCME_NOVA@vdh.virginia.gov

Assistant Chief Medical Examiners[¥]

Carmen Coles, MD
Brittney Imblum, MD
Meghan Kessler, DO
Gene Maya, MD

<http://www.vdh.virginia.gov/medical-examiner/>

TIDEWATER DISTRICT

830 Southampton Ave., Suite 100
Norfolk, VA 23510
(757) 683-8366

OCME_Tide@vdh.virginia.gov

Assistant Chief Medical Examiners[§]

Fernanda Lameira, MD
Wendy M. Gunther, MD
Nicole Masian, MD

WESTERN DISTRICT

6600 Northside High School Road
Roanoke, VA 24019
(540) 561-6615

OCME_West@vdh.virginia.gov

Assistant Chief Medical Examiners^{*}

Amy Tharp, MD

[¥] Jocelyn Posthumus, MD, was an Assistant Chief Medical Examiner for the Northern District in 2022

[§] Elizabeth Kinnison, MD, and Clare Bryce, MD, were Assistant Chief Medical Examiners for the Tidewater District in 2022

^{*} Eli Goodman, MD, and Sara Ohanessian, MD, were Assistant Chief Medical Examiners for the Western District in 2022

INTRODUCTION

Executive Summary

The Virginia Department of Health, Office of the Chief Medical Examiner (OCME) is proud to present the 2022 Annual Report. In addition to fulfilling accreditation requirements for the Virginia OCME by the National Association of Medical Examiners (NAME), the OCME Annual Report provides specific information about deaths occurring in the Commonwealth of Virginia during the 2022 calendar year and investigated by the OCME. This information is a valuable resource for Virginia's citizens and leaders to identify trends in preventable deaths, which can be used to protect the lives of all Virginians through education and changes in public policy.

As a model statewide death investigation system with four district offices, the OCME fulfills a core function mandated by Code of Virginia, § 32.1-283. By Code, the OCME is tasked with investigating the deaths of individuals who died in Virginia from trauma or violence, when sudden and unexpected, while unattended by a physician, under suspicious circumstances or in the custody of law enforcement or other state or local authority. When deaths are reported to one of the four district OCME offices, the case information is entered into the Virginia Medical Examiner Database (VMEDS) and the case is managed through this statewide data system allowing for consistent, reliable data that can be reviewed and interpreted for the annual report.

Some of the important trends in 2022 among OCME cases include:

- Among manners of death (excluding fetal deaths), all categories but accidents increased in 2022 compared to 2021
- Accidental Deaths
 - Accidental deaths have been increasing in Virginia since 2011; however, in 2022, the number of accidental deaths decreased 0.7% compared to 2021 (with rates of 58.8 and 59.4 per 100,000 persons, respectively)
 - Of all deaths investigated by the OCME in 2022, 52.7% (n=5,105) were accidents
 - Black males, followed by White males, had the highest rates of accidents, all causes (118.5 and 84.8 per 100,000, respectively)
 - Nearly 49% (n=2,498) of all accidental deaths were due to fatal drug overdoses
- Homicides

- The number of homicides in 2022 increased 6.5% from the previous year
- The number of gun-related homicides in 2022 increased 10.6% compared to 2021 (563 and 509 deaths, respectively)
- Black males had the highest homicide rate in 2022 (47.4 per 100,000) compared to other comparable demographic groups. Black males were victims of homicide at a rate 13.1 times that of Hispanic males, 12.3 times that of White males, and 6.3 times that of Black females
- Males aged 20-24 years had the highest homicide rate (30.6 per 100,000) compared to other age and sex groups.
- Richmond City had the largest number of homicides by locality of residence (n=54) and Norfolk and Richmond City tied for the largest number of homicides by locality of injury (n=64). Norton City, population of 3,609 residents in 2022, had both the highest homicide rate by locality of residence and by location of injury (both 83.1 per 100,000, respectively); however, these rates were calculated based on three homicides in 2022, two of which occurred in the same incident. From 2007 to 2022, Norton City had one homicide in 2012 by event locality and by residence, one homicide in 2020 and one in 2021, so three homicides in 2022 do not indicate a trend, but rather a statistical anomaly among a small population.
- Suicides
 - In 2022, Whites committed suicide at a rate 4.3 times that of Hispanics, 3.0 times that of Asians, and 1.8 times that of Black populations
- Fatal motor vehicle collisions
 - Black males highest rate of fatal motor vehicle collisions (26.1 per 100,000) compared to other race/ethnicity and sex groups
 - Males 85+ years had the highest rate of fatal motor vehicle collisions (55.0 per 100,000) compared to other comparable demographic groups
- Fatal drug overdoses
 - After years of increasing numbers, the number of drug/poisoning deaths in 2022 decreased slightly compared to 2021 (1.9%; with rates of 30.1 and 30.8 per 100,000 persons, respectively)

- For the fourth year in a row, Black males had the highest rate of fatal drug overdoses, all substances, followed by Native American males and White males (76.4, 42.9, and 41.5 per 100,000, respectively)
- Fatal fentanyl and/or heroin overdoses surpassed prescription opioid (excluding fentanyl) overdoses in 2015 and this trend continued at a greater magnitude in 2022
- Over 98% of all fatal opioid overdoses in 2022 were accidents
- In 2022, fentanyl (prescription, illicit, and analogs) was responsible for 75.9% of all fatal overdoses, all substances. These deaths often involve other drugs in addition to fentanyl.
- Gun-related deaths
 - The majority (55.5%) of gun-related deaths were due to suicide in 2022, similar to previous years

Office of the Chief Medical Examiner

Annual Report 2022

Virginia Department of Health

Commonwealth of Virginia

TABLE OF CONTENTS

INTRODUCTION.....	1
Executive Summary.....	1
TABLE OF CONTENTS.....	4
Introduction.....	15
Data Collection and Preparation.....	15
Statistical Summary.....	15
OVERVIEW – OFFICE OF THE CHIEF MEDICAL EXAMINER.....	17
Jurisdictional Authority.....	17
Medicolegal Mission.....	18
Public Health Mission.....	18
Virginia Demographics in 2022.....	19
Division of Death Prevention, Fatality Review and Surveillance Programs.....	19
Virginia Violent Death Reporting System (VVDRS).....	19
The Overdose Data to Action (OD2A).....	20
Domestic Violence Fatality Review.....	20
State Child Fatality Review Team.....	21
Infant and Child Mortality Surveillance.....	21
Regional Child Fatality Review Teams.....	22
Virginia’s Pregnancy-Associated Mortality Surveillance System (PAMSS) and Maternal Mortality Review Team (MMRT).....	22
Virginia’s Sudden Death in the Young (SDY) Project.....	23

Adult Fatality Review	24
Local and Regional Overdose Fatality Review	24
Training and Education	26
Forensic Pathology Training Programs	26
National Association of Medical Examiners Accreditation	27
SECTION 1: TOTAL OCME CASES (N=9,693)	29
Figure 1.1 Number and Rate of OCME Cases by Year of Death, 1999-2022	29
Figure 1.2 Number of OCME Cases by Manner of Death, 1999-2022	30
Figure 1.3 Percentage of OCME Cases by Manner of Death, 2022	30
Table 1.1 Number of OCME Cases by District and Manner of Death, 2022	31
Table 1.2 Number of OCME Cases by Autopsy Status and District, 2022	31
Table 1.3 Number of OCME Cases by Manner of Death and Autopsy Status, 2022	31
.....	31
Table 1.4 Number of OCME Cases by Age Group and Autopsy Status, 2022	32
Table 1.5 Number and Percentage of OCME Cases by Race/Ethnicity, 2022	32
Figure 1.4 Number of OCME Cases by Manner of Death and Race/Ethnicity, 2022	33
Figure 1.5 Number of OCME Cases by Age Group, 2022	34
Table 1.6 Number and Percentage of OCME Cases by Manner of Death and Gender, 2022	35
Figure 1.6 Number and Rate of OCME Cases by Manner of Death and Gender, 2022	35
Table 1.7 Number of OCME Cases by Manner of Death, Gender, and Age Group, 2022	36
Figure 1.7 Number of OCME Cases by Month of Death, 2022	37
Figure 1.8 Number of OCME Cases by Month and Manner of Death, 2022	37
Figure 1.9 Number of OCME Cases by Day of Death, 2022	38
Figure 1.10 Number of OCME Cases by Day and Manner of Death, 2022	38
Table 1.8 Number and Rate of OCME Cases by Manner of Death and Locality of Residence, 2022	39
.....	39
Map 1.1 Number of OCME Cases by Locality of Residence, 2022	44
Map 1.2 Rates of OCME Cases by Locality of Residence, 2022	45
Table 1.9 Number and Rate of OCME Cases by Manner of Death and Locality of Injury, 2022 ..	46
Map 1.3 Number of OCME Cases by Locality of Injury, 2022	51
Map 1.4 Rate of OCME Cases by Locality of Injury, 2022	52

Table 1.10 Number of OCME Cases by Manner of Death and Locality of Death, 2022	53
Map 1.5 Number of OCME Cases by Locality of Death, 2022	57
SECTION 2: MANNERS OF DEATH	58
ACCIDENTAL DEATHS (N=5,105)	58
Figure 2.1 Number and Rate of Accidental Deaths by Year of Death, 1999-2022	58
Figure 2.2 Number and Rate of Accidental Deaths by Age Group and Gender, 2022	59
Figure 2.3 Percentage of Accidental Deaths by Race/Ethnicity, 2022.....	59
Figure 2.4 Number and Rate of Accidental Deaths by Race/Ethnicity and Gender, 2022	60
Table 2.1 Number of Accidental Death Cases by Cause and Method of Death, 2022	61
Table 2.2 Number and Rate of the Top Five Accidental Methods of Death by Age Group, 2022	63
Figure 2.5 Number of Accidental Deaths by Age Group and Ethanol Level (N=3,640), 2022	64
Figure 2.6 Number of Accidental Deaths by Ethanol Level and Gender (N=3,640), 2022	64
Figure 2.7 Number of the Top 5 Accidental Methods of Death by Ethanol Level, 2022	65
Figure 2.8 Number of Accidental Deaths by Month of Death, 2022	66
Figure 2.9 Number of Accidental Deaths by Day of Death, 2022	66
Table 2.3 Number of Accidental Deaths by Locality of Injury and Year of Death, 2006-2022.....	67
HOMICIDE DEATHS (N=653)	72
Figure 2.10 Number and Rate of Homicide Deaths by Year of Death, 1999-2022.....	72
Figure 2.11 Number and Rate of Homicide Deaths by Age Group and Gender, 2022	73
Figure 2.12 Percentage of Homicide Deaths by Race/Ethnicity, 2022	73
Figure 2.13 Number and Rate of Homicide Deaths by Race/Ethnicity and Gender, 2022.....	74
Table 2.4 Number of Homicide Deaths by Cause and Method of Death, 2022	75
Figure 2.14 Number of the Leading Homicide Deaths by Method, 2022.....	76
Figure 2.15 Number of Homicide Deaths by Ethanol Level and Gender (N=618), 2022	76
Figure 2.16 Number of Homicide Deaths by Age Group and Ethanol Level (N=618), 2022.....	77
Table 2.5 Number of Homicide Deaths by Method of Death and Ethanol Level (N=618), 2022 .	78
Figure 2.17 Number of Homicide Deaths by Month of Death, 2022.....	79
Figure 2.18 Number of Homicide Deaths by Day of Death, 2022	79
Table 2.6 Number and Rate of Homicide Deaths by Locality of Residence, 2022	80
Table 2.7 Top 10 Localities with the Largest Number of Residential Homicides, 2022	82
Table 2.8 Top 10 Localities with the Highest Rate of Residential Homicides, 2022	82

Map 2.1 Number of Homicides by Locality of Residence, 2022	83
Map 2.2 Homicide Rates by Locality of Residence, 2022	84
Table 2.9 Number and Rate of Homicide Deaths by Locality of Injury, 2022.....	85
Table 2.10 Top 10 Localities with the Largest Number of Homicides by Locality of Injury, 2022	87
Table 2.11 Top 10 Localities with the Highest Rate of Homicide by Locality of Injury, 2022.....	87
Map 2.3 Number of Homicides by Locality of Injury, 2022	88
Map 2.4 Homicide Rates by Locality of Injury, 2022	89
Table 2.12 Number of Homicide Deaths by Locality of Death and Year of Death, 2006-2022	90
NATURAL DEATHS (N=2,477)	95
Figure 2.19 Number and Rate of Natural Deaths Investigated by the OCME by Year of Death, 1999-2022	95
Figure 2.20 Number of Natural Deaths Investigated by the OCME by Age Group and Gender, 2022	96
Table 2.13 Number of Natural Deaths Investigated by the OCME by Cause and Method of Death, 2022	97
SUICIDE DEATHS (N=1,211).....	99
Figure 2.21 Number and Rate of Suicide Deaths by Year of Death, 1999-2022.....	99
Figure 2.22 Number and Rate of Suicide Deaths by Age Group and Gender, 2022.....	100
Figure 2.23 Percentage of Suicide Deaths by Race/Ethnicity, 2022	100
Figure 2.24 Number and Rate of Suicide Deaths by Race/Ethnicity and Gender, 2022.....	101
Table 2.14 Number of Suicide Deaths by Cause and Method of Death, 2022	102
Figure 2.25 Number of Suicide Deaths by Age Group and Ethanol Level (N=448), 2022	103
Figure 2.26 Number of Suicide Deaths by Gender and Ethanol Level (N=448), 2022.....	103
Table 2.15 Number of Suicide Deaths by Method of Death and Ethanol Level (N=448), 2022 .	104
Figure 2.27 Number of Suicide Deaths by Month of Death, 2022	105
Figure 2.28 Number of Suicide Deaths by Day of the Week, 2022	105
Table 2.16 Number and Rate of Suicide Deaths by Locality of Residence, 2022	106
Map 2.5 Number of Suicides by Locality of Residence, 2022.....	108
Map 2.6 Suicide Rates by Locality of Residence, 2022	109
Table 2.17 Number of Suicide Deaths by Locality of Injury and Year of Death, 2006-2022	110
UNDETERMINED DEATHS (N=235).....	115

Figure 2.29 Number and Rate of Undetermined Deaths by Year of Death, 1999-2022	115
Figure 2.30 Number and Rate of Undetermined Deaths by Age Group and Gender, 2022	116
Figure 2.31 Percentage of Undetermined Deaths by Race/Ethnicity, 2022.....	116
Table 2.18 Number of Undetermined Deaths by Cause of Death, 2022	117
SECTION 3: DEATHS OF CHILDREN (N=380)	118
Figure 3.1 Number of Child Deaths by Manner, 2022	118
Figure 3.2 Number of Child Deaths by Age and Gender, 2022.....	119
Figure 3.3 Percentage of Child Deaths by Race/Ethnicity, 2022	119
Figure 3.4 Number and Rate of Child Deaths by Gender and Race/Ethnicity, 2022	120
Figure 3.5 Number of Child Deaths by Manner and Race/Ethnicity, 2022	120
Figure 3.6 Number of Child Deaths by Manner and Age Group, 2022.....	121
ACCIDENTAL CHILD DEATHS (N=112)	122
Figure 3.7 Number and Rate of Accidental Child Deaths by Year, 2003-2022	122
Figure 3.8 Number and Rate of Accidental Child Deaths by Age Group and Gender, 2022	123
Figure 3.9 Percentage of Accidental Child Deaths by Race/Ethnicity, 2022	123
Figure 3.10 Number and Rate of Accidental Child Deaths by Gender and Race/Ethnicity, 2022	124
Figure 3.11 Number of Accidental Child Deaths by Month of Death, 2022	125
Figure 3.12 Number of Accidental Child Deaths by Day of Week, 2022	125
Table 3.1 Number of Accidental Child Deaths by Cause and Method of Death, 2022.....	126
CHILD HOMICIDE DEATHS (N=63)	127
Figure 3.13 Number and Rate of Child Homicide Deaths by Year, 1999-2022.....	127
Figure 3.14 Number of Child Homicide Deaths by Age and Gender, 2022	128
Figure 3.15 Percentage of Child Homicide Deaths by Race/Ethnicity, 2022	128
Figure 3.16 Number and Rate of Child Homicide Deaths by Gender and Race/Ethnicity, 2022	129
Figure 3.17 Number of Child Homicide Deaths by Month of Death, 2022	130
Figure 3.18 Number of Child Homicide Deaths by Day of the Week, 2022	130
Table 3.2 Number of Child Homicide Deaths by Cause and Method of Death, 2022	131
NATURAL CHILD DEATHS (N=24)	132
Figure 3.19 Number of Natural Child Deaths by Age Group and Gender, 2022	132
Figure 3.20 Percentage of Natural Child Deaths by Race/Ethnicity, 2022	133

Figure 3.21 Number of OCME SIDS Cases by Year of Death, 2003-2022	133
Table 3.3 Number of Natural Child Deaths by Cause and Method of Death, 2022	134
CHILD SUICIDE DEATHS (N=54)	135
Figure 3.22 Number and Rate of Child Suicide Deaths by Year, 1999-2022	135
Figure 3.23 Number of Child Suicide Deaths by Age and Gender, 2022	136
Figure 3.24 Percentage of Child Suicide Deaths by Race/Ethnicity, 2022	136
Figure 3.25 Number and Rate of Child Suicide Deaths by Gender and Race/Ethnicity, 2022 ...	137
Figure 3.26 Number of Child Suicide Deaths by Month, 2022	138
Figure 3.27 Number of Child Suicide Deaths by Day of the Week, 2022	138
Table 3.4 Number of Child Suicide Deaths by Cause and Method of Death, 2022	139
UNDETERMINED CHILD DEATHS (N=127)	140
Figure 3.28 Number and Rate of Undetermined Child Deaths by Year, 2006-2022	140
Figure 3.29 Number of Undetermined Child Deaths by Age and Gender, 2022	141
Figure 3.30 Percentage of Undetermined Child Deaths by Race/Ethnicity, 2022.....	141
Figure 3.31 Number and Rate of Undetermined Child Deaths by Gender and Race/Ethnicity, 2022	142
Table 3.5 Number of Undetermined Child Deaths by Cause and Method of Death, 2022	143
SECTION 4: MOTOR VEHICLE FATALITIES (N=1,127).....	144
Figure 4.1 Number and Rate of Motor Vehicle Deaths by Year, 2003-2022	144
Figure 4.2 Percentage of Motor Vehicle Deaths by Manner, 2022	145
Figure 4.3 Number and Rate of Motor Vehicle Deaths by Age Group and Gender, 2022	145
Figure 4.4 Percentage of Motor Vehicle Deaths by Race/Ethnicity, 2022	146
Figure 4.5 Number and Rate of Motor Vehicle Deaths by Race/Ethnicity and Gender, 2022 ...	146
Figure 4.6 Percentage of Motor Vehicle Deaths by Ethanol Amount (N=863), 2022	147
Figure 4.7 Number of Motor Vehicle Deaths by Age Group, Gender, and Ethanol Amount (N=863), 2022	147
Figure 4.8 Number of Motor Vehicle Deaths by Ethanol Level and Race/Ethnicity (N=863), 2022	148
Table 4.1 Number of Motor Vehicle Deaths by Age Group and Position during Collision, 2022	148
Figure 4.9 Number of Motor Vehicle Deaths by Position during Collision and Ethanol Level (N=863), 2022	149

Table 4.2 Number of Motor Vehicle Deaths by Position during Collision, Vehicle Type, and Ethanol Level (N=863), 2022	150
Figure 4.10 Number of OCME Motor Vehicle Fatalities by Month of Death, 2022	152
Figure 4.11 Number of OCME Motor Vehicle Fatalities by Day of Week, 2022.....	152
Table 4.3 Number and Rate of Motor Vehicle Deaths by Locality of Residence, 2022.....	153
Map 4.1 Number of Motor Vehicle Fatalities by Locality of Residence, 2022	155
Map 4.2 Rate of Motor Vehicle Fatalities by Locality of Residence, 2022	156
Table 4.4 Number and Rate of Motor Vehicle Deaths by Locality of Injury, 2022.....	157
Map 4.3 Number of Motor Vehicle Fatalities by Locality of Injury, 2022	159
Map 4.4 Rate of Motor Vehicle Fatalities by Locality of Injury, 2022	160
SECTION 5: DRUG/POISON DEATHS (N=2,617).....	161
ALL DRUG/POISON DEATHS (N=2,617)	161
Figure 5.1 Number and Rate of Fatal Drug/Poison Overdoses by Year of Death, 1999-2022 ...	161
Table 5.1 Number and Percentage of Fatal Drug/Poison Overdoses by OCME District, 2022 ..	162
Figure 5.2 Percentage of Fatal Drug/Poison Overdoses by Manner of Death, 2022	162
Figure 5.3 Number and Rate of Fatal Drug/Poison Overdoses by Age Group and Gender, 2022	163
Table 5.2 Number of Fatal Drug/Poison Overdoses by Age Group and Manner of Death, 2022	163
Figure 5.4 Percentage of Fatal Drug/Poison Overdoses by Race/Ethnicity, 2022.....	164
Figure 5.5 Number and Rate of Fatal Drug/Poison Overdoses by Race/Ethnicity and Gender, 2022	164
Table 5.3 Number of Fatal Drug/Poison Overdoses by OCME District and Cause of Death, 2022	165
Table 5.4 Number of Fatal Drug/Poison Overdoses Manner and Cause of Death, 2022.....	165
Figure 5.6 Number of Fatal Drug/Poison Overdoses by Drug Category and Year of Death, 1999-2022	166
Figure 5.7 Number of Fatal Drug/Poison Overdoses by Drug Category and Gender, 2022.....	167
Figure 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Drug Category and Race/Ethnicity, 2022.....	168
Figure 5.9 Number of Fatal Drug/Poison Overdoses by Drug Category and Ethanol Level, 2022	169

Table 5.5 Number of Fatal Drug/Poison Overdoses by Cause of Death and Whether Alcohol Caused Death, 2022	169
Figure 5.10 Number of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolites Detected, 2022	170
Table 5.6 Number and Percentage of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolite Detected, 2022.....	170
Figure 5.11 Number of Fatal Drug/Poison Overdoses by Class of Drug/Poison/Metabolite Detected that Caused or Contributed to Death, 2022	175
Table 5.7 Number of Fatal Drug/Poison Deaths by Drug/Poison/Metabolites Detected that Caused or Contributed to Death, 2022.....	175
Table 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Residence, 2022 ..	180
Map 5.1 Number of Fatal Drug/Poison Overdoses by Locality of Residence, 2022.....	182
Map 5.2 Rates of Fatal Drug/Poison Overdoses by Locality of Residence, 2022	183
Table 5.9 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Injury, 2022	184
Map 5.3 Number of Fatal Drug/Poison Overdoses by Locality of Injury, 2022	186
Map 5.4 Rates of Fatal Drug/Poison Overdoses by Locality of Injury, 2022	187
PRESCRIPTION OPIOIDS EXCLUDING FENTANYL (N=340).....	188
Figure 5.12 Number of All Fatal Drug Overdoses Compared to All Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Year of Death, 2007-2022	188
Figure 5.13 Number of Prescription Opioids (Excluding Fentanyl) Causing or Contributing to Death in Fatal Drug/Poison Overdoses, 2022	189
Figure 5.14 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Manner of Death, 2022.....	189
Table 5.10 Number of Prescription Opioids (Excluding Fentanyl) Detected in Fatal Drug Overdoses by OCME District, 2022	190
Figure 5.15 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Age Group and Gender, 2022	190
Figure 5.16 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity, 2022	191
Figure 5.17 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity and Gender, 2022	191
Table 5.11 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2022	192

Map 5.5 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2022	194
Map 5.6 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2022	195
Table 5.12 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2022.....	196
Map 5.7 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2022	198
Map 5.8 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2022	199
FENTANYL AND/OR HEROIN DEATHS (N=1,995)	200
Figure 5.18 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Year of Death, 2007-2022	200
Figure 5.19 Number of Fatal Fentanyl Analog Overdoses Quarter, 2014-2022.....	201
Table 5.13 Number of Fatal Fentanyl and/or Heroin Overdoses by OCME District, 2022	202
Figure 5.20 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Manner of Death, 2022	202
Figure 5.21 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Age Group and Gender, 2022	203
Figure 5.22 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity, 2022..	203
Figure 5.23 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity and Gender, 2022	204
Table 5.14 Number and Percentage of Fatal Fentanyl and/or Heroin Overdoses by Whether Alcohol Caused Death, 2022.....	204
Table 5.15 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2022	205
Map 5.9 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2022 .	207
Map 5.10 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Residence, 2022	208
Table 5.16 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2022	209
Map 5.11 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2022	211
Map 5.12 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Injury, 2022	212
ALL OPIOID DEATHS (N=2,143)	213

Figure 5.24 Number and Rate of All Fatal Opioid Overdoses Year of Death, 2007-2022	213
Table 5.17 Number of All Fatal Opioid Overdoses by Combination and OCME District, 2022 ..	214
Figure 5.25 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2022.....	214
Figure 5.26 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2022.....	215
Figure 5.27 Number and Rate of All Fatal Opioid Overdoses by Age Group and Gender, 2022	215
Figure 5.28 Percentage of All Fatal Opioid Overdoses by Race/Ethnicity, 2022	216
Figure 5.29 Number and Rate of All Fatal Opioid Overdoses by Race/Ethnicity and Gender, 2022	216
Figure 5.30 Number of Opioids Causing or Contributing to Fatal Opioid Overdoses, 2022	217
Table 5.18 Number and Percentage of All Fatal Opioid Overdoses by Whether Alcohol Caused Death, 2022.....	217
Table 5.19 Number of All Fatal Opioid Overdoses by Locality of Residence, 2022.....	218
Map 5.13 Number of All Fatal Opioid Overdoses by Locality of Residence, 2022	220
Map 5.14 Rates of All Fatal Opioid Overdoses by Locality of Residence, 2022.....	221
Table 5.20 Number and Rate of All Fatal Opioid Overdoses by Locality of Injury, 2022	222
Map 5.15 Number of All Fatal Opioid Overdoses by Locality of Injury, 2022	224
Map 5.16 Rates of All Fatal Opioid Overdoses by Locality of Injury, 2022.....	225
SECTION 6: GUN-RELATED DEATHS (N=1,328)	226
Figure 6.1 Number and Rate of Gun-Related Deaths by Year of Death, 2007-2022.....	226
Figure 6.2 Number of Gun-Related Deaths by Year and Manner of Death, 2007-2022	227
.....	227
Figure 6.3 Percentage of Gun-Related Deaths by Manner of Death, 2022.....	227
Table 6.1 Number and Rate of Gun-Related Deaths by OCME District and Manner of Death, 2022	228
Table 6.2 Number of Gun-Related Deaths by Gun Type and Manner of Death, 2022.....	228
Figure 6.4 Percentage of Gun-Related Deaths by Gender, 2022	229
Figure 6.5 Number and Rate of Gun-Related Deaths by Age Group and Gender, 2022	229
Figure 6.6 Percentage of Gun-Related Deaths by Race/Ethnicity, 2022	230
Figure 6.7 Number and Rate of Gun-Related Deaths by Race/Ethnicity and Gender, 2022.....	230
Figure 6.8 Percentage of Gun-Related Deaths by Ethanol Level (N=768), 2022	231

Figure 6.9 Number of Gun-Related Deaths by Alcohol Level and Manner of Death (N=768), 2022	231
Figure 6.10 Number of Gun-Related Deaths by Month of Death, 2022.....	232
Figure 6.11 Number of Gun-Related Deaths by Day of Week, 2022	232
Table 6.3 Number and Rate of Gun-Related Deaths by Locality of Residence, 2022.....	233
Map 6.1 Number of Gun-Related Deaths by Locality of Residence, 2022	235
Map 6.2 Rates of Gun-Related Death by Locality of Residence, 2022	236
Table 6.4 Number and Rate of Gun-Related Deaths by Locality of Injury, 2022.....	237
Map 6.3 Number of Gun-Related Deaths by Locality of Injury, 2022	239
Map 6.4 Rate of Gun-Related Deaths by Locality of Injury, 2022	240
SECTION 7: IN-CUSTODY (PRISONER) DEATHS (N=215)	241
Figure 7.1 Number of In-Custody Deaths by Manner and Year of Death, 2007-2022	241
Figure 7.2 Percentage of In-Custody Deaths by Manner of Death, 2022.....	242
Figure 7.3 Percentage of In-Custody Deaths by Race/Ethnicity, 2022	242
Figure 7.4 Number of In-Custody Deaths by Age Group and Gender, 2022	243
Figure 7.5 Number of In-Custody Deaths by Manner and Race/Ethnicity, 2022	244
Table 7.1 Number of In-Custody Deaths by Cause and Method of Death, 2022	245
SECTION 8: STATE MENTAL HEALTH DEATHS (N=41)	247
Figure 8.1 Percentage of State Mental Health Deaths by Manner, 2022	247
Figure 8.2 Percentage of State Mental Health Deaths by Gender, 2022	248
Figure 8.3 Number of State Mental Health Deaths by Age Group and Gender, 2022	248
Figure 8.4 Percentage of State Mental Health Deaths Race/Ethnicity, 2022.....	249
Table 8.1 Number of State Mental Health Deaths by Cause and Method of Death, 2022	250
SECTION 9: RETROSPECTIVE CASES (N=63)	251
Figure 9.1 Percentage of Retrospective Deaths by Manner of Death, 2022.....	251
Table 9.1 Number and Percentage of Retrospective Deaths by OCME District, 2022	252
Figure 9.2 Percentage of Retrospective Deaths by Race/Ethnicity, 2022	252
Figure 9.3 Number of Retrospective Deaths by Age Group and Gender, 2022	253
Table 9.2 Number of Retrospective Deaths by Cause and Method of Death, 2022	254
GLOSSARY.....	256

Introduction

This report represents the deaths investigated by the Virginia Department of Health, Office of the Chief Medical Examiner in 2022.

Data Collection and Preparation

The data in this report reflect deaths accepted by the Office of the Chief Medical Examiner (OCME) pursuant to §32.1-283 of the Code of Virginia for the 2022 calendar year. These deaths are both Virginia residents and non-residents whose deaths generally occurred within the borders of the Commonwealth of Virginia. The Virginia OCME classifies these deaths by its own coding schema, which differs from mortality data published by other OCME surveillance groups, law enforcement agencies, the Virginia Center for Health Statistics, and the Centers for Disease Control and Prevention (CDC). Any discrepancies between data presented by the OCME and other nosology groups are the result of data collection and analytic variations among these groups.

Statistical Summary

- Data is based upon both Virginia residents and non-Virginia residents, whose deaths have come under the jurisdiction of the Virginia Office of the Chief Medical Examiner
- Rates
 - Rates are per 100,000 persons of the specific Virginia population being described
 - Crude rates are used for all deaths occurring in Virginia, regardless of residential status
 - Rates calculated from small case counts (<5) are considered unreliable and should be interpreted with caution
 - **Population estimates for rate calculations from 2021-2022 use Single-Race Population Estimates from the US Census. Past reports used Bridged Population estimates from the National Center for Health Statistics; however, these estimates were discontinued in 2020.**
- Race/Ethnicity (based on information provided from next of kin on decedent's death certificate)
 - Asian, Black, Native American, and White races represent those who have been identified as non-Hispanic ethnicity
 - 'Hispanic' are persons identified as White race with Hispanic ethnicity

- 'Other' race are persons that are identified as more than one race or Black, Asian, or Native American race with Hispanic ethnicity
- Toxicology
 - Results are based on blood specimens and vitreous fluid

OVERVIEW – OFFICE OF THE CHIEF MEDICAL EXAMINER

The General Assembly of Virginia abolished the Office of Coroner's Physician in 1946 and appointed a Chief Medical Examiner. Four years later, the Office of the Chief Medical Examiner (OCME) became an office within the Virginia Department of Health. The OCME is comprised of four district offices, each accredited by the National Association of Medical Examiners, to serve the citizens of the Commonwealth.

Jurisdictional Authority

Pursuant to § 32.1-283 of the Code of Virginia, the following deaths are investigated by the OCME:

- Any death from trauma, injury, violence, or poisoning attributable to accident, suicide or homicide
- Sudden deaths of persons in apparent good health and deaths unattended by a physician
- Deaths of persons in jail, prison, or other correctional institutions, as well as deaths in police custody. This includes deaths during legal intervention such as a death following a police pursuit
- Deaths of patients/residents of state mental health facilities
- Sudden death of any infant less than eighteen months of age whose death might be attributable to Sudden Infant Death Syndrome
- Any other suspicious, unusual, or unnatural death

The OCME receives death reports in each of the four offices, takes custody of deaths that fall under OCME jurisdiction as outlined by the Code of Virginia, and conducts medicolegal death investigations into those fatalities. In Virginia, this is performed by a statewide medical examiner system comprised of a chief medical examiner, several assistant chief medical examiners, and medicolegal death investigators in four district offices, as well as local medical examiners in communities across the state. Medicolegal death investigators receive initial notification of death and determine, under the supervision and review of assistant chief medical examiners, if the death is under the jurisdiction of the OCME. After determining that a death is under OCME jurisdiction, medicolegal death investigators and/or local medical examiners may attend the death scene to document and review circumstances surrounding death. In 2022, approximately 124 local medical examiners worked with the OCME to examine decedents, collect toxicology samples, and sign certificates of death. Using professionally established guidelines, and under the direction of assistance chief medical examiners certain

cases were determined to require a medicolegal autopsy, which includes both an internal and external examination.

When an autopsy is required, it is conducted at one of four district offices: Central, Northern, Tidewater, or Western. Each OCME district is staffed by assistant chief medical examiners who are board certified forensic pathologists (American Board of Pathology), board certified medicolegal death investigators (American Board of Medicolegal Death Investigators), administrative, and morgue personnel. The Chief Medical Examiner is responsible for the overall operations of Virginia's medical examiner system.

The Virginia OCME is a model medical examiner system with two separate mission elements that form the core of OCME staff members' efforts.

Medicolegal Mission

- Conduct medicolegal death investigations
- Perform examinations to certify cause and manner of death and recover evidence
- Testify in court proceedings
- Educate peers and professionals on subjects related to death investigation

Public Health Mission

- Reduce violent death by conducting surveillance and fatality reviews
- Provide support and technical assistance to local fatality review teams
- Identify index cases and pathogens in disease outbreaks in the interest of public health
- Cooperate with organ procurement organizations to save and enhance lives through organ and tissue donation and transplantation
- Administer the Virginia State Anatomical Program to provide cadavers for medical education

Virginia's local medical examiners and assistant chief medical examiners are committed to public safety and public health. To promote public safety, they testify to their findings in criminal and civil courts throughout the Commonwealth. They advance public health through their investigations of deaths that present a hazard to Virginia's citizens, such as emerging infections and bioterrorism.

Virginia Demographics in 2022

In 2022, the estimated population of the Commonwealth was 8,683,619 persons. The average age of Virginia residents was 38.5 years and females represented 50.5% of the population. Whites constituted 59.8% of the population, Blacks 19.2%, Hispanics 10.5%, Asians 7.3%, Native Americans 0.3%, and 3.0% of two or more races.

Division of Death Prevention, Fatality Review and Surveillance Programs

In addition to conducting medicolegal death investigations to identify the cause and manner of death, the OCME oversees several public health surveillance projects and fatality review team initiatives. Surveillance projects include the Virginia Violent Death Reporting System (VVDRS), the Overdose Data to Action (OD2A) grant, the Sudden Death in the Young Case Registry (SDY), Enhancing Reviews and Surveillance to Eliminate Maternal Mortality (ERASE MM), and the Pregnancy-Associated Mortality Surveillance System (PAMSS). Fatality review is performed on child and maternal deaths at the state level and at the local and regional level on adult, child, overdose, and domestic violence related deaths.

Surveillance projects and fatality review teams examine various types of preventable deaths to provide a better understanding of factors contributing to the death so that legislators, policy makers, and other stakeholders can make informed decisions for injury and violence prevention. Fatality review and surveillance is retrospective examination, with most programs being approximately 1-3 years behind the current year. The data collection and review process require a “deep dive” into a decedent’s medical, mental, social, educational, and criminal background, which takes time, as records must be requested, collected, collated, reviewed, and summarized.

Virginia Violent Death Reporting System (VVDRS) was implemented in 2003 as part of the National Violent Death Reporting System (NVDRS). Virginia was among the first six states and the first statewide medical examiner system to be funded for this project, which is now operating in all 50 states and two territories.

The VVDRS collects information about deaths of Virginians who die in Virginia due to violence (suicide, homicide, legal intervention, unintentional firearm discharge, deaths of an undetermined manner, and deaths due to terrorism) and correlates victim information with the circumstances surrounding the death. Data from several

sources, among them forensic pathology, forensic science, law enforcement, vital records, and health statistics, are linked to provide a comprehensive picture of violent death in the Commonwealth of Virginia.

The Overdose Data to Action (OD2A) grant was implemented in 2019, at the end of the Enhanced State Opioid Overdose Surveillance Project (ESOOS, 2017-2019) and is a collaborative effort between multiple offices throughout the Virginia Department of Health, including The Office of Family Health Services, Office of Emergency Preparedness, Office of the Chief Medical Examiner, Office of Epidemiology, the Office of Emergency Medical Services, and other local and state partners. The multi-arm project strives to collect and understand fatal and non-fatal accidental overdose events and then use that data to inform policy and programs to prevent such events. Data is collected using the aforementioned NVDRS and other surveillance systems. The Department of Forensic Science also receives funding as part of this award to implement quantification programs to quantify opioid derivatives for use in toxicology testing and monitoring.

The OCME's arm, the State Unintentional Drug Overdose Reporting System (SUDORS), goal is to prevent accidental death through the collection of surveillance data to create public health strategies to address opioid addiction. SUDORS captures information on accidental and undetermined overdose deaths in Virginia. While much of this data is also collected through the VVDRS, the SUDORS collects additional information such as descriptions of paraphernalia found at the scene, prescription monitoring reports, naloxone administration, and any history of substance abuse, treatment, or relapse.

Domestic Violence Fatality Review was established in 1999 when the General Assembly enacted §32.1-283.3 of the Code of Virginia. This statute provides for the establishment of local and regional domestic violence fatality review teams and directs the OCME to provide technical assistance and support to these teams.

Domestic violence fatality review has gained prominence and momentum in the last decade, both here in Virginia and across the United States. The purpose of domestic violence fatality review is to prevent future deaths by carefully examining the events that led to a fatality; by analyzing system responses to those deaths; and by improving a community's coordinated response to domestic violence. Multidisciplinary teams are formed at the local or regional level. Membership in these teams varies among localities, but generally includes

representatives from law enforcement, Commonwealth Attorneys, social services, courts, probation and parole, domestic violence programs, mental health, and healthcare.

State Child Fatality Review Team was established in 1995 by the Virginia General Assembly and the Governor of Virginia. Working in the spirit of public health, the multidisciplinary team conducts retrospective reviews of the circumstances surrounding violent and unexpected child death and develops consensus recommendations for intervention and prevention of future child deaths. The team reviews child deaths in a topical manner. By reviewing cases based on a specific type of death, the team is able to determine risk and protective factors associated with that type of injury and to develop targeted recommendations for intervention and prevention. Team members include representatives from pediatrics, emergency medicine, child psychiatry, law enforcement, mental health, social services, forensic pathology, Commonwealth Attorneys, local fire and emergency medical services providers, injury prevention groups, child advocacy organizations, and other state agencies.

Over the years, the team has identified common trends observed in child deaths, including the presence of family violence and economic instability as risk factors for homicide of young children, the importance of adult supervision in preventing unintentional injury death, the need for policy and education to prevent child drownings, and the prevalence of family substance abuse and mental health problems in cases of sleep-related infant deaths and deaths due to poisoning. Through its many reviews, the Virginia State Child Fatality Review Team has discerned that child death in Virginia is patterned and largely preventable.

Infant and Child Mortality Surveillance was created in 2015. The team implemented the Infant and Child Mortality Surveillance System, for those aged 0-17 years in an effort to guide and better inform discussions, planning and legislative action that effects the health and well-being of children and families in the Commonwealth. This project seeks to provide reports detailing the circumstances and characteristics of both infant and child deaths occurring in Virginia. In 2023, a new database was implemented in partnership with the National Child Fatality Data Coordinating Center. This new database builds on the work of the Sudden Death in the Young Case Registry and allows for the collection of data on all child deaths that fall under the jurisdiction of the Office of the Chief Medical Examiner's Office. This new database will streamline the data collection

process, as well as create a comprehensive data system that is congruent with other work being done by the division.

Child fatality review is supported by the Virginia Department of Health, Office of Family Health Services with Title V funds from the U.S. Department of Health and Human Services, Maternal and Child Health Bureau and the Sudden Death in the Young Project with funds granted by the Centers for Disease Control and Prevention.

Regional Child Fatality Review Teams were established in all five Virginia Department of Social Services (DSS) regions in the Commonwealth. These teams review all child deaths investigated by a local department of social services for suspicions of abuse or neglect and that fall within the parameters set forth by Virginia's Children's Ombudsman. The OCME provides training and technical assistance to these teams, as requested, assisting them with the theory and practice of effective child fatality review, developing guidance documents, and providing trainings for team members, coordinators, and recorders.

Virginia's Pregnancy-Associated Mortality Surveillance System (PAMSS) and Maternal Mortality Review Team (MMRT) are housed in the OCME. Surveillance of all deaths of women occurring during pregnancy or within one year of pregnancy (termed "pregnancy-associated death") is conducted to provide up-to-date information on patterns and trends. Data from PAMSS includes not only surveillance data, but also data collected from the MMRT process. Current PAMSS data indicates pregnancy-associated maternal death in Virginia remains a significant public health problem. The ERASE MM support agencies and organization that coordinate and manage Maternal Mortality Review Teams to identify, review, and characterize pregnancy related deaths and identify prevention opportunities.

Rising maternal mortality rates throughout the United States have led to renewed interest in expanding state-based review teams. Virginia's Maternal Mortality Review Team is one of the longest continuously functioning multidisciplinary review teams in the US. The team was established in March 2002 as a partnership between the Office of Family Health Services and the OCME. The team was codified during the 2019 General Assembly session via House Bill 2546 effective July 1, 2019, with the OCME continuing to provide coordination for the team. The Maternal Mortality Review Team reviews all cases of pregnancy-associated death, regardless of the cause or manner of death or outcome of the pregnancy. Systematic, retrospective review of these deaths is

performed to understanding the circumstances surrounding the death so that recommendations and interventions can be made to prevent future deaths.

The team is multidisciplinary and includes representatives from: Medical Society of Virginia; Virginia Section of the American College of Obstetricians and Gynecologists; Virginia College of Emergency Physicians; Virginia Chapter of the American College of Nurse Midwives; Association of Women's Health, Obstetrics and Neonatal Nurses; Virginia Chapter of the National Association of Social Workers; Virginia Hospital and Healthcare Association; Virginia Sexual and Domestic Violence Action Alliance; Virginia Dietetic Association; local health departments; and state planning agencies. Maternal mortality review is supported by the Virginia Department of Health, Office of Family Health Services with Title V funds from the U.S. Department of Health and Human Services, Maternal and Child Health Bureau.

Virginia's Sudden Death in the Young (SDY) Project began in January 2015 in four communities served by the Tidewater OCME: the cities of Hampton, Newport News, Norfolk, and Virginia Beach. In 2018, three additional cities and three counties were added to the project. Those additions include the cities of Chesapeake, Suffolk, and Portsmouth and the counties of Accomack, Northampton, and York. In 2023, the program expanded to include the Western Tidewater Region and parts of the Central Region. Using techniques from surveillance and fatality review, this project involves intensive data collection and multidisciplinary review of all deaths involving infants, children, and youth up to 19 years of age for which the cause of death was undetermined or not fully understood. Understanding the precise etiology of these deaths and defining who is at-risk is a necessary first step to designing interventions and preventions to reduce these deaths. Virginia is one of 10 states participating in this national project.

The SDY project involves an intensive death investigation of each case. This requires the collection and review of extensive records for the child and family including past medical histories, social service histories, school records for the child where applicable, criminal histories and other relevant records for the case. The information gathered from the death investigation is used by both a multidisciplinary child fatality review team and a clinical review team. The current project will pilot the development of a centralized SDY Child Fatality Review Team, aimed at identifying the socioeconomic, systematic, and other related factors that may have contributed to the death of a child. Their role will be to assess family protective and risk factors for each death,

to evaluate the quality of agencies response, and to identify prevention strategies. The clinical review team is made up of a pediatric neurologist, geneticist, maternal fetal medicine specialist, pediatrician, cardiologist, a social worker, OB/GYN, and a forensic pathologist. Their role is to identify undiagnosed medical risk factors that may have contributed to the child's death. The critical purpose of these investigations and reviews is to determine if causes of death can be further clarified, refined, and described, and then ultimately lead to the prevention of these premature deaths.

An optional component of the project allows consenting families to participate in a study of these deaths through an SDY Case Registry, which is being conducted by the CDC, the National Heart, Lung, and Blood Institute (NHLBI), and the National Institute of Neurological Disorders and Stroke (NINDS) at the National Institutes of Health. Consent includes the storage of bio-specimens for DNA banking and testing in the event that medical insights or breakthroughs in the future promise additional information about the child's death.

Adult Fatality Review was established for Virginia localities effective July 1, 2015. Currently, there are two local and regional teams (Richmond Metro and Northern Virginia) established in the Commonwealth. Similar to child and domestic violence death review efforts, local communities may now convene such teams to examine deaths of any persons 60 years of age or older or any vulnerable or incapacitated adult 18 years of age or older, under three different scenarios: (1) persons who were the subject of an adult protective services or law enforcement investigation; (2) adults whose death was due to abuse, neglect, or exploitation or acts suggesting abuse, neglect, or exploitation; and (3) persons whose death was investigated by the Office of the Chief Medical Examiner as suspicious, unusual, or unnatural. The goal of this process is to identify at risk populations in their communities, opportunities for improved response to adult abuse and neglect, and best practices for preventing further abuse and violence. Currently there is no funding for a State Adult Fatality Review Team and efforts to solicit grant funds have not been successful or funds have not been available for this work. Currently, the Adult Fatality Review remains an unfunded mandate.

Local and Regional Overdose Fatality Review was established for Virginia localities effective July 1, 2018. Currently, there are no formal teams, but interest is growing. Similar to child, adult, and domestic violence death review efforts, local communities may now convene such teams to examine deaths of any persons who died of an overdose related death. Localities may establish a team under this statute (Code of Virginia §32.1-

283.7) for the purpose of: (1) conducting contemporaneous reviews of local overdose deaths, (2) promoting cooperation and coordination among agencies involved in investigations of overdose deaths or in providing services to surviving family members, (3) developing an understanding of the causes and incidence of overdose deaths in the locality, (4) developing plans for and recommending changes within the agencies represented on the local team to prevent overdose deaths, and (5) advising the Department and other relevant state agencies on changes to law, policy, or practice to prevent overdose deaths. The goal of this process is to identify at risk populations in their communities, opportunities for improved response to overdoses, and best practices for preventing further overdose related deaths.

In Virginia, information learned from fatality review efforts supports the development of recommendations and information sharing with critical stakeholders to reduce injury and death. The Division of Death Prevention is dedicated to providing data and technical assistance to those in our community. Data can be requested from any of our projects, by reaching out to Division Director or the Project Manager for the particular program of interest. More information and who to contact can be found at: <https://www.vdh.virginia.gov/medical-examiner/division-of-death-prevention/>

Training and Education

Forensic Pathology Training Programs

Website — <http://www.vdh.virginia.gov/medical-examiner/forensic-pathology-training-programs/>

The Virginia Commonwealth University School of Medicine (VCU), in conjunction with the OCME, offers an Accreditation Council for Graduate Medical Education (ACGME) accredited fellowship in the subspecialty of forensic pathology. The forensic pathologists of the Central, Tidewater, and Western District offices are the core faculty of the Department of Legal Medicine at VCU, chaired by the Chief Medical Examiner. OCME office staff has full access to facilities at VCU and its medical, dental, pharmacy, hospital administration, nursing, and other health science schools. The Department of Legal Medicine Faculty also participate as attending physicians for the forensic pathology fellowship.

The forensic pathology training program is designed to provide training and experience to pathologists pursuing a career in forensics. It is the aim of the forensic pathology training program that, by the end of the fellowship year, the trainee can adequately manage medicolegal death investigations with self-assurance and technical competence. After the 12-month fellowship, the physician should have obtained enough experience to be eligible to take the American Board of Pathology examination in the subspecialty of Forensic Pathology. Upon completion, the trainee will be ready to accept a position in all types of Medical Examiner/Coroner systems. All district OCME offices are approved to host and train physicians for the fellowship. The fellowship will interview candidates for 2025-26 via the fellowship arm of the National Resident Matching Program.

The OCME offers forensic rotations to residents, medical students, and pathology assistant students. Medical students from VCU and the Eastern Virginia Medical School (EVMS) typically rotate for a 2–4 week elective to learn autopsy techniques and death certification. Pathology assistant students from EVMS rotate for 8 weeks to learn autopsy techniques and procedures at the Tidewater and Central Offices. The OCME also offers month long rotations for resident physicians from VCU, University of Virginia, Walter Reed Hospital, and National Institute of Health who desire exposure to forensic pathology as part of their anatomical pathology training. Residents from other in state or out of state programs may be accepted for training.

National Association of Medical Examiners Accreditation

The National Association of Medical Examiners (NAME) is the professional organization for physician medical examiners, medicolegal death investigators and death investigation system administrators who investigate deaths of public interest, either legal or public health, in the United States. NAME has developed an accreditation process to improve the quality of death investigation within medical examiner offices and systems. When an office is accredited by NAME, it is an endorsement that the office has provided an environment adequate for a medical examiner to practice his or her profession and that the office can adequately serve its jurisdiction. The accreditation process includes but is not limited to: inspection of facilities, review of facility and personnel safety, qualification of medical examiners, review of medicolegal procedures, and review of reports and records. One requirement within the reports and records section is an annual statistical report, which the Virginia OCME fulfills with this report. The following two tables provide data on the NAME required fields on 2022 death investigations:

	Central	Northern	Tidewater	Western	Total
TOTAL DEATHS STATEWIDE					
Total Deaths Reported to OCME	6705	4498	3603	5113	19919
OCME Cases by Examination Type					
Complete examinations (autopsy)	978	572	655	535	2740
External examination	1941	1530	1621	1601	6693
Partial examination	14	94	92	60	260
TOTAL CASES ACCEPTED BY THE OCME	2933	2196	2368	2196	9693
OCME Cases by Manner of Death					
Accident	1670	1058	1165	1212	5105
Homicide	211	81	246	115	653
Natural	646	660	612	559	2477
Suicide	330	339	282	260	1211
Undetermined	70	55	63	47	235
Undefined for Fetal Death*	6	3	0	3	12
TOTAL CASES ACCEPTED BY THE OCME	2933	2196	2368	2196	9693

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

	Central	Northern	Tidewater	Western	Total
Bodies transported by office	2933	2196	2368	2196	9693
Bodies transported to office	1893	1122	1165	1076	5256
Cases with toxicology (including retro cases)	1977	1465	1647	1139	6228
Exhumations	0	0	1	0	1
Eye donations on OCME cases	46	37	10	18	111
Hospital autopsies under OCME jurisdiction	0	0	0	0	0
Organ and tissue donations on OCME cases	57	66	5	12	140
Retrospective cases (cases handled separately)	4	15	17	27	63
Scene visits	298	265	355	134	1052
Unclaimed bodies	191	92	62	38	383
Unidentified bodies after examination (long term)	2	0	0	2	4

SECTION 1: TOTAL OCME CASES (N=9,693)

In 2022, 19,919 deaths were reported to the Office of the Chief Medical Examiner (OCME), which accounted for 24.2% of the estimated total deaths that occurred in Virginia. The OCME accepted 9,693 or 48.7% of these investigated deaths as either autopsies or external examinations (views). [NOTE: Retrospective cases are not included in the accepted total case count, but are examined separately in Section 9. While these deaths were investigated in 2022, they may not necessarily have occurred in 2022]. The caseload for 2022 represented a 0.9% increase compared to 2021. Of the deaths investigated by the OCME in 2022:

- Among manners of death, all categories but accidents increased in 2022 compared to 2021
- Black males continue to have disproportionate number of homicides compared to their portion within the general population
- White males continue to have the highest rate of suicide in the Commonwealth
- Males continue to represent a larger portion of OCME deaths than females (70.1% in 2022)
- The 55-64 year old age group had the greatest number of OCME deaths, representing 17.4% of OCME cases
- Fairfax County had the largest number of both residential deaths (n=558) and deaths by injury locality (n=619). Norton City had the highest rate of death by residential locality (277.1 per 100,000) and Petersburg the highest rate of death by injury locality (377.7 per 100,000)

Figure 1.1 Number and Rate of OCME Cases by Year of Death, 1999-2022

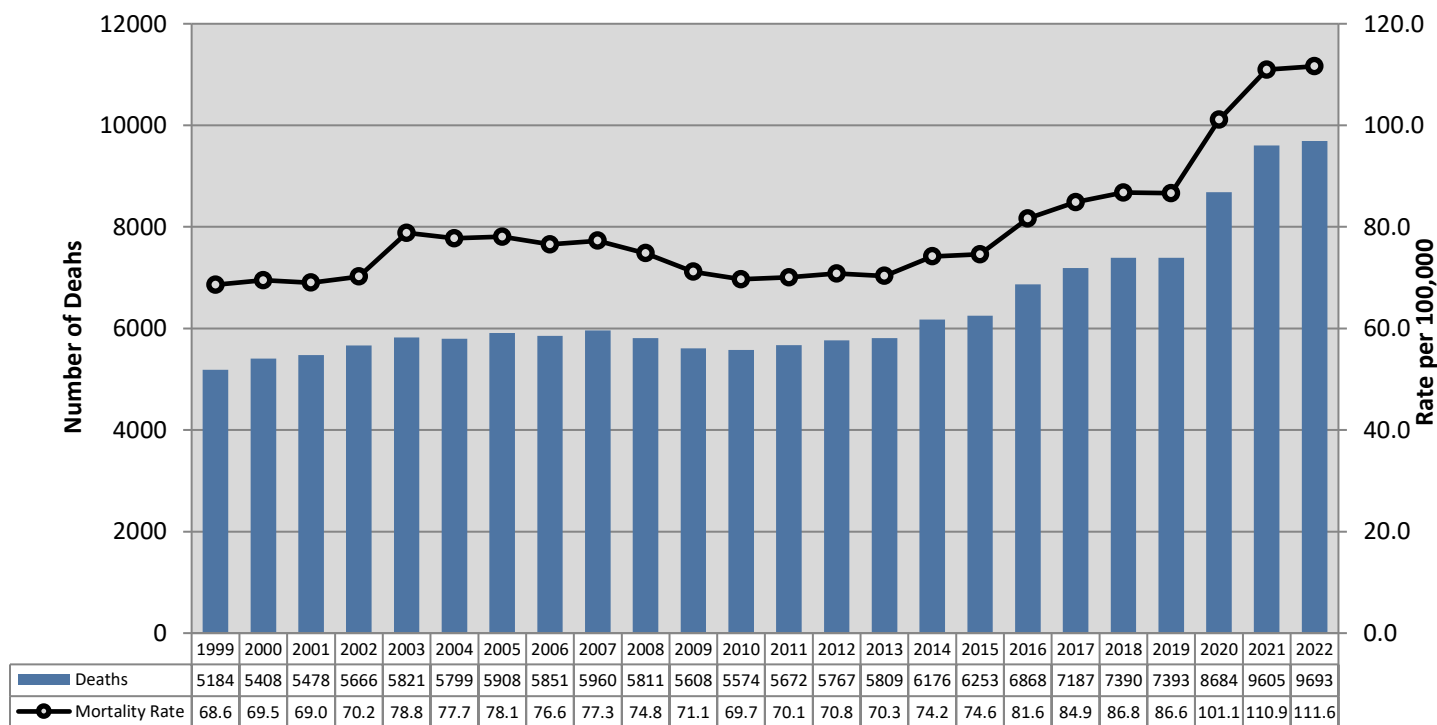
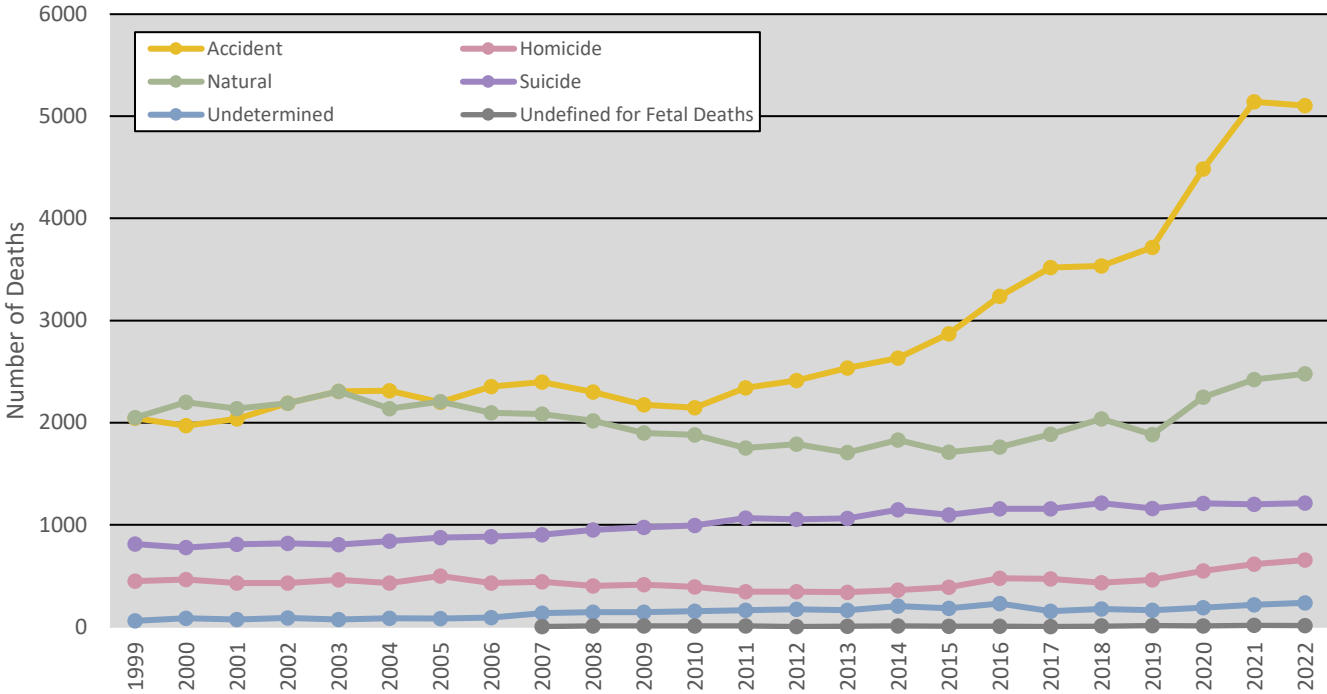
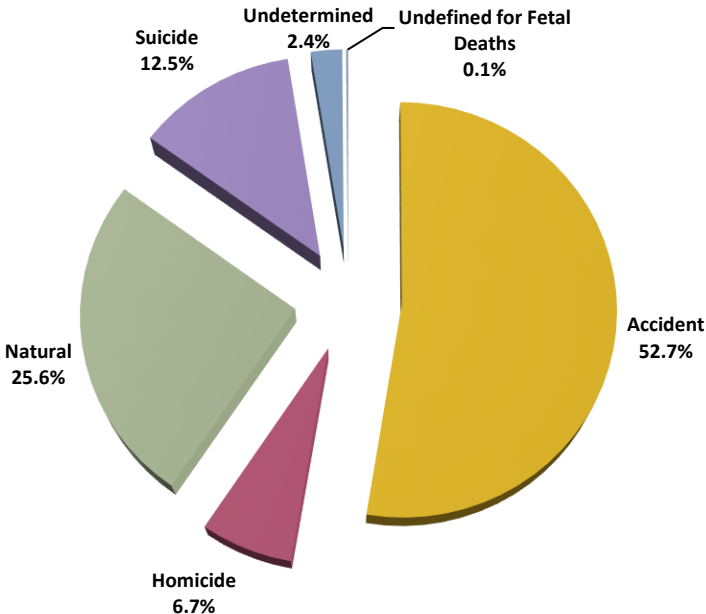


Figure 1.2 Number of OCME Cases by Manner of Death, 1999-2022



* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 1.3 Percentage of OCME Cases by Manner of Death, 2022



* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Table 1.1 Number of OCME Cases by District and Manner of Death, 2022

Manner	OCME District				Total
	Central	Northern	Tidewater	Western	
Accident	1670	1058	1165	1212	5105
Homicide	211	81	246	115	653
Natural	646	660	612	559	2477
Suicide	330	339	282	260	1211
Undetermined	70	55	63	47	235
Undefined for Fetal Deaths	6	3	0	3	12
TOTAL	2933	2196	2368	2196	9693

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Table 1.2 Number of OCME Cases by Autopsy Status and District, 2022

OCME District	Autopsy Performed		Total
	Yes	No	
Central	992	1941	2933
Northern	666	1530	2196
Tidewater	747	1621	2368
Western	595	1601	2196
TOTAL	3000	6693	9693

Table 1.3 Number of OCME Cases by Manner of Death and Autopsy Status, 2022

OCME District	Autopsy Performed			Total
	Yes	No	% Yes	
Accident	959	4146	18.8%	5105
Homicide	651	2	99.7%	653
Natural	448	2029	18.1%	2477
Suicide	699	512	57.7%	1211
Undetermined	231	4	98.3%	235
Undefined for Fetal Deaths	12	0	100.0%	12
TOTAL	3000	6693	31.0%	9693

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

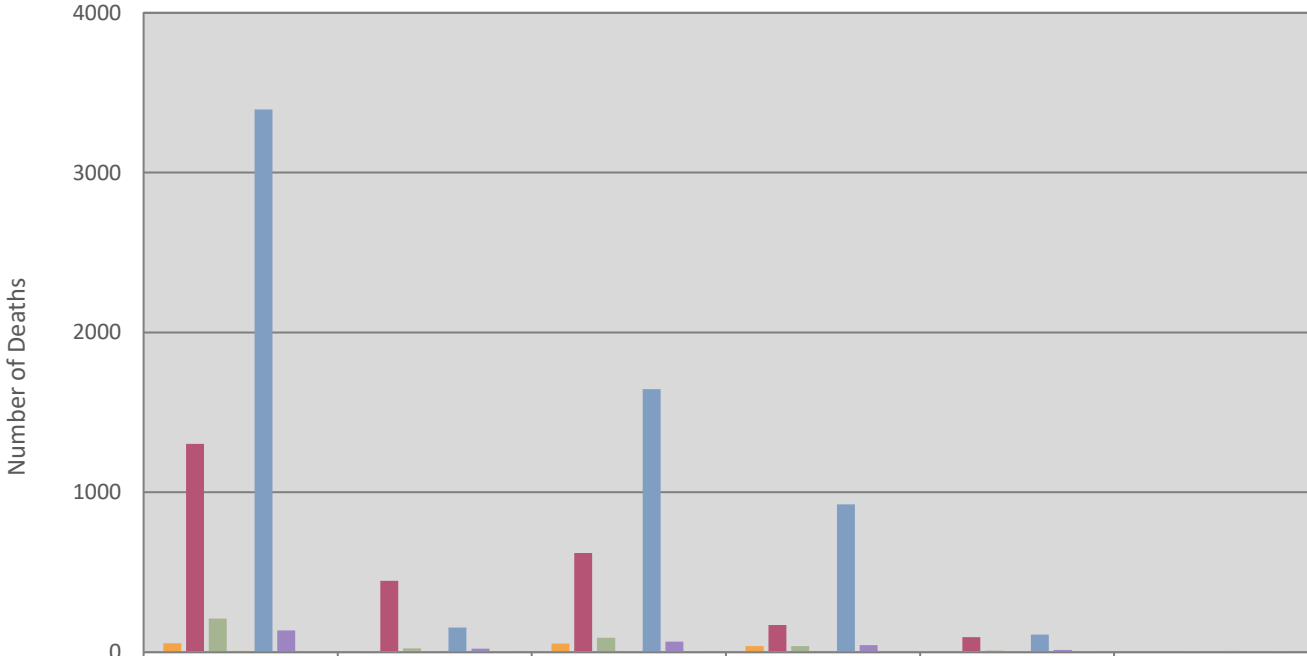
Table 1.4 Number of OCME Cases by Age Group and Autopsy Status, 2022

Age Group	Autopsy Performed			Total
	Yes	No	% Yes	
<1	139	0	100.0%	139
1-4	43	6	87.8%	49
5-9	13	13	50.0%	26
10-14	31	6	83.8%	37
15-19	191	91	67.7%	282
20-24	331	138	70.6%	469
25-34	727	635	53.4%	1362
35-44	473	1019	31.7%	1492
45-54	260	1049	19.9%	1309
55-64	298	1387	17.7%	1685
65-74	225	995	18.4%	1220
75-84	162	736	18.0%	898
85+	89	617	12.6%	706
Unknown	6	1	85.7%	7
Fetus	12	0	100.0%	12
TOTAL	3000	6693	31.0%	9693

Table 1.5 Number and Percentage of OCME Cases by Race/Ethnicity, 2022

Race/Ethnicity	Cases	Percent
Asian	152	1.6%
Black	2632	27.2%
Hispanic	373	3.8%
Native American	11	0.1%
White	6235	64.3%
Other	279	2.9%
Unknown	11	0.1%
TOTAL	9693	100.0%

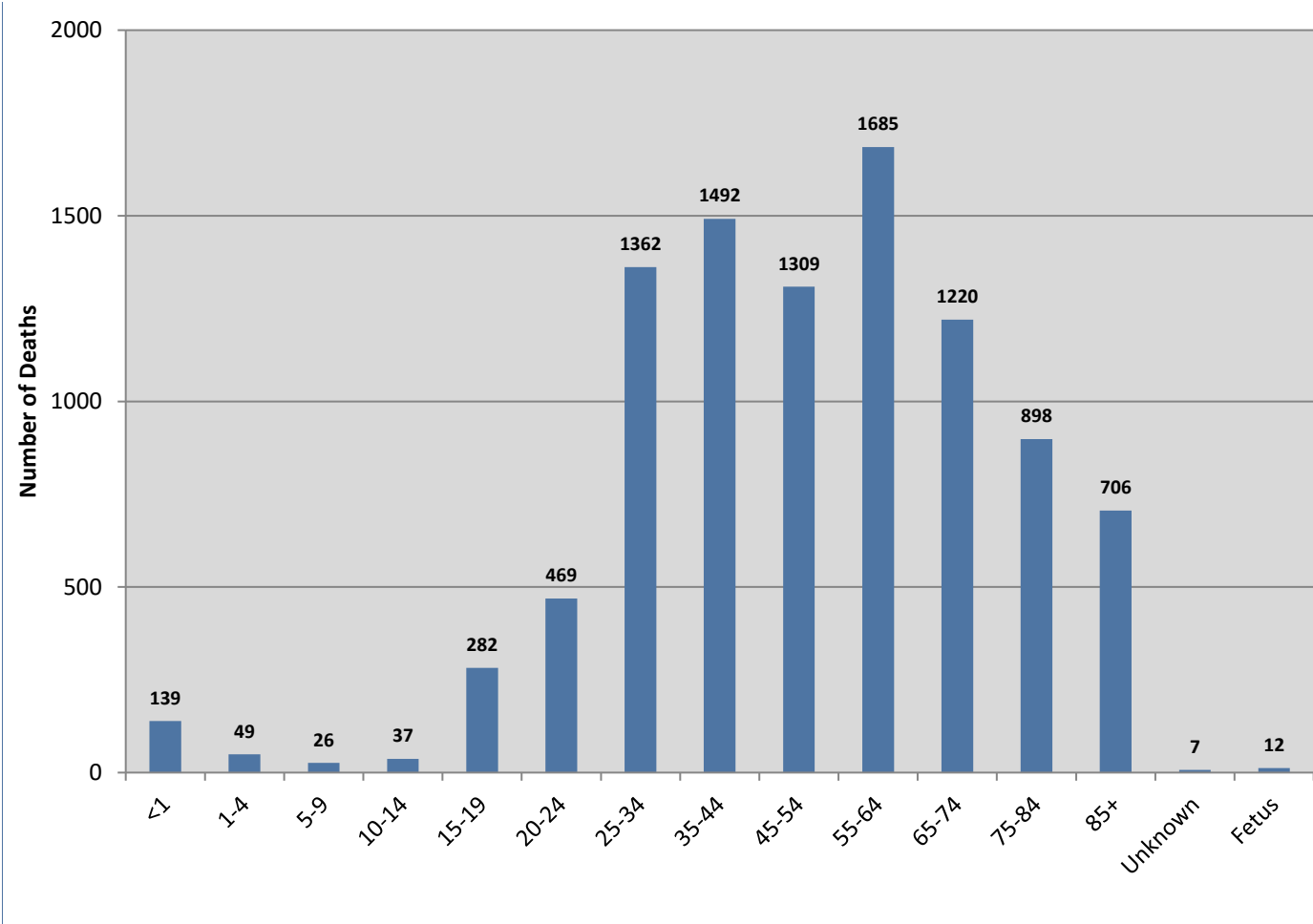
Figure 1.4 Number of OCME Cases by Manner of Death and Race/Ethnicity, 2022



	Accident	Homicide	Natural	Suicide	Undetermined	Undefined for Fetal Deaths
Asian	55	4	54	37	2	0
Black	1303	446	620	169	93	1
Hispanic	209	24	90	38	10	2
Native American	7	2	1	0	1	0
White	3395	154	1645	924	110	7
Other	135	22	66	43	13	0
Unknown	1	1	1	0	6	2

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 1.5 Number of OCME Cases by Age Group, 2022

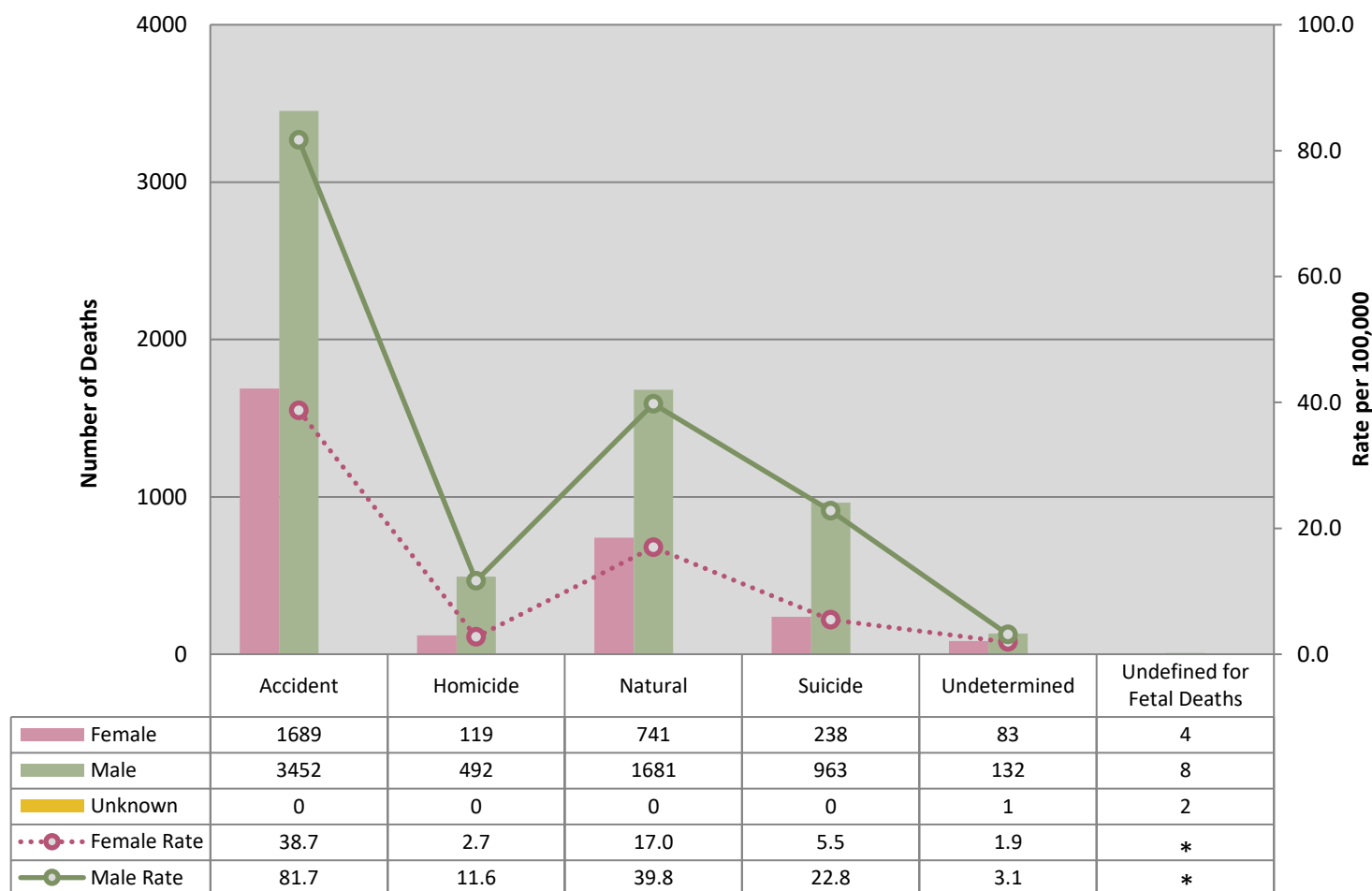


* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Table 1.6 Number and Percentage of OCME Cases by Manner of Death and Gender, 2022

Manner of Death	Female		Male		Unknown		Total	
	N	%	N	%	N	%	N	%
Accident	1641	16.9%	3464	35.7%	0	0.0%	5105	52.7%
Homicide	134	1.4%	519	5.4%	0	0.0%	653	6.7%
Natural	796	8.2%	1681	17.3%	0	0.0%	2477	25.6%
Suicide	242	2.5%	969	10.0%	0	0.0%	1211	12.5%
Undetermined	75	0.8%	155	1.6%	5	0.1%	235	2.4%
Undefined for Fetal Deaths	6	0.1%	2	0.0%	4	0.0%	12	0.1%
Total	2894	29.9%	6790	70.1%	9	0.1%	9693	100.0%

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 1.6 Number and Rate of OCME Cases by Manner of Death and Gender, 2022

* No denominator for which to calculate rate

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Table 1.7 Number of OCME Cases by Manner of Death, Gender, and Age Group, 2022

Gender	Age Group	Accident	Homicide	Natural	Suicide	Undetermined	Undefined for Fetal Deaths	Total
Female	<1	7	3	5	0	39	0	54
	1-4	8	7	1	0	7	0	23
	5-9	8	1	2	1	1	0	13
	10-14	5	3	2	2	1	0	13
	15-19	42	9	3	18	1	0	73
	20-24	57	13	9	16	1	0	96
	25-34	209	30	60	35	5	0	339
	35-44	240	34	77	37	4	0	392
	45-54	203	10	96	46	4	0	359
	55-64	204	11	166	44	4	0	429
	65-74	156	5	166	30	4	0	361
	75-84	199	5	128	11	2	0	345
	85+	303	3	81	2	2	0	391
	Unknown	0	0	0	0	0	0	0
	Fetus	0	0	0	0	0	6	6
Subtotal		1641	134	796	242	75	6	2894
Male	<1	10	4	5	0	66	0	85
	1-4	13	6	1	0	6	0	26
	5-9	8	1	2	0	2	0	13
	10-14	6	2	2	12	2	0	24
	15-19	81	66	7	49	6	0	209
	20-24	169	94	9	98	3	0	373
	25-34	596	148	91	176	12	0	1023
	35-44	642	96	184	157	21	0	1100
	45-54	533	44	237	126	10	0	950
	55-64	568	44	493	136	14	0	1255
	65-74	333	10	409	100	7	0	859
	75-84	293	4	177	78	1	0	553
	85+	210	0	64	37	4	0	315
	Unknown	2	0	0	0	1	0	3
	Fetus	0	0	0	0	0	2	2
Subtotal		3464	519	1681	969	155	2	6790
Unknown	55-64	0	0	0	0	1	0	1
	Unknown	0	0	0	0	4	0	4
	Fetus	0	0	0	0	0	4	4
	Subtotal	0	0	0	0	5	4	9
TOTAL		5105	653	2477	1211	235	12	9693

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 1.7 Number of OCME Cases by Month of Death, 2022

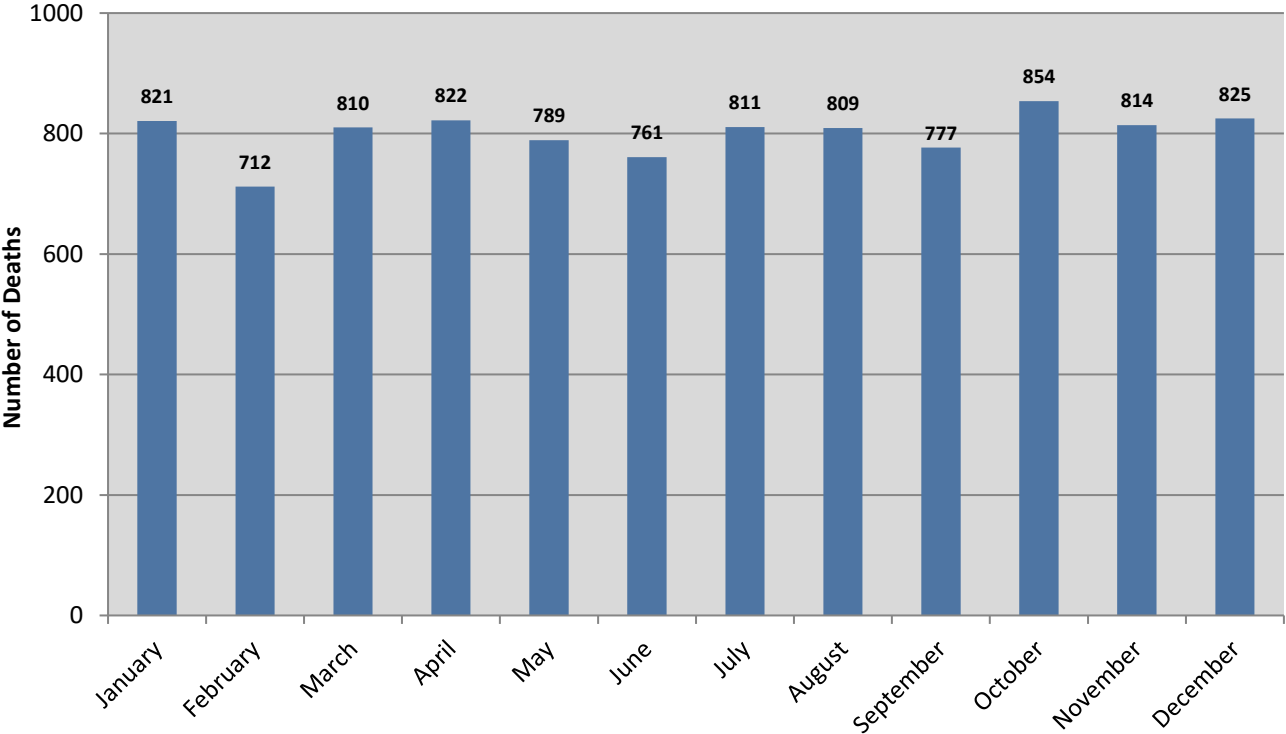
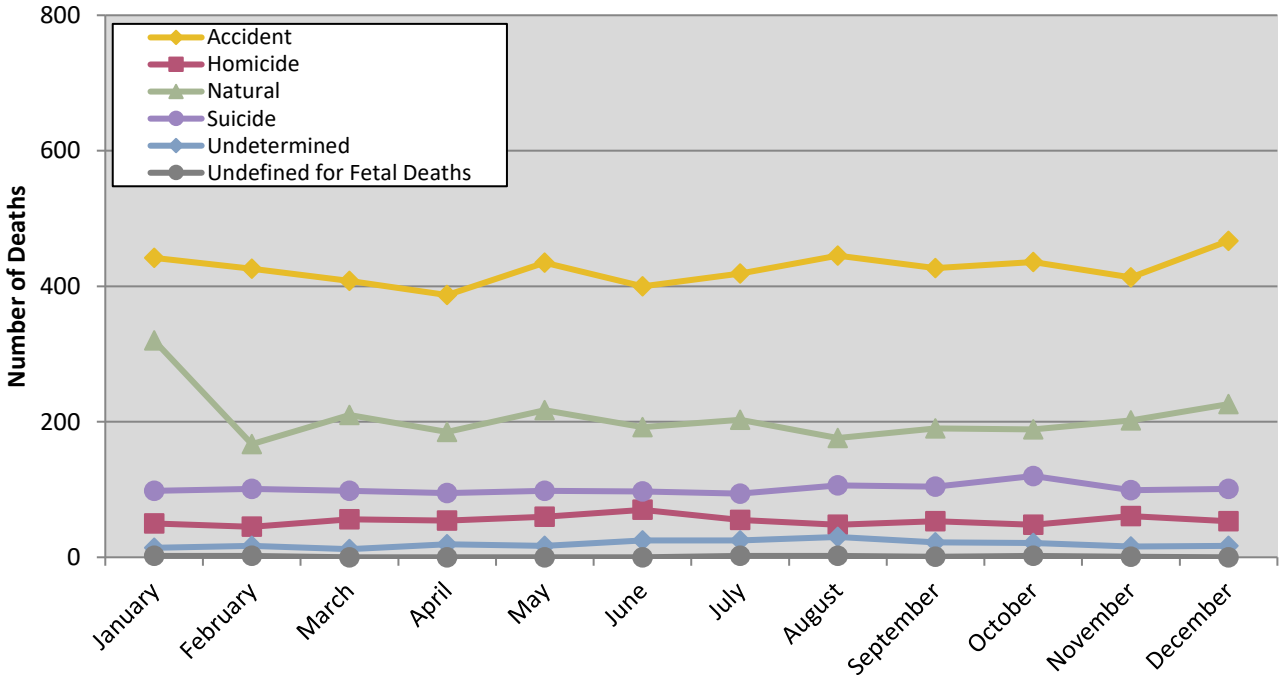


Figure 1.8 Number of OCME Cases by Month and Manner of Death, 2022



* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 1.9 Number of OCME Cases by Day of Death, 2022

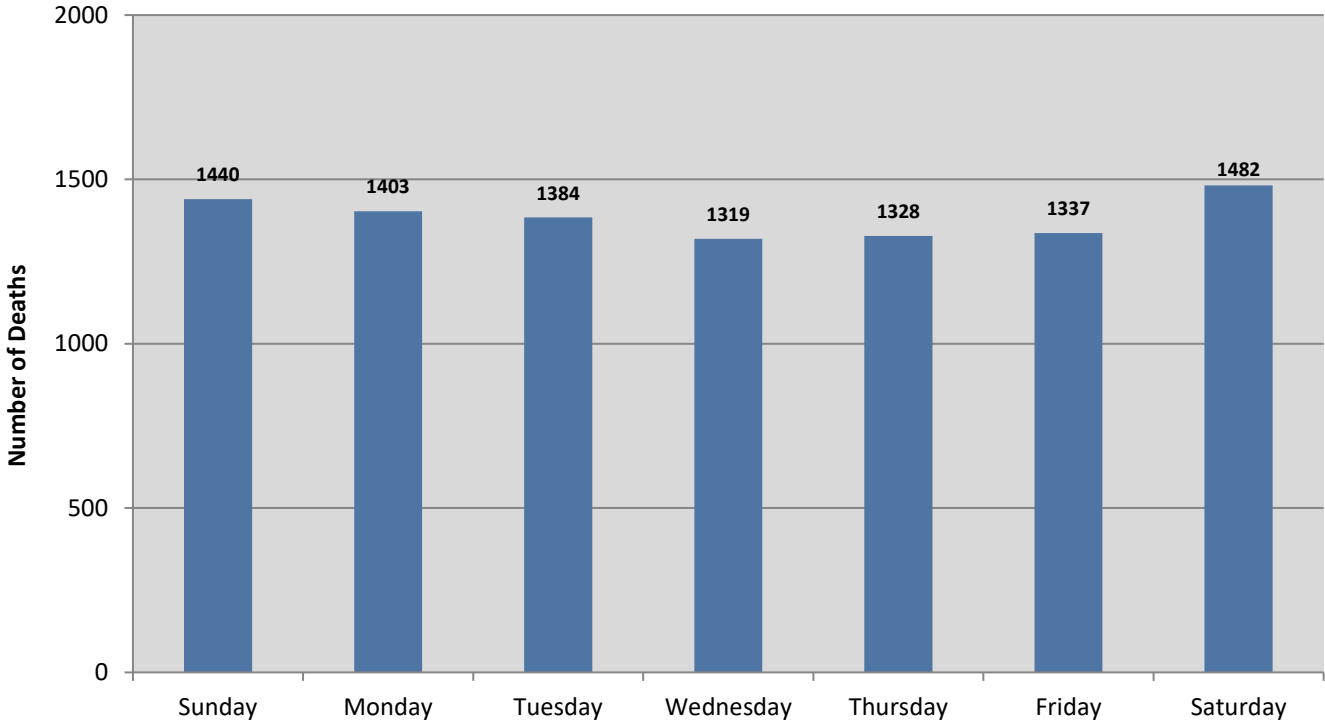
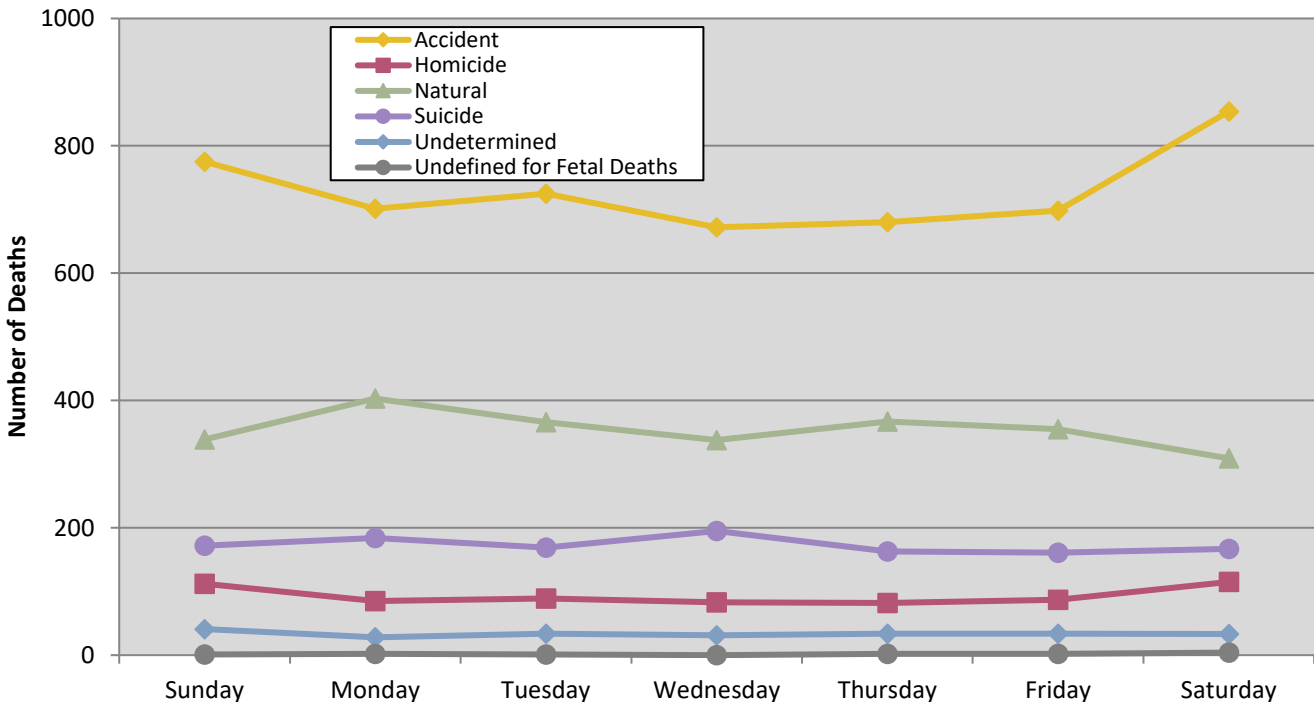


Figure 1.10 Number of OCME Cases by Day and Manner of Death, 2022



* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Table 1.8 Number and Rate of OCME Cases by Manner of Death and Locality of Residence, 2022

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Accomack County	13	39.2	5	15.1	19	57.2	7	21.1	1	3.0	45	135.6
Albemarle County	62	54.1	2	1.7	18	15.7	11	9.6	1	0.9	94	82.1
Alexandria City	40	25.7	7	4.5	32	20.6	10	6.4	2	1.3	91	58.5
Alleghany County	16	107.9	3	20.2	0	0.0	5	33.7	0	0.0	24	161.8
Amelia County	8	59.5	1	7.4	1	7.4	2	14.9	1	7.4	13	96.6
Amherst County	22	69.6	0	0.0	8	25.3	9	28.5	0	0.0	39	123.5
Appomattox County	13	77.6	2	11.9	4	23.9	2	11.9	0	0.0	21	125.4
Arlington County	42	17.9	1	0.4	52	22.2	15	6.4	3	1.3	113	48.3
Augusta County	33	42.3	4	5.1	15	19.2	17	21.8	3	3.8	72	92.2
Bath County	4	98.8	0	0.0	2	49.4	1	24.7	0	0.0	7	172.9
Bedford County	58	71.7	5	6.2	19	23.5	17	21.0	2	2.5	101	124.9
Bland County	6	97.6	0	0.0	2	32.5	0	0.0	1	16.3	9	146.4
Botetourt County	24	70.3	1	2.9	11	32.2	8	23.4	1	2.9	45	131.8
Bristol City	8	47.1	1	5.9	6	35.3	2	11.8	0	0.0	17	100.1
Brunswick County	21	131.9	4	25.1	5	31.4	3	18.8	1	6.3	34	213.6
Buchanan County	28	144.7	1	5.2	8	41.3	2	10.3	0	0.0	40	206.7
Buckingham County	20	117.8	0	0.0	6	35.3	3	17.7	1	5.9	30	176.7
Buena Vista City	6	91.0	1	15.2	6	91.0	1	15.2	0	0.0	14	212.4
Campbell County	40	72.5	3	5.4	21	38.1	9	16.3	0	0.0	73	132.4
Caroline County	20	62.6	1	3.1	9	28.2	6	18.8	2	6.3	38	118.9
Carroll County	19	65.2	1	3.4	18	61.8	6	20.6	2	6.9	46	157.8
Charles City County	6	90.8	0	0.0	2	30.3	0	0.0	0	0.0	8	121.1
Charlotte County	9	78.4	1	8.7	4	34.9	2	17.4	0	0.0	16	139.4
Charlottesville City	34	74.9	2	4.4	14	30.9	5	11.0	0	0.0	55	121.2
Chesapeake City	109	43.2	29	11.5	66	26.1	29	11.5	3	1.2	236	93.5
Chesterfield County	180	47.6	29	7.7	69	18.2	48	12.7	11	2.9	337	89.1
Clarke County	16	104.8	0	0.0	8	52.4	2	13.1	1	6.6	27	176.9
Colonial Heights City	10	54.7	1	5.5	11	60.1	0	0.0	0	0.0	23	125.7
Covington City	4	70.4	1	17.6	1	17.6	1	17.6	0	0.0	7	123.3
Craig County	4	82.5	0	0.0	2	41.3	0	0.0	0	0.0	6	123.8

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Culpeper County	35	64.4	3	5.5	21	38.6	12	22.1	0	0.0	71	130.6
Cumberland County	14	143.6	0	0.0	5	51.3	2	20.5	0	0.0	21	215.5
Danville City	35	82.9	12	28.4	14	33.2	5	11.8	2	4.7	68	161.0
Dickenson County	18	131.1	1	7.3	3	21.9	4	29.1	1	7.3	27	196.7
Dinwiddie County	16	56.8	9	32.0	11	39.1	5	17.8	0	0.0	41	145.6
Emporia City	1	18.2	3	54.7	3	54.7	0	0.0	0	0.0	7	127.7
Essex County	14	131.7	1	9.4	5	47.0	2	18.8	0	0.0	22	207.0
Fairfax City	2	8.1	1	4.0	8	32.2	1	4.0	0	0.0	12	48.3
Fairfax County	255	22.4	18	1.6	166	14.6	105	9.2	13	1.1	558	49.0
Falls Church City	0	0.0	0	0.0	1	6.9	2	13.7	0	0.0	3	20.6
Fauquier County	39	52.2	3	4.0	16	21.4	12	16.1	1	1.3	71	95.1
Floyd County	13	83.2	3	19.2	9	57.6	6	38.4	0	0.0	31	198.5
Fluvanna County	20	71.0	1	3.6	10	35.5	1	3.6	0	0.0	32	113.6
Franklin City	9	109.1	0	0.0	6	72.8	1	12.1	1	12.1	17	206.1
Franklin County	45	81.7	2	3.6	17	30.9	7	12.7	0	0.0	71	128.9
Frederick County	42	44.2	2	2.1	24	25.2	6	6.3	1	1.1	75	78.9
Fredericksburg City	25	86.9	0	0.0	10	34.8	6	20.9	0	0.0	41	142.6
Galax City	1	14.9	0	0.0	5	74.3	2	29.7	0	0.0	8	118.9
Giles County	17	103.3	0	0.0	3	18.2	3	18.2	0	0.0	23	139.8
Gloucester County	30	76.0	2	5.1	15	38.0	3	7.6	2	5.1	52	131.7
Goochland County	9	34.5	1	3.8	10	38.3	4	15.3	0	0.0	24	91.9
Grayson County	7	45.6	1	6.5	9	58.7	0	0.0	0	0.0	17	110.8
Greene County	13	61.6	1	4.7	2	9.5	5	23.7	0	0.0	21	99.5
Greensville County	6	53.4	0	0.0	11	98.0	3	26.7	1	8.9	21	187.1
Halifax County	24	71.3	8	23.8	16	47.6	8	23.8	2	5.9	59	175.4
Hampton City	89	64.5	23	16.7	50	36.2	21	15.2	2	1.4	185	134.0
Hanover County	71	62.9	3	2.7	21	18.6	24	21.3	2	1.8	121	107.1
Harrisonburg City	18	35.2	1	2.0	10	19.5	4	7.8	1	2.0	34	66.5
Henrico County	188	56.3	32	9.6	76	22.8	45	13.5	8	2.4	349	104.5
Henry County	63	126.2	8	16.0	25	50.1	7	14.0	1	2.0	104	208.4

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Highland County	3	130.4	0	0.0	0	0.0	0	0.0	0	0.0	3	130.4
Hopewell City	31	135.0	4	17.4	12	52.3	6	26.1	2	8.7	55	239.5
Isle of Wight County	31	77.2	1	2.5	11	27.4	7	17.4	2	5.0	52	129.5
James City County	36	44.3	2	2.5	20	24.6	9	11.1	2	2.5	69	85.0
King and Queen County	7	104.2	0	0.0	1	14.9	1	14.9	0	0.0	9	134.0
King George County	14	50.3	0	0.0	6	21.5	6	21.5	2	7.2	28	100.5
King William County	12	64.9	1	5.4	6	32.4	5	27.0	0	0.0	24	129.8
Lancaster County	2	18.6	0	0.0	4	37.2	0	0.0	0	0.0	6	55.8
Lee County	9	40.9	1	4.5	10	45.5	8	36.4	1	4.5	29	131.9
Lexington City	3	40.2	0	0.0	1	13.4	0	0.0	0	0.0	4	53.6
Loudoun County	69	16.0	8	1.9	47	10.9	28	6.5	2	0.5	156	36.1
Louisa County	32	79.8	3	7.5	14	34.9	10	24.9	2	5.0	62	154.6
Lunenburg County	15	124.7	3	24.9	8	66.5	1	8.3	0	0.0	28	232.7
Lynchburg City	61	76.9	7	8.8	21	26.5	10	12.6	7	8.8	106	133.7
Madison County	4	28.6	1	7.1	6	42.9	3	21.4	0	0.0	14	100.0
Manassas City	15	35.2	0	0.0	12	28.1	5	11.7	0	0.0	32	75.0
Manassas Park City	8	47.9	0	0.0	2	12.0	2	12.0	2	12.0	14	83.8
Martinsville City	20	145.7	2	14.6	6	43.7	1	7.3	1	7.3	30	218.6
Mathews County	9	106.0	2	23.6	3	35.3	0	0.0	0	0.0	14	164.9
Mecklenburg County	20	65.6	1	3.3	7	22.9	5	16.4	2	6.6	35	114.7
Middlesex County	6	54.8	0	0.0	4	36.6	4	36.6	0	0.0	14	127.9
Montgomery County	55	55.6	3	3.0	15	15.2	11	11.1	1	1.0	85	85.9
Nelson County	12	81.9	0	0.0	6	41.0	3	20.5	0	0.0	21	143.3
New Kent County	14	56.0	1	4.0	4	16.0	0	0.0	0	0.0	19	76.0
Newport News City	117	63.5	32	17.4	64	34.7	33	17.9	10	5.4	256	138.9
Norfolk City	182	78.1	53	22.7	96	41.2	35	15.0	16	6.9	382	164.0
Northampton County	10	84.0	2	16.8	5	42.0	1	8.4	1	8.4	19	159.7
Northumberland County	5	40.6	0	0.0	5	40.6	4	32.5	1	8.1	15	121.9
Norton City	1	27.7	3	83.1	2	55.4	3	83.1	1	27.7	10	277.1
Nottoway County	17	109.3	1	6.4	8	51.4	3	19.3	1	6.4	30	192.8

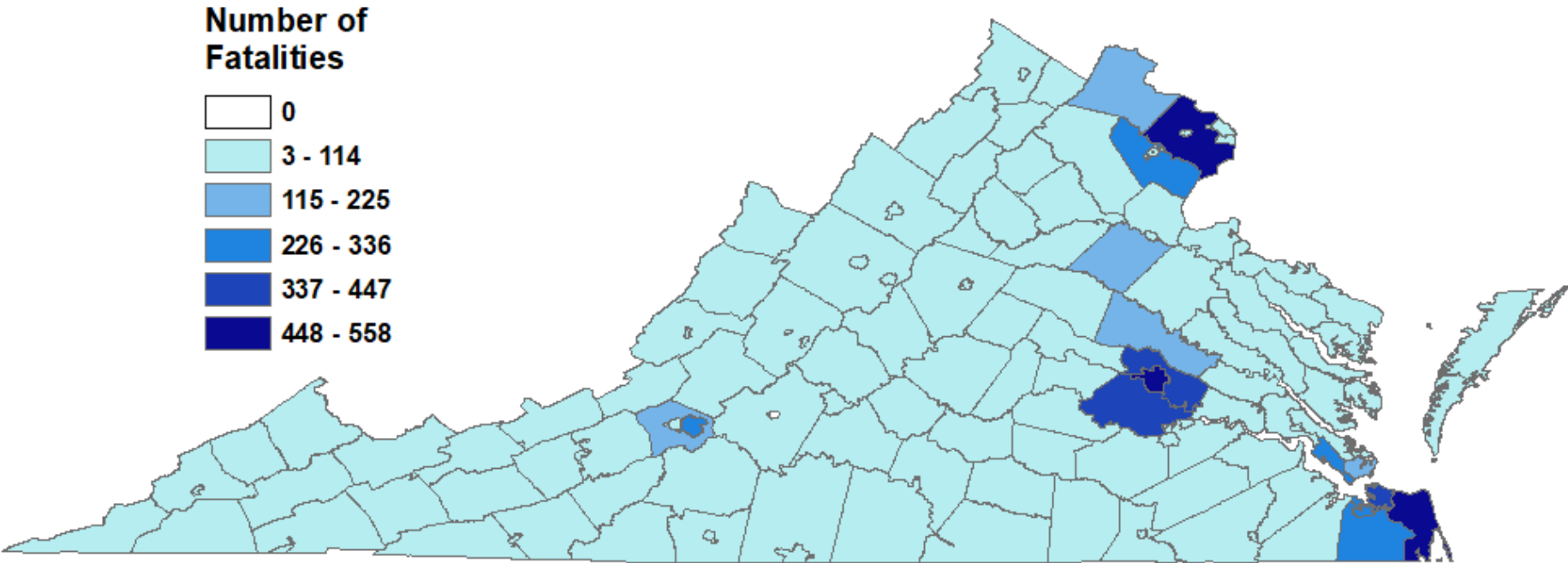
Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Orange County	39	102.7	2	5.3	17	44.7	10	26.3	1	2.6	69	181.6
Page County	16	67.4	2	8.4	18	75.8	7	29.5	1	4.2	44	185.3
Patrick County	12	68.0	1	5.7	10	56.7	3	17.0	0	0.0	26	147.4
Petersburg City	42	125.8	13	38.9	24	71.9	9	27.0	4	12.0	92	275.5
Pittsylvania County	41	68.4	4	6.7	22	36.7	11	18.3	1	1.7	79	131.8
Poquoson City	4	31.8	0	0.0	4	31.8	1	7.9	0	0.0	9	71.5
Portsmouth City	120	123.7	40	41.2	40	41.2	18	18.6	11	11.3	229	236.0
Powhatan County	19	60.3	2	6.4	6	19.1	10	31.8	0	0.0	37	117.5
Prince Edward County	15	68.4	5	22.8	9	41.0	3	13.7	0	0.0	32	145.9
Prince George County	27	62.6	2	4.6	11	25.5	5	11.6	2	4.6	47	109.0
Prince William County	142	29.2	19	3.9	68	14.0	31	6.4	9	1.8	269	55.2
Pulaski County	24	71.2	1	3.0	16	47.5	6	17.8	0	0.0	47	139.4
Radford City	10	59.7	0	0.0	6	35.8	1	6.0	1	6.0	18	107.5
Rappahannock County	5	66.6	0	0.0	6	80.0	3	40.0	0	0.0	14	186.6
Richmond City	292	127.3	54	23.5	100	43.6	26	11.3	11	4.8	484	211.0
Richmond County	6	66.1	0	0.0	7	77.1	2	22.0	0	0.0	15	165.2
Roanoke City	160	163.5	20	20.4	49	50.1	22	22.5	4	4.1	255	260.6
Roanoke County	74	76.4	5	5.2	26	26.8	13	13.4	6	6.2	124	127.9
Rockbridge County	14	62.0	1	4.4	8	35.4	4	17.7	0	0.0	27	119.5
Rockingham County	54	63.2	3	3.5	25	29.3	14	16.4	2	2.3	98	114.8
Russell County	11	43.2	0	0.0	5	19.6	3	11.8	2	7.9	21	82.5
Salem City	34	133.2	0	0.0	7	27.4	6	23.5	2	7.8	49	192.0
Scott County	2	9.3	1	4.7	9	41.9	4	18.6	1	4.7	17	79.2
Shenandoah County	31	68.9	2	4.4	6	13.3	8	17.8	1	2.2	48	106.7
Smyth County	19	64.5	0	0.0	14	47.5	3	10.2	2	6.8	38	129.0
Southampton County	10	55.8	1	5.6	16	89.2	4	22.3	0	0.0	31	172.9
Spotsylvania County	97	66.1	3	2.0	27	18.4	20	13.6	3	2.0	150	102.3
Stafford County	55	33.7	1	0.6	35	21.4	14	8.6	2	1.2	107	65.5
Staunton City	15	57.9	0	0.0	7	27.0	2	7.7	0	0.0	25	96.5
Suffolk City	51	51.8	14	14.2	16	16.2	18	18.3	1	1.0	100	101.5

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Surry County	2	30.6	1	15.3	3	46.0	2	30.6	0	0.0	8	122.6
Sussex County	5	46.8	2	18.7	5	46.8	2	18.7	1	9.4	15	140.4
Tazewell County	39	97.9	0	0.0	19	47.7	16	40.2	2	5.0	76	190.9
Virginia Beach City	226	49.6	29	6.4	134	29.4	69	15.1	10	2.2	468	102.7
Warren County	30	72.4	0	0.0	16	38.6	9	21.7	4	9.7	59	142.4
Washington County	21	38.9	1	1.9	20	37.1	7	13.0	1	1.9	50	92.7
Waynesboro City	19	83.3	0	0.0	9	39.5	4	17.5	1	4.4	33	144.7
Westmoreland County	14	74.8	3	16.0	9	48.1	1	5.3	1	5.3	28	149.6
Williamsburg City	5	31.4	0	0.0	2	12.6	1	6.3	0	0.0	8	50.3
Winchester City	14	50.1	2	7.2	11	39.4	6	21.5	2	7.2	35	125.3
Wise County	15	42.3	2	5.6	18	50.8	2	5.6	0	0.0	37	104.5
Wythe County	17	60.5	1	3.6	7	24.9	9	32.0	0	0.0	34	120.9
York County	26	36.4	1	1.4	17	23.8	10	14.0	1	1.4	55	77.1
Subtotal (in-state)	4688	54.0	614	7.1	2311	26.6	1152	13.3	220	2.5	8995	103.6
Out of State	375	ND	34	ND	144	ND	54	ND	6	ND	614	ND
Unknown	42	ND	5	ND	22	ND	5	ND	9	ND	84	ND
Subtotal (out-of-state)	417	ND	39	ND	166	ND	59	ND	15	ND	698	ND
TOTAL	5105	58.8	653	7.5	2477	28.5	1211	13.9	235	2.7	9693	111.6

* 'ND' represents no denominator for which to calculate rate

** Fatalities certified as 'undefined for fetal deaths' manner of death are omitted by counts and rates by locality because of small case counts, but are included in the summed total

Map 1.1 Number of OCME Cases by Locality of Residence, 2022



Map 1.2 Rates of OCME Cases by Locality of Residence, 2022

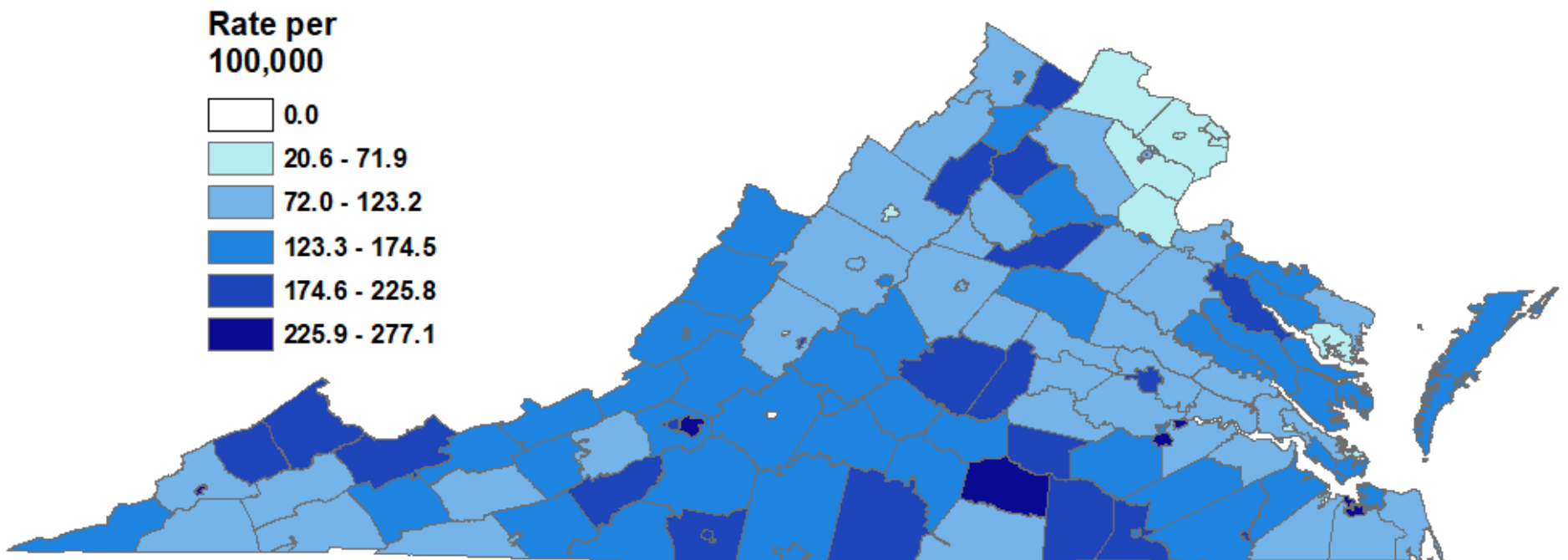


Table 1.9 Number and Rate of OCME Cases by Manner of Death and Locality of Injury, 2022

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Accomack County	18	55.8	3	9.3	20	62.0	7	21.7	0	0.0	48	148.9
Albemarle County	70	63.3	4	3.6	22	19.9	16	14.5	2	1.8	114	103.0
Alexandria City	46	29.0	7	4.4	41	25.8	10	6.3	3	1.9	107	67.4
Alleghany County	15	102.0	0	0.0	0	0.0	5	34.0	0	0.0	20	136.0
Amelia County	8	61.5	1	7.7	1	7.7	3	23.1	1	7.7	14	107.6
Amherst County	18	56.8	1	3.2	10	31.6	9	28.4	1	3.2	39	123.2
Appomattox County	14	87.3	1	6.2	4	24.9	1	6.2	0	0.0	20	124.7
Arlington County	46	19.2	1	0.4	61	25.4	16	6.7	2	0.8	126	52.5
Augusta County	42	54.9	1	1.3	17	22.2	19	24.8	3	3.9	83	108.4
Bath County	3	72.8	0	0.0	2	48.6	1	24.3	0	0.0	6	145.7
Bedford County	65	81.4	4	5.0	14	17.5	16	20.0	1	1.3	100	125.3
Bland County	5	80.1	0	0.0	6	96.2	2	32.1	0	0.0	13	208.4
Botetourt County	25	74.3	1	3.0	9	26.8	11	32.7	1	3.0	47	139.7
Bristol City	9	51.9	2	11.5	7	40.4	4	23.1	0	0.0	22	127.0
Brunswick County	21	130.9	3	18.7	4	24.9	2	12.5	1	6.2	31	193.3
Buchanan County	28	135.8	1	4.9	8	38.8	2	9.7	0	0.0	40	194.1
Buckingham County	20	116.5	0	0.0	7	40.8	5	29.1	1	5.8	33	192.2
Buena Vista City	7	109.3	2	31.2	6	93.7	1	15.6	0	0.0	16	249.9
Campbell County	38	68.7	4	7.2	18	32.5	8	14.5	0	0.0	68	123.0
Caroline County	22	71.3	0	0.0	6	19.4	9	29.2	2	6.5	39	126.4
Carroll County	22	73.2	1	3.3	20	66.5	6	20.0	2	6.7	51	169.6
Charles City County	5	73.3	0	0.0	4	58.6	1	14.7	0	0.0	10	146.6
Charlotte County	9	76.1	0	0.0	5	42.3	2	16.9	0	0.0	16	135.4
Charlottesville City	39	83.1	6	12.8	18	38.3	4	8.5	0	0.0	67	142.7
Chesapeake City	112	45.3	25	10.1	65	26.3	26	10.5	3	1.2	231	93.5
Chesterfield County	154	43.0	20	5.6	72	20.1	45	12.6	8	2.2	299	83.5
Clarke County	16	109.4	0	0.0	8	54.7	2	13.7	1	6.8	27	184.7
Colonial Heights City	10	58.1	1	5.8	9	52.3	1	5.8	0	0.0	22	127.9
Covington City	3	53.2	4	70.9	1	17.7	1	17.7	0	0.0	9	159.6
Craig County	6	118.2	0	0.0	3	59.1	1	19.7	0	0.0	10	197.0

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Culpeper County	28	52.3	1	1.9	20	37.3	13	24.3	0	0.0	62	115.7
Cumberland County	9	90.6	1	10.1	4	40.3	1	10.1	0	0.0	15	151.0
Danville City	36	90.3	9	22.6	16	40.1	6	15.0	2	5.0	69	173.1
Dickenson County	14	99.4	0	0.0	4	28.4	4	28.4	1	7.1	23	163.4
Dinwiddie County	19	66.2	4	13.9	13	45.3	6	20.9	0	0.0	42	146.4
Emporia City	2	38.0	4	76.1	3	57.1	0	0.0	0	0.0	9	171.2
Essex County	11	100.5	1	9.1	5	45.7	2	18.3	1	9.1	20	182.8
Fairfax City	4	17.1	1	4.3	9	38.4	5	21.3	0	0.0	19	81.1
Fairfax County	290	25.2	24	2.1	177	15.4	116	10.1	11	1.0	619	53.8
Falls Church City	0	0.0	0	0.0	1	6.8	1	6.8	0	0.0	2	13.7
Fauquier County	48	67.3	3	4.2	15	21.0	14	19.6	2	2.8	82	114.9
Floyd County	12	76.1	2	12.7	9	57.0	5	31.7	0	0.0	28	177.5
Fluvanna County	11	40.1	0	0.0	8	29.2	1	3.6	0	0.0	20	72.9
Franklin City	9	114.9	3	38.3	10	127.7	1	12.8	1	12.8	24	306.4
Franklin County	52	92.6	2	3.6	17	30.3	8	14.2	0	0.0	79	140.7
Frederick County	46	50.5	2	2.2	22	24.1	8	8.8	2	2.2	80	87.8
Fredericksburg City	26	88.2	0	0.0	12	40.7	8	27.1	3	10.2	49	166.1
Galax City	5	79.4	0	0.0	7	111.2	1	15.9	0	0.0	13	206.5
Giles County	23	138.0	0	0.0	4	24.0	5	30.0	0	0.0	32	192.0
Gloucester County	32	85.4	2	5.3	16	42.7	4	10.7	2	5.3	56	149.5
Goochland County	13	53.2	1	4.1	12	49.1	6	24.6	0	0.0	32	131.0
Grayson County	5	32.3	1	6.5	7	45.2	1	6.5	0	0.0	14	90.4
Greene County	14	69.5	1	5.0	2	9.9	4	19.9	0	0.0	21	104.3
Greensville County	4	35.5	0	0.0	10	88.7	3	26.6	0	0.0	17	150.7
Halifax County	26	77.3	6	17.8	15	44.6	7	20.8	1	3.0	56	166.5
Hampton City	87	64.2	27	19.9	55	40.6	22	16.2	1	0.7	192	141.7
Hanover County	60	55.4	4	3.7	20	18.5	19	17.6	1	0.9	105	97.0
Harrisonburg City	21	39.5	1	1.9	11	20.7	7	13.2	3	5.6	43	80.8
Henrico County	208	62.3	30	9.0	83	24.9	47	14.1	7	2.1	375	112.4
Henry County	64	127.2	8	15.9	25	49.7	8	15.9	1	2.0	106	210.7

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Highland County	2	90.9	0	0.0	0	0.0	0	0.0	0	0.0	2	90.9
Hopewell City	27	120.7	9	40.2	11	49.2	6	26.8	2	8.9	55	245.8
Isle of Wight County	29	76.9	1	2.7	11	29.2	6	15.9	2	5.3	49	129.9
James City County	30	38.7	1	1.3	15	19.3	8	10.3	2	2.6	56	72.2
King and Queen County	7	100.8	0	0.0	1	14.4	1	14.4	0	0.0	9	129.6
King George County	15	54.8	1	3.7	7	25.6	5	18.3	2	7.3	30	109.6
King William County	11	62.4	0	0.0	4	22.7	5	28.3	0	0.0	20	113.4
Lancaster County	3	28.3	0	0.0	4	37.7	1	9.4	0	0.0	8	75.3
Lee County	9	38.7	2	8.6	11	47.3	8	34.4	1	4.3	31	133.4
Lexington City	3	41.2	0	0.0	0	0.0	0	0.0	0	0.0	3	41.2
Loudoun County	63	14.9	7	1.7	52	12.3	36	8.5	2	0.5	160	37.8
Louisa County	27	70.8	3	7.9	13	34.1	8	21.0	2	5.2	53	139.0
Lunenburg County	13	106.0	1	8.2	8	65.2	2	16.3	0	0.0	24	195.6
Lynchburg City	60	73.6	8	9.8	24	29.4	11	13.5	6	7.4	109	133.6
Madison County	3	22.5	1	7.5	7	52.6	2	15.0	0	0.0	13	97.7
Manassas City	16	39.1	0	0.0	13	31.8	5	12.2	1	2.4	35	85.6
Manassas Park City	6	33.3	0	0.0	2	11.1	1	5.6	1	5.6	10	55.5
Martinsville City	19	153.8	1	8.1	5	40.5	1	8.1	1	8.1	27	218.5
Mathews County	6	68.4	2	22.8	2	22.8	0	0.0	0	0.0	10	114.1
Mecklenburg County	27	88.0	6	19.6	7	22.8	7	22.8	3	9.8	50	163.0
Middlesex County	7	66.2	0	0.0	3	28.4	3	28.4	0	0.0	13	123.0
Montgomery County	49	49.8	4	4.1	15	15.2	8	8.1	1	1.0	77	78.3
Nelson County	20	135.5	0	0.0	5	33.9	3	20.3	0	0.0	28	189.8
New Kent County	10	42.3	1	4.2	4	16.9	1	4.2	0	0.0	16	67.7
Newport News City	124	69.2	27	15.1	64	35.7	35	19.5	9	5.0	259	144.6
Norfolk City	176	72.5	64	26.4	101	41.6	41	16.9	13	5.4	395	162.7
Northampton County	9	77.1	0	0.0	6	51.4	1	8.6	1	8.6	17	145.6
Northumberland County	6	49.7	2	16.6	3	24.9	3	24.9	1	8.3	15	124.3
Norton City	2	50.2	3	75.3	3	75.3	2	50.2	1	25.1	11	276.0
Nottoway County	18	118.7	2	13.2	13	85.8	2	13.2	0	0.0	36	237.5

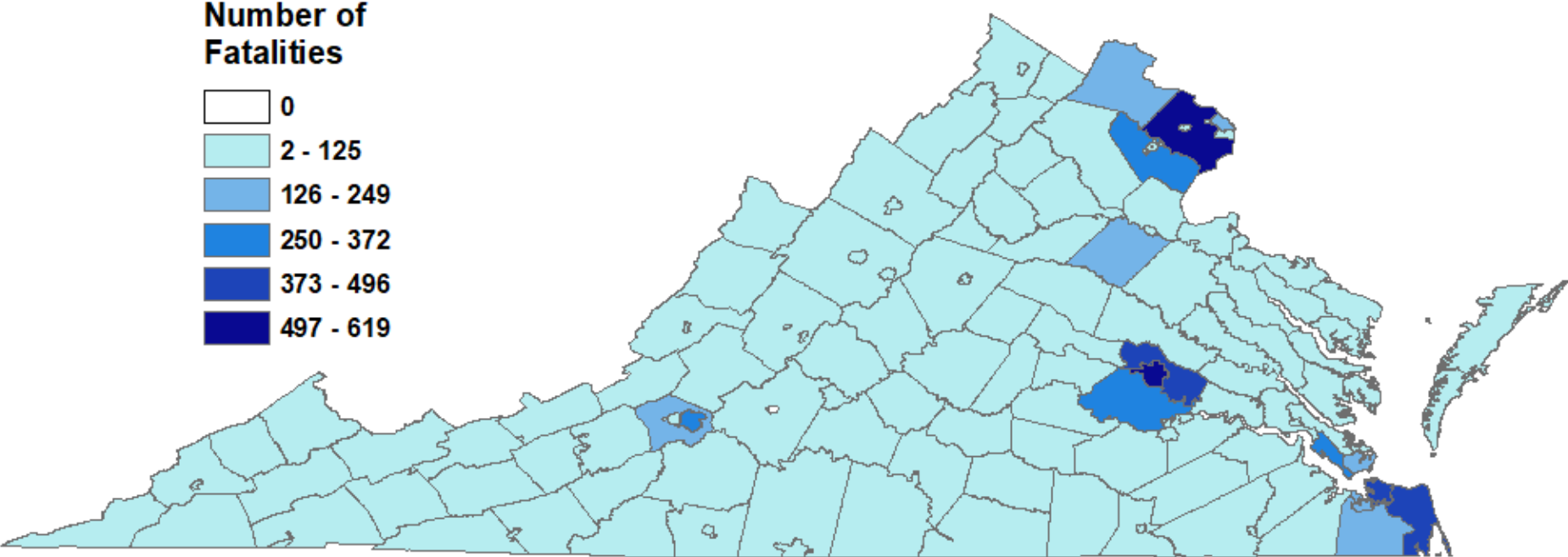
Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Orange County	32	84.9	1	2.7	16	42.4	8	21.2	0	0.0	57	151.2
Page County	15	62.7	1	4.2	15	62.7	9	37.6	1	4.2	41	171.3
Patrick County	18	102.9	1	5.7	10	57.2	2	11.4	0	0.0	31	177.2
Petersburg City	55	180.6	21	69.0	25	82.1	8	26.3	6	19.7	115	377.7
Pittsylvania County	44	73.5	6	10.0	23	38.4	11	18.4	1	1.7	85	142.0
Poquoson City	4	32.6	0	0.0	4	32.6	1	8.2	0	0.0	9	73.4
Portsmouth City	128	134.6	40	42.1	37	38.9	19	20.0	11	11.6	235	247.1
Powhatan County	21	69.7	0	0.0	9	29.9	11	36.5	0	0.0	42	139.3
Prince Edward County	18	78.2	3	13.0	10	43.5	2	8.7	1	4.3	34	147.8
Prince George County	27	69.8	4	10.3	13	33.6	6	15.5	2	5.2	52	134.4
Prince William County	151	31.8	18	3.8	69	14.5	27	5.7	10	2.1	275	57.8
Pulaski County	31	91.4	1	2.9	15	44.2	7	20.6	0	0.0	54	159.1
Radford City	9	49.3	0	0.0	5	27.4	1	5.5	1	5.5	16	87.6
Rappahannock County	4	55.1	0	0.0	4	55.1	3	41.3	0	0.0	11	151.5
Richmond City	377	162.3	64	27.6	118	50.8	34	14.6	11	4.7	605	260.5
Richmond County	4	44.1	0	0.0	7	77.2	1	11.0	1	11.0	13	143.3
Roanoke City	174	175.7	19	19.2	50	50.5	17	17.2	7	7.1	267	269.5
Roanoke County	67	70.9	5	5.3	40	42.3	15	15.9	6	6.3	133	140.7
Rockbridge County	15	65.9	1	4.4	7	30.8	5	22.0	0	0.0	28	123.0
Rockingham County	56	68.0	4	4.9	27	32.8	13	15.8	2	2.4	102	123.9
Russell County	10	37.5	0	0.0	5	18.8	4	15.0	0	0.0	19	71.3
Salem City	32	126.3	0	0.0	9	35.5	5	19.7	1	3.9	47	185.5
Scott County	7	32.4	2	9.2	9	41.6	4	18.5	1	4.6	23	106.3
Shenandoah County	32	72.9	2	4.6	7	15.9	6	13.7	2	4.6	49	111.6
Smyth County	15	49.9	1	3.3	15	49.9	1	3.3	2	6.6	34	113.0
Southampton County	12	68.0	1	5.7	16	90.7	4	22.7	0	0.0	33	187.1
Spotsylvania County	105	75.8	2	1.4	26	18.8	17	12.3	2	1.4	152	109.8
Stafford County	57	36.4	4	2.6	40	25.5	16	10.2	2	1.3	119	75.9
Staunton City	16	63.5	1	4.0	8	31.8	2	7.9	0	0.0	27	107.2
Suffolk City	44	46.9	13	13.8	14	14.9	17	18.1	1	1.1	89	94.8

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Surry County	1	15.7	0	0.0	3	47.0	1	15.7	0	0.0	5	78.3
Sussex County	10	91.5	2	18.3	11	100.7	2	18.3	2	18.3	27	247.1
Tazewell County	34	83.9	1	2.5	22	54.3	15	37.0	3	7.4	75	185.1
Virginia Beach City	219	48.5	20	4.4	128	28.4	67	14.8	10	2.2	444	98.4
Warren County	28	69.2	0	0.0	19	46.9	11	27.2	2	4.9	60	148.2
Washington County	28	52.1	1	1.9	24	44.7	9	16.8	2	3.7	64	119.2
Waynesboro City	16	70.4	0	0.0	10	44.0	5	22.0	1	4.4	32	140.7
Westmoreland County	10	55.1	1	5.5	9	49.6	1	5.5	0	0.0	21	115.7
Williamsburg City	10	65.5	0	0.0	7	45.9	2	13.1	0	0.0	19	124.5
Winchester City	19	68.6	1	3.6	13	46.9	4	14.4	2	7.2	39	140.8
Wise County	21	56.4	4	10.8	18	48.4	3	8.1	1	2.7	47	126.3
Wythe County	22	76.9	1	3.5	9	31.4	10	34.9	1	3.5	43	150.2
York County	30	43.4	1	1.4	21	30.3	13	18.8	1	1.4	66	95.4
Subtotal (in-state)	4900	57.0	624	7.3	2441	28.4	1200	14.0	218	2.5	9392	109.3
Out of State	101	ND	14	ND	5	ND	3	ND	1	ND	125	ND
Unknown	104	ND	15	ND	31	ND	8	ND	16	ND	176	ND
Subtotal (out-of-state)	205	ND	29	ND	36	ND	11	ND	17	ND	301	ND
TOTAL	5105	59.4	653	7.6	2477	28.8	1211	14.1	235	2.7	9693	112.8

* 'ND' represents no denominator for which to calculate rate

** Fatalities certified as 'undefined for fetal deaths' manner of death are omitted by counts and rates by locality because of small case counts, but are included in the summed total

Map 1.3 Number of OCME Cases by Locality of Injury, 2022



Map 1.4 Rate of OCME Cases by Locality of Injury, 2022

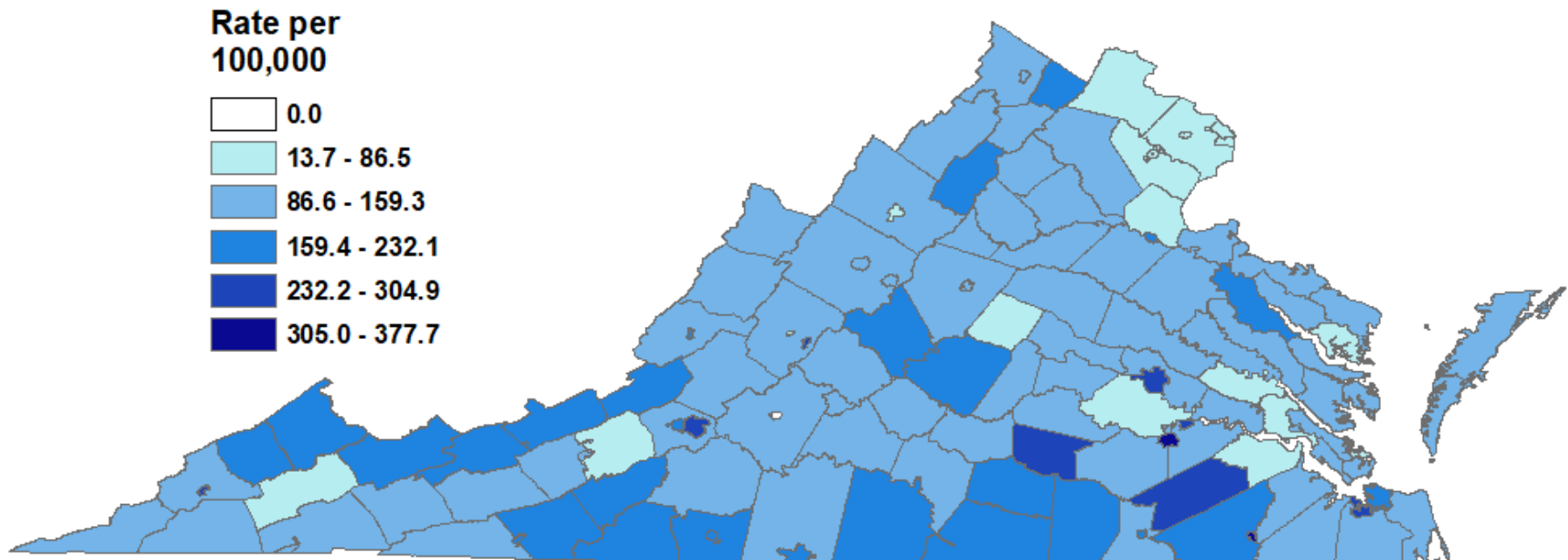


Table 1.10 Number of OCME Cases by Manner of Death and Locality of Death, 2022

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Accomack County	16	4	20	8	1	49
Albemarle County	54	4	18	14	1	91
Alexandria City	47	6	42	12	3	110
Alleghany County	12	0	0	4	0	16
Amelia County	7	1	1	3	1	13
Amherst County	11	1	9	8	1	30
Appomattox County	9	1	2	1	0	13
Arlington County	55	2	62	15	3	137
Augusta County	40	1	16	19	4	81
Bath County	1	0	2	1	0	4
Bedford County	46	3	14	13	1	77
Bland County	5	0	5	2	1	13
Botetourt County	16	1	8	7	1	33
Bristol City	8	0	7	4	0	19
Brunswick County	17	2	3	2	1	25
Buchanan County	28	1	9	2	0	41
Buckingham County	15	0	5	5	0	25
Buena Vista City	3	1	6	1	0	11
Campbell County	20	3	17	7	0	47
Caroline County	15	0	5	8	1	29
Carroll County	18	1	20	6	2	47
Charles City County	6	0	4	1	0	11
Charlotte County	8	0	4	2	0	14
Charlottesville City	130	9	25	17	7	188
Chesapeake City	97	16	68	25	3	209
Chesterfield County	126	18	67	39	5	255
Clarke County	14	0	8	2	1	25
Colonial Heights City	9	1	7	1	0	19
Covington City	2	4	1	1	0	8
Craig County	5	0	3	1	0	9
Culpeper County	25	1	19	12	0	57
Cumberland County	6	1	4	1	0	12
Danville City	31	11	17	8	1	69
Dickenson County	17	2	4	4	1	28
Dinwiddie County	13	4	12	5	0	34
Emporia City	3	3	3	0	0	9
Essex County	8	1	5	1	1	16
Fairfax City	4	1	9	4	0	18
Fairfax County	365	30	181	121	13	711
Falls Church City	0	0	1	1	0	2
Fauquier County	38	1	15	13	2	69
Floyd County	8	3	8	4	0	23

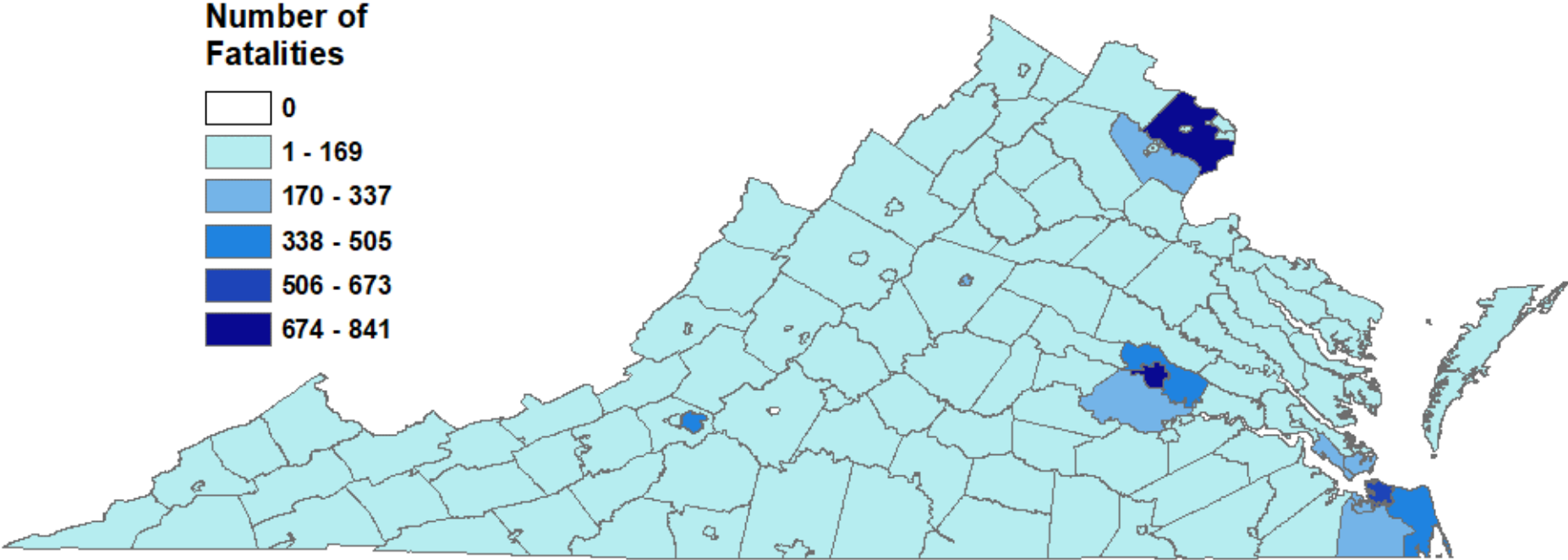
Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Fluvanna County	4	0	8	1	0	13
Franklin City	6	1	14	0	1	22
Franklin County	34	2	17	7	0	60
Frederick County	27	2	18	6	1	54
Fredericksburg City	64	1	14	11	3	93
Galax City	9	0	8	1	1	19
Giles County	17	0	4	4	0	25
Gloucester County	29	3	17	4	2	55
Goochland County	11	1	10	6	0	28
Grayson County	3	1	5	1	0	10
Greene County	9	1	2	4	0	16
Greensville County	2	0	6	3	0	11
Halifax County	29	6	15	7	1	59
Hampton City	77	18	54	22	1	172
Hanover County	48	3	24	17	1	94
Harrisonburg City	14	1	12	7	2	36
Henrico County	195	15	84	43	6	343
Henry County	44	5	24	8	0	81
Highland County	2	0	0	0	0	2
Hopewell City	24	9	12	6	2	53
Isle of Wight County	21	1	10	6	2	40
James City County	20	1	16	7	2	46
King and Queen County	3	0	1	1	0	5
King George County	9	1	6	5	1	22
King William County	8	0	3	4	0	15
Lancaster County	2	0	4	1	1	8
Lee County	9	2	10	8	1	30
Lexington City	1	0	0	0	0	1
Loudoun County	63	6	49	33	2	155
Louisa County	19	3	12	5	1	40
Lunenburg County	7	2	8	2	0	19
Lynchburg City	103	10	35	14	4	166
Madison County	2	1	7	2	0	12
Manassas City	20	0	15	5	3	43
Manassas Park City	6	0	1	1	0	8
Martinsville City	24	2	6	2	3	37
Mathews County	2	2	2	0	0	6
Mecklenburg County	20	6	7	7	3	43
Middlesex County	4	0	3	3	0	10
Montgomery County	47	4	17	9	0	77
Nelson County	13	0	4	3	0	20
New Kent County	6	1	4	1	0	12

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Newport News City	175	37	69	40	10	331
Norfolk City	285	98	111	55	23	572
Northampton County	8	1	7	0	1	17
Northumberland County	2	2	3	3	0	10
Norton City	8	3	7	2	1	21
Nottoway County	15	2	8	2	0	28
Orange County	21	0	16	7	0	44
Page County	13	1	15	8	0	37
Patrick County	17	1	9	1	0	28
Petersburg City	61	21	33	7	5	127
Pittsylvania County	34	3	21	8	1	67
Poquoson City	3	0	4	1	0	8
Portsmouth City	120	31	36	18	9	214
Powhatan County	17	0	9	9	0	36
Prince Edward County	10	3	12	2	0	27
Prince George County	18	3	10	6	2	39
Prince William County	122	17	69	26	9	243
Pulaski County	25	1	14	7	0	47
Radford City	5	0	5	1	1	12
Rappahannock County	1	0	3	3	0	7
Richmond City	544	89	130	54	23	841
Richmond County	1	0	6	1	1	9
Roanoke City	337	30	78	35	11	491
Roanoke County	40	1	23	11	5	80
Rockbridge County	10	1	7	4	0	22
Rockingham County	48	4	26	13	3	94
Russell County	10	0	6	3	0	19
Salem City	45	0	10	5	0	60
Scott County	7	2	9	3	1	22
Shenandoah County	27	1	7	5	0	40
Smyth County	15	1	15	1	1	33
Southampton County	11	1	13	4	1	30
Spotsylvania County	88	2	28	15	3	136
Stafford County	40	3	40	15	2	100
Staunton City	11	0	7	2	0	20
Suffolk City	45	13	15	14	1	88
Surry County	1	0	2	1	0	4
Sussex County	9	2	9	2	2	24
Tazewell County	31	0	19	13	3	66
Virginia Beach City	216	17	130	65	6	434
Warren County	19	0	18	10	2	49
Washington County	29	1	25	10	3	68

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Waynesboro City	7	0	10	4	0	21
Westmoreland County	8	1	9	1	0	19
Williamsburg City	8	0	6	3	0	17
Winchester City	64	3	19	7	4	97
Wise County	12	1	14	4	1	32
Wythe County	19	1	10	8	0	38
York County	27	1	20	10	0	58
Subtotal (in-state)	5104	648	2476	1211	234	9685
Out of State	0	5	0	0	0	5
Unknown	1	0	1	0	1	3
Subtotal (out-of-state)	1	5	1	0	1	8
TOTAL	5105	653	2477	1211	235	9693

* Fatalities certified as 'undefined for fetal deaths' manner of death are omitted by counts and rates by locality because of small case counts, but are included in the summed total

Map 1.5 Number of OCME Cases by Locality of Death, 2022



SECTION 2: MANNERS OF DEATH

ACCIDENTAL DEATHS (N=5,105)

Accidents accounted for 52.7% of the deaths investigated by the OCME in 2022, which is the greatest proportion of deaths by any manner.

- The total number of accidental deaths decreased 0.7% in 2022 compared to 2021
- For the fifth year in a row, fatal drug overdoses were the most common cause of accidental death (48.9%), followed by accidental motor vehicle deaths (21.8%)
- Black males, followed by White males, had the highest rates of accidents, all causes (118.5 and 84.8 per 100,000, respectively)
- Seniors 85 years and older had the highest mortality rate due to falls (275.4 per 100,000 persons)
- Of the 3,640 (71.4%) decedents of accidental death that were tested for ethanol, 1,076 (29.6%) had ethanol detected through toxicology. Of those tested, 635 (17.4%) had a blood alcohol concentration of 0.08% or greater; the level of legal intoxication

Figure 2.1 Number and Rate of Accidental Deaths by Year of Death, 1999-2022

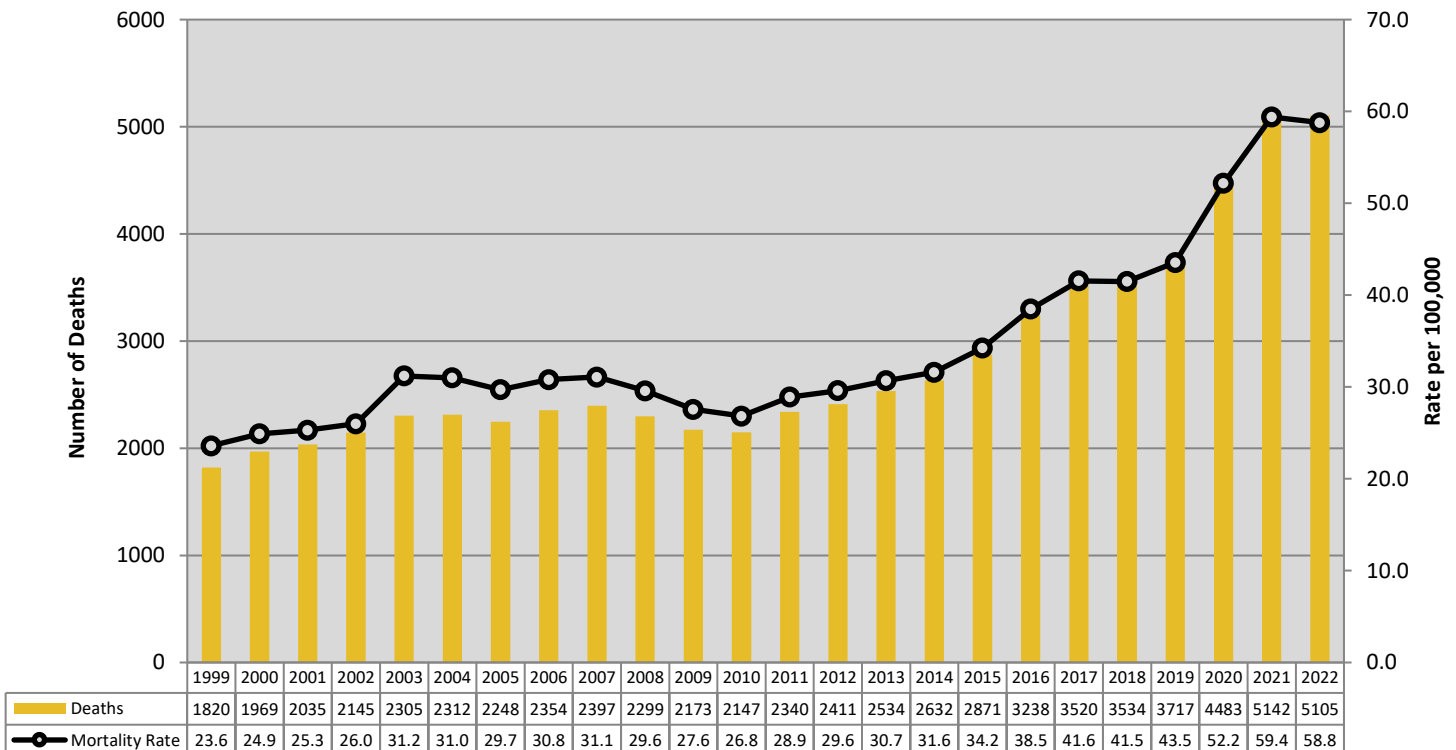
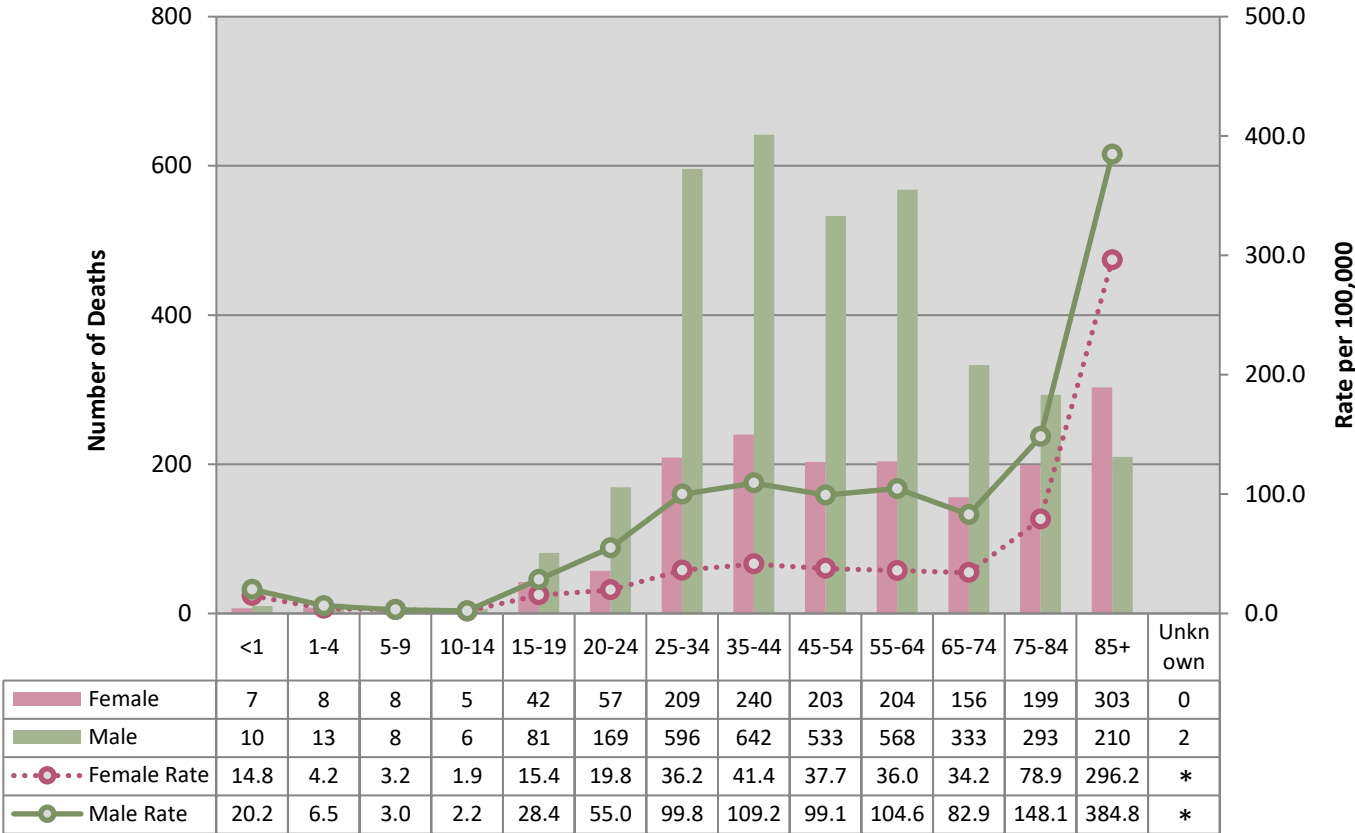


Figure 2.2 Number and Rate of Accidental Deaths by Age Group and Gender, 2022



* No rate can be calculated

Figure 2.3 Percentage of Accidental Deaths by Race/Ethnicity, 2022

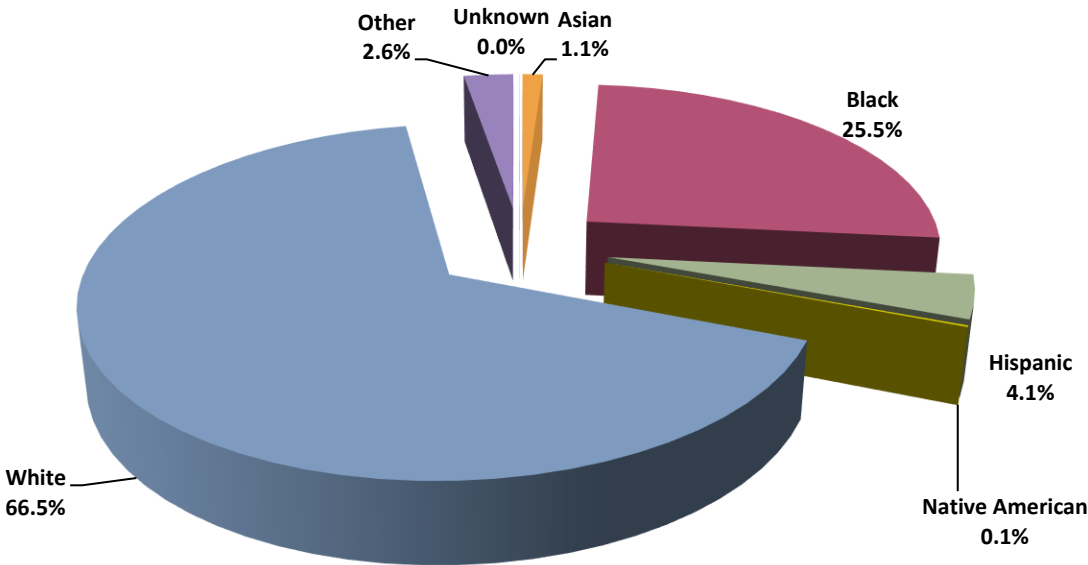
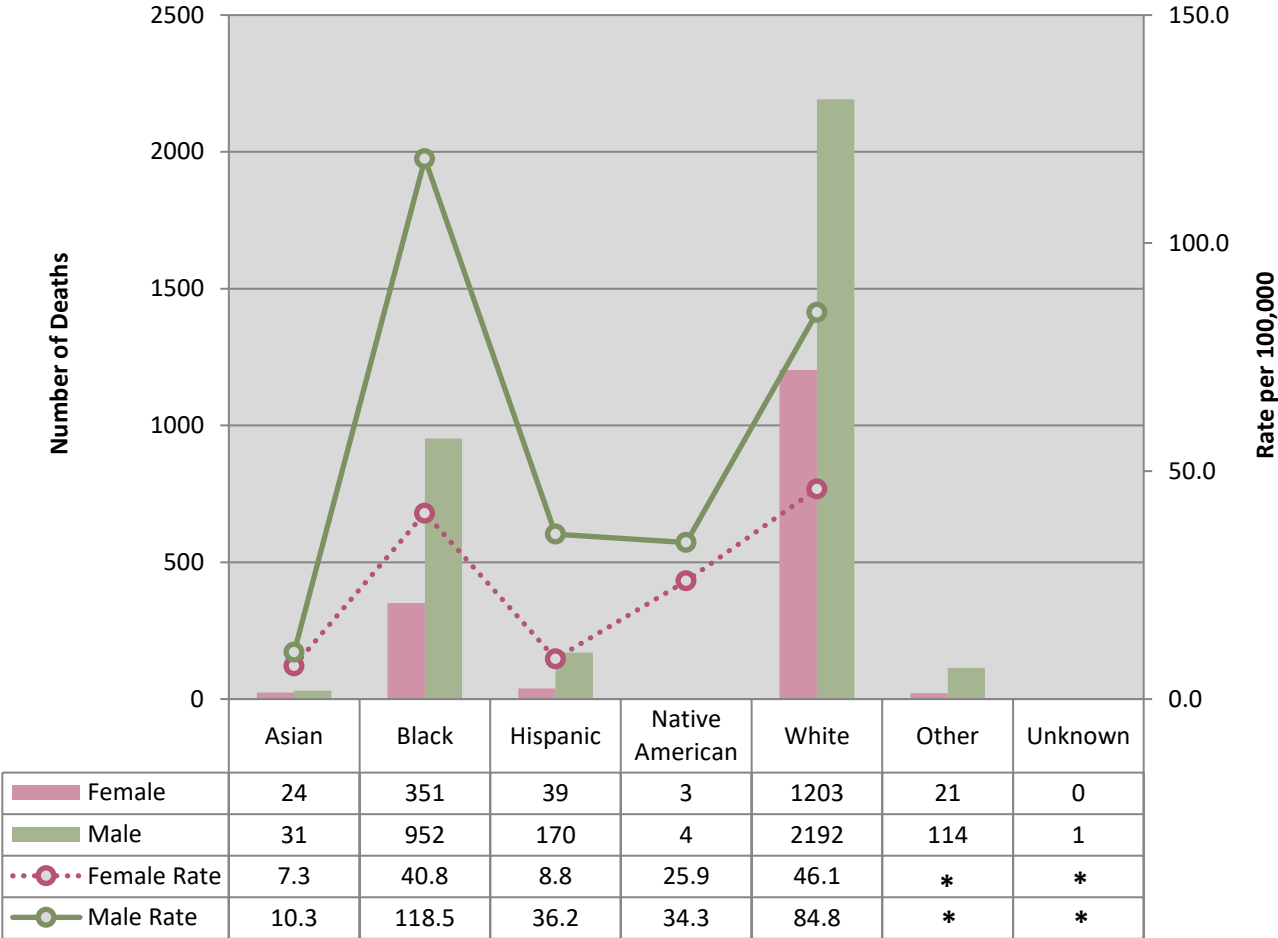


Figure 2.4 Number and Rate of Accidental Deaths by Race/Ethnicity and Gender, 2022



*No rate can be calculated

Note: Rates calculated from small sample sizes (<5 deaths) are considered unreliable and should be interpreted with caution (Native Americans)

Table 2.1 Number of Accidental Death Cases by Cause and Method of Death, 2022

Method of Death	Autopsied	Total Cases
Animal/Insect		
Bit, stung, or kicked by an animal/insect	1	4
Asphyxia		
Carbon Monoxide poisoning (motor vehicle exhaust)	1	2
Carbon Monoxide poisoning (other)	2	12
Choked on food/foreign object	4	57
Drowned	72	105
Mechanical/Positional asphyxia	10	16
Oxygen depletion/replacement	0	2
Plastic bag asphyxia	1	1
Suffocated/Smothered	10	10
Other asphyxia	0	4
Drug Poisoning		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	587	2498
Electrical		
Contacted electrical current	4	4
Exposure		
Exposed to cold	25	39
Exposed to heat	1	3
Fall/Jump		
Fell/Jumped from any height	49	1036
Fire		
Thermal burns and/or inhalation of combustion products	43	98
Motor Vehicle Collision		
Aircraft	3	3
All Terrain Vehicle	1	19
Ambulance	0	1
Bicycle	1	15
Boat	0	2
Bus	0	4
Car	46	435
Construction Heavy Equipment	1	1
Farm Equipment	1	12
Go Kart	0	1
Lawnmower	1	7
Mo-Ped	0	11
Motorcycle	6	116
Motorized Scooter	0	1
Motorized Skateboard	0	1

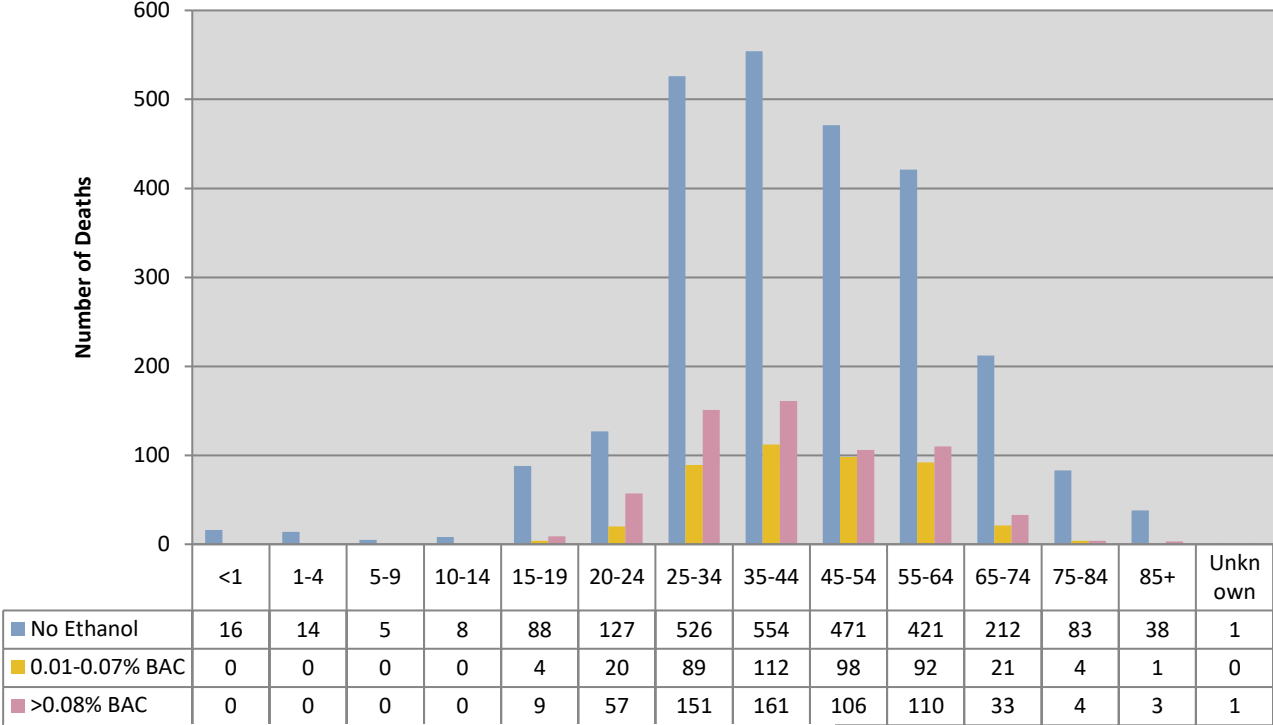
Multiple	2	5
Pickup Truck	13	111
Snow Plow	0	1
Sport Utility Vehicle	12	177
Street Sweeper	0	1
Tractor Trailer	4	19
Train	0	3
Truck Other	2	17
Unknown	26	113
Van	1	35
Traumatic Injury		
Accidental discharge of firearm		
Handgun	5	5
Rifle	1	1
Shotgun	1	1
Unknown	1	1
Explosion	2	3
Hit/Crushed by falling object	4	31
Sharp force injury	0	1
Other/Undetermined		
Other	15	60
TOTAL ACCIDENTAL DEATHS	959	5105

Table 2.2 Number and Rate of the Top Five Accidental Methods of Death by Age Group, 2022

Age Group	Method of Death										TOTAL
	Drowning		Drug Use		Fall		Fire/Smoke Inhalation		Motor Vehicle Collision		
	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate	
<1	1	1.0	0	0.0	0	0.0	1	1.0	1	1.0	3
1-4	7	1.8	2	0.5	0	0.0	2	0.5	2	0.5	13
5-9	2	0.4	0	0.0	0	0.0	4	0.8	8	1.6	14
10-14	3	0.6	3	0.6	0	0.0	1	0.2	4	0.8	11
15-19	6	1.1	45	8.1	1	0.2	0	0.0	69	12.4	121
20-24	10	1.7	111	18.6	8	1.3	2	0.3	87	14.6	218
25-34	16	1.4	572	48.7	10	0.9	3	0.3	189	16.1	790
35-44	16	1.4	666	57.0	15	1.3	4	0.3	156	13.4	857
45-54	5	0.5	533	49.5	21	2.0	5	0.5	141	13.1	705
55-64	11	1.0	449	40.4	60	5.4	16	1.4	179	16.1	715
65-74	14	1.6	114	13.3	156	18.2	30	3.5	130	15.1	444
75-84	8	1.8	2	0.4	333	74.0	18	4.0	95	21.1	456
85+	5	3.2	0	0.0	432	275.4	12	7.7	50	31.9	499
Unknown	1	ND	1	ND	0	ND	0	ND	0	ND	2
TOTAL	105	1.2	2498	28.8	1036	11.9	98	1.1	1111	12.8	4270

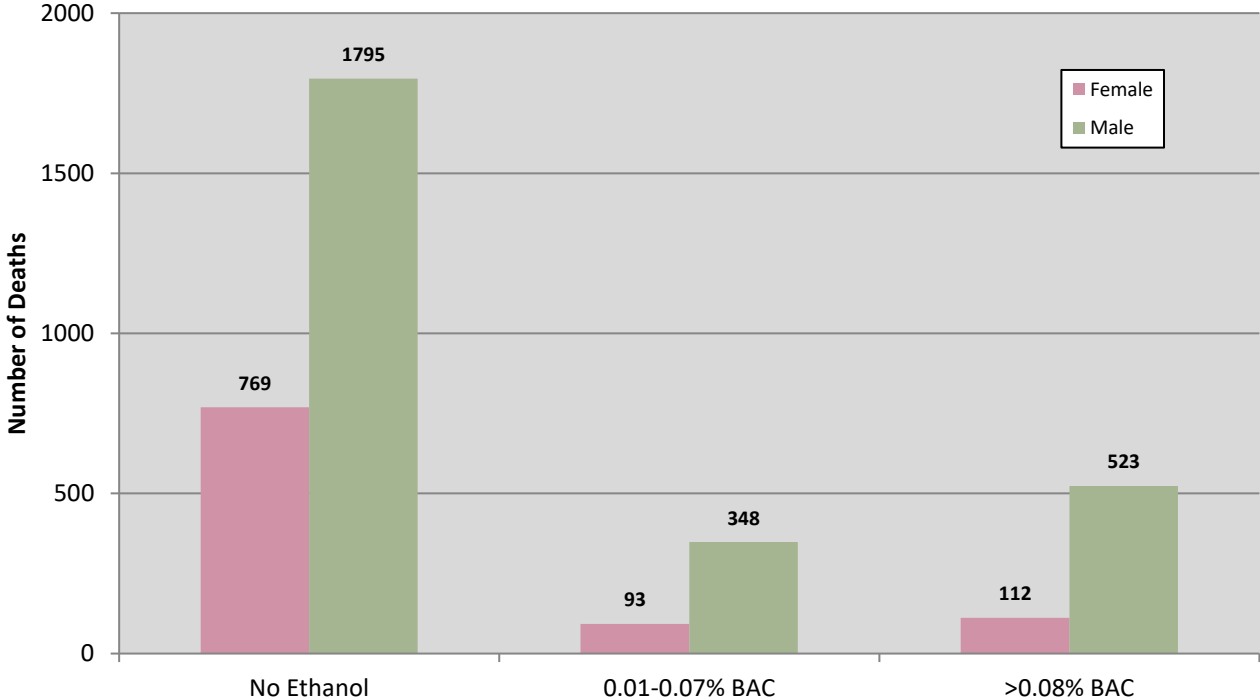
Note: Highlighted pink cells indicate the highest rate among the method of death within the corresponding age group; rates are per 100,000; ND represents no denominator

Figure 2.5 Number of Accidental Deaths by Age Group and Ethanol Level (N=3,640), 2022



Note: Of the 5,105 accidental deaths, 28.7% (n=1,465) did not receive toxicology testing

Figure 2.6 Number of Accidental Deaths by Ethanol Level and Gender (N=3,640), 2022



Note: Of the 5,105 accidental deaths, 28.7% (n=1,465) did not receive toxicology testing

Figure 2.7 Number of the Top 5 Accidental Methods of Death by Ethanol Level, 2022

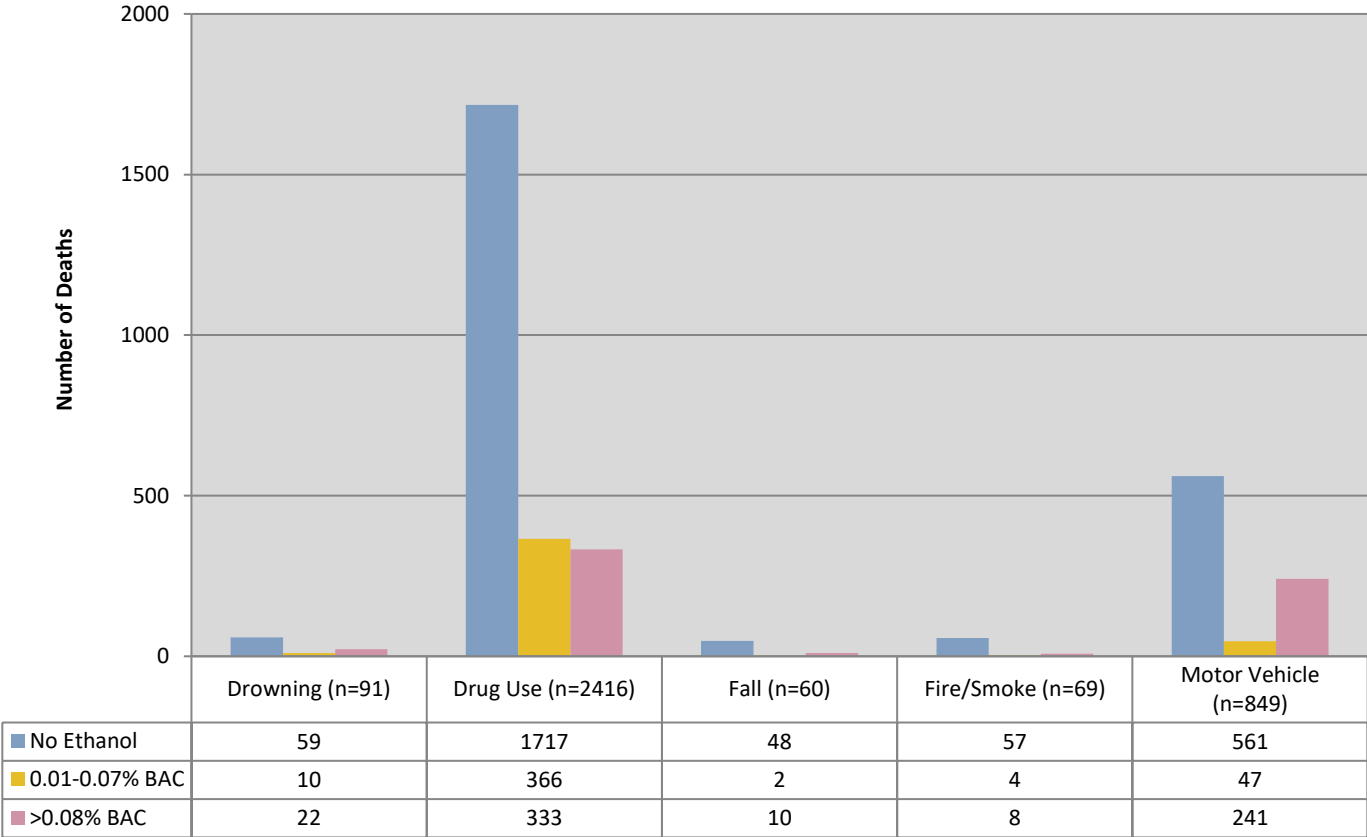


Figure 2.8 Number of Accidental Deaths by Month of Death, 2022

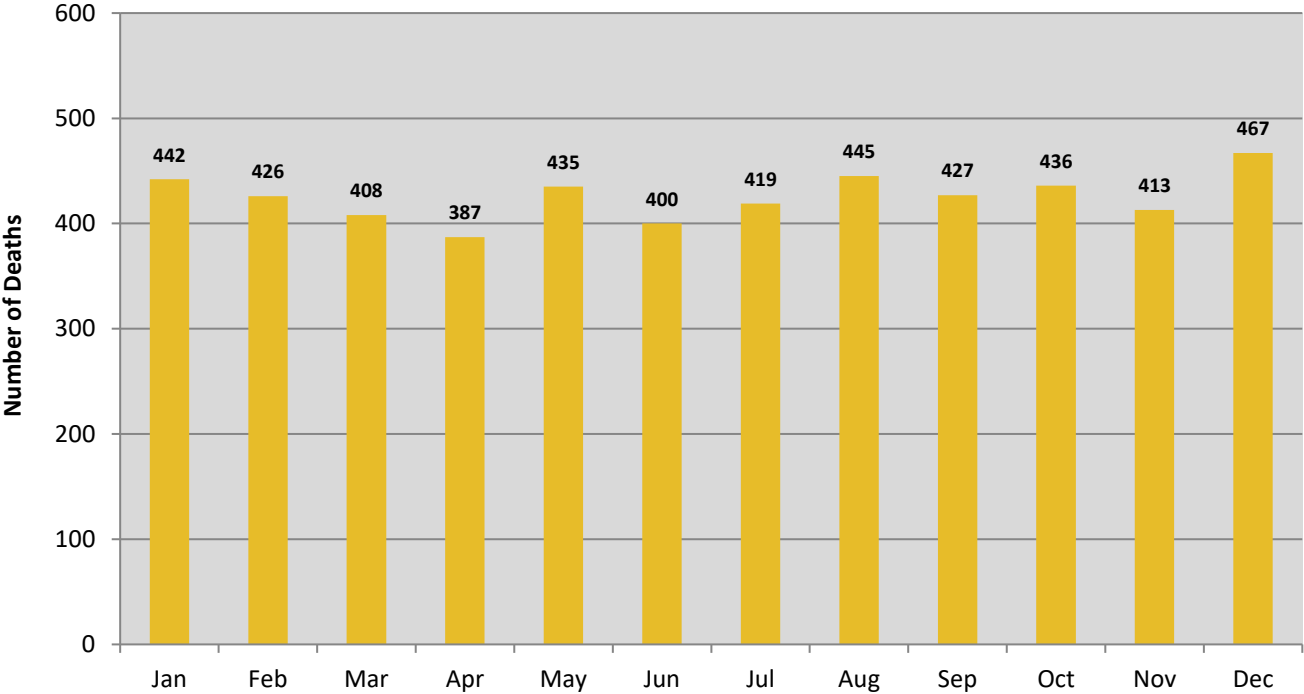


Figure 2.9 Number of Accidental Deaths by Day of Death, 2022

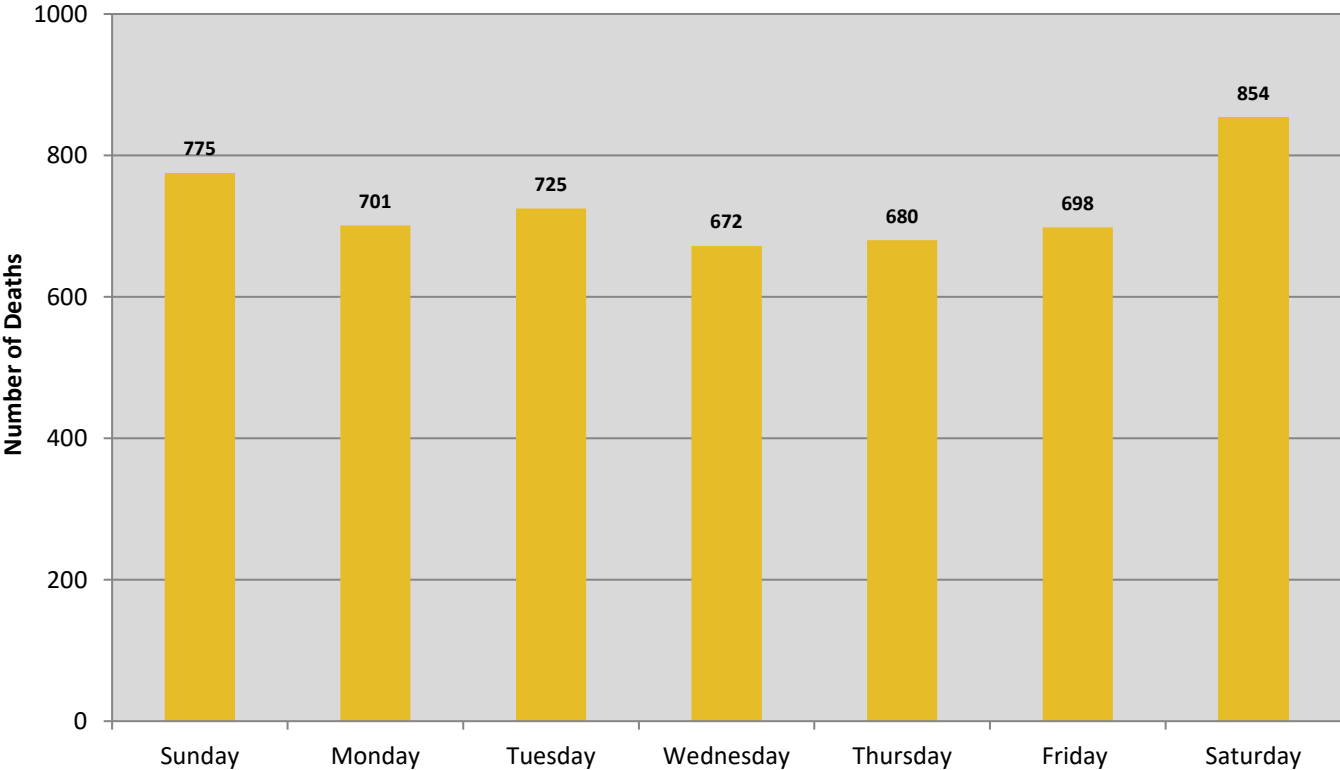


Table 2.3 Number of Accidental Deaths by Locality of Injury and Year of Death, 2006-2022

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Accomack County	22	20	11	19	18	16	15	12	15	10	16	13	17	11	17	21	18	271
Albemarle County	17	20	33	25	28	34	28	32	44	40	35	51	41	56	63	58	70	675
Alexandria City	21	21	21	22	14	22	16	21	21	31	25	34	16	35	23	42	46	431
Alleghany County	10	14	8	5	6	4	7	8	10	7	13	8	6	6	10	20	15	157
Amelia County	4	7	11	9	4	8	9	5	7	6	9	10	9	9	14	7	8	136
Amherst County	11	8	16	9	5	18	19	12	12	9	17	12	17	18	22	30	18	253
Appomattox County	2	6	7	4	3	5	4	4	8	4	8	3	7	9	10	12	14	110
Arlington County	18	19	30	34	27	24	34	32	31	34	30	35	35	26	49	58	46	562
Augusta County	26	34	38	33	30	27	33	32	29	23	36	37	36	43	39	52	42	590
Bath County	2	3	1	4	3	3	6	2	1	1	3	2	3	5	4	3	3	49
Bedford City	3	5	5	4	4	2	0	2	0	0	0	0	0	0	0	0	0	25
Bedford County	22	27	16	30	31	24	40	32	24	31	38	45	42	40	51	62	65	620
Bland County	0	6	2	7	4	7	2	2	3	3	2	4	1	1	9	3	5	61
Botetourt County	12	12	13	11	11	19	15	12	14	20	15	20	18	14	18	28	25	277
Bristol City	6	10	3	3	7	5	7	1	6	2	1	3	5	4	3	12	9	87
Brunswick County	16	7	6	8	13	8	14	15	11	12	11	8	13	19	19	25	21	226
Buchanan County	21	18	19	11	23	18	20	13	15	15	9	18	17	13	4	14	28	276
Buckingham County	3	9	6	3	5	5	7	5	15	3	12	12	8	12	13	12	20	150
Buena Vista City	0	0	1	2	0	1	2	0	1	2	0	3	1	2	1	4	7	27
Campbell County	32	16	31	12	17	14	25	21	20	23	24	27	27	25	28	38	38	418
Caroline County	9	14	8	9	13	14	10	17	7	19	29	13	29	21	26	33	22	293
Carroll County	17	15	19	11	7	13	14	15	19	14	10	13	8	10	18	19	22	244
Charles City County	4	8	7	7	7	6	5	3	5	4	8	1	3	8	6	6	5	93
Charlotte County	4	6	6	5	6	9	5	6	4	7	9	4	7	9	8	18	9	122
Charlottesville City	21	28	11	16	12	9	8	11	13	18	19	12	27	23	29	34	39	330
Chesapeake City	55	60	48	53	43	58	57	67	59	86	101	81	79	80	96	99	112	1234
Chesterfield County	56	68	92	68	70	74	82	78	89	96	124	141	144	143	174	204	154	1857
Clarke County	5	6	5	8	10	4	8	5	8	6	17	9	15	13	9	12	16	156
Colonial Heights City	6	3	4	2	2	3	3	5	6	3	15	5	9	8	4	10	10	98
Covington City	4	0	2	2	0	1	0	1	3	1	3	4	3	1	4	4	3	36
Craig County	7	2	2	4	2	2	1	4	3	2	3	2	3	2	3	3	6	51

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Culpeper County	16	24	12	12	14	14	19	23	27	19	24	34	30	26	33	32	28	387
Cumberland County	1	2	4	3	2	3	4	9	2	6	3	6	4	4	7	8	9	77
Danville City	16	13	22	20	20	19	16	20	20	17	22	18	18	26	32	41	36	376
Dickenson County	11	16	13	5	11	13	10	8	10	11	14	6	8	10	8	8	14	176
Dinwiddie County	12	14	20	12	10	8	9	15	6	12	18	18	12	25	14	27	19	251
Emporia City	2	8	2	1	3	3	3	4	1	2	3	1	4	5	3	5	2	52
Essex County	4	7	4	7	5	8	3	2	5	5	7	8	4	5	6	13	11	104
Fairfax City	3	4	5	11	5	7	11	11	11	6	10	9	12	9	3	10	4	131
Fairfax County	221	156	144	148	152	195	184	196	210	243	253	226	246	250	256	300	290	3670
Falls Church City	2	1	0	2	1	6	0	2	4	0	1	2	1	2	1	3	0	28
Fauquier County	21	31	26	33	32	33	27	30	28	50	53	30	54	32	35	36	48	599
Floyd County	13	10	5	8	5	10	5	10	8	10	8	7	12	12	10	15	12	160
Fluvanna County	9	7	14	7	6	5	7	5	6	12	3	9	13	7	15	9	11	145
Franklin City	2	2	1	1	2	0	1	2	3	4	3	6	3	1	5	2	9	47
Franklin County	27	22	23	26	21	33	38	17	23	19	42	37	42	34	45	54	52	555
Frederick County	24	24	26	31	27	29	25	36	36	40	40	47	38	41	53	44	46	607
Fredericksburg City	22	14	15	6	11	12	21	14	8	22	24	29	23	15	31	33	26	326
Galax City	0	3	0	0	0	3	4	2	2	2	1	2	0	4	5	2	5	35
Giles County	9	5	9	9	10	3	10	12	14	10	12	12	7	4	15	15	23	179
Gloucester County	21	10	16	10	20	15	12	16	13	11	24	25	20	12	24	27	32	308
Goochland County	6	15	10	14	8	8	13	5	6	12	5	9	13	12	7	14	13	170
Grayson County	13	5	2	6	5	5	6	7	5	5	8	2	4	8	5	9	5	100
Greene County	4	14	5	4	7	2	9	5	7	5	4	9	8	9	14	7	14	127
Greensville County	10	3	2	5	6	2	5	3	9	5	7	8	3	7	12	15	4	106
Halifax County	15	22	27	14	20	16	9	9	23	15	20	12	19	16	18	34	26	315
Hampton City	31	27	28	25	35	38	24	38	29	35	58	50	65	89	84	84	87	827
Hanover County	21	27	26	13	18	29	26	36	42	32	30	46	48	53	66	66	60	639
Harrisonburg City	11	1	3	5	4	8	6	10	10	9	13	13	14	17	18	25	21	188
Henrico County	89	65	77	73	70	58	72	95	88	109	120	136	131	157	152	232	208	1932
Henry County	34	15	34	22	26	31	31	23	28	24	30	32	31	40	55	75	64	595
Highland County	1	2	2	2	2	1	0	1	2	2	1	0	5	2	0	2	2	27

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Hopewell City	5	7	6	7	7	6	6	3	7	7	12	14	16	13	20	37	27	200
Isle of Wight County	16	16	14	12	13	7	11	11	15	11	15	16	13	16	18	22	29	255
James City County	17	9	24	16	13	19	11	27	16	27	26	29	34	24	43	38	30	403
King and Queen County	5	7	5	8	2	1	3	4	4	4	3	6	6	6	9	15	7	95
King George County	5	7	8	10	2	8	10	13	16	8	13	23	14	8	12	14	15	186
King William County	3	6	5	9	2	6	6	8	5	7	12	7	8	2	13	7	11	117
Lancaster County	9	9	6	2	2	8	2	6	2	5	11	7	12	7	6	10	3	107
Lee County	11	16	10	13	8	15	11	11	7	6	10	7	13	9	14	8	9	178
Lexington City	3	2	1	2	4	1	2	2	1	2	1	7	1	5	6	5	3	48
Loudoun County	23	36	27	29	32	36	52	54	64	50	69	90	63	61	74	70	63	893
Louisa County	16	24	17	21	14	11	13	17	7	11	28	13	23	24	21	33	27	320
Lunenburg County	6	11	9	5	2	1	6	7	5	5	4	8	5	10	9	10	13	116
Lynchburg City	13	24	24	16	25	21	34	25	26	28	26	28	41	59	57	74	60	581
Madison County	3	9	6	3	5	4	6	5	5	7	3	12	9	8	11	6	3	105
Manassas	8	8	5	11	4	6	15	3	9	11	7	22	11	14	19	21	16	190
Manassas Park	Unknown	1	1	2	3	4	1	1	5	1	1	6	3	2	5	11	6	53
Martinsville City	8	3	8	6	7	7	6	10	8	8	4	9	16	12	20	18	19	169
Mathews County	8	4	1	4	2	2	3	6	3	6	4	3	1	5	8	7	6	73
Mecklenburg County	18	17	11	16	10	13	13	15	16	15	18	26	25	20	19	32	27	311
Middlesex County	3	7	6	6	6	1	4	4	6	7	8	8	7	10	12	12	7	114
Montgomery County	15	24	27	24	30	28	23	26	23	21	28	37	32	34	42	37	49	500
Nelson County	6	11	6	11	6	9	9	9	11	9	8	12	14	10	13	15	20	179
New Kent County	15	7	7	8	12	11	9	6	11	15	9	6	9	14	11	29	10	189
Newport News City	52	35	36	53	40	45	33	43	54	64	75	68	91	89	127	125	124	1154
Norfolk City	59	79	59	67	49	73	71	89	68	86	126	119	115	125	163	185	176	1709
Northampton County	6	7	10	9	5	3	2	5	12	4	15	8	9	6	9	13	9	132
Northumberland County	2	3	8	4	6	9	8	7	7	6	3	5	8	8	11	10	6	111
Norton City	3	0	1	1	2	0	1	2	0	1	1	0	1	1	2	3	2	21
Nottoway County	6	7	3	14	6	7	5	7	8	9	9	6	4	20	12	8	18	149
Orange County	6	14	13	10	14	16	9	19	25	16	27	27	20	29	25	26	32	328
Page County	4	10	4	7	8	14	12	10	7	6	13	8	18	16	13	16	15	181

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Patrick County	5	7	11	8	8	5	9	12	8	10	6	8	14	8	16	23	18	176
Petersburg City	16	22	14	14	13	3	11	10	12	8	25	25	21	24	47	50	55	370
Pittsylvania County	28	30	37	29	25	27	34	22	30	33	21	35	45	39	49	41	44	569
Poquoson City	5	1	1	3	1	2	0	2	1	4	3	5	1	4	7	6	4	50
Portsmouth City	29	20	18	29	23	28	19	33	30	45	52	59	70	57	72	124	128	836
Powhatan County	14	6	7	5	3	7	12	12	9	7	3	15	8	11	13	19	21	172
Prince Edward County	9	14	5	14	11	4	9	10	5	13	14	11	7	15	14	16	18	189
Prince George County	9	12	12	10	11	11	11	13	13	16	7	22	12	19	13	35	27	253
Prince William County	69	56	65	63	72	78	92	79	88	65	108	117	103	99	144	144	151	1593
Pulaski County	16	23	19	15	19	19	14	18	25	18	21	21	23	30	29	35	31	376
Radford City	2	5	9	3	8	3	8	2	6	4	4	7	1	8	7	8	9	94
Rappahannock County	0	4	2	3	6	4	5	4	2	1	1	6	0	7	12	7	4	68
Richmond City	127	133	85	68	67	87	77	79	89	105	146	167	144	171	273	323	377	2518
Richmond County	2	3	6	2	4	4	5	3	5	2	6	8	2	10	3	8	4	77
Roanoke City	37	30	32	41	36	39	40	57	49	54	48	88	85	75	153	145	174	1183
Roanoke County	27	22	23	19	17	26	27	28	36	41	44	54	56	49	70	73	67	679
Rockbridge County	12	14	10	13	7	10	14	7	13	16	13	12	16	20	10	16	15	218
Rockingham County	30	21	19	16	18	16	25	22	37	37	25	27	34	40	43	40	56	506
Russell County	19	19	15	11	16	20	14	12	9	14	16	11	4	12	19	13	10	234
Salem City	13	7	8	8	8	4	12	12	12	8	10	13	15	22	21	17	32	222
Scott County	6	8	11	9	5	8	9	10	7	6	9	9	5	9	12	7	7	137
Shenandoah County	14	5	24	13	12	15	17	15	23	32	20	19	16	26	23	24	32	330
Smyth County	13	10	11	7	12	10	9	12	10	14	11	10	11	9	18	25	15	207
Southampton County	10	15	10	10	11	6	8	17	9	11	7	10	14	13	6	14	12	183
Spotsylvania County	29	39	31	29	43	36	34	39	38	53	67	51	71	87	83	84	105	919
Stafford County	18	44	25	24	21	23	33	33	26	48	45	35	46	53	61	60	57	652
Staunton City	7	6	8	7	5	8	3	4	10	7	5	13	7	12	15	13	16	146
Suffolk City	16	37	26	17	30	25	25	30	27	34	25	38	30	31	48	47	44	530
Surry County	2	7	4	1	6	2	1	4	2	3	3	3	0	5	6	1	1	51
Sussex County	13	15	17	11	12	5	2	3	8	6	16	23	9	17	15	11	10	193
Tazewell County	36	11	16	19	25	30	23	14	20	17	14	20	20	30	35	48	34	412

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Virginia Beach City	101	106	102	110	77	112	111	119	116	126	130	184	149	149	202	208	219	2321
Warren County	6	12	17	9	25	23	15	20	20	20	21	35	20	27	33	33	28	364
Washington County	18	20	22	14	21	28	16	10	21	23	14	17	19	16	19	30	28	336
Waynesboro City	7	2	7	6	7	3	13	8	5	10	7	10	6	13	9	13	16	142
Westmoreland County	13	9	11	6	11	10	7	7	5	13	15	12	9	13	19	9	10	179
Williamsburg City	6	5	3	6	2	9	5	6	6	1	7	9	4	6	13	6	10	104
Winchester City	15	2	4	10	7	7	16	17	19	19	14	18	17	19	23	16	19	242
Wise County	31	28	15	22	22	23	19	23	14	17	19	25	22	18	14	28	21	361
Wythe County	11	14	24	12	13	9	17	14	21	25	18	19	8	13	24	24	22	288
York County	14	17	14	7	15	17	8	16	18	16	18	21	29	22	27	23	30	312
Subtotal (in-state)	2316	2322	2227	2104	2079	2272	2332	2454	2546	2751	3150	3408	3353	3575	4350	4974	4900	51113
Out of State	29	51	46	52	54	54	59	62	61	81	65	77	73	98	73	107	101	1143
Unknown	8	24	26	17	14	14	20	18	25	39	23	35	108	44	60	61	104	640
Subtotal (out-of-state)	37	75	72	69	68	68	79	80	86	120	88	112	181	142	133	168	205	1783
TOTAL	2353	2397	2299	2173	2147	2340	2411	2534	2632	2871	3238	3520	3534	3717	4483	5142	5105	52896

* Bedford City was incorporated into Bedford County in 2014 and therefore numbers are combined from there forward

HOMICIDE DEATHS (N=653)

The number of homicides in 2022 increased 6.5% compared to 2021. As previous years have shown, homicides most frequently occurred among males (79.5%) and among Blacks (68.3%). Black males and males aged 20-24 years demonstrate the highest homicide rate in 2022 (47.4 and 30.6 per 100,000, respectively) compared to other comparable demographic groups.

- Over 86% of all homicides in 2022 were due to a firearm. Over 47% of all homicides were specifically due to a handgun
- Of the 94.6% of homicide victims tested for ethanol, 32.5% had ethanol present. Furthermore, 19.3% of those tested had a blood alcohol concentration of 0.08% or greater
- Richmond City had the largest number of homicides by locality of residence (n=54) and Norfolk and Richmond City tied for the largest number of homicides by locality of injury (n=64). Norton City, population of 3,609 residents in 2022, had both the highest homicide rate by locality of residence and by location of injury (both 83.1 per 100,000, respectively); however, these rates were calculated based on three homicides in 2022, two of which occurred in the same incident. From 2007 to 2022, Norton City had one homicide in 2012 by event locality and by residence, one homicide in 2020 and one in 2021, so three homicides in 2022 do not indicate a trend, but rather a statistical anomaly among a small population.

Figure 2.10 Number and Rate of Homicide Deaths by Year of Death, 1999-2022

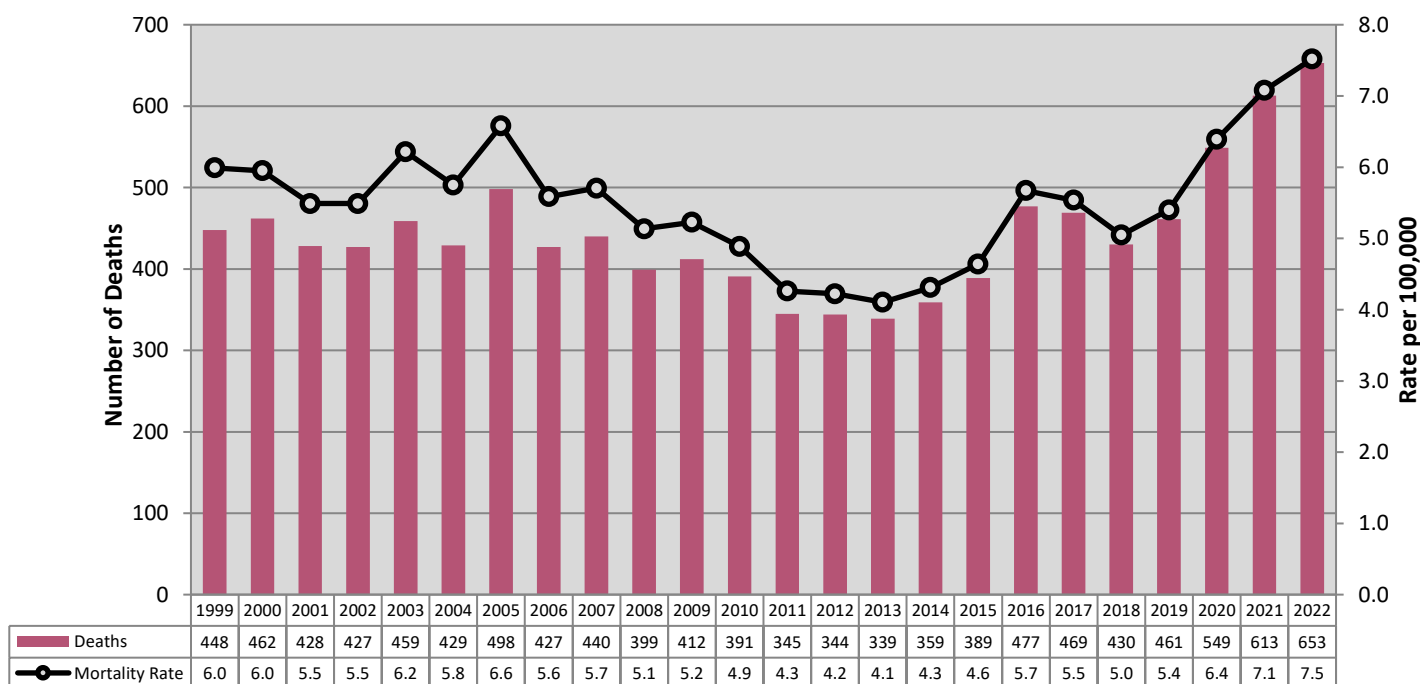


Figure 2.11 Number and Rate of Homicide Deaths by Age Group and Gender, 2022

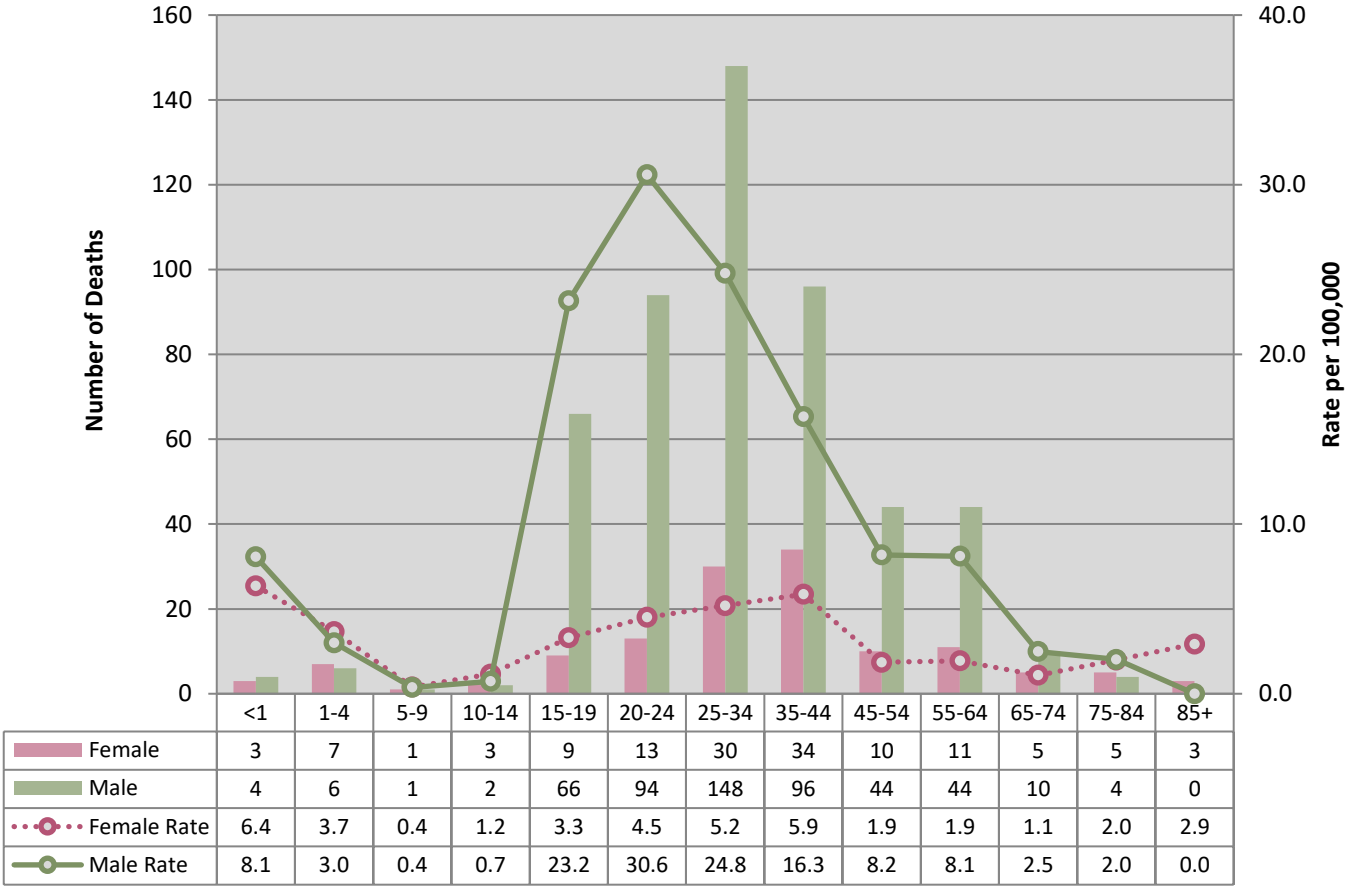


Figure 2.12 Percentage of Homicide Deaths by Race/Ethnicity, 2022

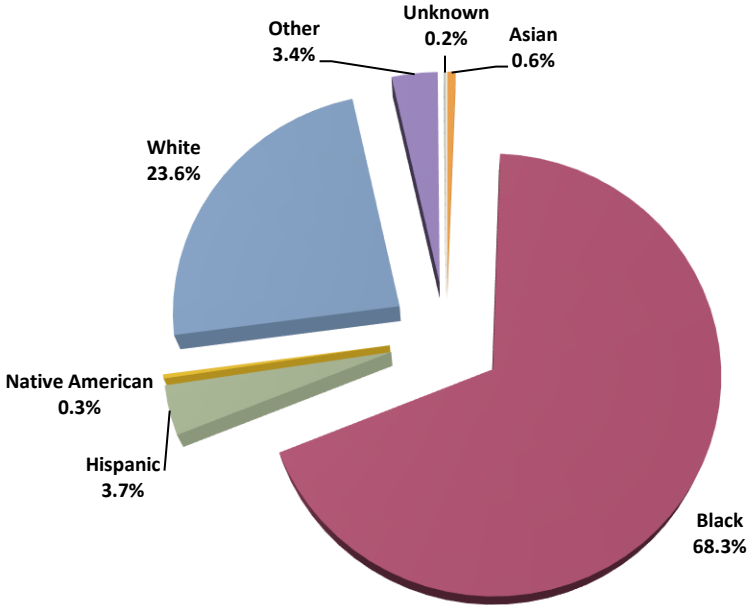
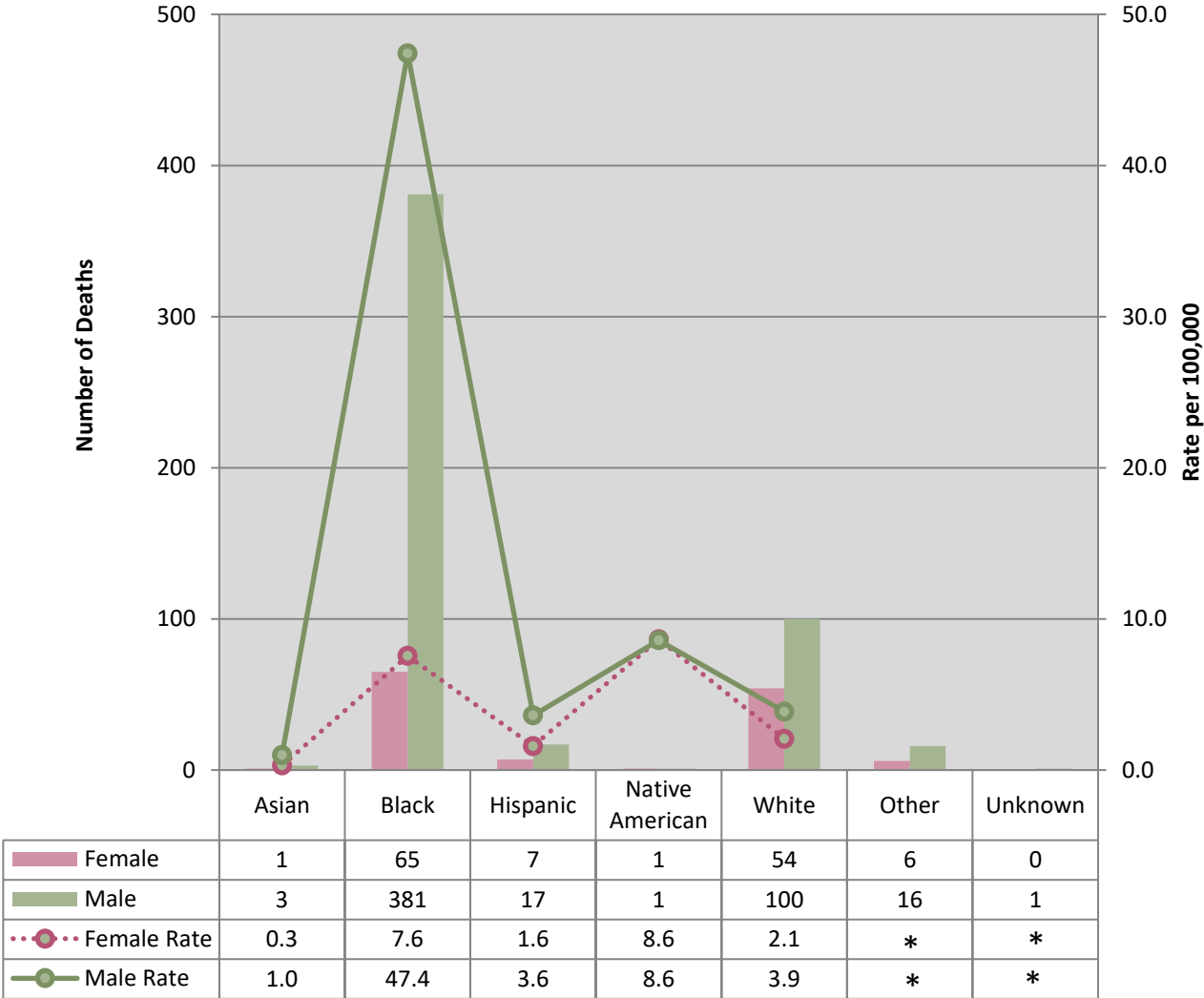


Figure 2.13 Number and Rate of Homicide Deaths by Race/Ethnicity and Gender, 2022



*No rate can be calculated
 Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians and Native Americans)

Table 2.4 Number of Homicide Deaths by Cause and Method of Death, 2022

Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned	1	1
Hanged	1	1
Strangled by assailant(s)	6	6
Other asphyxia	1	1
Drug Poisoning		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	2	2
Fire		
Thermal and/or inhalational Injuries	4	4
Motor Vehicle Collision		
Struck by a vehicle	1	1
Traumatic Injury		
Beaten by assailant(s)	31	31
Shot by assailant(s)		
Air rifle	1	1
Handgun	308	309
Multiple	16	16
Rifle	18	18
Shotgun	12	12
Unspecified/Unknown	206	207
Stabbed by assailant(s)	35	35
Other/Undetermined		
Dehydration/Starvation	1	1
Other/Undetermined	7	7
TOTAL HOMICIDE DEATHS	651	653

Figure 2.14 Number of the Leading Homicide Deaths by Method, 2022

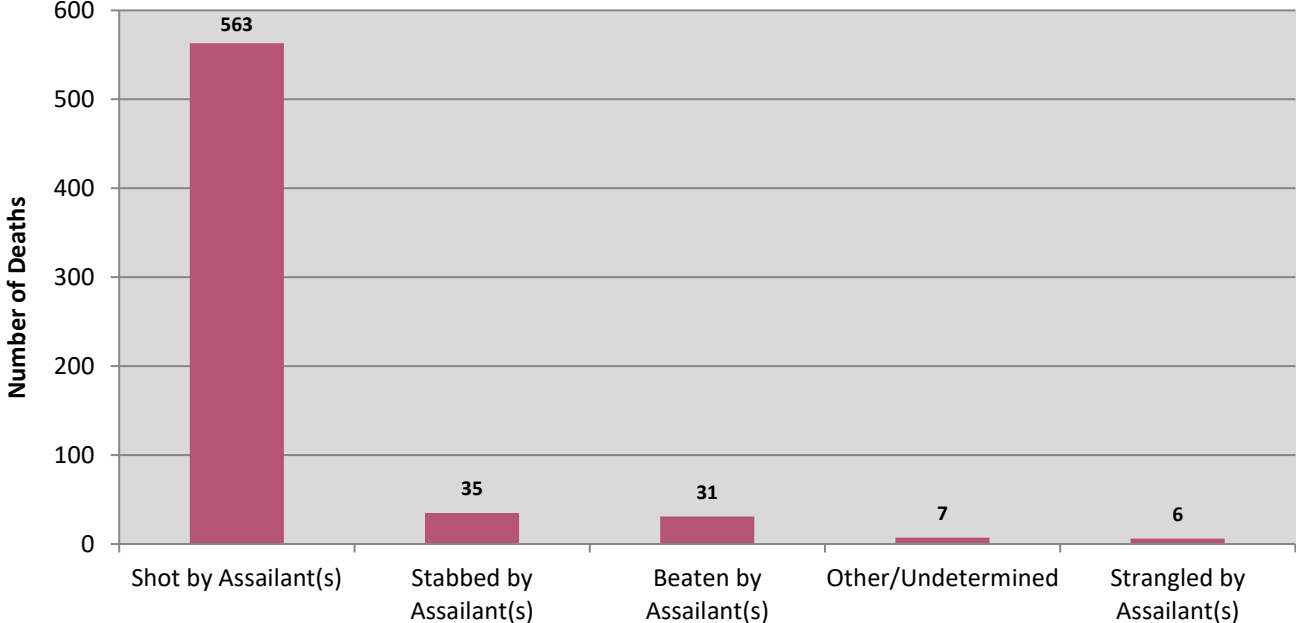
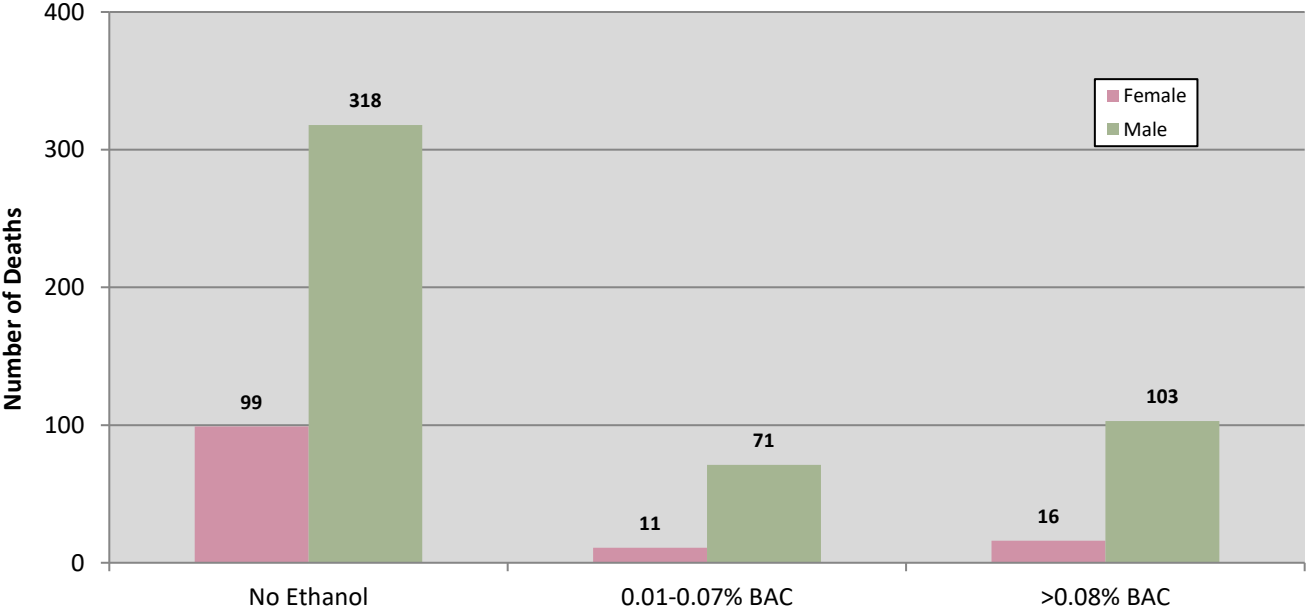
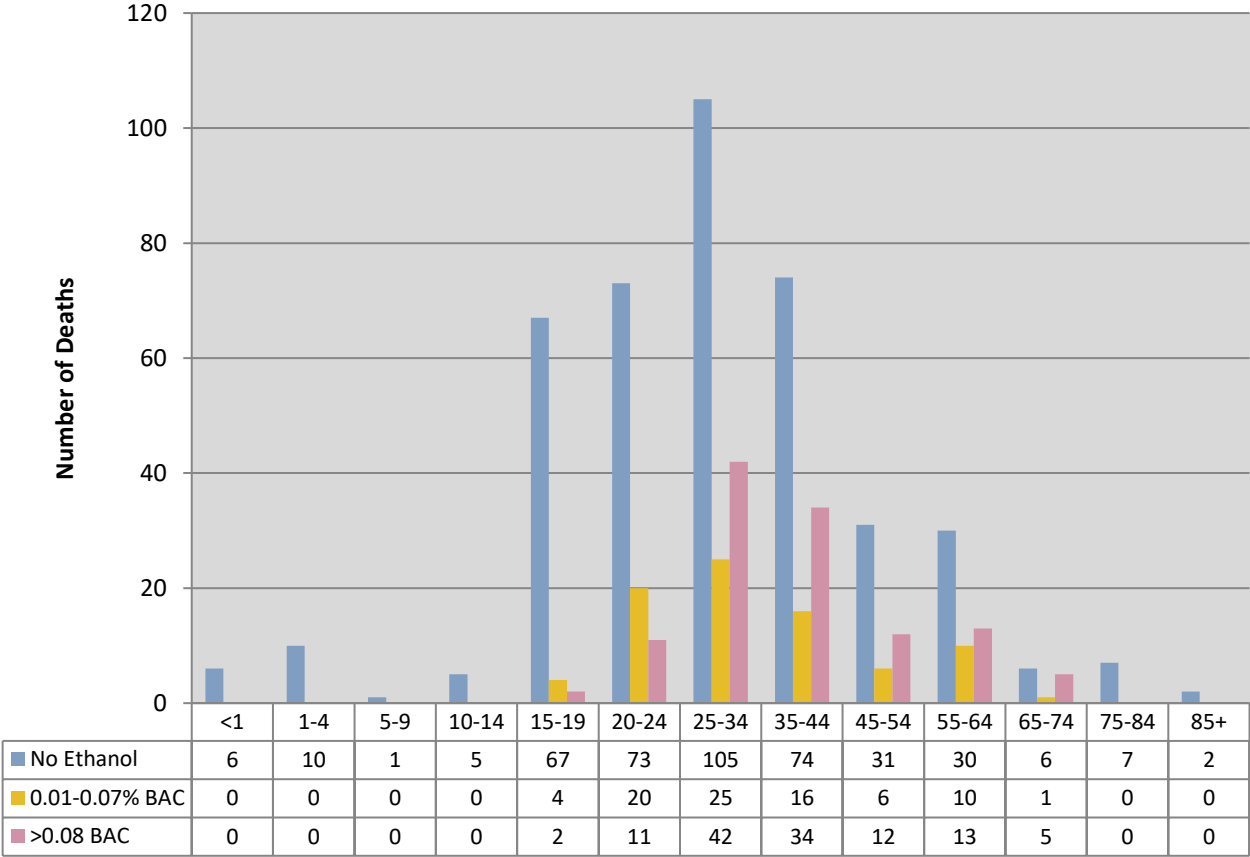


Figure 2.15 Number of Homicide Deaths by Ethanol Level and Gender (N=618), 2022



Note: Of the 653 homicide deaths, 5.4% (n=35) did not receive toxicology testing

Figure 2.16 Number of Homicide Deaths by Age Group and Ethanol Level (N=618), 2022



Note: Of the 653 homicide deaths, 5.4% (n=35) did not receive toxicology testing

Table 2.5 Number of Homicide Deaths by Method of Death and Ethanol Level (N=618), 2022

Method of Death	No Ethanol	0.01-0.07% BAC	>0.08% BAC
Asphyxia			
Drowned	1	0	0
Hanged	1	0	0
Strangled by assailant(s)	5	1	0
Other asphyxia	1	0	0
Drug Poisoning			
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	2	0	0
Fire			
Thermal and/or inhalational Injuries	3	0	0
Motor Vehicle Collision			
Struck by a vehicle	0	0	1
Traumatic Injury			
Beaten by assailant(s)	13	2	6
Shot by assailant(s)			
Air rifle	1	0	0
Handgun	212	27	62
Multiple	10	5	1
Rifle	7	5	5
Shotgun	7	2	3
Unspecified/Unknown	123	35	36
Stabbed by assailant(s)	24	5	5
Other/Undetermined			
Dehydration/Starvation	1	0	0
Other/Undetermined	6	0	0
TOTAL HOMICIDE DEATHS	417	82	119

Note: Of the 653 homicide deaths, 5.4% (n=35) did not receive toxicology testing

Figure 2.17 Number of Homicide Deaths by Month of Death, 2022

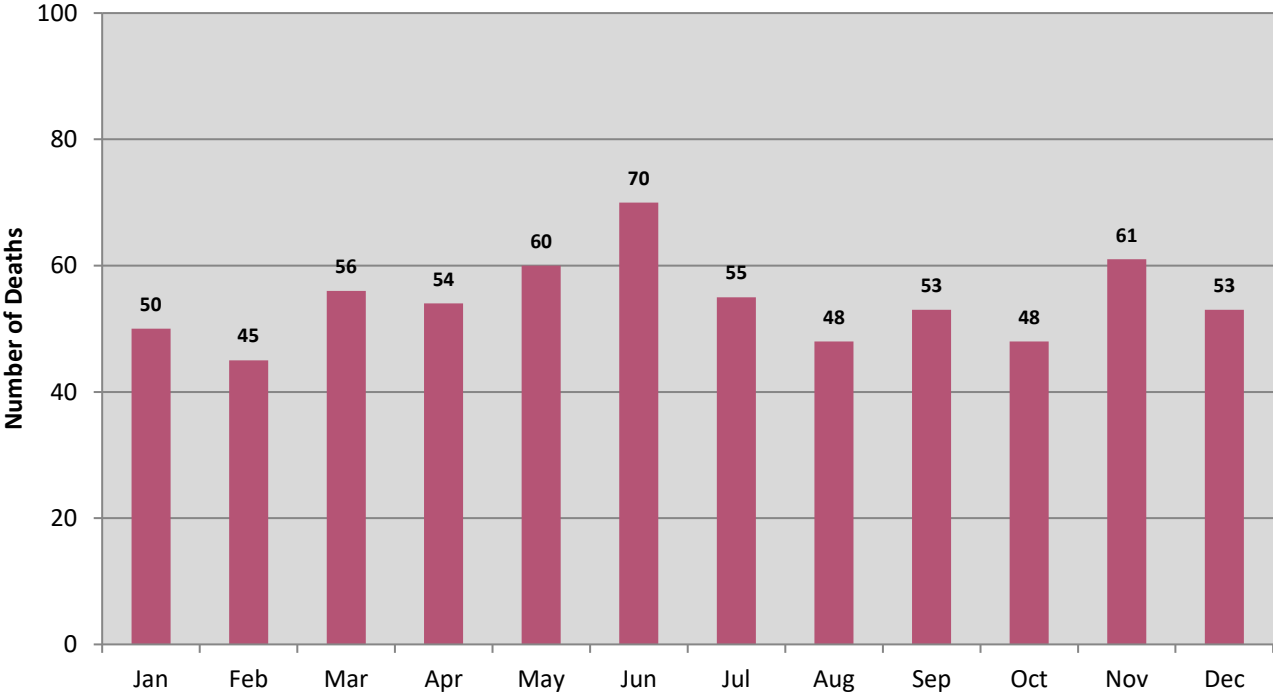


Figure 2.18 Number of Homicide Deaths by Day of Death, 2022

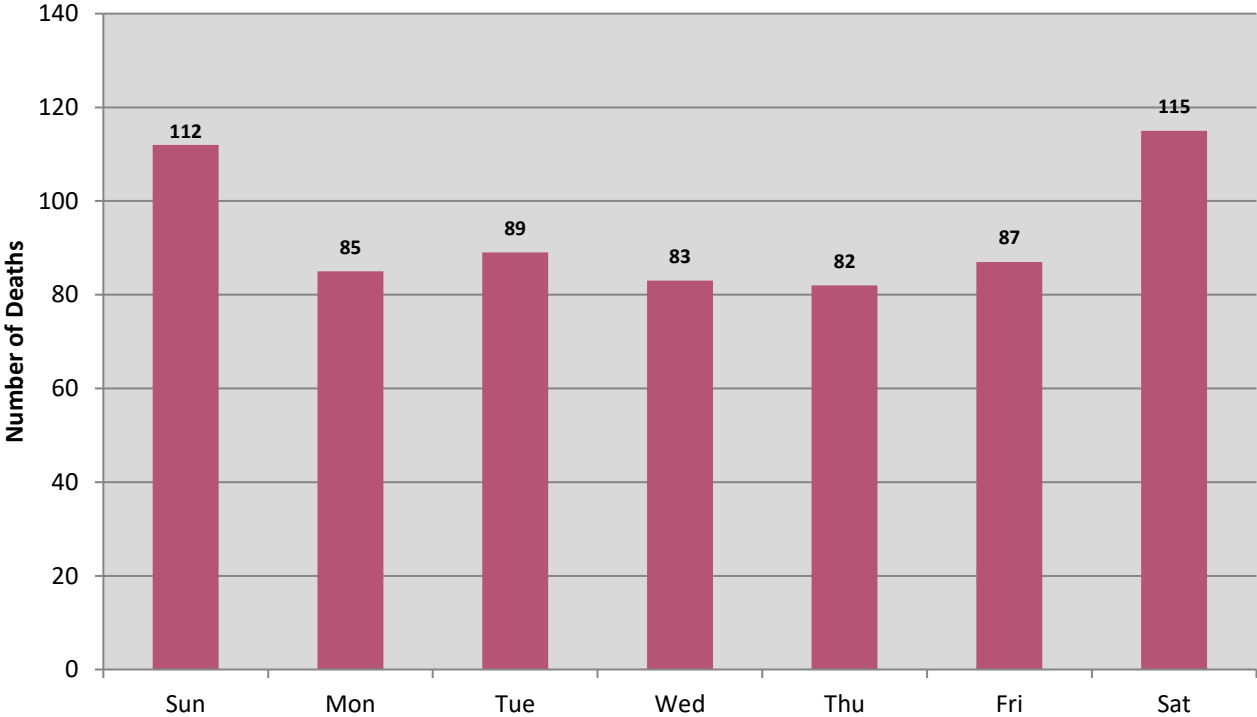


Table 2.6 Number and Rate of Homicide Deaths by Locality of Residence, 2022

Locality of Residence	Deaths	Rate
Accomack County	5	15.1
Albemarle County	2	1.7
Alexandria City	7	4.5
Alleghany County	3	20.2
Amelia County	1	7.4
Amherst County	0	0.0
Appomattox County	2	11.9
Arlington County	1	0.4
Augusta County	4	5.1
Bath County	0	0.0
Bedford County	5	6.2
Bland County	0	0.0
Botetourt County	1	2.9
Bristol City	1	5.9
Brunswick County	4	25.1
Buchanan County	1	5.2
Buckingham County	0	0.0
Buena Vista City	1	15.2
Campbell County	3	5.4
Caroline County	1	3.1
Carroll County	1	3.4
Charles City County	0	0.0
Charlotte County	1	8.7
Charlottesville City	2	4.4
Chesapeake City	29	11.5
Chesterfield County	29	7.7
Clarke County	0	0.0
Colonial Heights City	1	5.5
Covington City	1	17.6
Craig County	0	0.0
Culpeper County	3	5.5
Cumberland County	0	0.0
Danville City	12	28.4
Dickenson County	1	7.3
Dinwiddie County	9	32.0
Emporia City	3	54.7
Essex County	1	9.4
Fairfax City	1	4.0
Fairfax County	18	1.6
Falls Church City	0	0.0
Fauquier County	3	4.0
Floyd County	3	19.2
Fluvanna County	1	3.6

Locality of Residence	Deaths	Rate
Franklin City	0	0.0
Franklin County	2	3.6
Frederick County	2	2.1
Fredericksburg City	0	0.0
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	2	5.1
Goochland County	1	3.8
Grayson County	1	6.5
Greene County	1	4.7
Greensville County	0	0.0
Halifax County	8	23.8
Hampton City	23	16.7
Hanover County	3	2.7
Harrisonburg City	1	2.0
Henrico County	32	9.6
Henry County	8	16.0
Highland County	0	0.0
Hopewell City	4	17.4
Isle of Wight County	1	2.5
James City County	2	2.5
King and Queen County	0	0.0
King George County	0	0.0
King William County	1	5.4
Lancaster County	0	0.0
Lee County	1	4.5
Lexington City	0	0.0
Loudoun County	8	1.9
Louisa County	3	7.5
Lunenburg County	3	24.9
Lynchburg City	7	8.8
Madison County	1	7.1
Manassas	0	0.0
Manassas Park	0	0.0
Martinsville City	2	14.6
Mathews County	2	23.6
Mecklenburg County	1	3.3
Middlesex County	0	0.0
Montgomery County	3	3.0
Nelson County	0	0.0
New Kent County	1	4.0
Newport News City	32	17.4
Norfolk City	53	22.7

Locality of Residence	Deaths	Rate
Northampton County	2	16.8
Northumberland County	0	0.0
Norton City	3	83.1
Nottoway County	1	6.4
Orange County	2	5.3
Page County	2	8.4
Patrick County	1	5.7
Petersburg City	13	38.9
Pittsylvania County	4	6.7
Poquoson City	0	0.0
Portsmouth City	40	41.2
Powhatan County	2	6.4
Prince Edward County	5	22.8
Prince George County	2	4.6
Prince William County	19	3.9
Pulaski County	1	3.0
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	54	23.5
Richmond County	0	0.0
Roanoke City	20	20.4
Roanoke County	5	5.2
Rockbridge County	1	4.4
Rockingham County	3	3.5
Russell County	0	0.0
Salem City	0	0.0
Scott County	1	4.7

Locality of Residence	Deaths	Rate
Shenandoah County	2	4.4
Smyth County	0	0.0
Southampton County	1	5.6
Spotsylvania County	3	2.0
Stafford County	1	0.6
Staunton City	0	0.0
Suffolk City	14	14.2
Surry County	1	15.3
Sussex County	2	18.7
Tazewell County	0	0.0
Virginia Beach City	29	6.4
Warren County	0	0.0
Washington County	1	1.9
Waynesboro City	0	0.0
Westmoreland County	3	16.0
Williamsburg City	0	0.0
Winchester City	2	7.2
Wise County	2	5.6
Wythe County	1	3.6
York County	1	1.4
<i>Subtotal (in-state)</i>	614	7.1
Out of State	34	ND
Unknown	5	ND
<i>Subtotal (out-of-state)</i>	39	ND
TOTAL	653	7.5

Note: No denominator is represented by ND.

Table 2.7 Top 10 Localities with the Largest Number of Residential Homicides, 2022

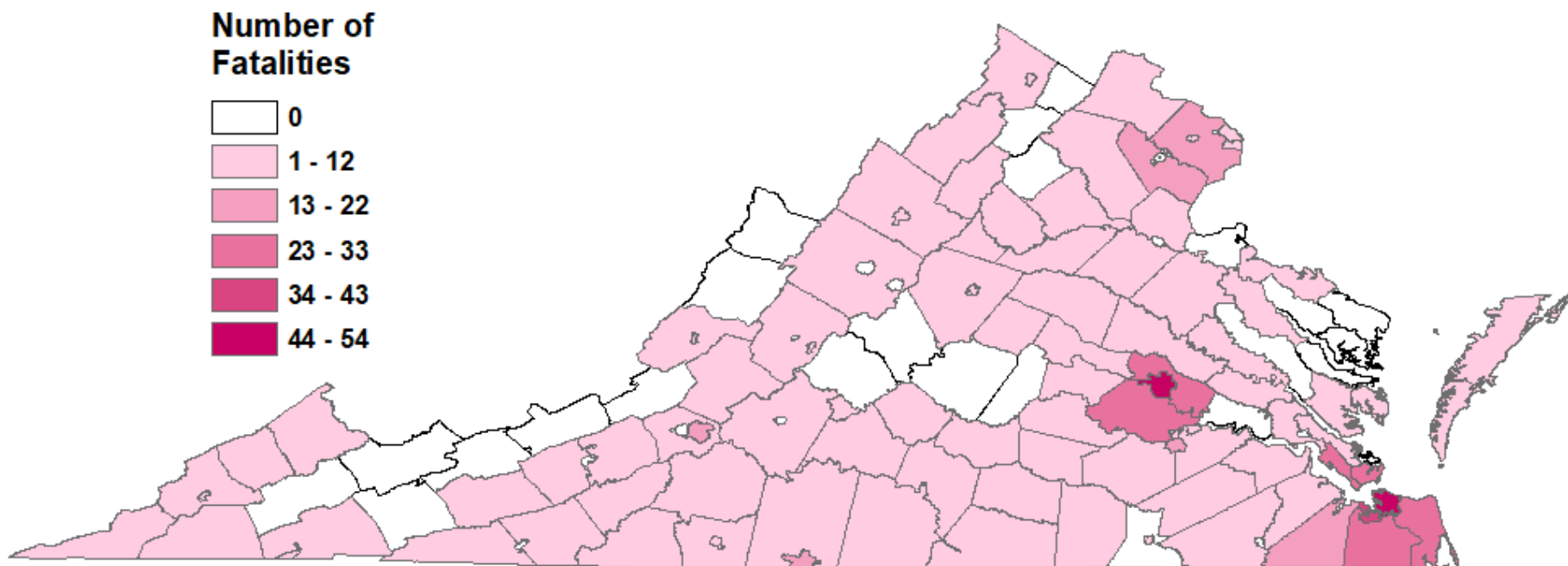
Rank #	Locality of Residence	Homicide #
1	Richmond City	54
2	Norfolk City	53
3	Portsmouth City	40
4	Out of State	34
5	Henrico County	32
7	Newport News City	32
	Chesapeake City	29
	Chesterfield County	29
10	Virginia Beach City	29
	Hampton City	23

Table 2.8 Top 10 Localities with the Highest Rate of Residential Homicides, 2022

Rank #	Locality of Residence	Homicide Rate
1	Norton City	83.1*
2	Emporia City	54.7*
3	Portsmouth City	41.2
4	Petersburg City	38.9
5	Dinwiddie County	32.0
6	Danville City	28.4
7	Brunswick County	25.1*
8	Lunenburg County	24.9*
9	Halifax County	23.8
10	Mathews County	23.6*

*Unstable rate based on small sample size (<5 deaths)

Map 2.1 Number of Homicides by Locality of Residence, 2022



Map 2.2 Homicide Rates by Locality of Residence, 2022

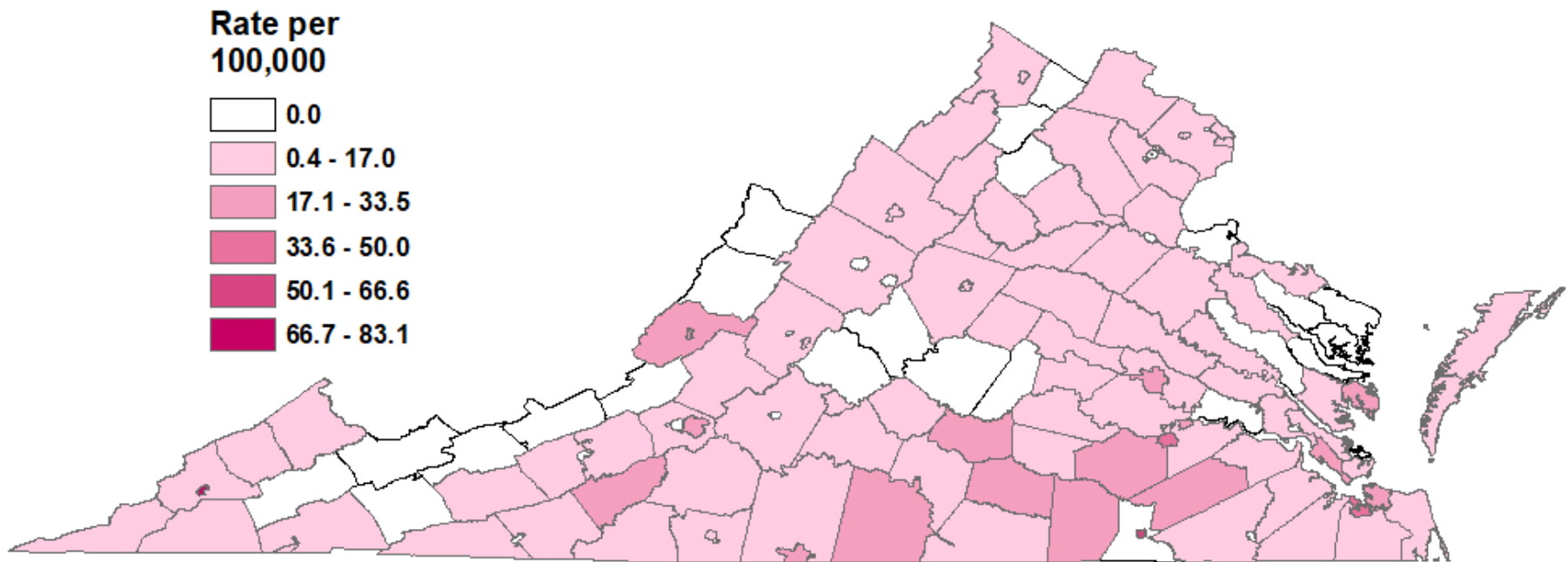


Table 2.9 Number and Rate of Homicide Deaths by Locality of Injury, 2022

Locality of Injury	Deaths	Rate
Accomack County	3	9.0
Albemarle County	4	3.5
Alexandria City	7	4.5
Alleghany County	0	0.0
Amelia County	1	7.4
Amherst County	1	3.2
Appomattox County	1	6.0
Arlington County	1	0.4
Augusta County	1	1.3
Bath County	0	0.0
Bedford County	4	4.9
Bland County	0	0.0
Botetourt County	1	2.9
Bristol City	2	11.8
Brunswick County	3	18.8
Buchanan County	1	5.2
Buckingham County	0	0.0
Buena Vista City	2	30.3
Campbell County	4	7.3
Caroline County	0	0.0
Carroll County	1	3.4
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	6	13.2
Chesapeake City	25	9.9
Chesterfield County	20	5.3
Clarke County	0	0.0
Colonial Heights City	1	5.5
Covington City	4	70.4
Craig County	0	0.0
Culpeper County	1	1.8
Cumberland County	1	10.3
Danville City	9	21.3
Dickenson County	0	0.0
Dinwiddie County	4	14.2
Emporia City	4	73.0
Essex County	1	9.4
Fairfax City	1	4.0
Fairfax County	24	2.1
Falls Church City	0	0.0
Fauquier County	3	4.0
Floyd County	2	12.8

Locality of Injury	Deaths	Rate
Fluvanna County	0	0.0
Franklin City	3	36.4
Franklin County	2	3.6
Frederick County	2	2.1
Fredericksburg City	0	0.0
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	2	5.1
Goochland County	1	3.8
Grayson County	1	6.5
Greene County	1	4.7
Greensville County	0	0.0
Halifax County	6	17.8
Hampton City	27	19.6
Hanover County	4	3.5
Harrisonburg City	1	2.0
Henrico County	30	9.0
Henry County	8	16.0
Highland County	0	0.0
Hopewell City	9	39.2
Isle of Wight County	1	2.5
James City County	1	1.2
King and Queen County	0	0.0
King George County	1	3.6
King William County	0	0.0
Lancaster County	0	0.0
Lee County	2	9.1
Lexington City	0	0.0
Loudoun County	7	1.6
Louisa County	3	7.5
Lunenburg County	1	8.3
Lynchburg City	8	10.1
Madison County	1	7.1
Manassas	0	0.0
Manassas Park	0	0.0
Martinsville City	1	7.3
Mathews County	2	23.6
Mecklenburg County	6	19.7
Middlesex County	0	0.0
Montgomery County	4	4.0
Nelson County	0	0.0
New Kent County	1	4.0

Locality of Injury	Deaths	Rate
Newport News City	27	14.6
Norfolk City	64	27.5
Northampton County	0	0.0
Northumberland County	2	16.3
Norton City	3	83.1
Nottoway County	2	12.9
Orange County	1	2.6
Page County	1	4.2
Patrick County	1	5.7
Petersburg City	21	62.9
Pittsylvania County	6	10.0
Poquoson City	0	0.0
Portsmouth City	40	41.2
Powhatan County	0	0.0
Prince Edward County	3	13.7
Prince George County	4	9.3
Prince William County	18	3.7
Pulaski County	1	3.0
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	64	27.9
Richmond County	0	0.0
Roanoke City	19	19.4
Roanoke County	5	5.2
Rockbridge County	1	4.4
Rockingham County	4	4.7
Russell County	0	0.0
Salem City	0	0.0
Scott County	2	9.3

Locality of Injury	Deaths	Rate
Shenandoah County	2	4.4
Smyth County	1	3.4
Southampton County	1	5.6
Spotsylvania County	2	1.4
Stafford County	4	2.4
Staunton City	1	3.9
Suffolk City	13	13.2
Surry County	0	0.0
Sussex County	2	18.7
Tazewell County	1	2.5
Virginia Beach City	20	4.4
Warren County	0	0.0
Washington County	1	1.9
Waynesboro City	0	0.0
Westmoreland County	1	5.3
Williamsburg City	0	0.0
Winchester City	1	3.6
Wise County	4	11.3
Wythe County	1	3.6
York County	1	1.4
<i>Subtotal (in-state)</i>	624	7.2
Out of State	14	ND
Unknown	15	ND
<i>Subtotal (out-of-state)</i>	29	ND
TOTAL	653	7.5

Note: No denominator is represented by ND.

Table 2.10 Top 10 Localities with the Largest Number of Homicides by Locality of Injury, 2022

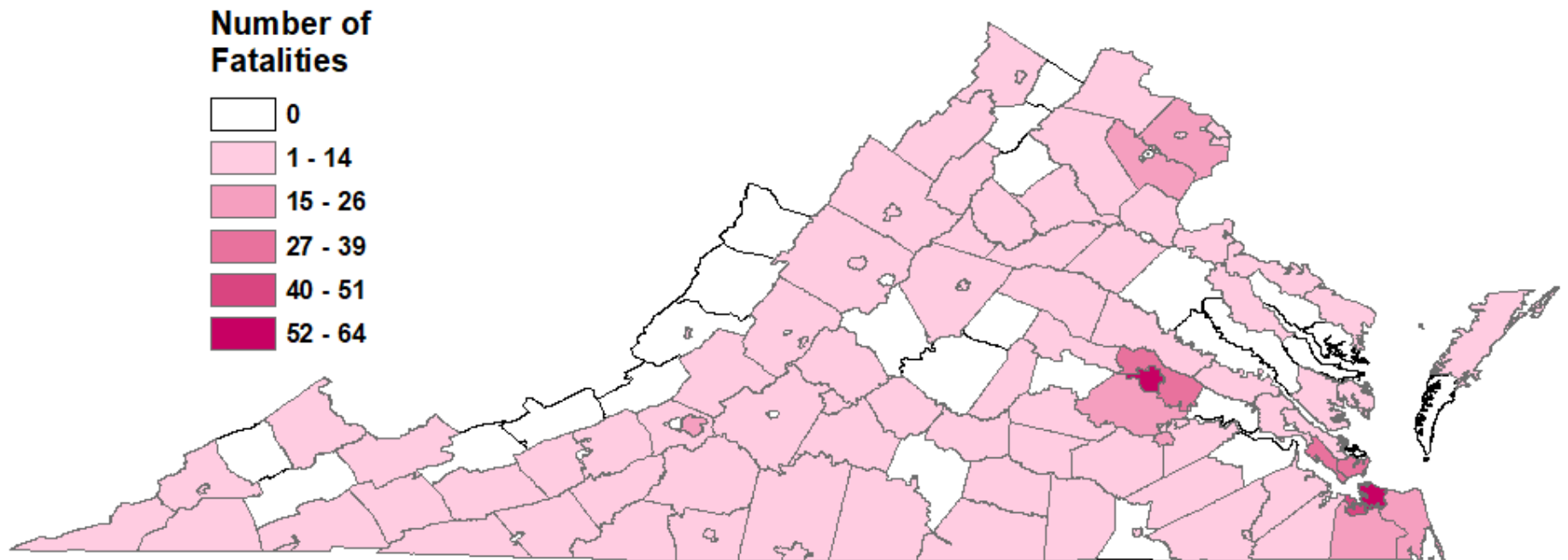
Rank #	Locality of Injury	Homicide #
1	Norfolk City	64
	Richmond City	64
3	Portsmouth City	40
4	Henrico County	30
5	Hampton City	27
	Newport News City	27
7	Chesapeake City	25
8	Fairfax County	24
9	Petersburg City	21
10	Chesterfield County	20

Table 2.11 Top 10 Localities with the Highest Rate of Homicide by Locality of Injury, 2022

Rank #	Locality of Injury	Homicide Rate
1	Norton City	83.1*
2	Emporia City	73.0*
3	Covington City	70.4*
4	Petersburg City	62.9
5	Portsmouth City	41.2
6	Hopewell City	39.2
7	Franklin City	36.4*
8	Buena Vista City	30.3*
9	Richmond City	27.9
10	Norfolk City	27.5

*Unstable rate based on small sample size (<5 deaths)

Map 2.3 Number of Homicides by Locality of Injury, 2022



Map 2.4 Homicide Rates by Locality of Injury, 2022

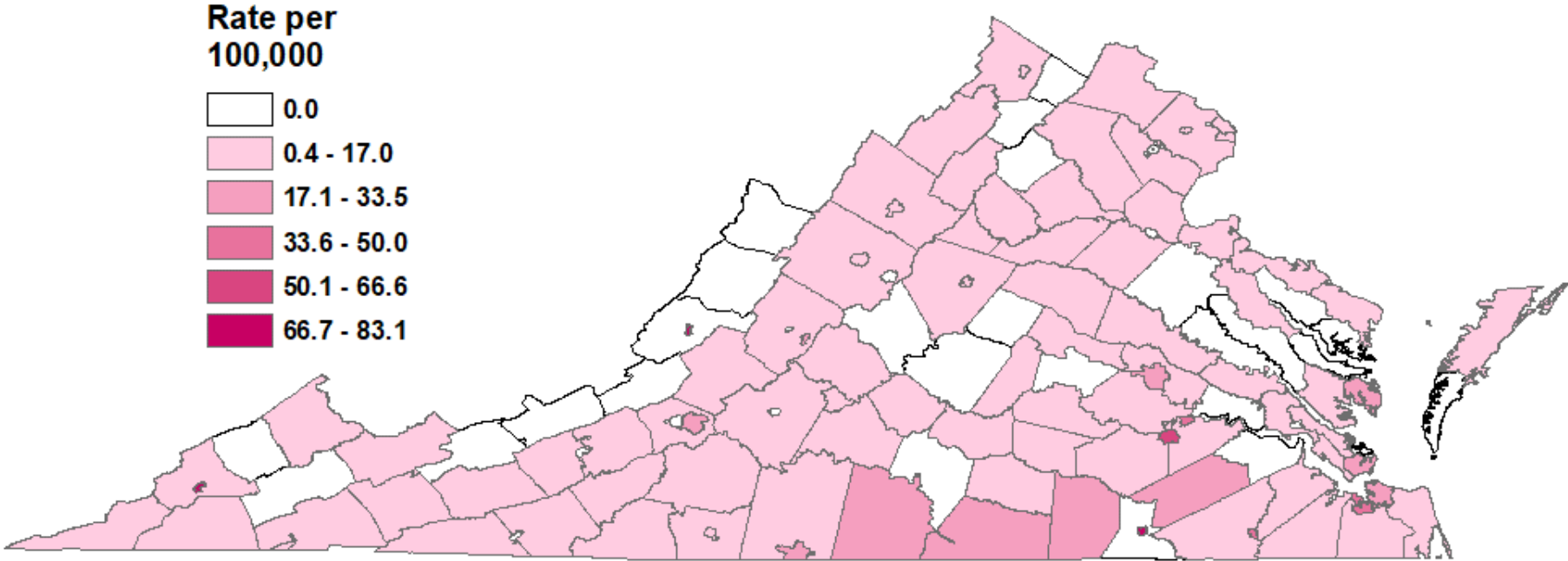


Table 2.12 Number of Homicide Deaths by Locality of Death and Year of Death, 2006-2022

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Accomack County	5	4	2	2	2	4	1	3	4	3	4	1	1	6	6	9	4	61
Albemarle County	1	0	1	0	3	0	3	2	2	1	0	4	1	1	5	2	4	30
Alexandria City	4	7	4	4	2	0	2	6	4	3	5	3	3	1	2	2	6	58
Alleghany County	0	3	1	0	2	2	1	2	0	0	0	0	0	0	1	0	0	12
Amelia County	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0	1	5
Amherst County	0	1	1	1	0	1	0	1	2	0	1	0	0	3	0	2	1	14
Appomattox County	0	1	1	0	7	1	0	0	1	3	0	0	0	0	1	1	1	17
Arlington County	3	3	4	2	0	0	5	0	1	2	0	3	3	3	3	1	2	35
Augusta County	3	1	1	1	3	3	2	0	4	1	4	1	2	0	1	2	1	30
Bath County	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
Bedford City	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bedford County	1	2	0	0	2	0	0	0	4	3	1	1	3	1	3	5	3	29
Bland County	0	0	0	1	1	0	0	0	0	0	0	0	0	0	3	0	0	5
Botetourt County	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	4
Bristol City	4	0	0	0	1	1	1	0	0	0	0	0	2	0	0	1	0	10
Brunswick County	3	1	2	0	0	0	1	0	0	0	0	0	0	0	1	1	2	11
Buchanan County	1	0	2	6	3	6	1	0	1	1	4	1	0	1	1	1	1	30
Buckingham County	1	1	0	0	0	1	0	0	2	0	1	1	0	0	1	1	0	9
Buena Vista City	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2
Campbell County	2	2	2	5	2	1	3	3	0	0	6	2	3	1	1	2	3	38
Caroline County	5	4	0	0	0	0	0	0	0	1	1	1	0	0	1	3	0	16
Carroll County	1	4	1	1	1	0	0	3	1	0	0	0	0	3	0	1	1	17
Charles City County	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	4
Charlotte County	0	0	1	1	0	1	1	1	0	2	2	0	1	0	0	0	0	10
Charlottesville City	5	6	12	3	5	3	4	5	8	4	4	10	5	5	6	3	9	97
Chesapeake City	7	7	7	10	9	10	9	8	8	11	11	6	6	7	10	18	16	160
Chesterfield County	5	6	8	3	6	11	9	9	9	8	6	11	2	10	9	10	18	140
Clarke County	0	0	1	1	0	0	0	0	0	0	1	1	0	1	0	0	0	5
Colonial Heights City	0	0	0	0	0	2	0	0	1	1	0	1	0	0	0	3	1	9
Covington City	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	4	7

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Craig County	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2	1	0	5
Culpeper County	1	1	0	0	0	3	1	2	6	1	4	2	1	0	2	2	1	27
Cumberland County	0	1	0	2	0	0	1	0	0	0	0	0	0	2	0	0	1	7
Danville City	5	5	8	10	7	7	5	5	3	6	15	14	13	6	4	9	11	133
Dickenson County	0	1	1	1	2	2	0	1	1	0	0	1	0	2	2	1	2	17
Dinwiddie County	5	1	1	0	2	0	3	4	0	2	2	0	1	0	1	2	4	28
Emporia City	1	2	2	1	2	1	1	0	1	2	0	2	1	1	2	1	3	23
Essex County	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	1	6
Fairfax City	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
Fairfax County	29	20	28	24	20	16	19	10	16	17	27	29	20	23	21	33	30	382
Falls Church City	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	0	0	4
Fauquier County	2	4	1	2	1	1	3	2	1	1	1	2	4	2	6	3	1	37
Floyd County	0	0	2	1	0	1	0	0	0	0	0	0	0	1	1	1	3	10
Fluvanna County	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	4
Franklin City	0	0	0	2	1	0	0	0	1	0	0	1	1	2	2	2	1	13
Franklin County	2	1	0	4	4	2	0	4	2	9	0	4	1	4	6	5	2	50
Frederick County	7	0	1	2	1	1	2	2	2	2	0	0	1	1	3	1	2	28
Fredericksburg City	0	2	3	4	3	3	3	4	1	7	4	4	4	5	4	6	1	58
Galax City	1	2	0	1	0	0	0	0	0	0	2	1	0	0	0	0	0	7
Giles County	1	0	0	0	0	0	0	0	1	0	0	0	1	0	3	1	0	7
Gloucester County	0	1	1	0	1	2	3	0	0	0	1	2	1	3	3	0	3	21
Goochland County	1	0	2	0	1	0	0	1	1	1	0	0	0	0	0	1	1	9
Grayson County	0	0	7	0	0	0	0	1	0	1	0	1	0	3	0	0	1	14
Greene County	0	1	0	0	0	3	0	0	0	0	0	0	0	1	1	0	1	7
Greensville County	5	0	5	4	3	2	0	2	0	1	0	3	0	0	1	1	0	27
Halifax County	1	3	5	0	2	2	0	0	0	1	3	2	4	4	4	6	6	43
Hampton City	14	6	4	7	9	3	7	20	7	11	12	13	11	15	20	24	18	201
Hanover County	2	0	1	0	2	2	5	0	1	3	2	2	3	0	0	1	3	27
Harrisonburg City	4	0	0	0	1	2	1	1	0	1	2	0	1	0	1	2	1	17
Henrico County	10	6	15	7	9	9	9	6	6	9	14	18	7	7	11	17	15	175
Henry County	7	3	3	5	6	4	5	1	3	2	2	0	3	1	7	3	5	60

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Highland County	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Hopewell City	4	2	4	2	2	1	2	2	5	3	5	2	6	4	5	3	9	61
Isle of Wight County	1	0	0	1	0	1	2	1	1	1	0	2	0	1	1	0	1	13
James City County	1	0	1	0	0	1	1	2	0	2	2	1	0	1	3	3	1	19
King and Queen County	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	3
King George County	0	0	0	1	0	0	0	0	1	1	0	0	1	0	1	1	1	7
King William County	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
Lancaster County	2	0	1	0	2	1	1	0	0	0	0	0	0	0	2	0	0	9
Lee County	0	1	2	1	4	4	0	2	0	0	0	0	1	2	0	2	2	21
Lexington City	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Loudoun County	4	1	3	4	1	2	2	5	4	2	4	4	4	0	2	3	6	51
Louisa County	0	4	1	1	3	0	1	0	1	0	3	2	0	3	0	1	3	23
Lunenburg County	1	1	2	1	0	0	0	1	0	0	1	1	0	2	1	0	2	13
Lynchburg City	2	1	5	0	4	5	3	1	8	4	3	5	7	4	5	8	10	75
Madison County	0	0	1	0	1	3	1	1	0	1	0	1	0	0	1	1	1	12
Manassas	1	2	5	2	0	3	1	1	2	0	1	2	2	2	1	1	0	26
Manassas Park	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Martinsville City	0	2	3	0	4	3	1	2	2	3	1	3	1	3	2	3	2	35
Mathews County	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2	5
Mecklenburg County	0	1	4	3	2	1	0	2	1	1	3	1	2	2	4	1	6	34
Middlesex County	1	0	0	0	0	1	0	1	2	0	0	1	1	0	0	0	0	7
Montgomery County	3	31	2	8	2	1	0	2	2	2	0	2	1	0	1	2	4	63
Nelson County	0	1	0	1	1	1	0	1	0	0	0	1	1	1	1	0	0	9
New Kent County	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	4
Newport News City	20	31	23	31	30	21	29	18	26	31	43	32	34	27	33	42	37	508
Norfolk City	34	75	41	63	47	40	56	38	48	48	64	50	51	48	71	92	98	964
Northampton County	2	3	0	0	2	1	1	4	0	3	3	0	0	0	1	0	1	21
Northumberland County	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2	5
Norton City	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	4

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Nottoway County	0	1	0	0	0	0	2	0	1	0	2	0	1	1	2	0	2	12
Orange County	2	0	1	0	1	0	1	0	2	0	0	0	2	0	0	2	0	11
Page County	1	0	0	0	1	0	1	0	3	0	0	0	0	0	0	3	1	10
Patrick County	0	1	0	0	0	0	0	0	1	2	0	0	3	0	1	0	1	9
Petersburg City	10	8	4	11	11	8	5	6	12	18	9	10	14	19	21	19	21	206
Pittsylvania County	2	3	3	2	4	4	1	0	2	0	3	1	3	10	3	3	3	47
Poquoson City	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Portsmouth City	18	11	14	16	13	13	8	7	7	23	9	13	17	16	21	21	31	258
Powhatan County	0	0	3	1	1	3	0	0	0	1	1	1	0	0	0	0	0	11
Prince Edward County	0	1	1	7	1	1	1	3	0	0	0	4	0	2	0	1	3	25
Prince George County	0	0	0	1	2	0	0	1	1	0	0	2	1	0	2	3	3	16
Prince William County	12	11	10	9	8	7	1	5	4	9	15	5	8	12	8	10	17	151
Pulaski County	1	0	2	1	2	0	1	1	4	0	2	2	0	1	0	3	1	21
Radford City	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	4
Rappahannock County	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	3
Richmond City	85	76	47	58	56	50	55	56	55	55	82	96	72	80	94	123	89	1229
Richmond County	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	3
Roanoke City	13	12	23	14	14	15	12	18	7	17	19	28	21	19	24	26	30	312
Roanoke County	1	2	0	1	4	0	1	0	1	0	2	0	6	1	2	1	1	23
Rockbridge County	0	1	0	0	1	1	0	0	0	1	0	3	1	1	0	1	1	11
Rockingham County	1	1	1	2	0	1	0	0	4	0	0	2	2	2	4	3	4	27
Russell County	2	0	1	1	0	2	0	2	3	0	0	1	0	0	1	1	0	14
Salem City	0	1	1	0	1	0	1	0	0	1	1	0	0	0	0	0	0	6
Scott County	0	2	1	0	1	1	1	0	0	0	2	0	2	1	2	0	2	15
Shenandoah County	0	0	0	1	0	0	1	1	3	0	1	0	2	3	0	1	1	14
Smyth County	0	0	1	0	0	2	1	0	0	0	2	2	1	0	4	1	1	15
Southampton County	1	3	0	2	1	0	0	0	0	0	3	0	1	1	0	0	1	13
Spotsylvania County	4	4	0	3	5	2	1	3	1	1	2	2	1	4	5	7	2	47

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	TOTAL
Stafford County	1	2	3	4	1	2	1	3	1	4	5	2	3	4	1	3	3	43
Staunton City	0	0	1	2	0	0	0	1	1	1	0	0	0	0	1	0	0	7
Suffolk City	8	2	5	5	3	3	2	6	2	2	5	1	2	7	3	4	13	73
Surry County	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
Sussex County	1	0	1	0	0	0	1	2	0	0	0	2	4	1	1	0	2	15
Tazewell County	0	3	2	5	3	0	2	0	1	1	1	1	0	0	1	1	0	21
Virginia Beach City	20	16	18	16	13	14	14	17	17	18	19	13	20	30	21	12	17	295
Warren County	2	0	0	1	0	0	0	0	1	1	0	3	0	1	0	0	0	9
Washington County	0	0	2	1	2	2	1	2	4	0	0	6	3	2	5	2	1	33
Waynesboro City	0	1	0	0	1	0	0	0	0	0	1	0	1	2	2	0	0	8
Westmoreland County	2	1	1	0	0	0	1	0	0	2	0	1	0	0	1	0	1	10
Williamsburg City	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Winchester City	2	2	2	0	0	2	1	1	1	2	0	1	1	2	4	2	3	26
Wise County	0	2	0	2	0	0	4	0	2	2	2	1	4	0	2	3	1	25
Wythe County	1	0	2	0	0	1	0	0	0	0	0	2	2	3	3	0	1	15
York County	3	1	1	0	0	3	0	4	4	1	2	1	3	1	4	0	1	29
<i>Subtotal (in-state)</i>	<i>422</i>	<i>439</i>	<i>397</i>	<i>408</i>	<i>388</i>	<i>341</i>	<i>337</i>	<i>338</i>	<i>354</i>	<i>387</i>	<i>470</i>	<i>468</i>	<i>427</i>	<i>458</i>	<i>546</i>	<i>612</i>	<i>648</i>	7440
Out of State	1	1	2	3	3	4	7	1	4	2	7	1	3	3	3	1	5	51
Unknown	4	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	6
<i>Subtotal (out-of-state)</i>	<i>5</i>	<i>1</i>	<i>2</i>	<i>4</i>	<i>3</i>	<i>4</i>	<i>7</i>	<i>1</i>	<i>5</i>	<i>2</i>	<i>7</i>	<i>1</i>	<i>3</i>	<i>3</i>	<i>3</i>	<i>1</i>	<i>5</i>	57
TOTAL	427	440	399	412	391	345	344	339	359	389	477	469	430	461	549	613	653	7497

Note: Bedford City was incorporated into Bedford County in 2014 and therefore numbers are combined from there forward

NATURAL DEATHS (N=2,477)

Most natural deaths that occur in Virginia do not fall under the jurisdiction of the OCME. Natural deaths enter the medical examiner system as deaths that are sudden, unexpected, or suspicious, which upon examination and investigation are then established as natural. Natural deaths may also fall under the OCME’s jurisdiction when the decedent does not have a primary care physician to certify their deaths, the decedent dies while in-custody, or the decedent is a patient of a state mental health facility.

- Natural deaths accounted for 25.6% of all deaths investigated by the OCME in 2022
- The number of natural deaths accepted by OCME increased slightly in 2022 compared with 2021 (an increase of 56 deaths or 2.3%).

Figure 2.19 Number and Rate of Natural Deaths Investigated by the OCME by Year of Death, 1999-2022

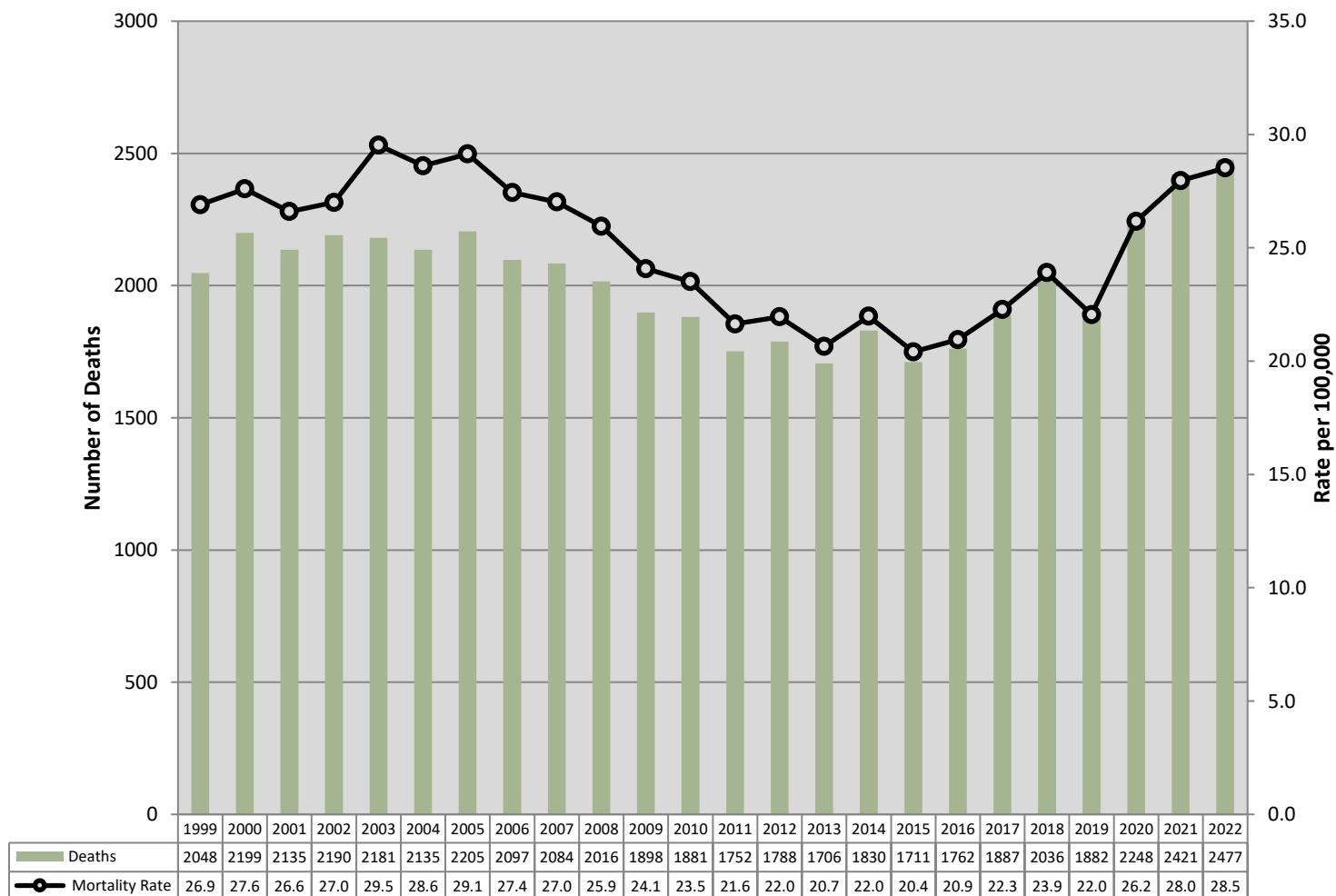


Figure 2.20 Number of Natural Deaths Investigated by the OCME by Age Group and Gender, 2022

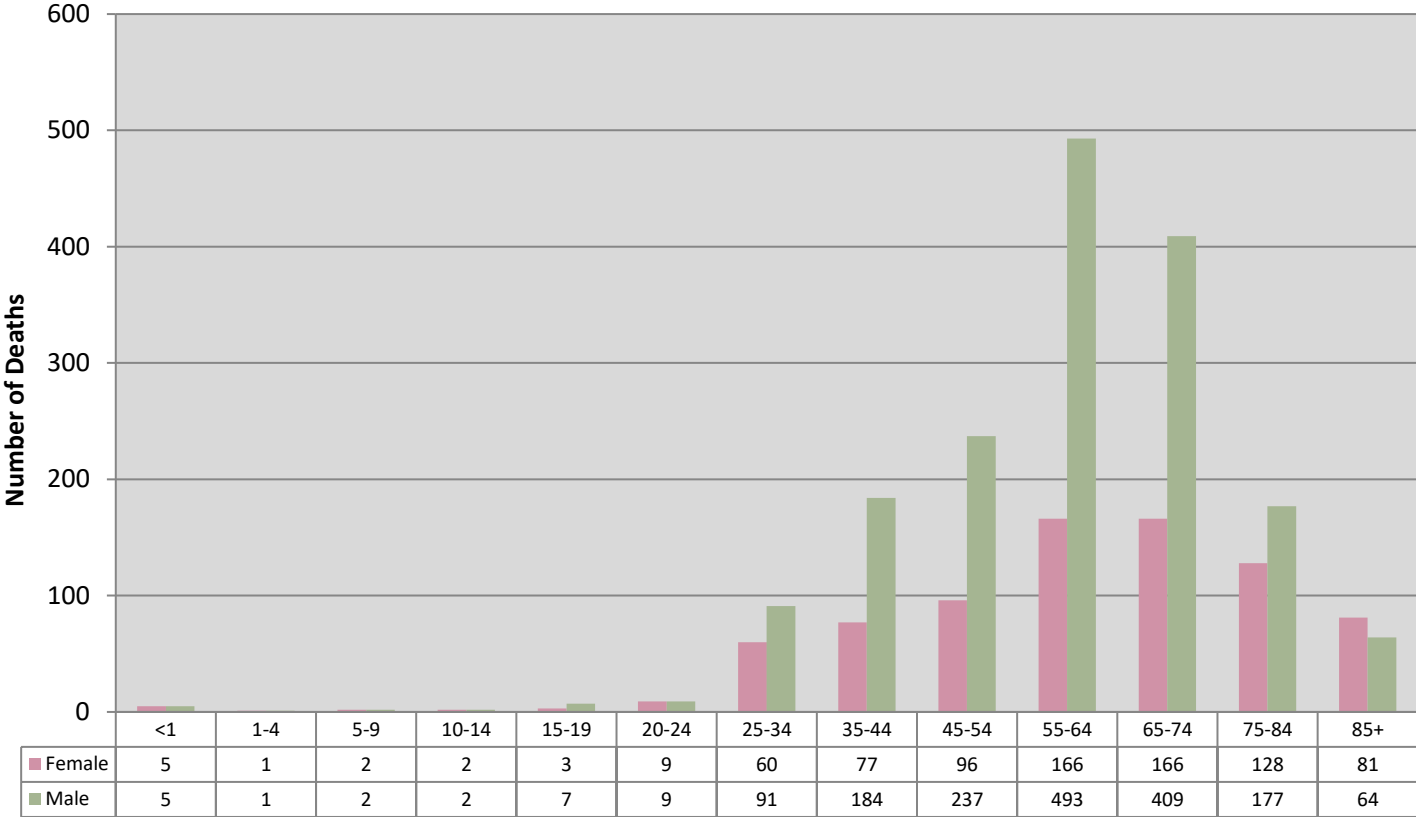


Table 2.13 Number of Natural Deaths Investigated by the OCME by Cause and Method of Death, 2022

Method and Cause of Death	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	41	764
Hypertension	42	262
Atherosclerosis and Hypertension	77	190
Congenital Defect	2	2
Vascular Dissection/Rupture	3	3
Valvular	1	4
Acute Coronary Insufficiency	18	399
Cardiac Arrhythmia (not otherwise specified)	26	40
Cardiomyopathy (not otherwise specified)	9	21
Other Cardiac Disease/Disorder	7	13
Central Nervous System Diseases/Disorders		
Seizure Disorder	8	24
Vascular Disease	7	30
Degenerative Disease	5	15
CNS Malignancy	2	2
Other CNS Disease/Disorder	7	12
Gastrointestinal Diseases/Disorders		
GI Hemorrhage	4	25
Cirrhosis	6	12
Hepatitis	1	2
GI Malignancy	3	18
Other GI Disease/Disorder	10	20
Genitourinal Diseases/Disorders		
Renal Disease	2	8
Genitourinal Malignancy	5	7
Other Genitourinal Disease/Disorder	3	3
Other Natural Diseases/Disorders		
Other Malignancy	5	10
Other Natural Death/Disease	7	18
Perinatal and Pediatric Diseases/Disorders		
Maternal Complications	3	3
Fetal Complications	1	1
Pulmonary Disease/Disorders		
Asthma	5	8
COPD	4	37
Emboli	16	28
Pneumonia	21	54
Pulmonary Malignancy	3	12

Other Pulmonary Disease/Disorder	7	21
Systemic Diseases/Disorders		
Blood Disorder	3	3
Diabetes	11	88
HIV/AIDS	1	2
Sepsis	7	14
Other Infectious Disease	4	40
Metastatic Malignancy of Unknown Primary	2	4
Obesity	3	16
Chronic Alcoholism	37	193
Chronic Drug Abuse	3	21
Other Systemic Disease/Disorder	13	20
Complications of Dementia (Including Inanition)	3	7
Anaphylaxis	0	1
TOTAL NATURAL DEATHS	448	2477

SUICIDE DEATHS (N=1,211)

In general, suicide deaths have been slowly increasing over the last two decades. The number of suicide deaths in 2022 compared to 2021 was nearly identical (1,211 deaths and 1,200 deaths, respectively). The largest number of victims were male (80.0%), White (76.3%), and aged 25-34 years of age (17.4%). Males 85+ years of age and older as well as white males had the highest rates of suicide compared to other groups within the total population (67.8 and 28.6 per 100,000 persons, respectively).

- Whites committed suicide at a rate 4.3 times that of Hispanics, 3.0 times that of Asians, and 1.8 times that of Black populations
- Males were 4.1 times more likely to commit suicide than females
- Firearms (specifically handguns), hangings, and drug use were the three most commonly used methods in suicides, with these deaths representing 60.9%, 21.9%, and 8.6% of all suicides, respectively

Figure 2.21 Number and Rate of Suicide Deaths by Year of Death, 1999-2022

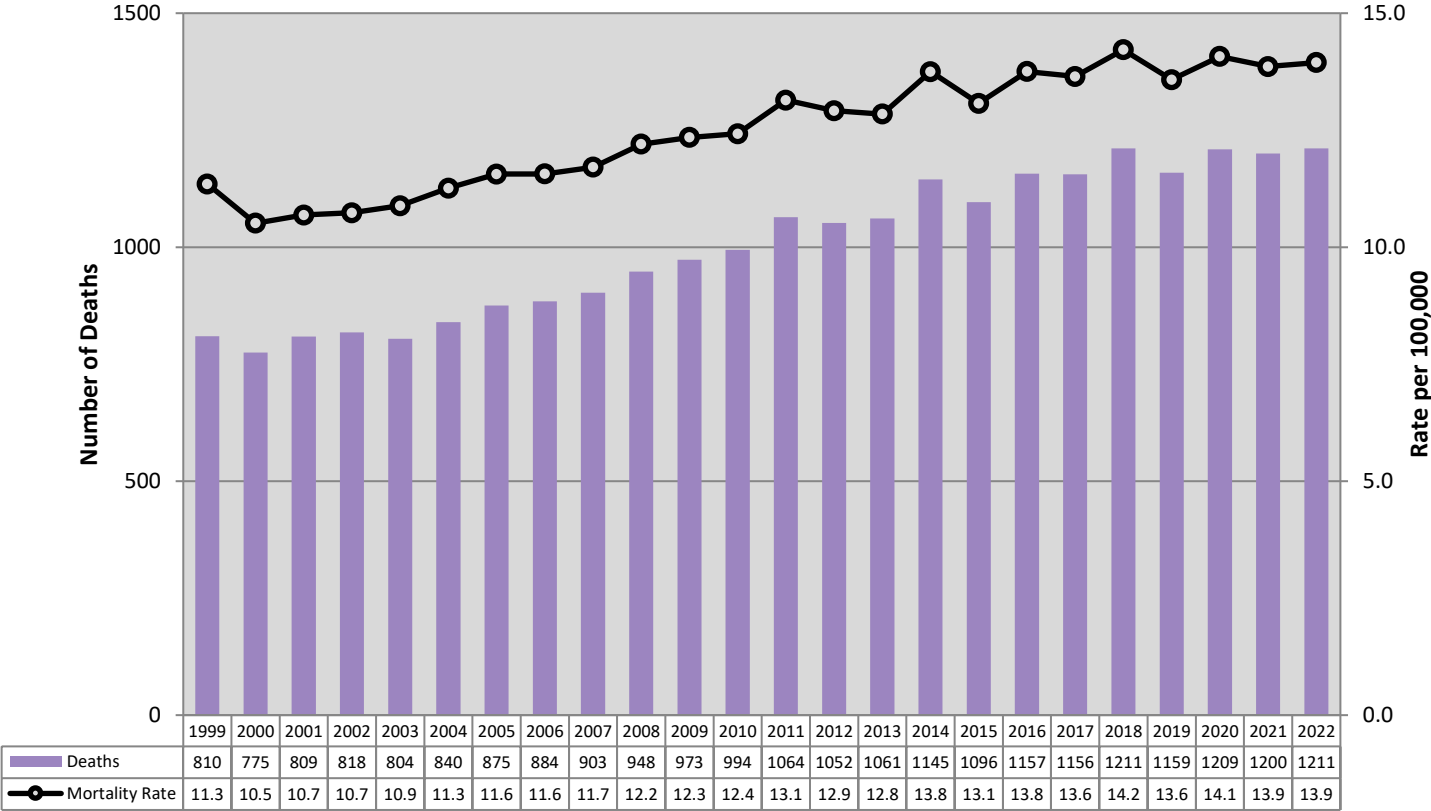


Figure 2.22 Number and Rate of Suicide Deaths by Age Group and Gender, 2022

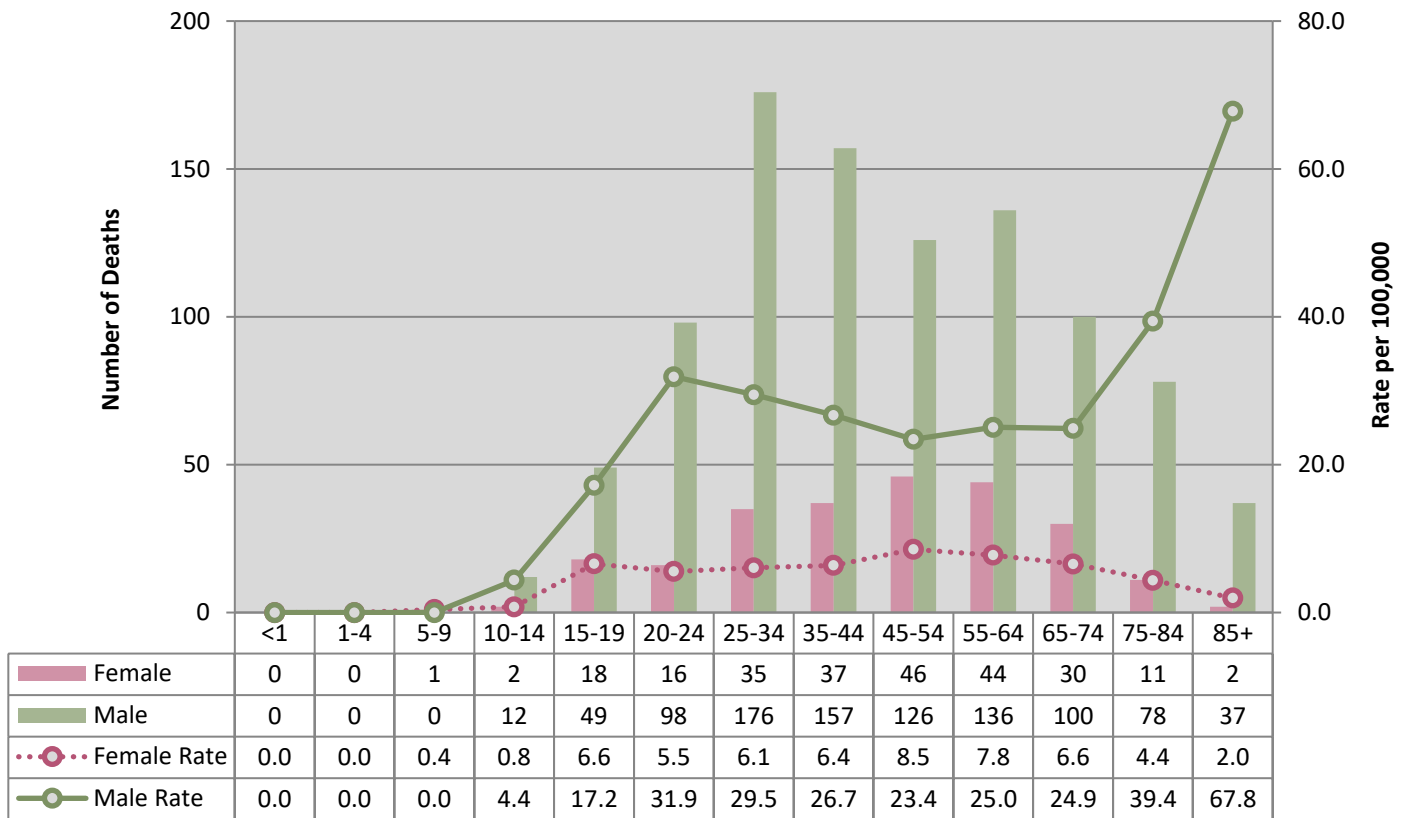


Figure 2.23 Percentage of Suicide Deaths by Race/Ethnicity, 2022

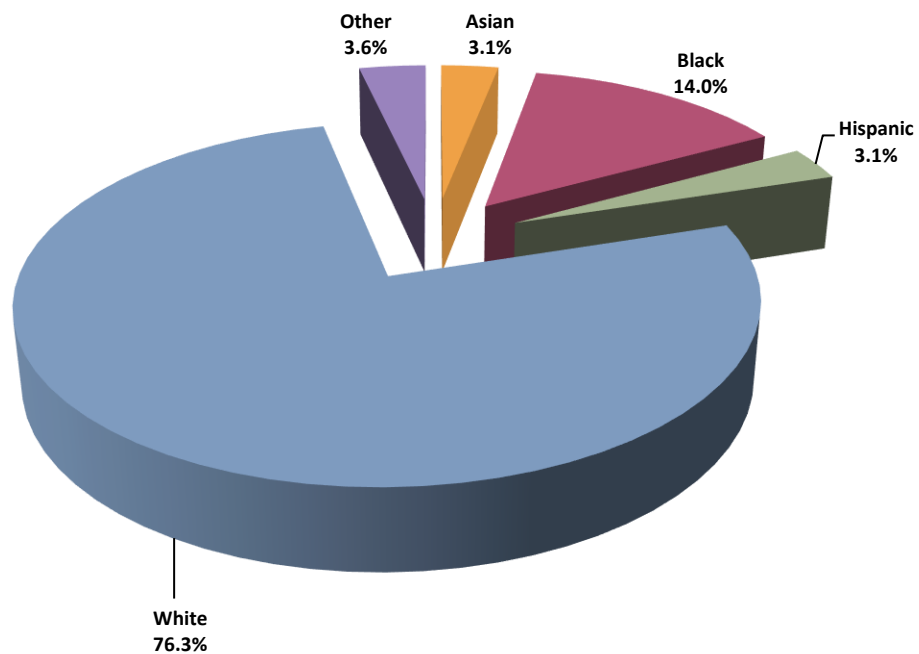
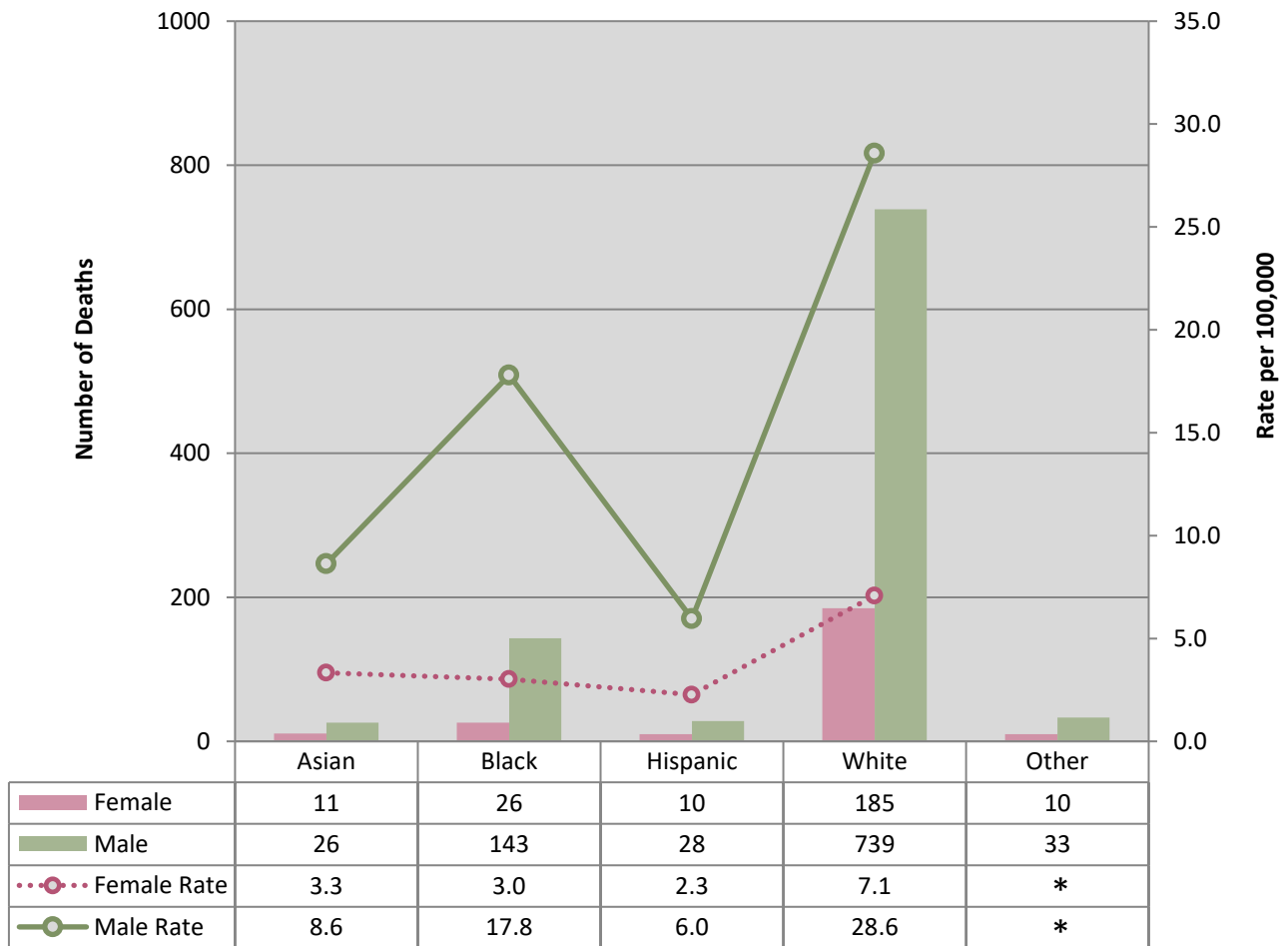


Figure 2.24 Number and Rate of Suicide Deaths by Race/Ethnicity and Gender, 2022



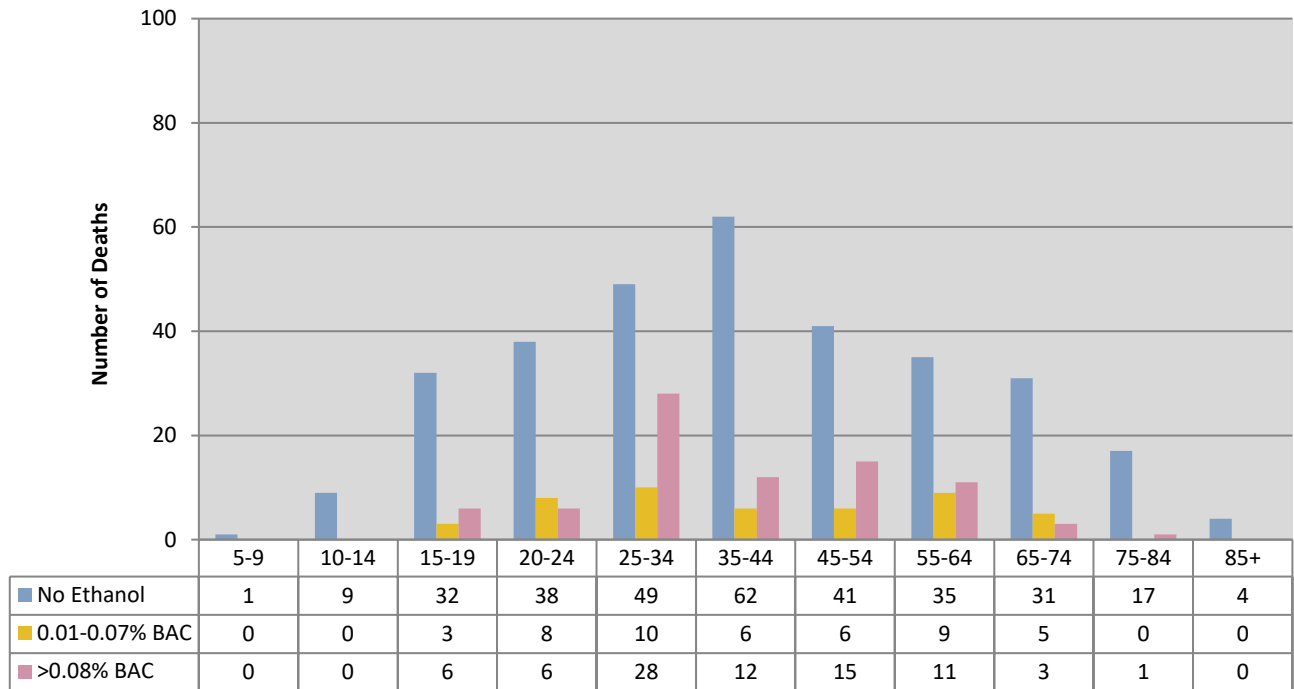
*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution

Table 2.14 Number of Suicide Deaths by Cause and Method of Death, 2022

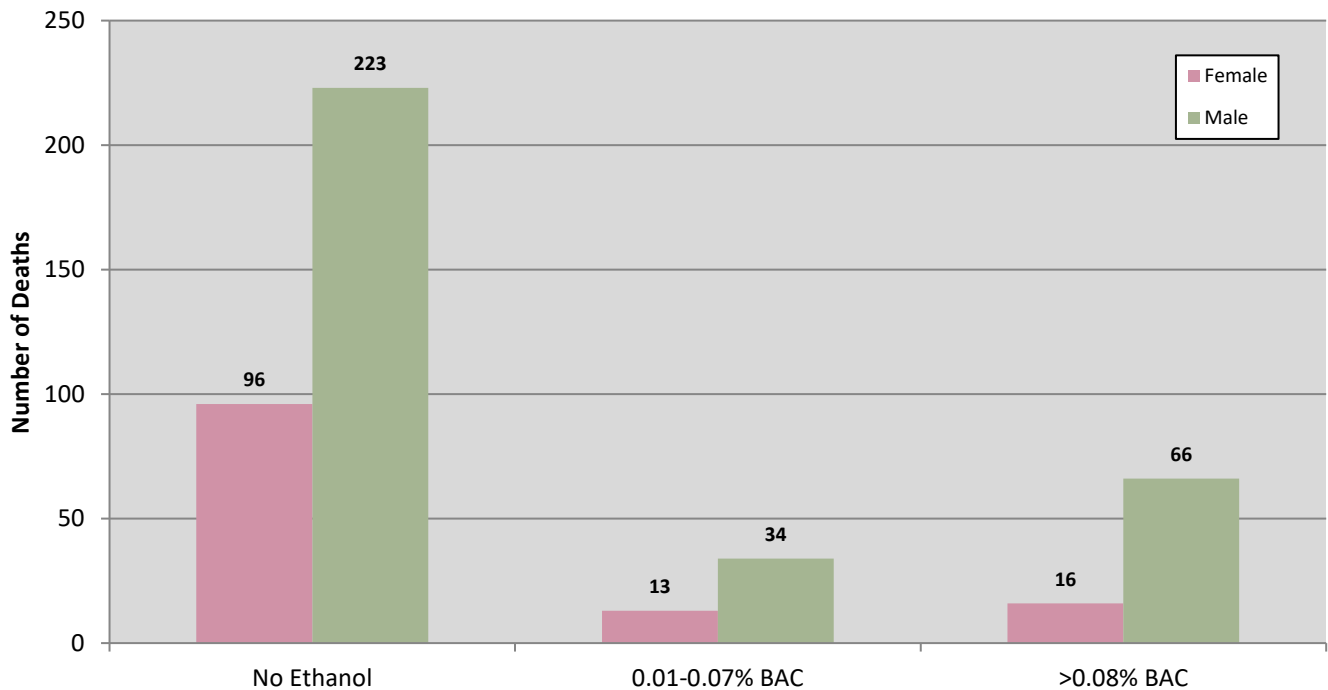
Method of Death	Autopsied	Total Cases
Asphyxia		
Carbon monoxide (CO) poisoning-motor vehicle exhaust	0	4
Carbon monoxide (CO) poisoning-other	0	2
Drowned	6	7
Hanged	41	262
Oxygen depletion or replacement	1	7
Plastic bag asphyxia	0	9
Strangled/Neck compression	2	5
Suffocated/Smothered	0	4
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	18	104
Fire		
Thermal and/or inhalational Injuries	1	4
Jump/Fall		
Jumped/Fell from height	6	30
Traumatic Injury		
Cut/Stabbed self	9	23
Gunshot wound		
Handgun	513	623
Multiple	1	1
Other	1	2
Rifle	25	32
Shotgun	58	62
Unknown	15	17
Other traumatic injury	1	1
Vehicular		
Bus	0	1
Car	1	3
Motorcycle	0	1
Pickup Truck	0	1
Sport Utility Vehicle	0	1
Tractor Trailer	0	1
Train	0	4
TOTAL SUICIDE DEATHS	699	1211

Figure 2.25 Number of Suicide Deaths by Age Group and Ethanol Level (N=448), 2022



Note: Of the 1,211 suicides, 63.0 % (n=763) did not receive toxicology testing

Figure 2.26 Number of Suicide Deaths by Gender and Ethanol Level (N=448), 2022



Note: Of the 1,211 suicides, 63.0 % (n=763) did not receive toxicology testing

Table 2.15 Number of Suicide Deaths by Method of Death and Ethanol Level (N=448), 2022

Method of Death	No Ethanol	0.01-0.07% BAC	>0.08% BAC	Total
Asphyxia				
Carbon monoxide (CO) poisoning-motor vehicle exhaust	3	1	0	4
Carbon monoxide (CO) poisoning-other	2	0	0	2
Drowned	5	0	0	5
Hanged	60	5	10	75
Oxygen depletion or replacement	3	0	1	4
Plastic bag asphyxia	5	1	0	6
Strangled/Neck compression	2	0	0	2
Suffocated/Smothered	4	0	0	4
Drug Use				0
Ingested and/or injected illicit, prescription, and/or other type of drug	72	16	10	98
Fire				0
Thermal and/or inhalational Injuries	1	3	0	4
Jump/Fall				0
Jumped/Fell from height	14	3	1	18
Traumatic Injury				0
Cut/Stabbed self	8	1	4	13
Gunshot wound				0
Handgun	104	17	46	167
Multiple	0	0	0	0
Other	0	0	0	0
Rifle	7	0	4	11
Shotgun	13	0	3	16
Unknown	5	0	2	7
Other traumatic injury	1	0	0	1
Vehicular				0
Bus	1	0	0	1
Car	2	0	1	3
Motorcycle	1	0	0	1
Pickup Truck	1	0	0	1
Sport Utility Vehicle	1	0	0	1
Tractor Trailer	1	0	0	1
Train	3	0	0	3
TOTAL SUICIDE DEATHS	319	47	82	448

Note: Of the 1,211 suicides, 63.0 % (n=763) did not receive toxicology testing

Figure 2.27 Number of Suicide Deaths by Month of Death, 2022

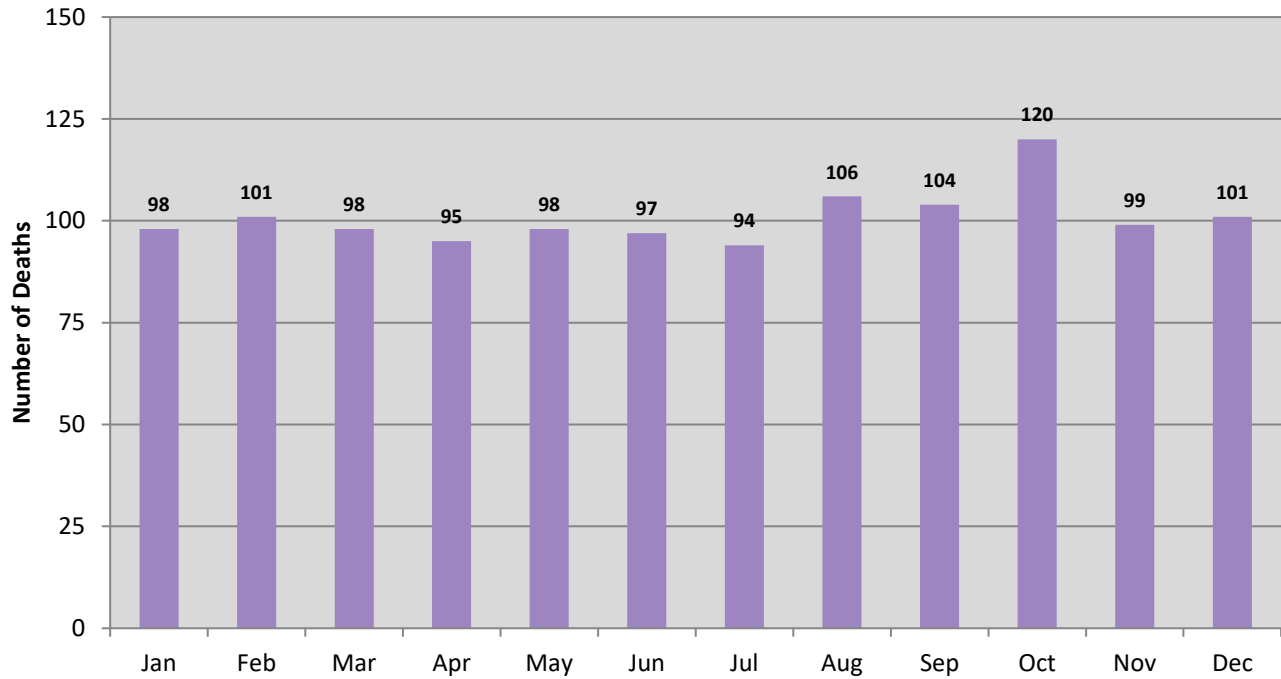


Figure 2.28 Number of Suicide Deaths by Day of the Week, 2022

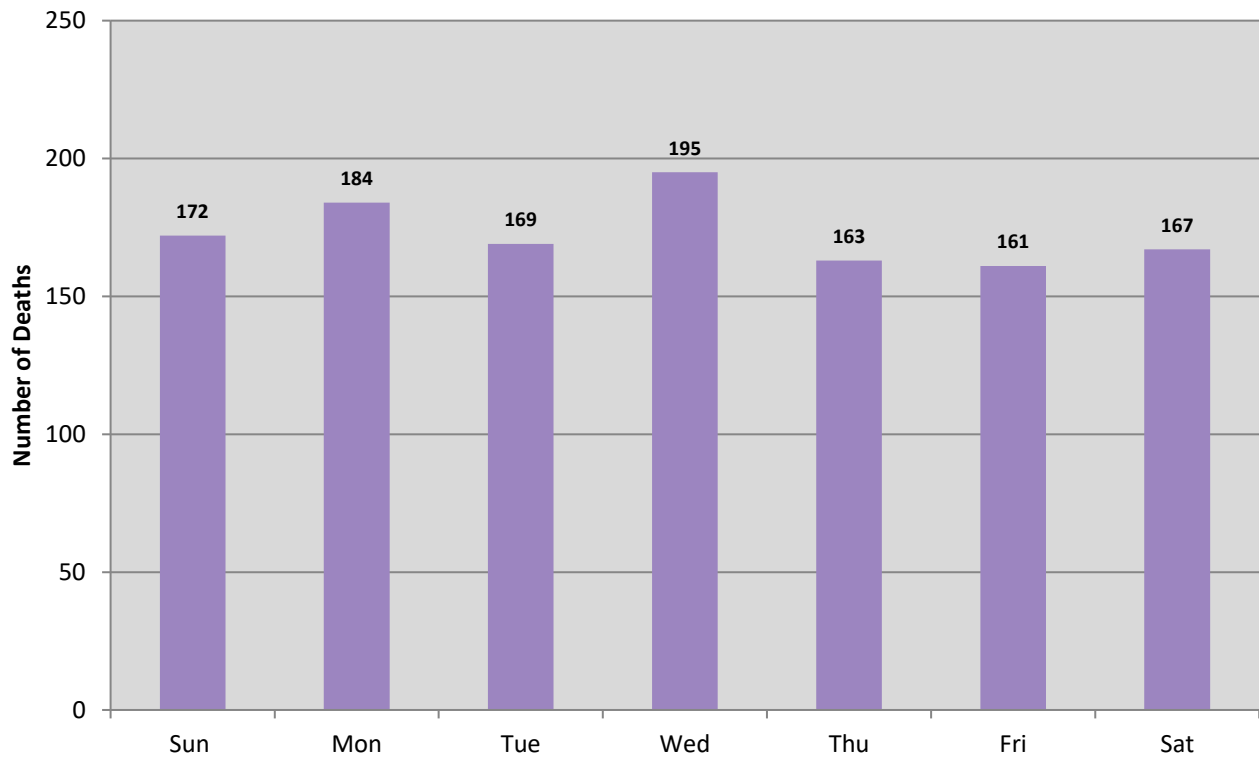


Table 2.16 Number and Rate of Suicide Deaths by Locality of Residence, 2022

Locality of Residence	Deaths	Rate
Accomack County	7	21.1
Albemarle County	11	9.6
Alexandria City	10	6.4
Alleghany County	5	33.7
Amelia County	2	14.9
Amherst County	9	28.5
Appomattox County	2	11.9
Arlington County	15	6.4
Augusta County	17	21.8
Bath County	1	24.7
Bedford County	17	21.0
Bland County	0	0.0
Botetourt County	8	23.4
Bristol City	2	11.8
Brunswick County	3	18.8
Buchanan County	2	10.3
Buckingham County	3	17.7
Buena Vista City	1	15.2
Campbell County	9	16.3
Caroline County	6	18.8
Carroll County	6	20.6
Charles City County	0	0.0
Charlotte County	2	17.4
Charlottesville City	5	11.0
Chesapeake City	29	11.5
Chesterfield County	48	12.7
Clarke County	2	13.1
Colonial Heights City	0	0.0
Covington City	1	17.6
Craig County	0	0.0
Culpeper County	12	22.1
Cumberland County	2	20.5
Danville City	5	11.8
Dickenson County	4	29.1
Dinwiddie County	5	17.8
Emporia City	0	0.0
Essex County	2	18.8
Fairfax City	1	4.0
Fairfax County	105	9.2
Falls Church City	2	13.7
Fauquier County	12	16.1
Floyd County	6	38.4
Fluvanna County	1	3.6

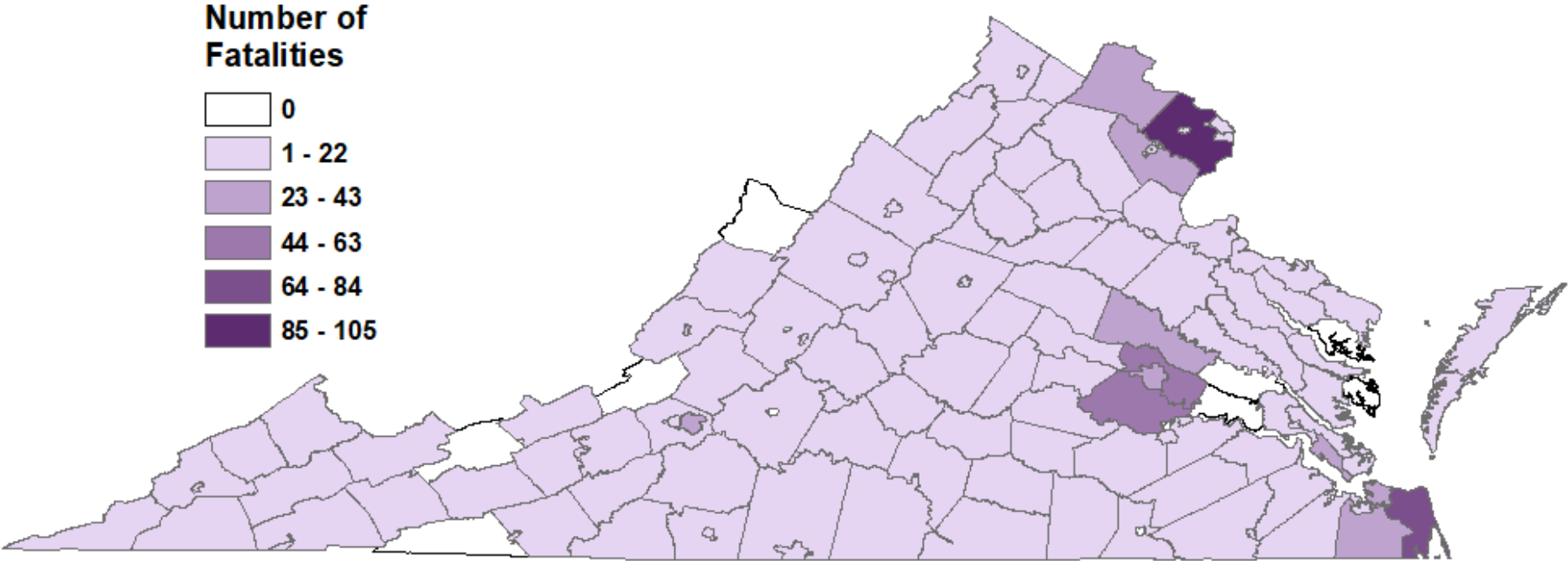
Locality of Residence	Deaths	Rate
Franklin City	1	12.1
Franklin County	7	12.7
Frederick County	6	6.3
Fredericksburg City	6	20.9
Galax City	2	29.7
Giles County	3	18.2
Gloucester County	3	7.6
Goochland County	4	15.3
Grayson County	0	0.0
Greene County	5	23.7
Greensville County	3	26.7
Halifax County	8	23.8
Hampton City	21	15.2
Hanover County	24	21.3
Harrisonburg City	4	7.8
Henrico County	45	13.5
Henry County	7	14.0
Highland County	0	0.0
Hopewell City	6	26.1
Isle of Wight County	7	17.4
James City County	9	11.1
King and Queen County	1	14.9
King George County	6	21.5
King William County	5	27.0
Lancaster County	0	0.0
Lee County	8	36.4
Lexington City	0	0.0
Loudoun County	28	6.5
Louisa County	10	24.9
Lunenburg County	1	8.3
Lynchburg City	10	12.6
Madison County	3	21.4
Manassas City	5	11.7
Manassas Park	2	12.0
Martinsville City	1	7.3
Mathews County	0	0.0
Mecklenburg County	5	16.4
Middlesex County	4	36.6
Montgomery County	11	11.1
Nelson County	3	20.5
New Kent County	0	0.0
Newport News City	33	17.9
Norfolk City	35	15.0

Locality of Residence	Deaths	Rate
Northampton County	1	8.4
Northumberland County	4	32.5
Norton City	3	83.1
Nottoway County	3	19.3
Orange County	10	26.3
Page County	7	29.5
Patrick County	3	17.0
Petersburg City	9	27.0
Pittsylvania County	11	18.3
Poquoson City	1	7.9
Portsmouth City	18	18.6
Powhatan County	10	31.8
Prince Edward County	3	13.7
Prince George County	5	11.6
Prince William County	31	6.4
Pulaski County	6	17.8
Radford City	1	6.0
Rappahannock County	3	40.0
Richmond City	26	11.3
Richmond County	2	22.0
Roanoke City	22	22.5
Roanoke County	13	13.4
Rockbridge County	4	17.7
Rockingham County	14	16.4
Russell County	3	11.8
Salem City	6	23.5

Locality of Residence	Deaths	Rate
Scott County	4	18.6
Shenandoah County	8	17.8
Smyth County	3	10.2
Southampton County	4	22.3
Spotsylvania County	20	13.6
Stafford County	14	8.6
Staunton City	2	7.7
Suffolk City	18	18.3
Surry County	2	30.6
Sussex County	2	18.7
Tazewell County	16	40.2
Virginia Beach City	69	15.1
Warren County	9	21.7
Washington County	7	13.0
Waynesboro City	4	17.5
Westmoreland County	1	5.3
Williamsburg City	1	6.3
Winchester City	6	21.5
Wise County	2	5.6
Wythe County	9	32.0
York County	10	14.0
<i>Subtotal (in-state)</i>	1152	13.3
Out of State	54	ND
Unknown	5	ND
<i>Subtotal (out-of-state)</i>	59	ND
TOTAL	1211	13.9

Note: No denominator is represented by ND

Map 2.5 Number of Suicides by Locality of Residence, 2022



Map 2.6 Suicide Rates by Locality of Residence, 2022

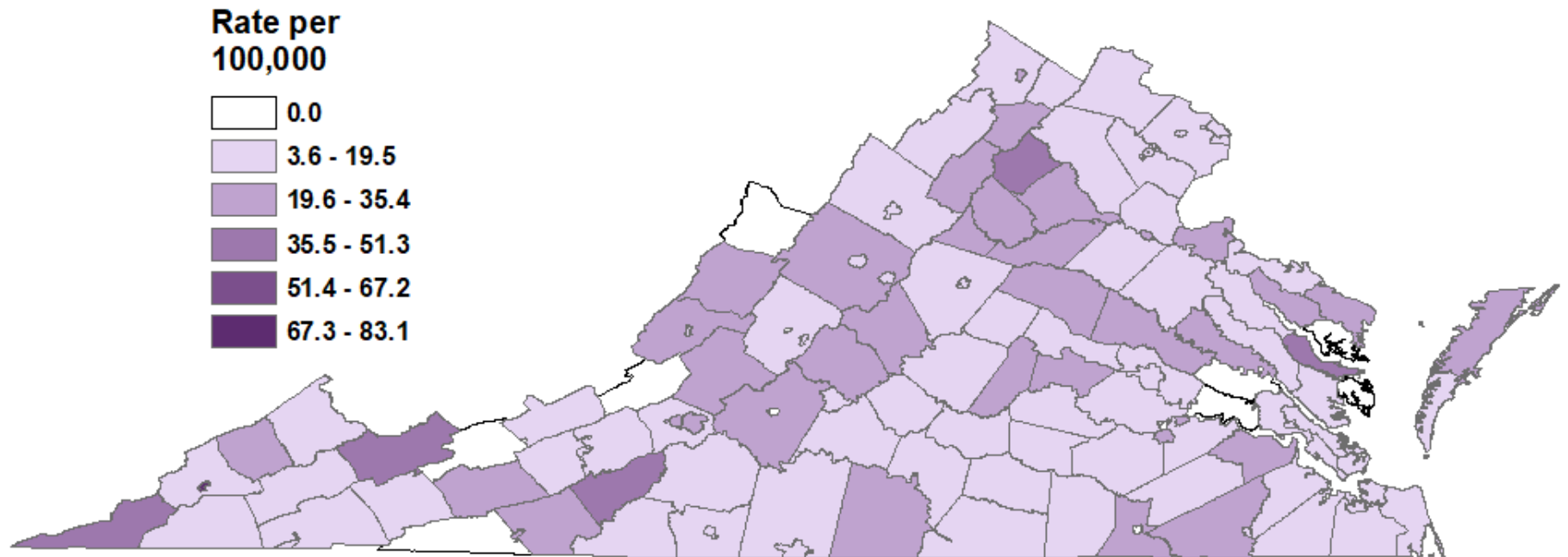


Table 2.17 Number of Suicide Deaths by Locality of Injury and Year of Death, 2006-2022

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Accomack County	4	2	1	4	6	6	1	4	4	9	4	5	4	8	5	6	7	80
Albemarle County	2	6	8	13	6	11	10	12	15	11	7	12	14	13	20	21	16	197
Alexandria City	12	11	13	14	14	14	10	16	15	10	16	18	10	9	16	11	10	219
Alleghany County	3	2	0	4	6	5	4	1	2	3	5	0	3	4	3	6	5	56
Amelia County	2	1	1	3	1	4	6	1	5	6	2	2	2	4	2	3	3	48
Amherst County	4	6	6	7	7	4	7	2	10	2	6	5	10	6	10	7	9	108
Appomattox County	2	0	0	3	3	2	2	1	2	8	2	1	3	3	4	2	1	39
Arlington County	14	12	28	10	21	16	16	18	18	11	18	21	10	18	13	12	16	272
Augusta County	12	11	13	16	11	14	16	20	20	15	15	17	16	16	19	16	19	266
Bath County	1	0	1	0	0	1	1	2	2	2	0	0	4	1	1	0	1	17
Bedford City	1	1	1	2	2	0	1	3	0	0	0	0	0	0	0	0	0	11
Bedford County	7	6	9	14	14	13	8	10	10	15	12	20	15	15	18	21	16	223
Bland County	2	1	0	3	1	1	1	1	3	2	2	1	1	2	2	0	2	25
Botetourt County	3	4	3	5	2	6	5	7	1	9	7	6	6	8	7	4	11	94
Bristol City	4	4	1	2	3	3	1	1	5	0	2	1	2	3	4	3	4	43
Brunswick County	2	2	1	1	3	1	1	2	2	2	3	4	4	1	2	3	2	36
Buchanan County	5	6	7	7	10	1	5	4	3	5	5	4	7	6	5	1	2	83
Buckingham County	3	3	5	1	3	2	2	4	2	2	3	2	3	6	2	4	5	52
Buena Vista City	0	0	1	1	1	0	0	1	0	0	0	2	0	1	1	0	1	9
Campbell County	6	3	7	6	6	10	9	13	8	12	7	5	12	7	13	8	8	140
Caroline County	3	6	3	3	5	2	2	8	12	4	6	8	6	6	7	8	9	98
Carroll County	6	8	6	10	9	7	6	8	6	8	5	10	4	8	4	9	6	120
Charles City County	0	0	2	2	2	3	7	1	2	2	2	1	1	1	1	3	1	31
Charlotte County	3	2	1	3	2	3	1	3	1	3	1	3	4	1	2	5	2	40
Charlottesville City	11	7	5	4	3	1	7	5	6	5	4	5	9	5	5	5	4	91
Chesapeake City	19	20	18	25	25	24	26	26	31	36	29	27	31	39	27	38	26	467
Chesterfield County	29	25	32	32	34	40	39	46	49	31	51	48	48	57	52	57	45	715
Clarke County	2	1	3	3	3	5	0	1	3	8	2	8	4	2	3	1	2	51
Colonial Heights City	1	2	3	1	2	1	6	2	6	4	6	6	4	4	2	2	1	53
Covington City	2	2	1	0	0	2	2	2	1	2	1	3	2	1	2	0	1	24
Craig County	0	1	2	4	0	2	1	4	0	2	4	1	1	0	4	3	1	30

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Culpeper County	6	10	2	11	5	7	9	5	9	9	5	10	11	4	2	5	13	123
Cumberland County	0	1	2	2	0	3	1	3	1	0	1	0	3	1	2	0	1	21
Danville City	7	3	4	8	7	6	4	5	9	3	9	6	8	5	6	9	6	105
Dickenson County	2	5	5	8	7	5	7	7	7	4	6	4	5	4	4	7	4	91
Dinwiddie County	3	3	1	1	7	3	2	1	3	7	4	5	3	4	8	1	6	62
Emporia City	3	0	2	1	1	0	0	0	0	0	0	0	2	0	1	2	0	12
Essex County	0	1	3	2	3	2	3	2	5	0	1	0	1	3	2	3	2	33
Fairfax City	2	2	1	6	4	2	2	4	3	7	1	5	2	6	1	2	5	55
Fairfax County	85	87	88	104	87	90	98	109	107	85	93	90	103	99	98	94	116	1633
Falls Church City	0	1	3	0	1	0	2	1	0	0	1	2	3	0	2	0	1	17
Fauquier County	7	4	8	9	14	14	13	16	9	10	9	16	6	9	13	12	14	183
Floyd County	2	2	1	3	4	4	5	5	6	3	0	1	8	2	4	3	5	58
Fluvanna County	2	3	4	2	2	3	5	6	2	1	1	5	3	5	4	2	1	51
Franklin City	0	0	0	0	1	0	1	1	2	0	0	2	0	0	1	1	1	10
Franklin County	5	8	6	7	3	10	11	12	6	10	8	9	5	7	15	8	8	138
Frederick County	9	7	7	8	8	14	19	12	20	14	13	17	12	19	12	15	8	214
Fredericksburg City	6	4	5	2	4	5	3	2	3	9	1	3	5	4	8	3	8	75
Galax City	1	1	2	1	3	3	1	0	1	2	0	2	1	2	4	3	1	28
Giles County	2	3	3	5	3	4	2	3	2	1	4	3	4	2	6	6	5	58
Gloucester County	7	6	9	4	8	12	9	4	4	14	10	6	8	6	3	5	4	119
Goochland County	2	5	2	4	2	0	1	6	4	7	8	4	3	4	9	8	6	75
Grayson County	3	2	5	2	2	8	5	2	4	1	4	2	5	1	1	4	1	52
Greene County	4	2	2	3	4	3	1	1	2	1	4	4	4	3	3	4	4	49
Greensville County	2	0	0	2	2	4	1	4	1	0	0	4	5	2	0	1	3	31
Halifax County	8	4	4	5	5	4	6	3	6	7	7	4	5	4	5	5	7	89
Hampton City	13	16	18	16	9	7	13	17	18	15	19	13	11	18	16	22	22	263
Hanover County	12	15	17	11	6	15	23	21	16	13	14	13	18	23	22	16	19	274
Harrisonburg City	2	4	4	6	6	2	1	4	6	5	8	6	6	4	5	11	7	87
Henrico County	37	25	25	39	30	42	31	41	36	36	31	45	32	38	48	43	47	626
Henry County	11	12	19	13	16	10	9	9	10	10	10	8	11	10	12	10	8	188
Highland County	0	0	0	0	1	1	1	2	1	2	2	0	0	0	1	0	0	11

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Hopewell City	1	2	2	3	3	2	3	4	5	4	5	4	5	9	7	3	6	68
Isle of Wight County	5	1	0	3	2	4	6	4	5	7	7	7	8	8	5	10	6	88
James City County	5	4	9	7	9	6	10	4	12	11	9	7	11	11	8	12	8	143
King and Queen County	2	4	2	1	1	1	3	0	1	1	2	1	3	2	2	3	1	30
King George County	3	2	2	3	6	3	4	8	5	3	6	3	8	2	5	0	5	68
King William County	1	1	1	4	0	2	7	2	3	5	5	3	1	5	1	5	5	51
Lancaster County	0	3	4	1	2	2	4	2	2	4	4	3	1	4	3	2	1	42
Lee County	5	4	7	5	2	5	9	4	5	7	3	7	6	6	6	2	8	91
Lexington City	0	1	0	0	0	0	1	1	1	2	4	1	1	0	1	0	0	13
Loudoun County	20	23	13	24	20	35	35	34	34	36	45	41	36	35	30	35	36	532
Louisa County	5	8	2	5	9	7	3	3	2	5	7	4	8	12	6	1	8	95
Lunenburg County	6	1	1	3	1	2	3	2	2	3	4	4	0	1	3	4	2	42
Lynchburg City	8	6	13	5	9	10	6	4	7	10	7	14	16	6	9	5	11	146
Madison County	2	4	3	1	3	1	4	1	4	6	4	0	5	6	1	3	2	50
Manassas	2	3	8	3	1	4	5	2	6	4	4	4	2	2	2	1	5	58
Manassas Park	Unknown	1	1	0	1	1	0	4	4	1	1	0	0	2	0	0	1	17
Martinsville City	0	4	0	1	1	4	1	3	2	2	0	3	2	3	1	2	1	30
Mathews County	1	0	2	0	1	2	1	1	3	2	3	3	2	0	1	3	0	25
Mecklenburg County	4	6	7	5	8	4	4	4	3	6	7	7	7	6	5	9	7	99
Middlesex County	0	1	1	5	1	3	3	4	0	3	1	5	2	2	6	3	3	43
Montgomery County	11	22	8	5	9	14	8	7	11	10	17	15	14	17	15	18	8	209
Nelson County	2	1	3	4	4	3	3	4	3	2	2	4	1	5	5	1	3	50
New Kent County	3	2	2	3	1	6	5	3	5	4	5	3	4	2	2	1	1	52
Newport News City	11	15	18	14	20	23	29	19	25	22	30	23	25	24	31	28	35	392
Norfolk City	27	33	29	22	29	28	29	30	34	23	26	35	35	39	40	43	41	543
Northampton County	0	4	1	0	1	5	0	2	3	3	2	3	1	4	1	2	1	33
Northumberland County	1	3	2	0	4	3	0	0	1	2	2	2	1	4	2	2	3	32
Norton City	0	0	2	1	0	1	1	0	0	0	1	1	2	0	1	0	2	12
Nottoway County	1	0	4	4	3	3	2	1	5	4	1	3	3	2	3	2	2	43

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Orange County	6	4	5	2	4	5	12	6	9	10	6	7	4	4	6	5	8	103
Page County	6	5	7	3	4	8	4	5	11	5	6	4	4	3	7	7	9	98
Patrick County	3	4	4	4	7	4	5	9	5	6	5	3	4	6	8	3	2	82
Petersburg City	1	4	7	3	4	3	4	2	6	5	8	4	1	5	7	4	8	76
Pittsylvania County	13	9	6	13	9	9	12	16	5	10	14	14	20	13	14	13	11	201
Poquoson City	1	1	1	0	0	0	0	2	1	0	2	2	2	3	1	2	1	19
Portsmouth City	8	14	10	11	16	8	20	9	13	16	16	14	16	15	18	8	19	231
Powhatan County	5	1	4	2	8	6	5	4	6	6	4	5	2	3	5	8	11	85
Prince Edward County	3	3	1	5	3	3	4	3	4	4	2	4	5	3	2	6	2	57
Prince George County	6	7	7	7	5	4	2	5	8	6	7	8	7	7	5	6	6	103
Prince William County	32	28	34	41	41	28	33	37	38	30	47	39	50	33	33	48	27	619
Pulaski County	11	10	2	6	9	9	6	7	1	8	12	9	7	5	7	12	7	128
Radford City	1	0	2	0	2	1	1	5	2	1	2	1	2	1	1	3	1	26
Rappahannock County	0	4	3	1	3	2	5	0	2	2	1	1	1	4	3	1	3	36
Richmond City	32	25	22	35	21	32	25	27	23	25	30	30	31	31	33	32	34	488
Richmond County	1	1	4	0	2	1	1	1	0	1	4	0	2	2	0	0	1	21
Roanoke City	10	15	19	13	18	19	25	16	21	16	17	22	28	17	18	24	17	315
Roanoke County	11	7	19	9	20	14	13	12	17	14	16	12	24	9	10	15	15	237
Rockbridge County	5	4	6	5	5	6	3	3	7	4	4	6	5	4	13	5	5	90
Rockingham County	9	10	9	4	12	10	9	10	10	21	14	14	11	15	14	15	13	200
Russell County	5	4	10	7	5	6	6	6	4	4	7	4	1	7	7	3	4	90
Salem City	4	7	5	0	2	6	6	6	9	7	7	6	3	3	6	6	5	88
Scott County	3	12	5	4	5	6	5	4	2	4	7	7	6	8	9	4	4	95
Shenandoah County	7	5	8	8	5	9	7	7	8	10	15	10	6	10	10	9	6	140
Smyth County	3	11	5	3	3	6	7	10	6	5	4	6	7	3	11	7	1	98
Southampton County	4	1	4	3	4	2	2	2	1	2	2	3	3	4	3	6	4	50
Spotsylvania County	13	18	17	10	22	11	13	15	14	14	26	11	17	19	13	15	17	265
Stafford County	6	14	15	15	5	9	13	19	11	20	18	15	27	13	26	19	16	261
Staunton City	4	7	1	6	4	4	1	3	3	2	3	4	3	4	3	5	2	59
Suffolk City	11	1	10	6	5	14	12	12	14	11	6	10	12	8	7	12	17	168

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Surry County	0	1	0	4	1	0	2	1	0	0	0	2	1	1	1	2	1	17
Sussex County	1	2	1	4	4	1	1	4	0	2	3	2	3	3	0	1	2	34
Tazewell County	11	4	4	12	6	6	8	5	5	14	7	8	8	7	9	7	15	136
Virginia Beach City	61	49	45	59	63	65	51	49	71	46	61	53	70	55	67	69	67	1001
Warren County	3	12	8	6	5	7	8	7	8	6	10	6	8	12	2	8	11	127
Washington County	6	10	11	13	10	10	11	9	8	12	14	19	8	10	8	13	9	181
Waynesboro City	6	3	3	4	2	3	2	4	0	6	3	2	9	6	7	4	5	69
Westmoreland County	4	2	4	2	2	5	5	3	4	1	4	3	3	3	2	1	1	49
Williamsburg City	10	2	1	1	8	6	1	0	6	4	2	4	4	3	3	4	2	61
Winchester City	6	1	7	2	6	5	3	3	9	7	4	4	8	3	4	3	4	79
Wise County	9	13	8	4	5	9	3	3	8	7	5	15	8	5	8	5	3	118
Wythe County	4	4	8	5	2	7	4	3	5	9	7	8	10	7	6	6	10	105
York County	3	8	11	6	11	15	8	7	8	6	4	8	8	9	11	4	13	140
Subtotal (in-state)	882	897	944	968	989	1055	1049	1055	1133	1086	1151	1154	1202	1149	1204	1194	1200	18312
Out of State	2	6	3	4	4	9	3	5	9	8	4	1	2	4	4	5	3	76
Unknown	0	0	1	1	1	0	0	1	3	2	2	1	7	6	1	1	8	35
Subtotal (out-of-state)	2	6	4	5	5	9	3	6	12	10	6	2	9	10	5	6	11	111
TOTAL	884	903	948	973	994	1064	1052	1061	1145	1096	1157	1156	1211	1159	1209	1200	1211	18423

Note: Bedford City was incorporated into Bedford County in 2014 and therefore, numbers are combined from there forward

UNDETERMINED DEATHS (N=235)

Undetermined deaths are those in which after examination, two or more manners cannot be eliminated and therefore the death must be ruled undetermined. In 2022, the number of undetermined deaths increased 9.3% compared to 2021. Generally, undetermined deaths have mostly increased since 2006 mainly due to the transition in diagnostic criteria of sudden infant death syndrome (SIDS) to sudden unexpected infant death (SUID), where SIDS deaths are classified as natural deaths and SUID deaths are classified as undetermined deaths.

- Nearly 32% of the cases assigned an undetermined manner had a determined cause of death
- Forty percent of deaths with an undetermined manner were among infants less than 1 year of age

Figure 2.29 Number and Rate of Undetermined Deaths by Year of Death, 1999-2022

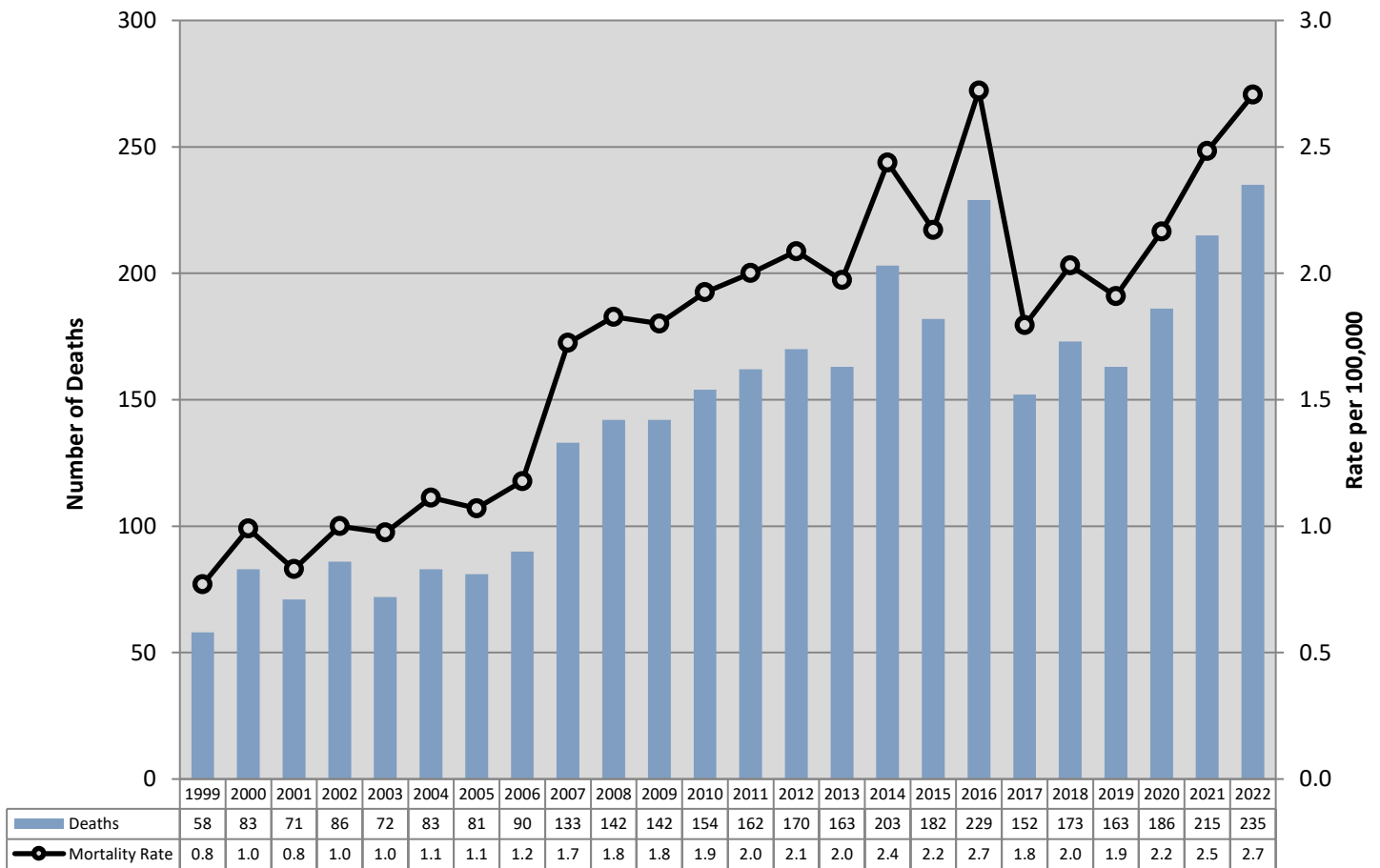
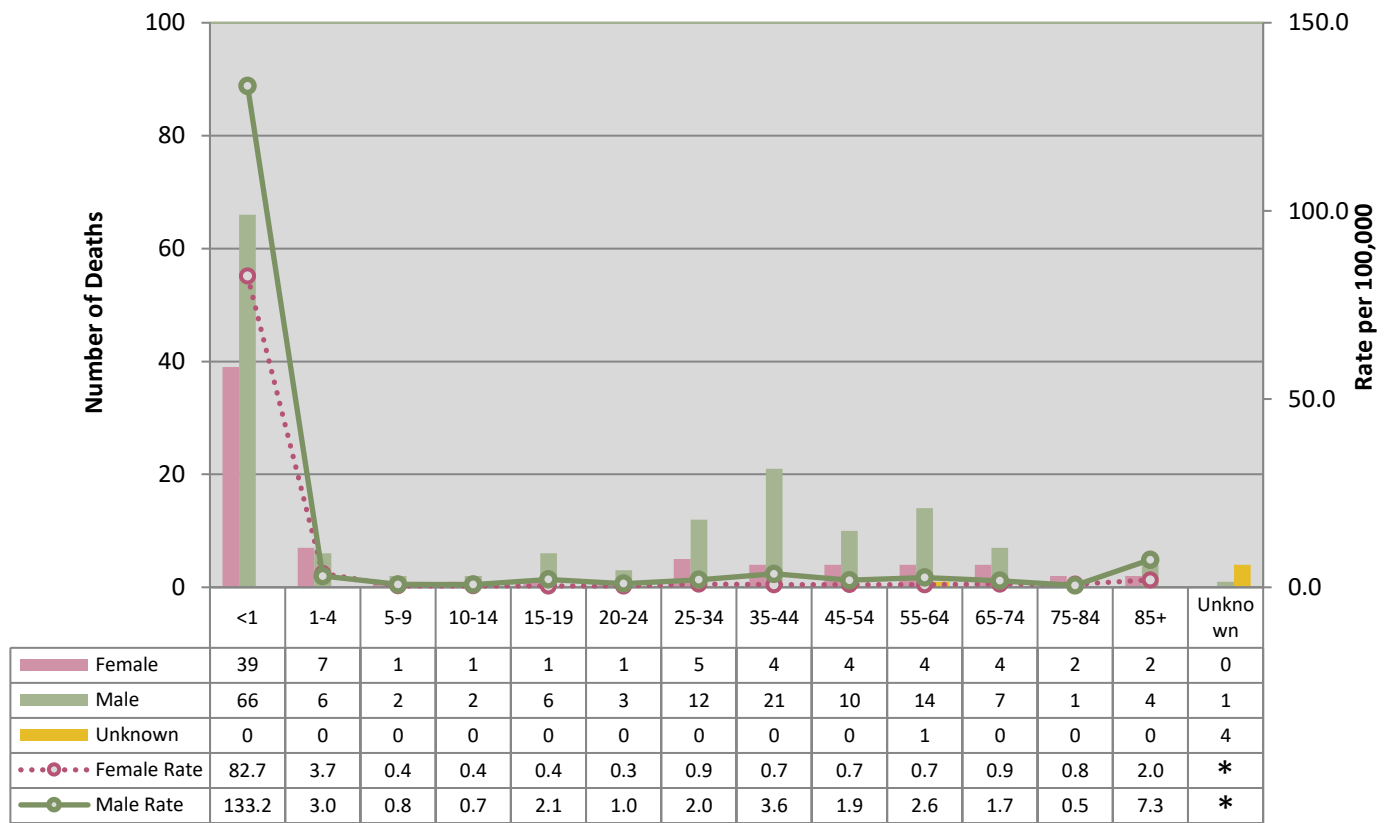


Figure 2.30 Number and Rate of Undetermined Deaths by Age Group and Gender, 2022



*No rate can be calculated

Figure 2.31 Percentage of Undetermined Deaths by Race/Ethnicity, 2022

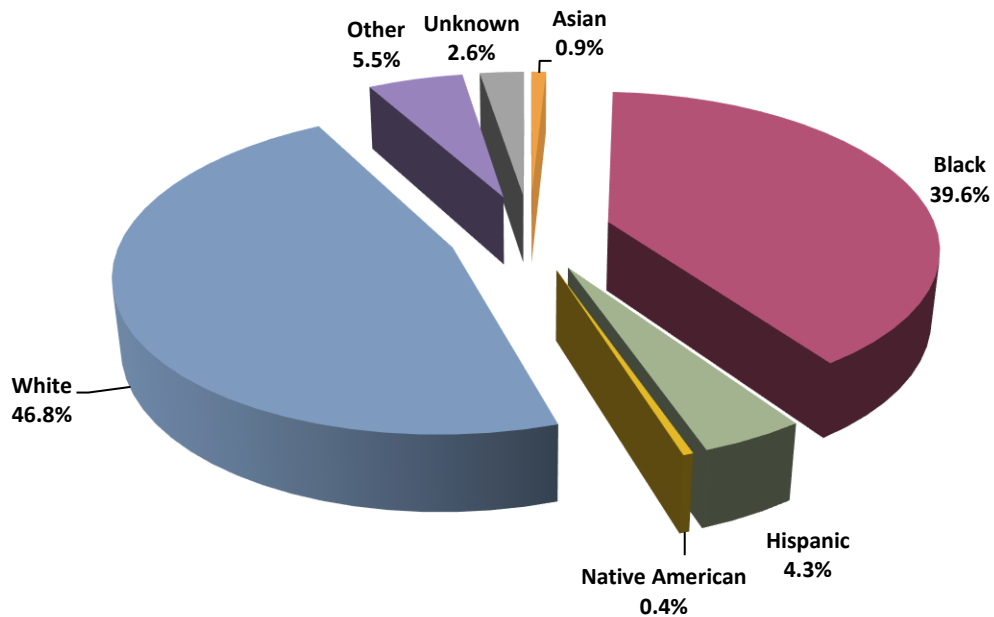


Table 2.18 Number of Undetermined Deaths by Cause of Death, 2022

Undetermined Manner of Death with Cause of Death Determined	Autopsied	Total Cases
Asphyxia		
Choked on food/foreign object	2	2
Drowned	5	5
Hanged	2	2
Suffocated/Smothered	2	2
Drug Use		
Ingested and/or injected illicit, prescription, and/or OTC medication	12	13
Environmental Exposure		
Exposed to cold	1	1
Fire		
Thermal and/or inhalational Injuries	3	3
Jump/Fall		
Jumped/Fell from height	1	2
Motor Vehicle		
Multiple	1	1
Unknown	1	1
Traumatic Injury		
Gunshot wound		
Handgun	13	13
Multiple	1	1
Rifle	1	1
Shotgun	1	1
Unknown	2	2
Sharp force injury	2	2
Other/Unknown traumatic causes	9	9
Other Cause of Death		
Dehydration and/or starvation	1	1
Other	12	13
Subtotal (Undetermined Manner with Determined Cause of Death)	72	75
Undetermined Manner of Death and Undetermined Cause of Death		
Skeletal/Mummified remains	37	37
Sudden Unexpected Infant Death (SUID)	94	94
Undetermined after autopsy and/or toxicology	28	29
Subtotal (Undetermined Manner and Undetermined Cause of Death)	159	160
TOTAL UNDETERMINED DEATHS	231	235

SECTION 3: DEATHS OF CHILDREN (N=380)

Child deaths are deaths of persons aged 17 years and younger.

The OCME investigated 380 deaths of children, representing 3.9% of all OCME deaths in 2022.

- Males represented 62.9% of all child cases
- Undetermined deaths of infants <1 year of age certified as sudden unexpected infant death (SUID) represented 24.7% of all OCME child deaths in 2022

Figure 3.1 Number of Child Deaths by Manner, 2022

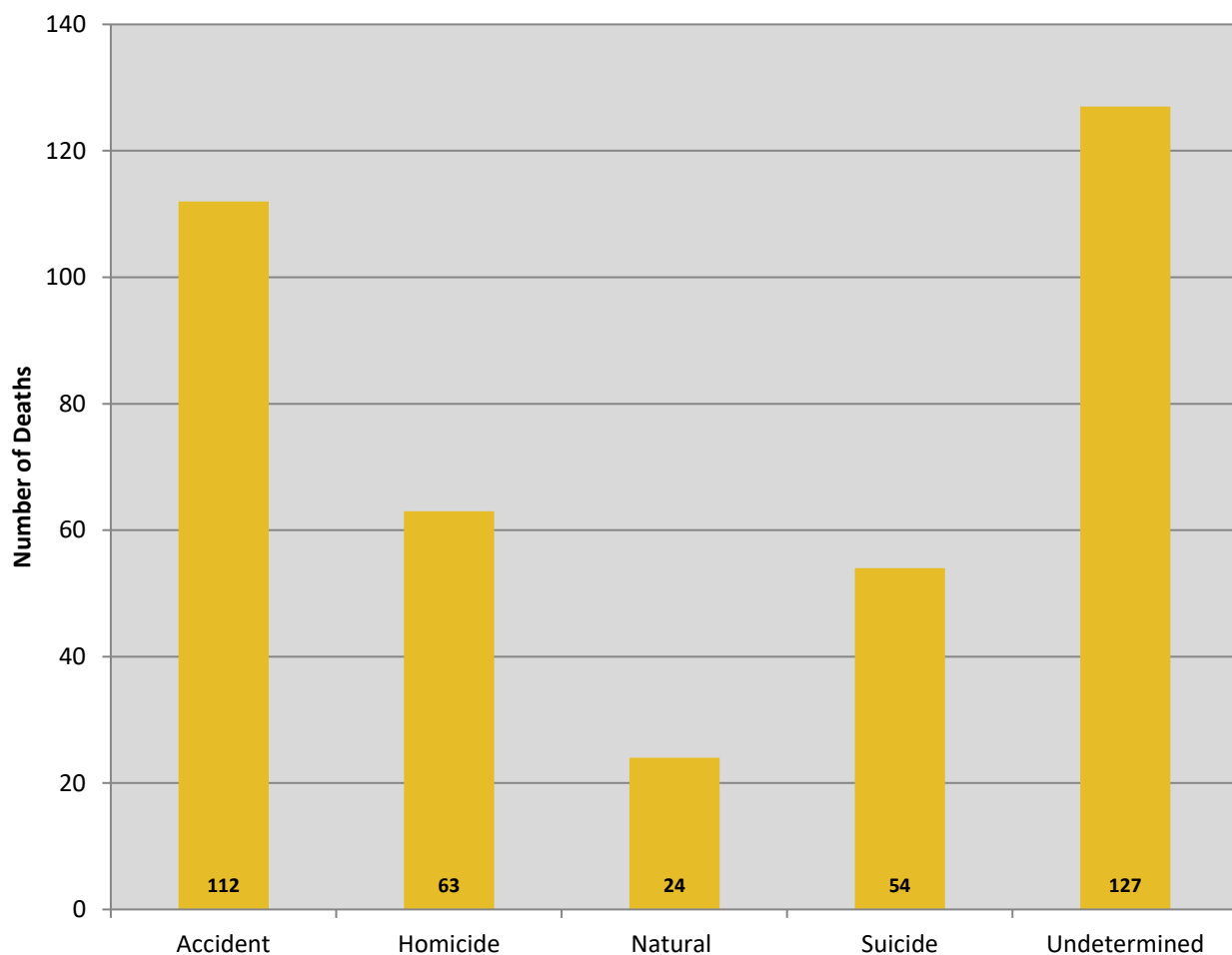


Figure 3.2 Number of Child Deaths by Age and Gender, 2022

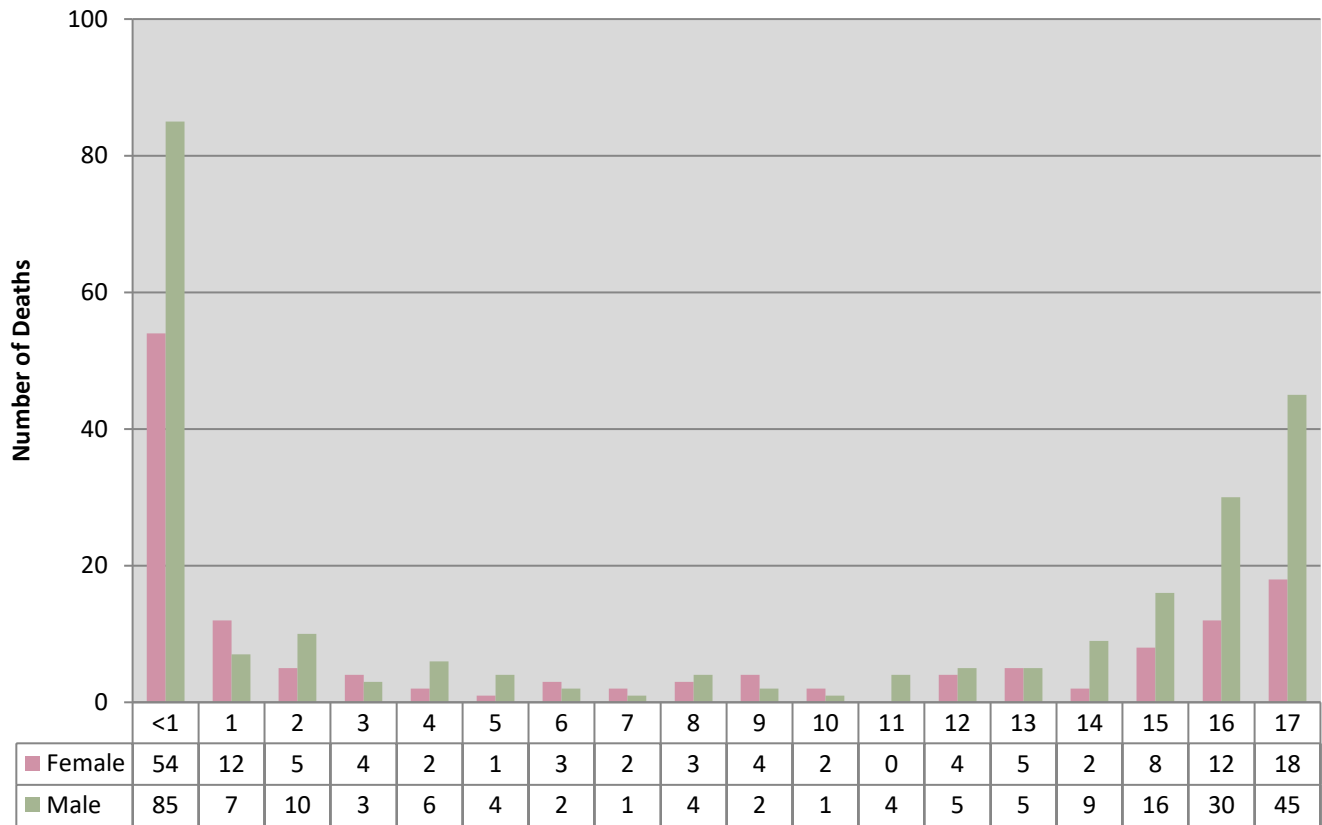


Figure 3.3 Percentage of Child Deaths by Race/Ethnicity, 2022

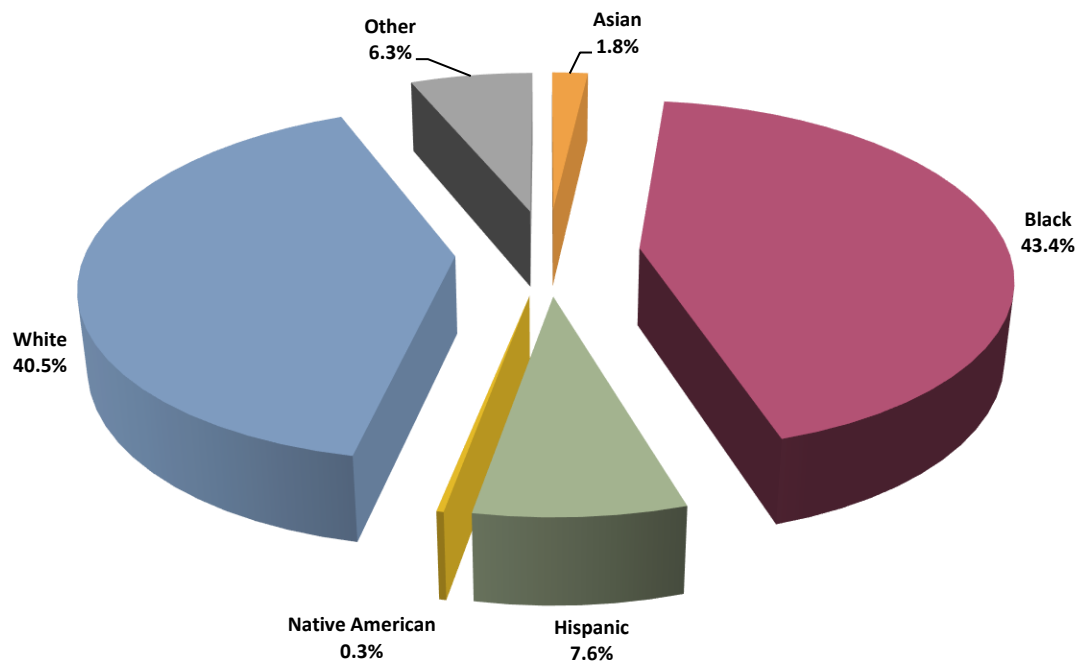
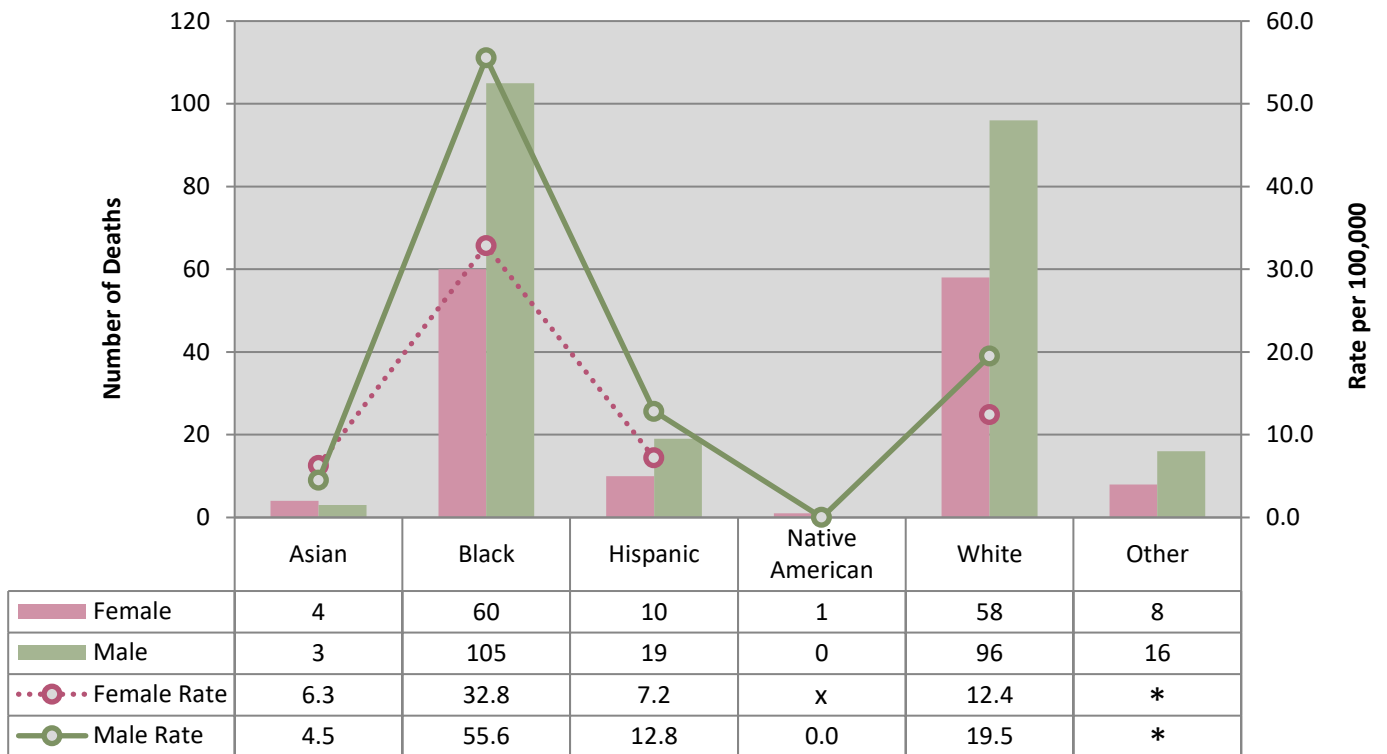


Figure 3.4 Number and Rate of Child Deaths by Gender and Race/Ethnicity, 2022



Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians and Native American females). The rate among Native American females was so exceedingly high and unreliable, that it was suppressed in this graphic

Figure 3.5 Number of Child Deaths by Manner and Race/Ethnicity, 2022

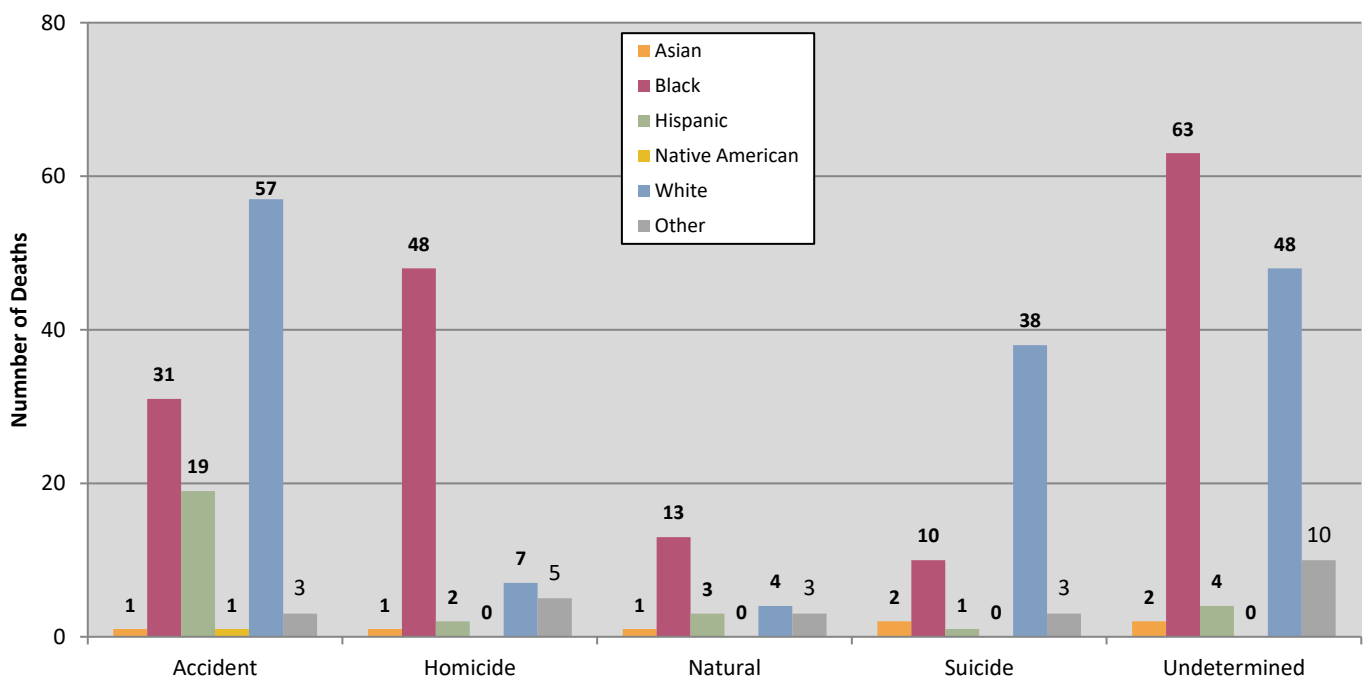
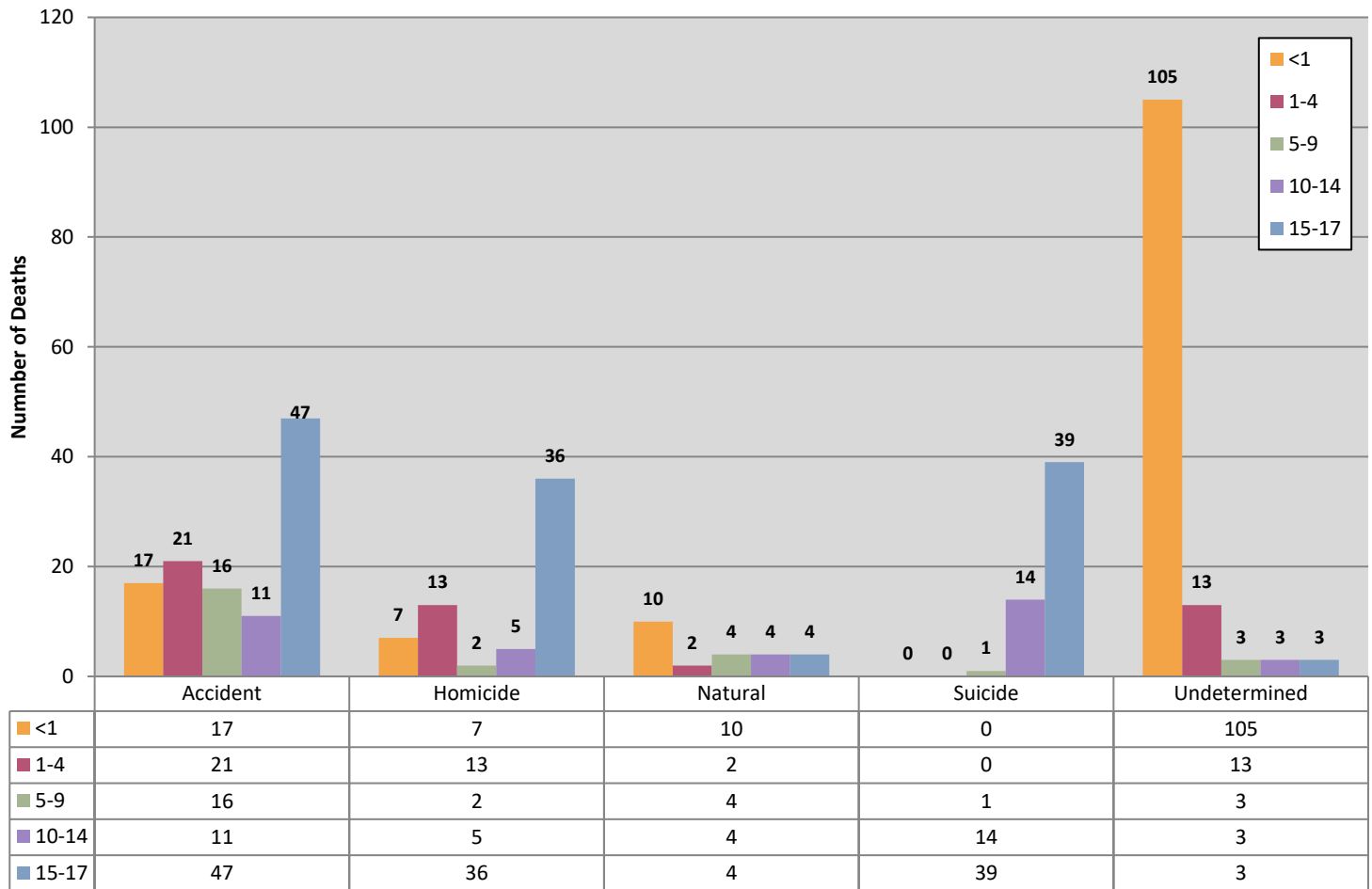


Figure 3.6 Number of Child Deaths by Manner and Age Group, 2022



ACCIDENTAL CHILD DEATHS (N=112)

The number of accidental child deaths decreased by 3.4% in 2022 compared to 2021.

- The largest number of accidental deaths occurred among males (54.5%), Whites (50.9%), and children aged 15-17 years of age (42.0%)
- Black females and Hispanic males had the highest rate of accidental death (9.3 and 8.8 deaths per 100,000 persons aged 0-17 years, respectively)
- Motor vehicle accidents were the leading method of death (38.4%), followed by accidental drug overdose deaths (20.5%)

Figure 3.7 Number and Rate of Accidental Child Deaths by Year, 2003-2022

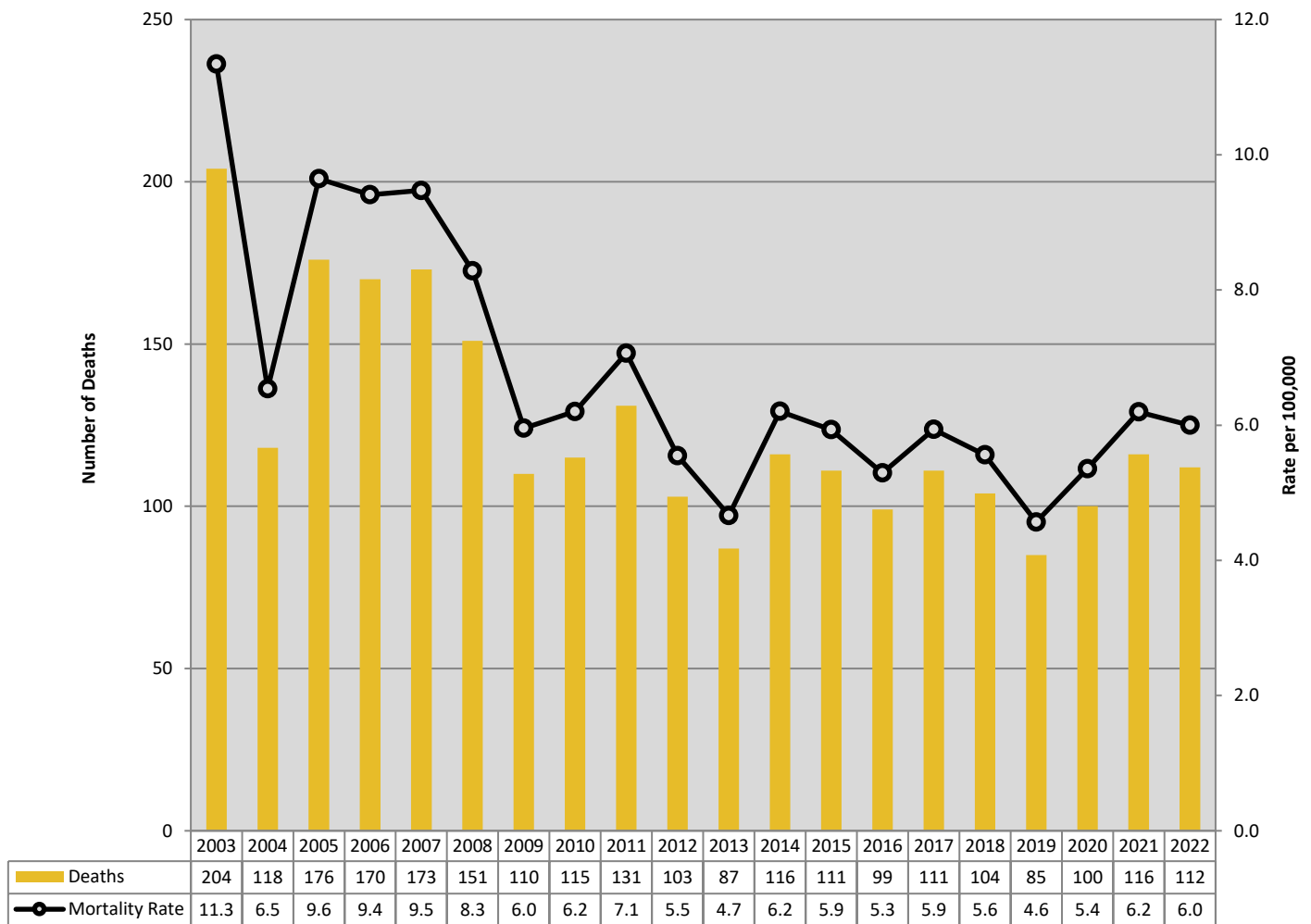


Figure 3.8 Number and Rate of Accidental Child Deaths by Age Group and Gender, 2022

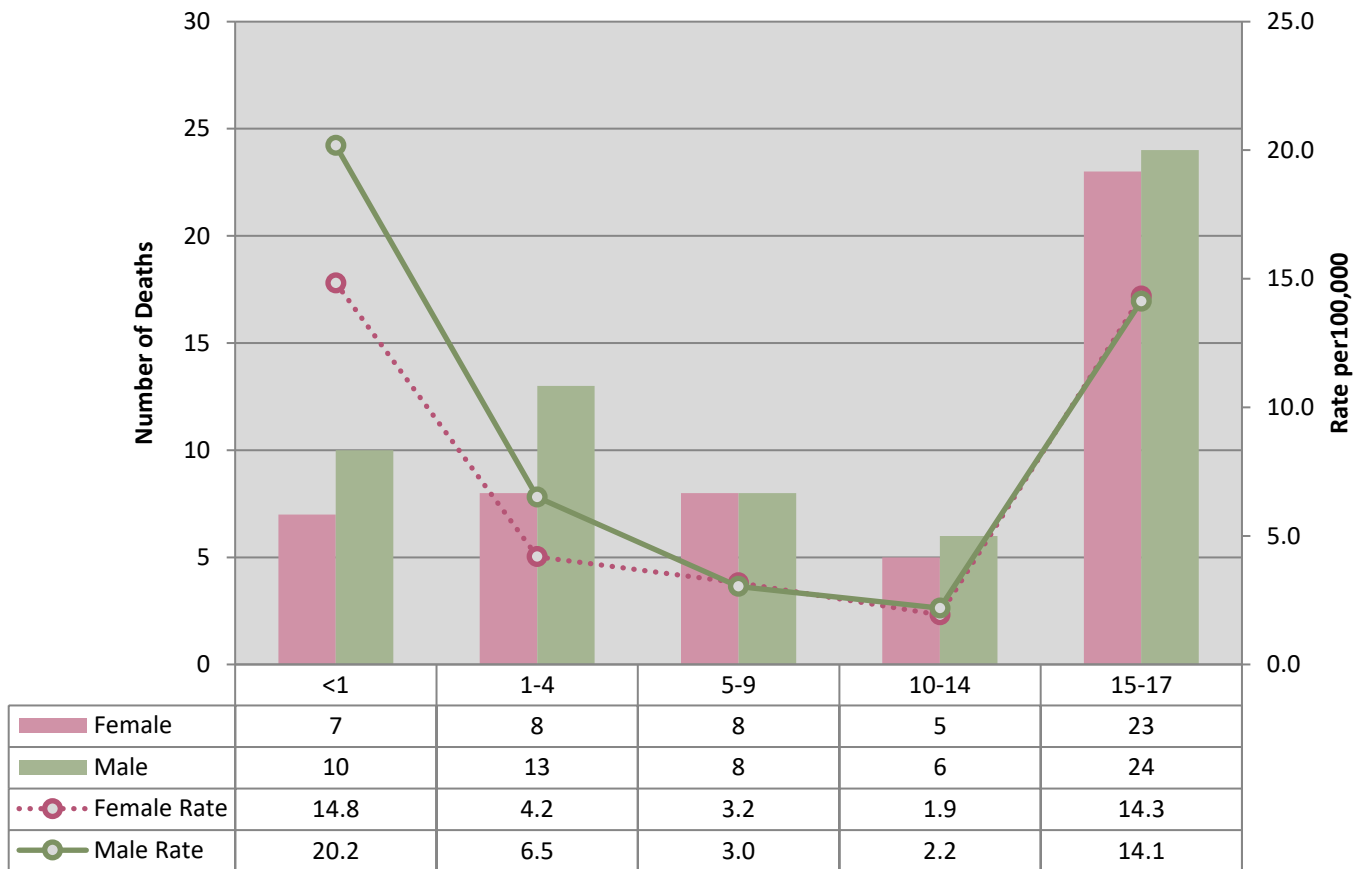


Figure 3.9 Percentage of Accidental Child Deaths by Race/Ethnicity, 2022

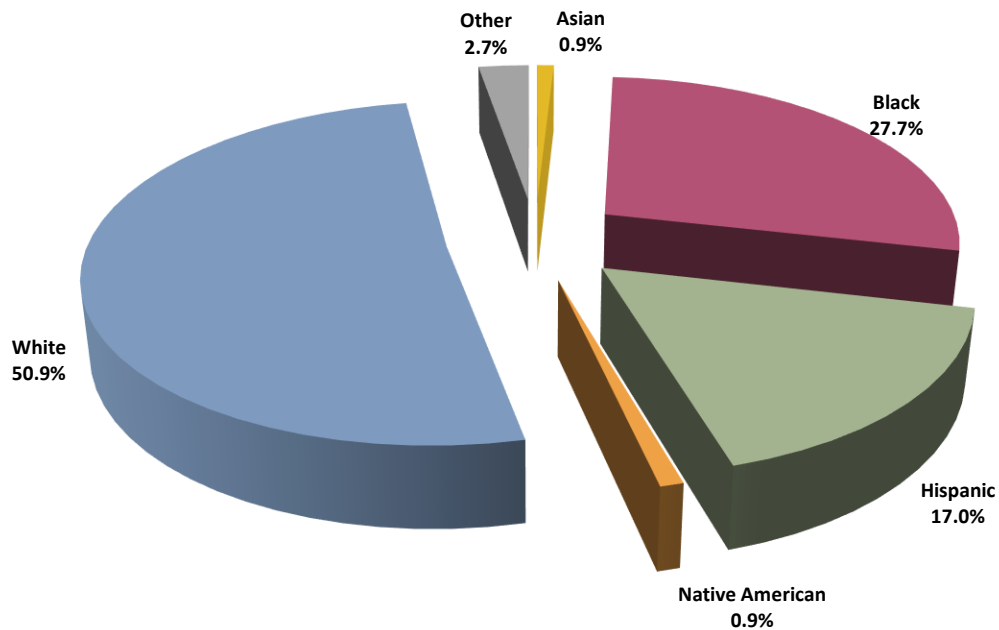
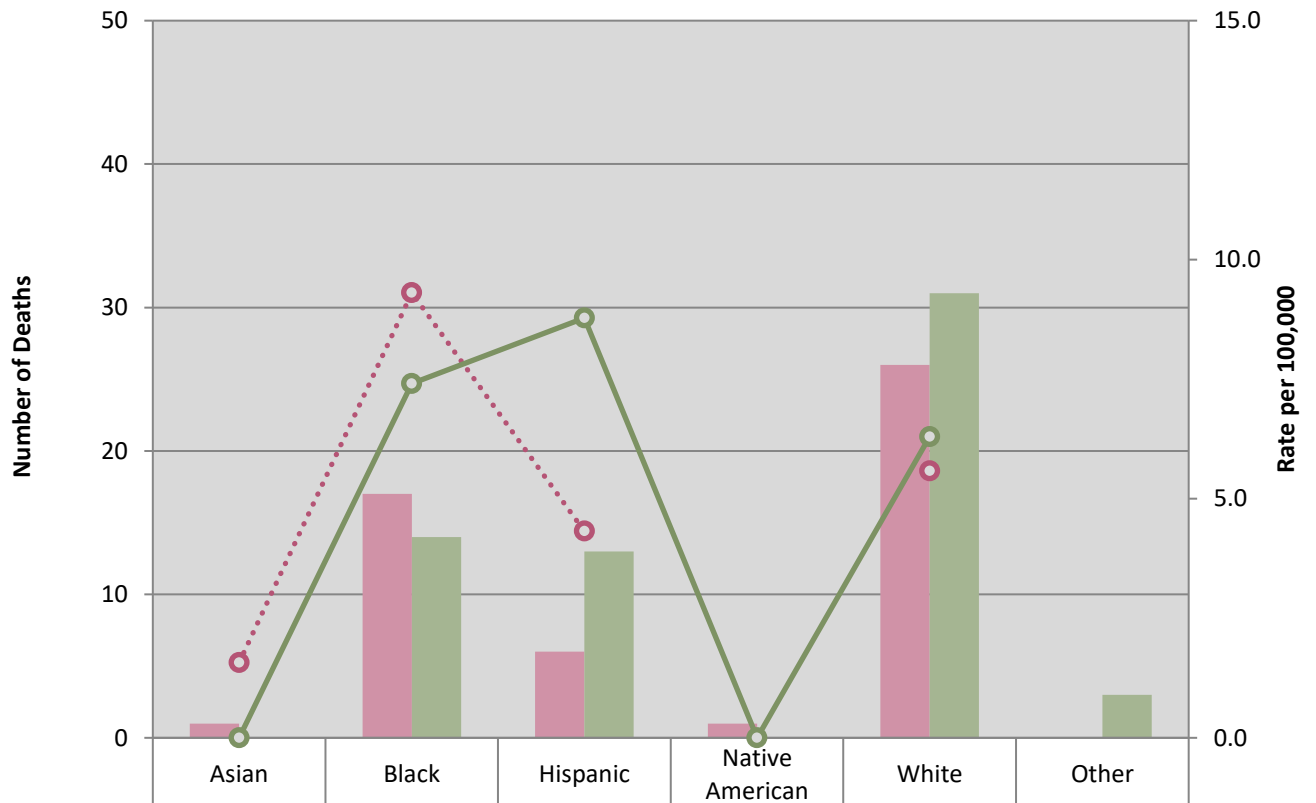


Figure 3.10 Number and Rate of Accidental Child Deaths by Gender and Race/Ethnicity, 2022



Female	1	17	6	1	26	0
Male	0	14	13	0	31	3
Female Rate	1.6	9.3	4.3	x	5.6	*
Male Rate	0.0	7.4	8.8	0.0	6.3	*

*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution. The rate among Native American females was so exceedingly high and unreliable, that it was suppressed in this graphic

Figure 3.11 Number of Accidental Child Deaths by Month of Death, 2022

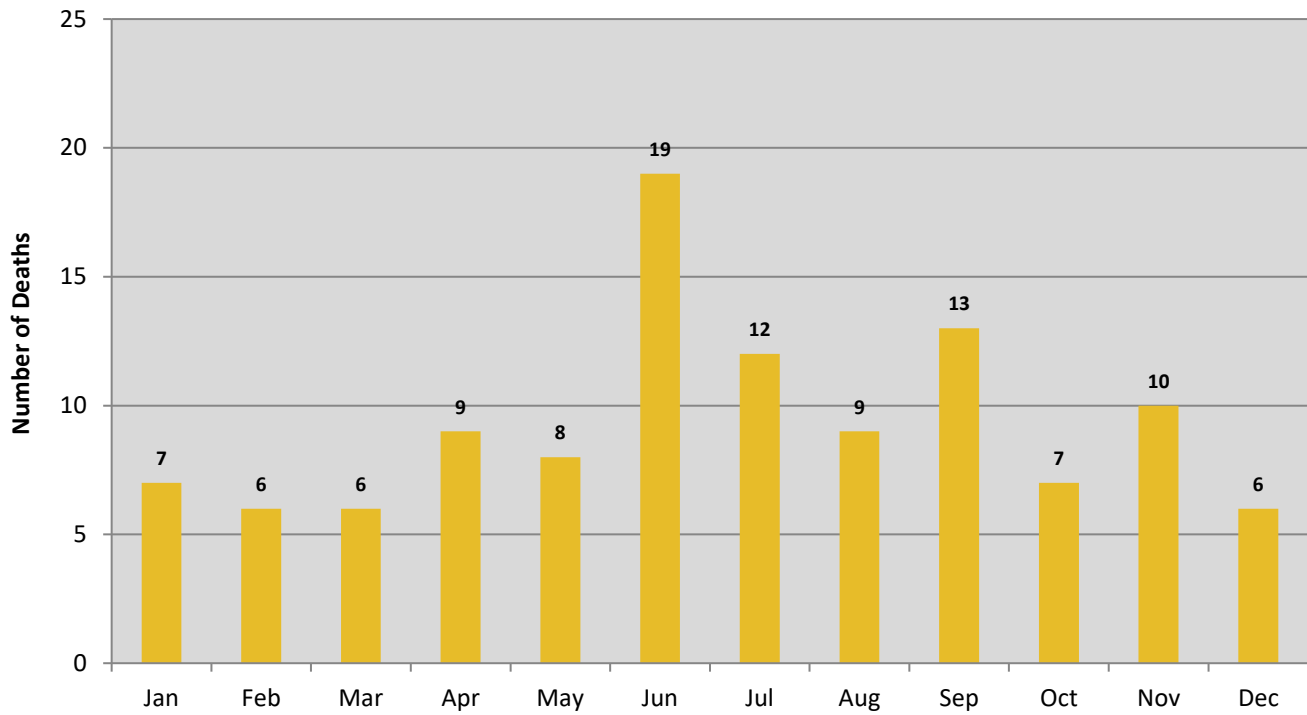


Figure 3.12 Number of Accidental Child Deaths by Day of Week, 2022

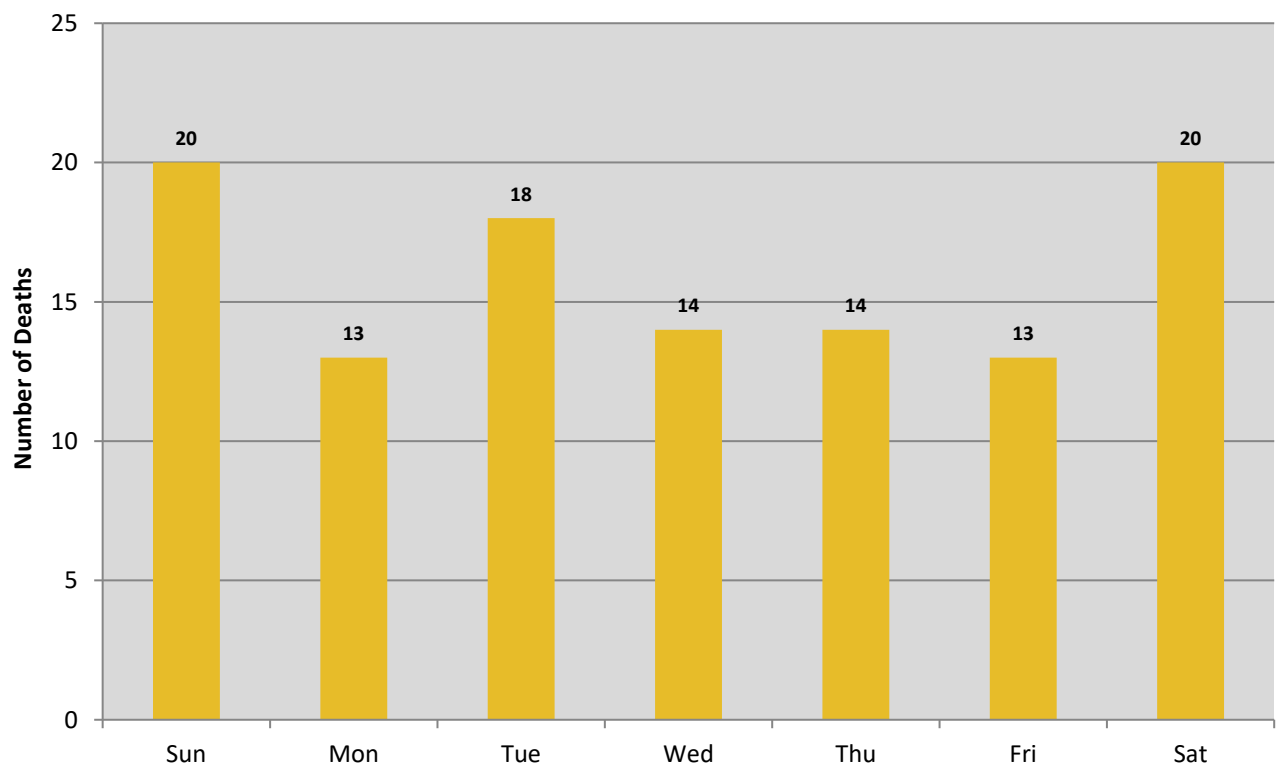


Table 3.1 Number of Accidental Child Deaths by Cause and Method of Death, 2022

Method of Death	Autopsied	Total Cases
Asphyxia		
Choked on food/foreign object	2	5
Drowned	11	14
Mechanical/Positional asphyxia	3	3
Suffocated/Smothered	10	10
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	20	23
Environmental Exposure		
Exposure to heat	1	1
Fire		
Thermal burns and/or inhalation of combustion products	6	8
Motor Vehicle		
All terrain vehicle	0	4
Bicycle	0	1
Boat	0	1
Car	1	22
Motorized scooter	0	1
Sport utility vehicle	2	10
Truck other	0	1
Van	0	2
Unknown	0	1
Traumatic Injury		
Gunshot wound		
Handgun	1	1
Falling object	0	1
Trauma due to animal attack	1	2
Other Unnatural Deaths		
Other	1	1
TOTAL ACCIDENTAL CHILD DEATHS	59	112

CHILD HOMICIDE DEATHS (N=63)

The number of child homicide deaths in 2022 increased 8.6% compared to 2021. Homicides represented 16.6% of all child deaths.

- Homicides in children in 2022 occurred most frequently among males (73.0%) and among Blacks (76.2%)
- Black males had the highest rate of child homicides with 18.5 deaths per 100,000 persons aged 0-17 years
- Gunshot wounds (69.8%) were the most common method of child homicide in 2022, followed by beatings (19.0%)

Figure 3.13 Number and Rate of Child Homicide Deaths by Year, 1999-2022

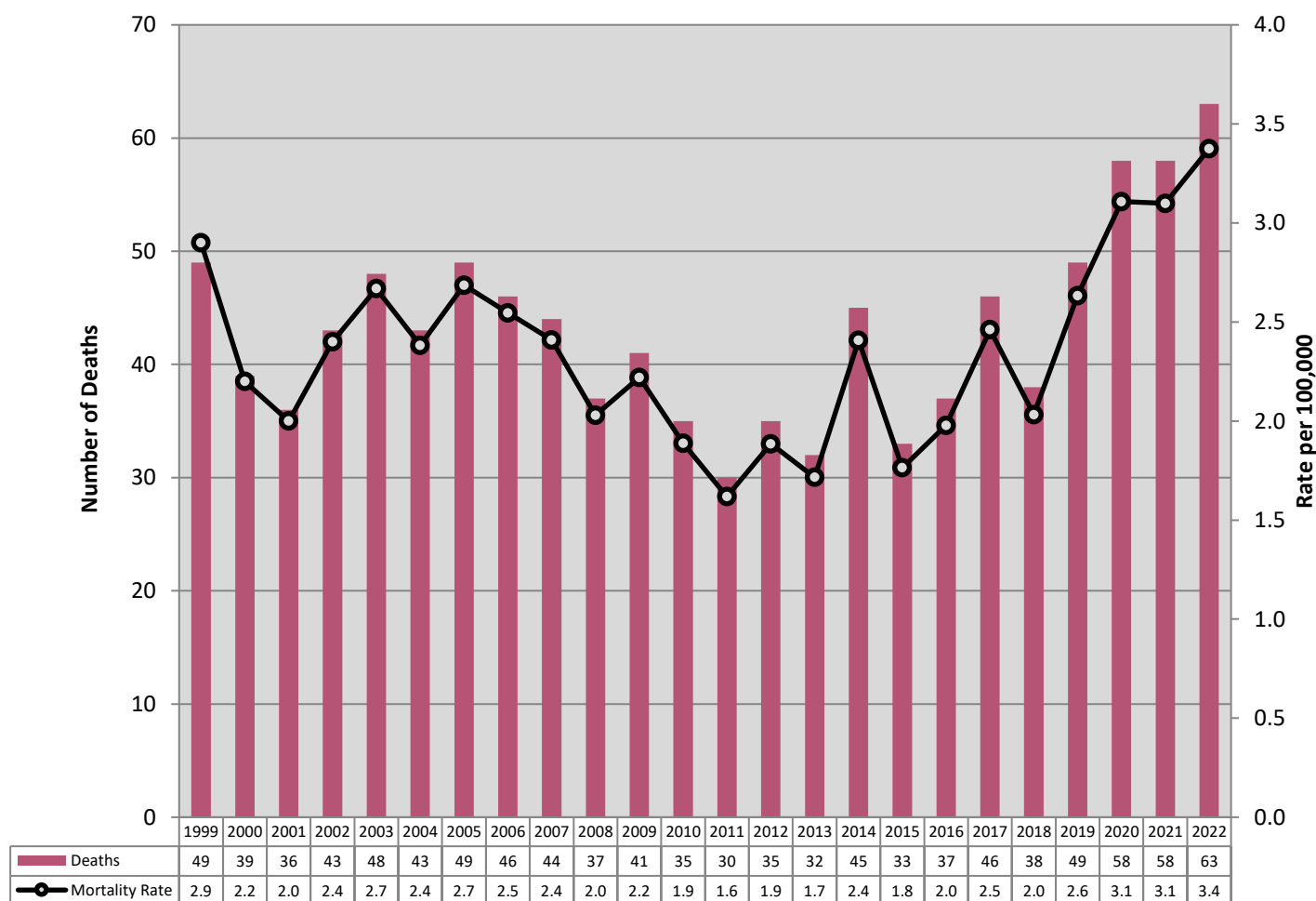


Figure 3.14 Number of Child Homicide Deaths by Age and Gender, 2022

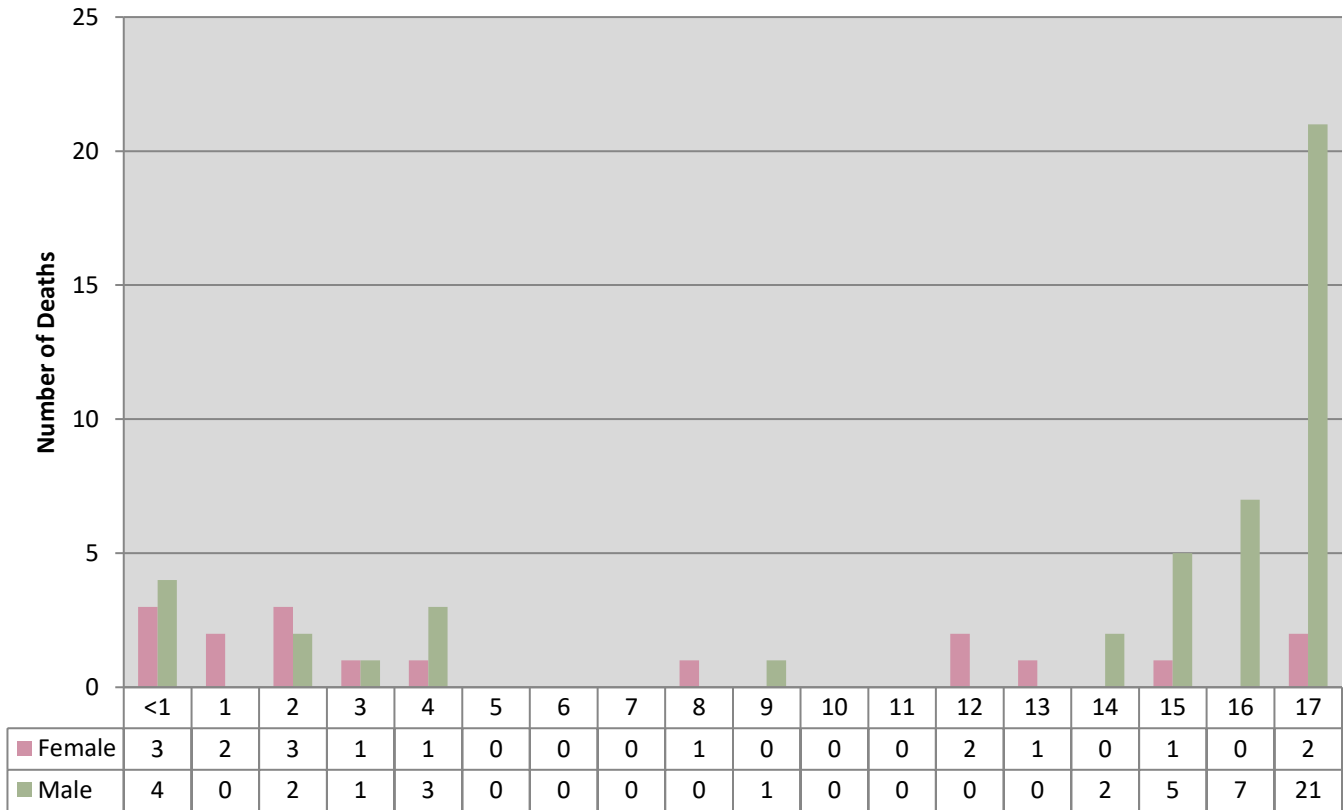


Figure 3.15 Percentage of Child Homicide Deaths by Race/Ethnicity, 2022

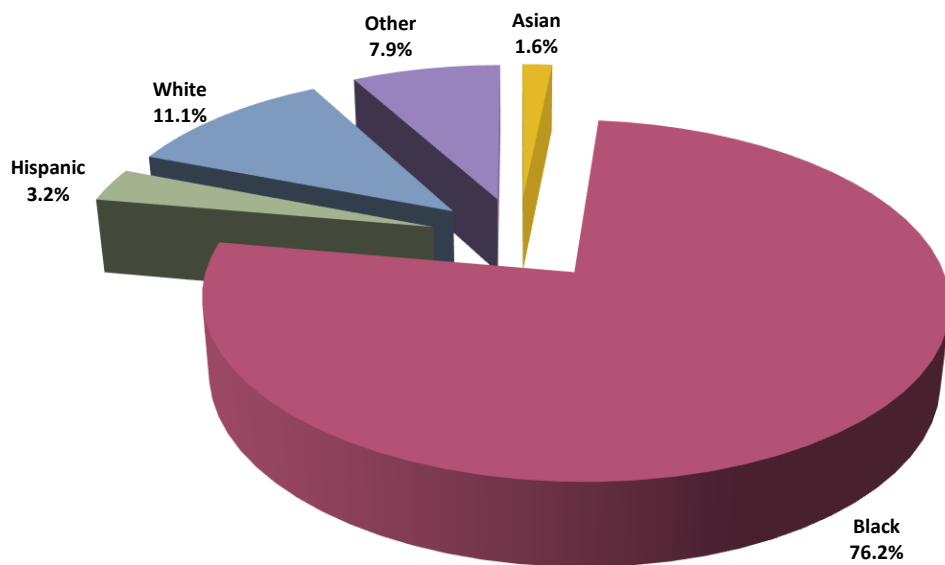
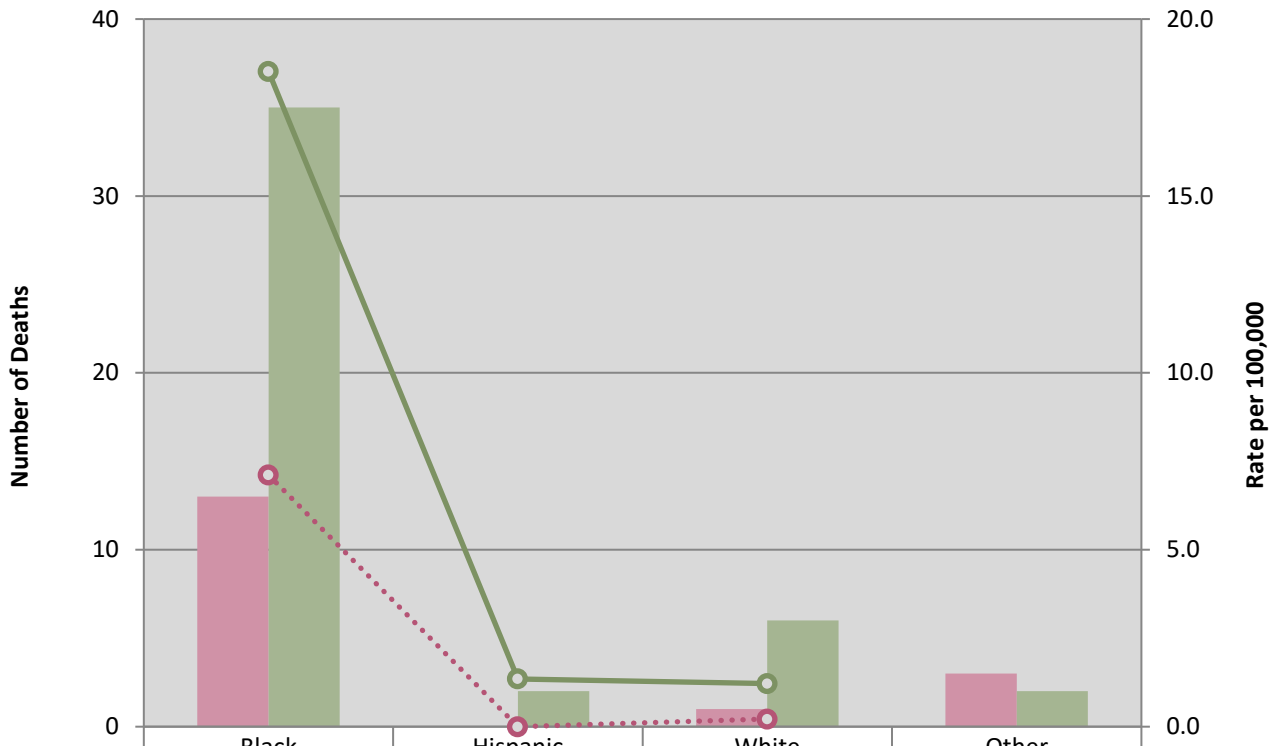


Figure 3.16 Number and Rate of Child Homicide Deaths by Gender and Race/Ethnicity, 2022



Female	13	0	1	3
Male	35	2	6	2
Female Rate	7.1	0.0	0.2	*
Male Rate	18.5	1.4	1.2	*

*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Hispanic males and White females)

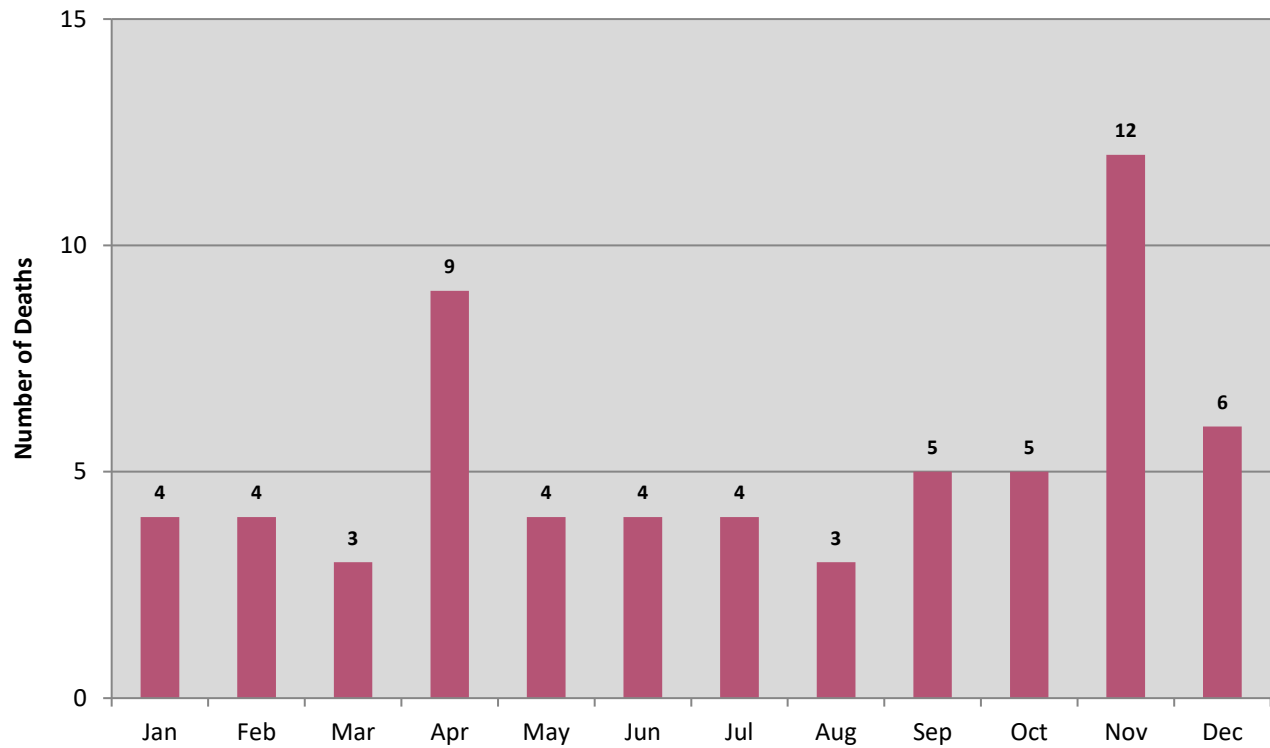
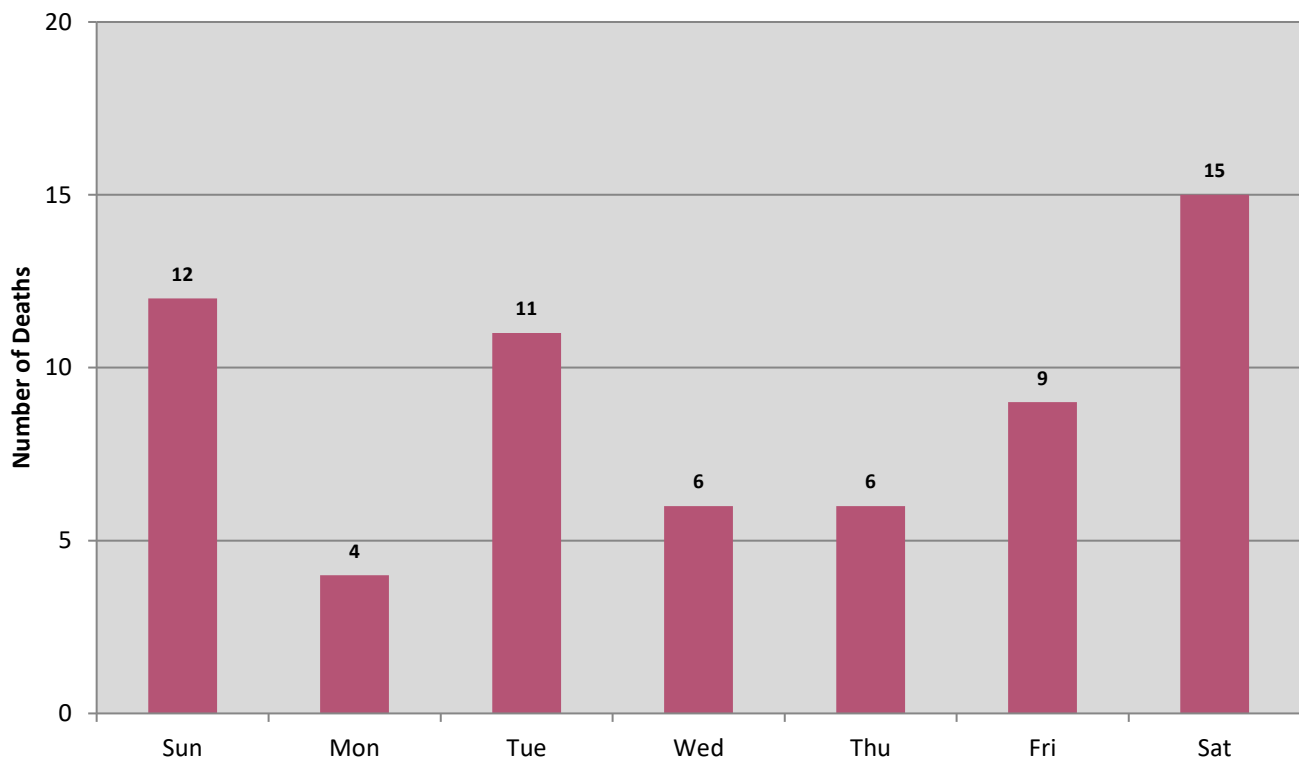
Figure 3.17 Number of Child Homicide Deaths by Month of Death, 2022**Figure 3.18 Number of Child Homicide Deaths by Day of the Week, 2022**

Table 3.2 Number of Child Homicide Deaths by Cause and Method of Death, 2022

Method of Death	Autopsied	Total Cases
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	2	2
Traumatic Injury		
Beaten by assailant(s)	12	12
Shot by assailant(s) with firearm		
Air rifle	1	1
Handgun	27	27
Rifle	2	2
Unknown	14	14
Other		
Dehydration and/or starvation	1	1
Other/Undetermined	4	4
TOTAL CHILD HOMICIDE DEATHS	63	63

NATURAL CHILD DEATHS (N=24)

Infants made up the largest proportion of natural child deaths (41.7%) that fell under the OCME's jurisdiction.

- Various pulmonary diseases/disorders were the most common causes of natural child deaths in 2022

NOTE: Due to the change of OCME case definitions which includes the addition of the sudden unexpected infant death (SUID) classification of infant death in 2007 (undetermined manner of death), sudden infant death syndrome (SIDS) cases have drastically decreased (natural manner of death)

Figure 3.19 Number of Natural Child Deaths by Age Group and Gender, 2022

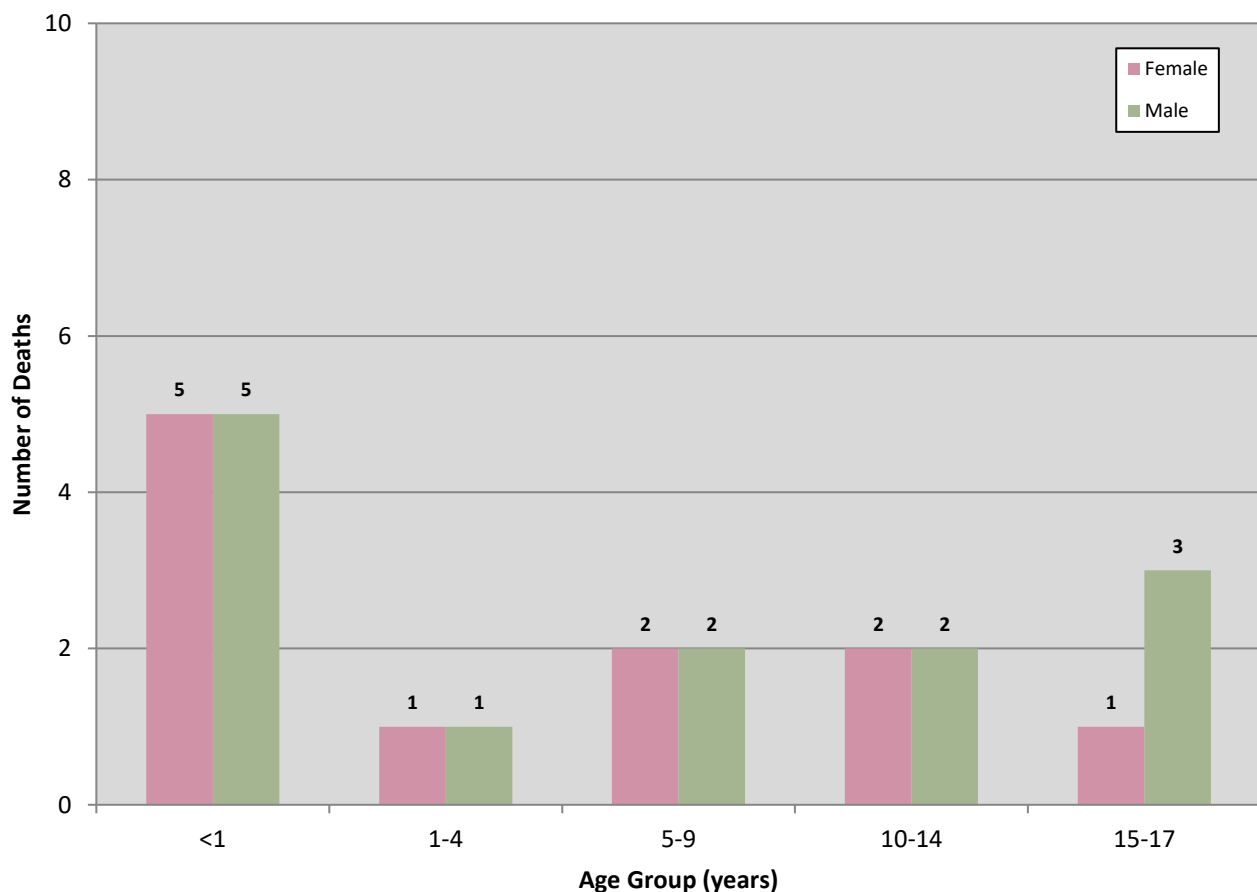


Figure 3.20 Percentage of Natural Child Deaths by Race/Ethnicity, 2022

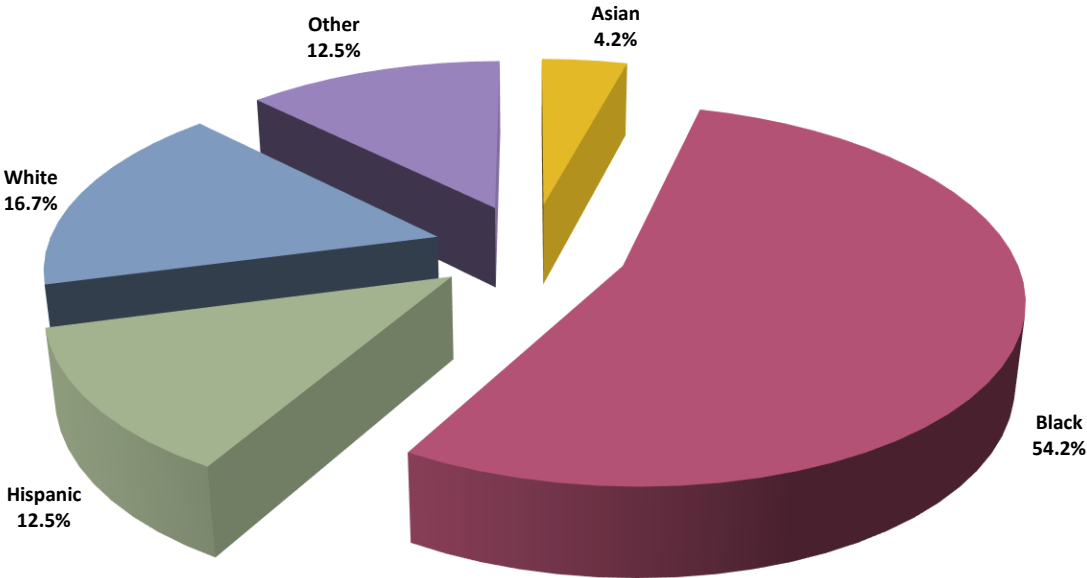


Figure 3.21 Number of OCME SIDS Cases by Year of Death, 2003-2022

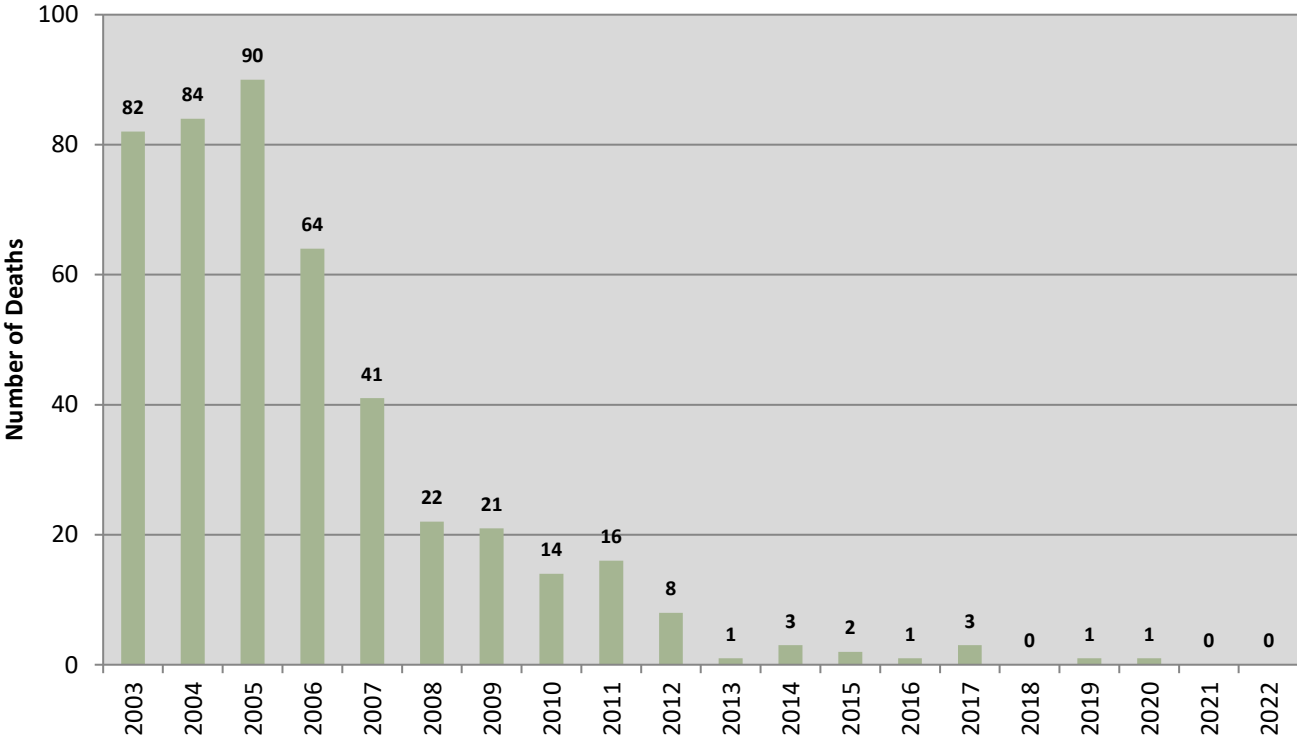


Table 3.3 Number of Natural Child Deaths by Cause and Method of Death, 2022

NATURAL CHILD DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Congenital Defect	2	2
Cardiac Arrhythmia (not otherwise specified)	2	2
Cardiomyopathy (not otherwise specified)	1	1
Other Cardiac Disease/Disorder	1	1
Central Nervous System Diseases/Disorders		
Seizure Disorder	1	1
Other CNS Disease/Disorder	1	1
Gastrointestinal Disease/Disorder		
Hepatitis	1	1
Other GI Disease/Disorder	2	2
Perinatal and Pediatric Diseases/Disorders		
Fetal Complications	1	1
Pulmonary Diseases/Disorders		
Asthma	1	1
Emboli	1	1
Pneumonia	2	2
Other Pulmonary Disease/Disorder	3	3
Systemic Diseases/Disorders		
Blood Disorder	1	1
Diabetes	2	2
Other Infectious Disease	1	1
Other Systemic Disease/Disorder	1	1
TOTAL NATURAL CHILD DEATHS	24	24

CHILD SUICIDE DEATHS (N=54)

The number of child suicide deaths in 2022 increased 20.0% compared to 2021.

- Child suicides are very similar to adult suicides as they occur more frequently in males (74.1%) and among Whites (70.4%)
- The most common methods of child suicides were gunshot wounds (48.1%) and hangings (37.0%)

Figure 3.22 Number and Rate of Child Suicide Deaths by Year, 1999-2022

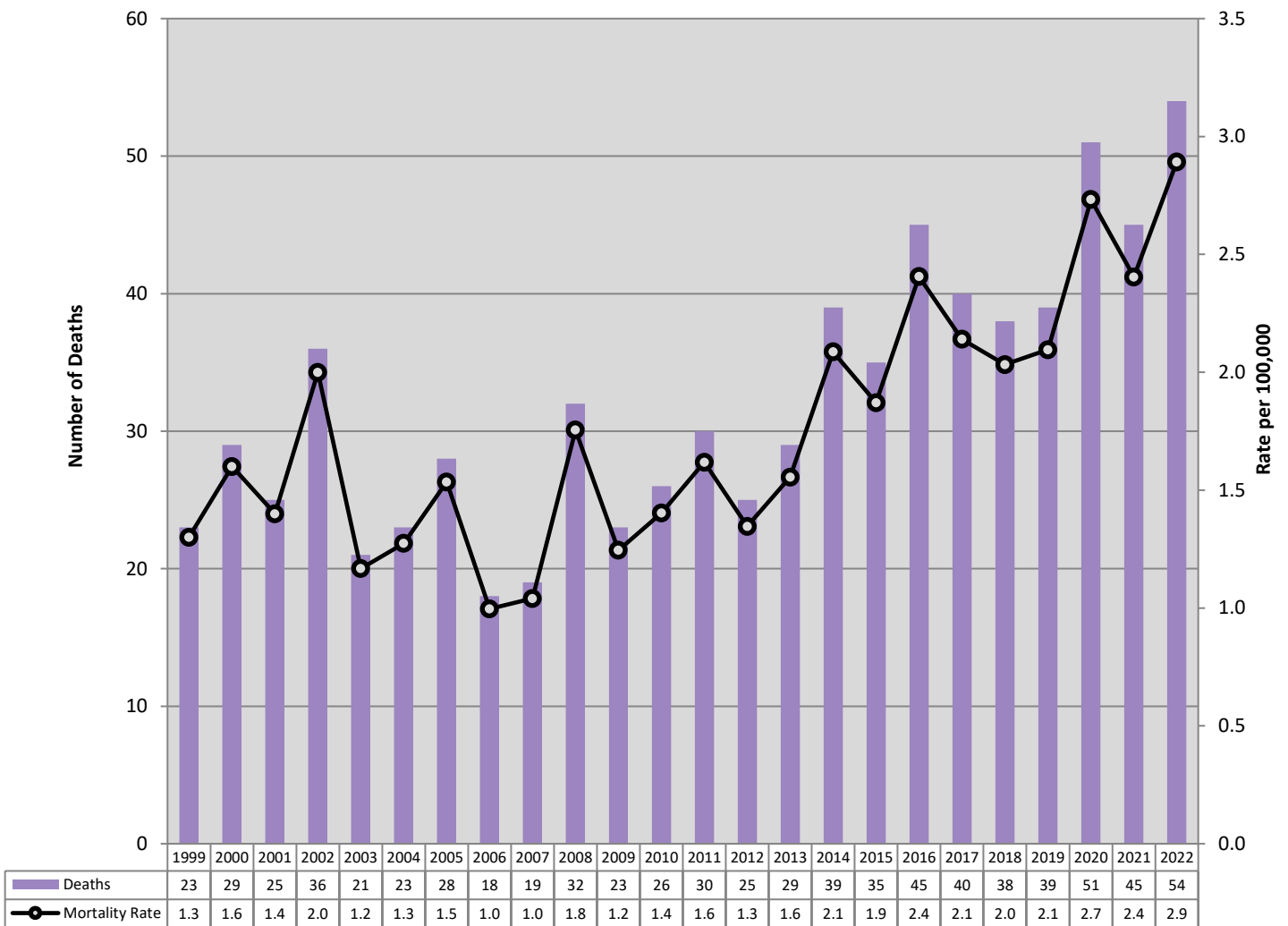


Figure 3.23 Number of Child Suicide Deaths by Age and Gender, 2022

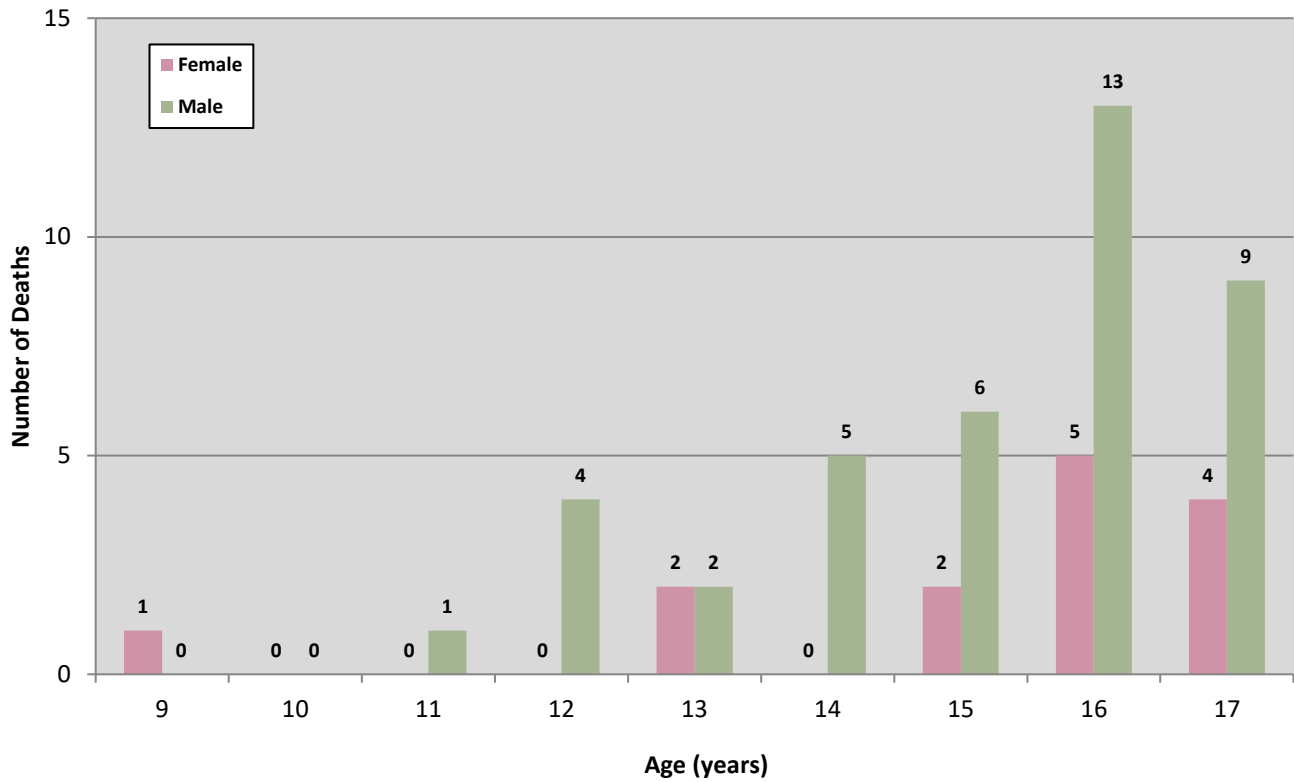


Figure 3.24 Percentage of Child Suicide Deaths by Race/Ethnicity, 2022

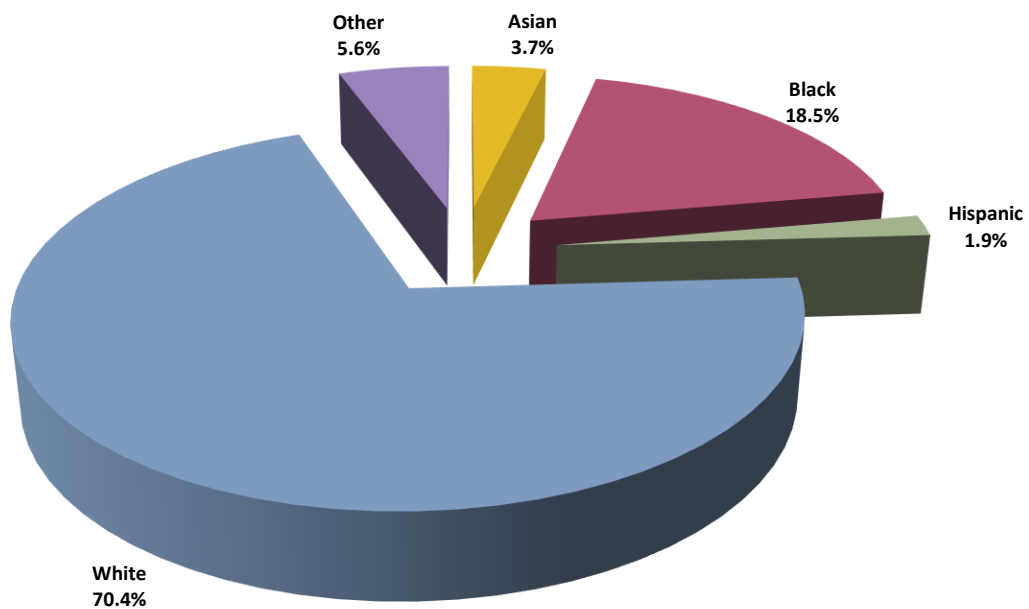
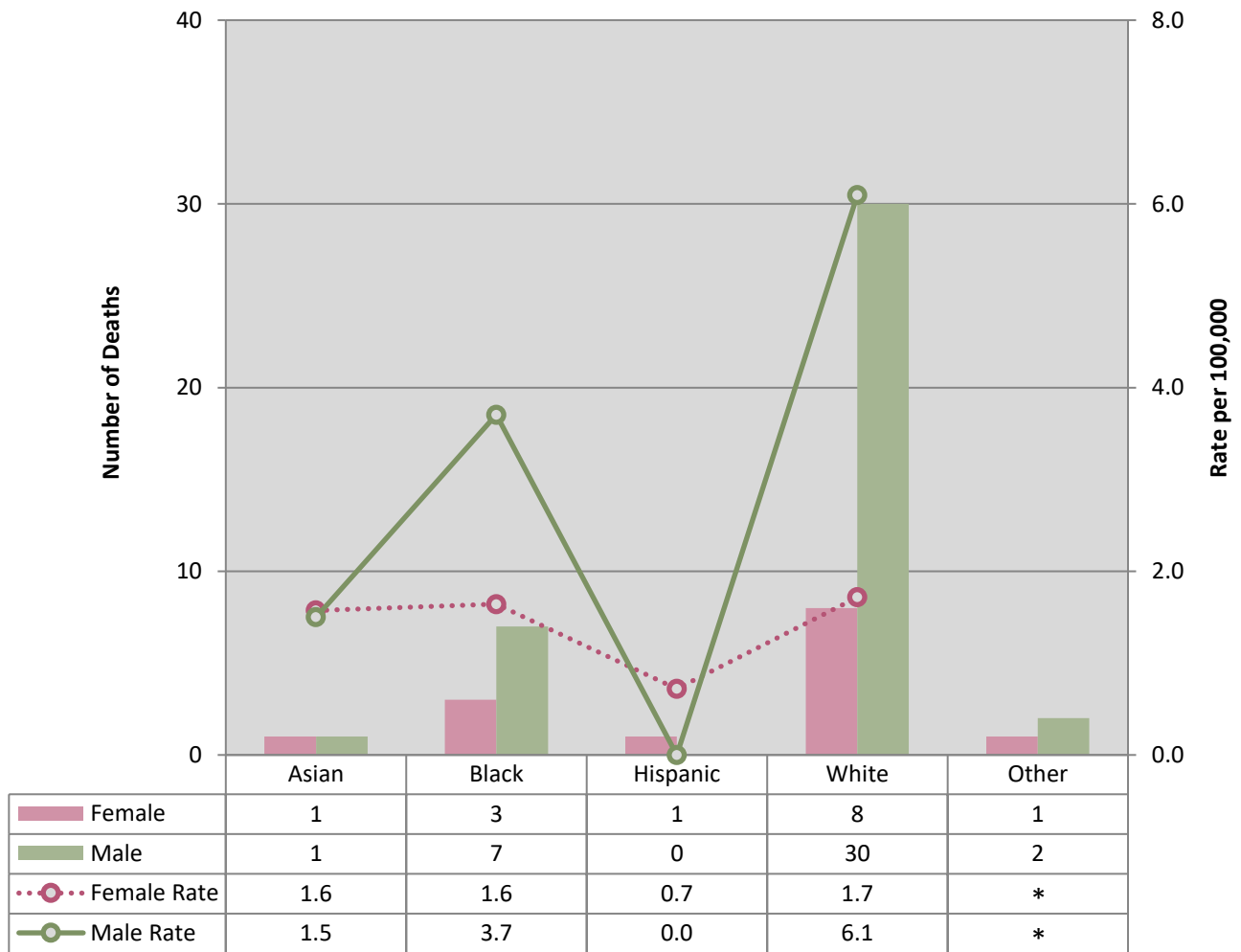


Figure 3.25 Number and Rate of Child Suicide Deaths by Gender and Race/Ethnicity, 2022



*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians, Black females, and Hispanic females)

Figure 3.26 Number of Child Suicide Deaths by Month, 2022

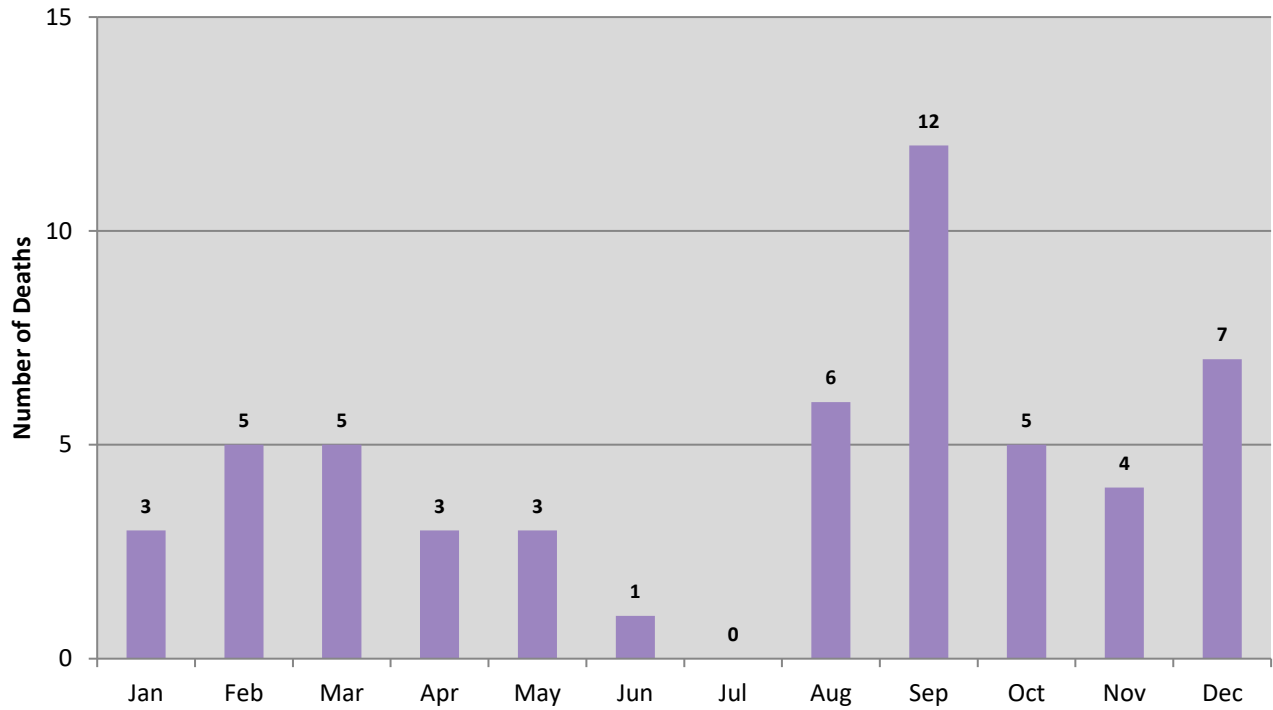


Figure 3.27 Number of Child Suicide Deaths by Day of the Week, 2022

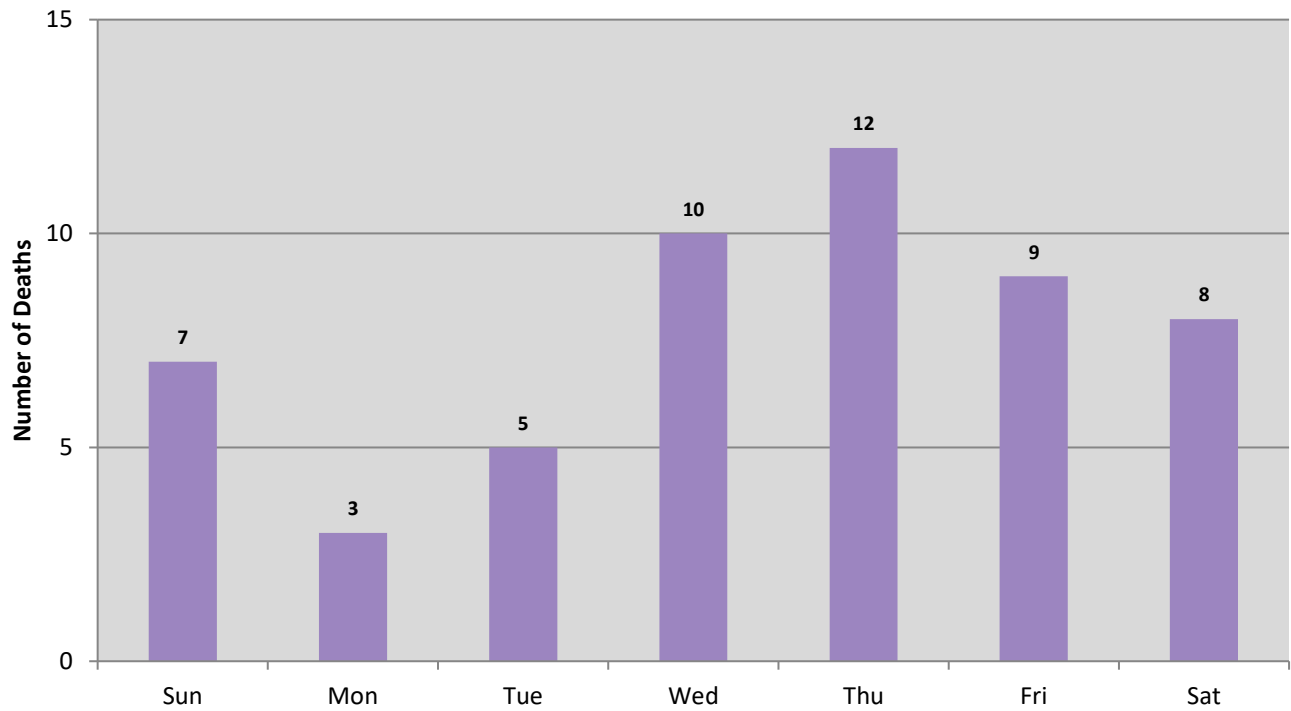


Table 3.4 Number of Child Suicide Deaths by Cause and Method of Death, 2022

Method of Death	Autopsied	Total Cases
Asphyxia		
Hanged	13	20
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	4	4
Jump/Fall		
Jumped/Fell from height	2	2
Motor Vehicle		
Train	0	1
Traumatic Injury		
Gunshot Wound		
Handgun	18	21
Rifle	3	3
Shotgun	1	1
Unknown	1	1
Sharp force injury	1	1
TOTAL CHILD SUICIDE DEATHS	43	54

UNDETERMINED CHILD DEATHS (N=127)

One hundred twenty-seven undetermined deaths of children occurred in 2022; an 11.4% increase from 2021 and representing 33.4% of all child deaths that fell under OCME jurisdiction in 2022.

- Infants <1 year old accounted for 82.7% of undetermined deaths
- Sudden unexpected infant death (SUID) deaths of infants <1 year of age represented 74.0% of all undetermined child deaths

Figure 3.28 Number and Rate of Undetermined Child Deaths by Year, 2006-2022

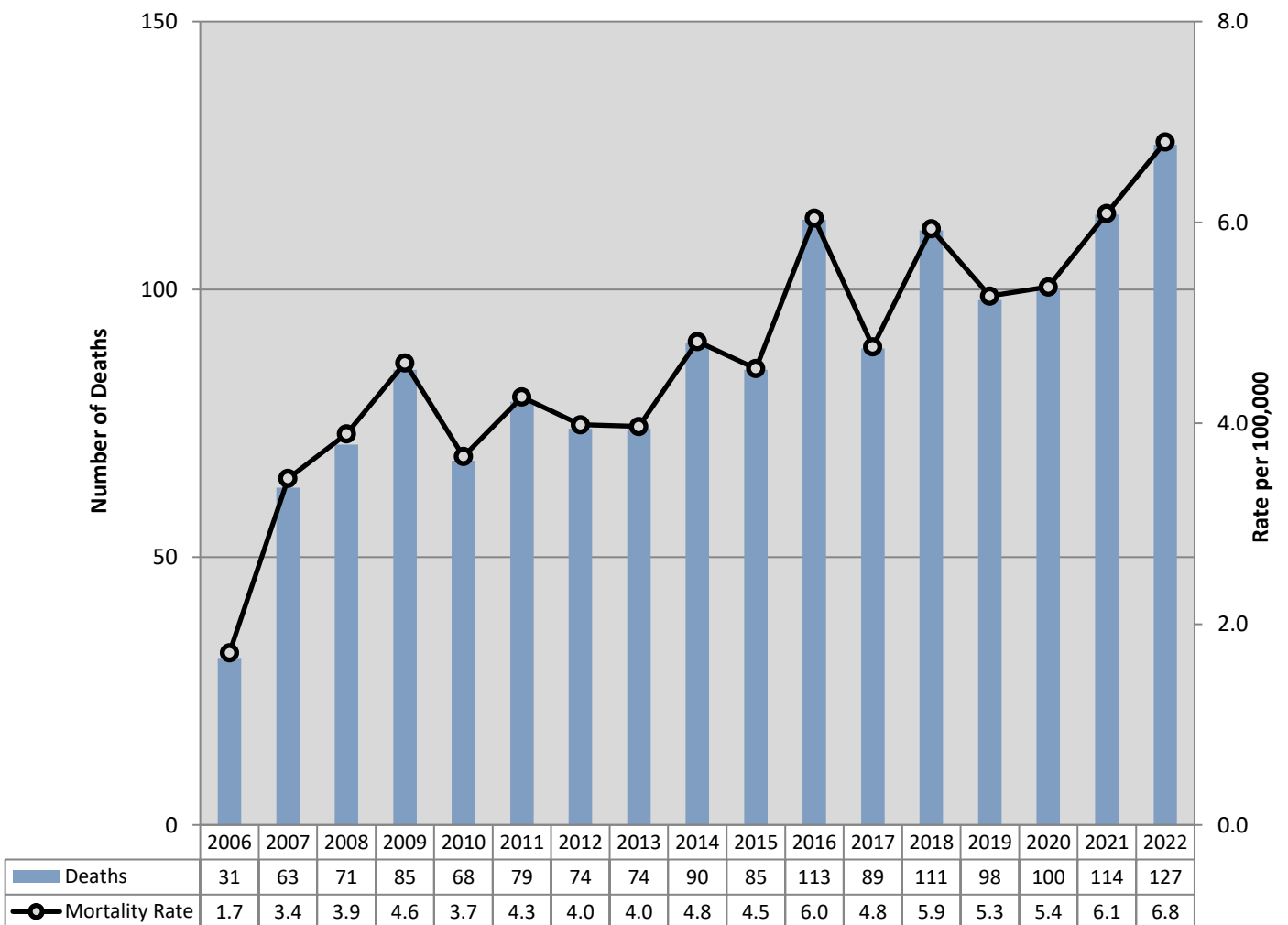


Figure 3.29 Number of Undetermined Child Deaths by Age and Gender, 2022

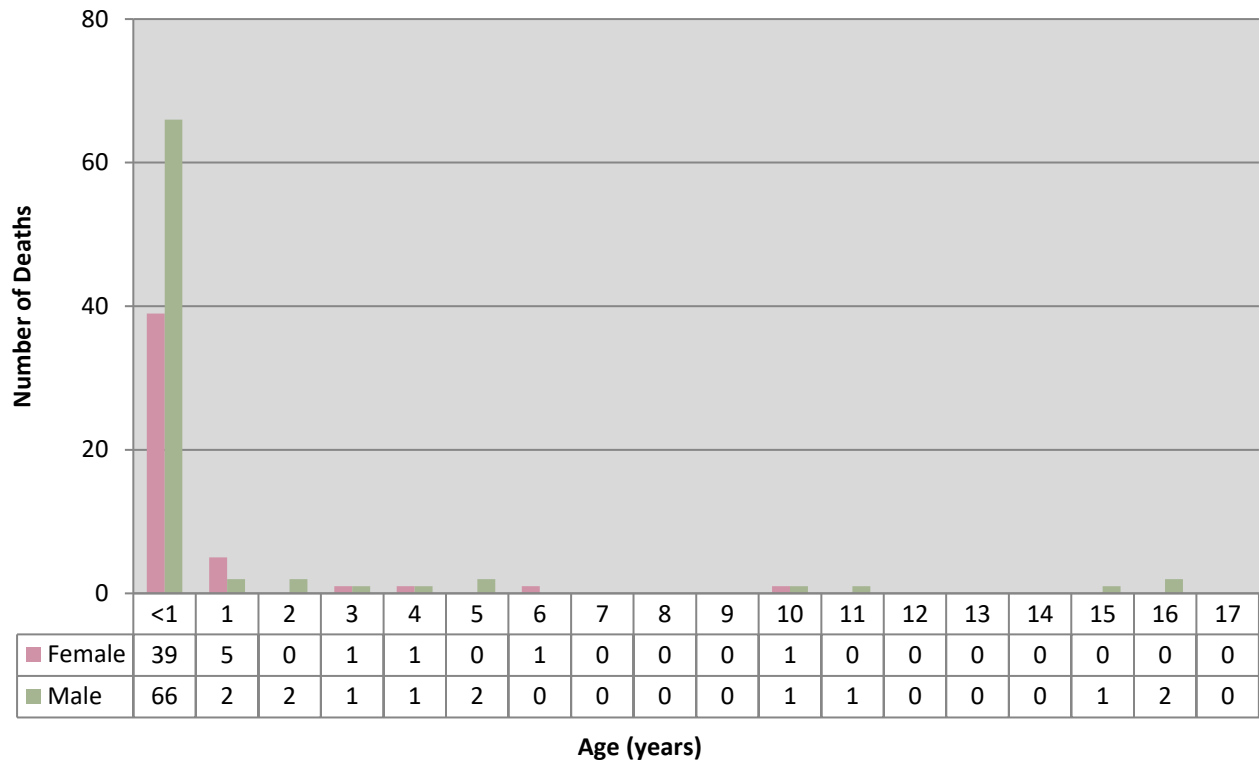


Figure 3.30 Percentage of Undetermined Child Deaths by Race/Ethnicity, 2022

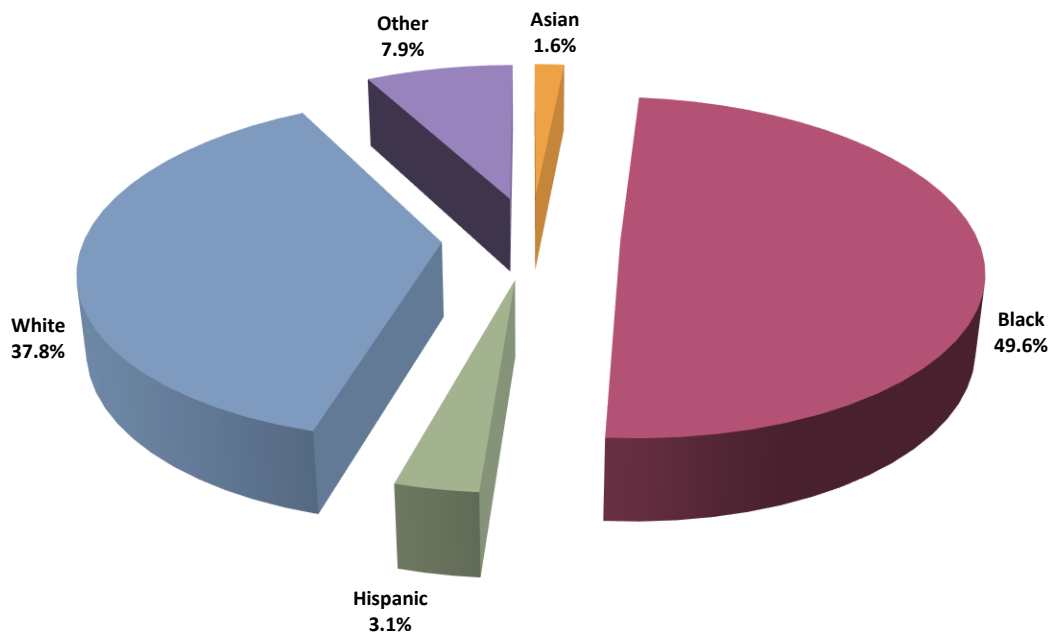
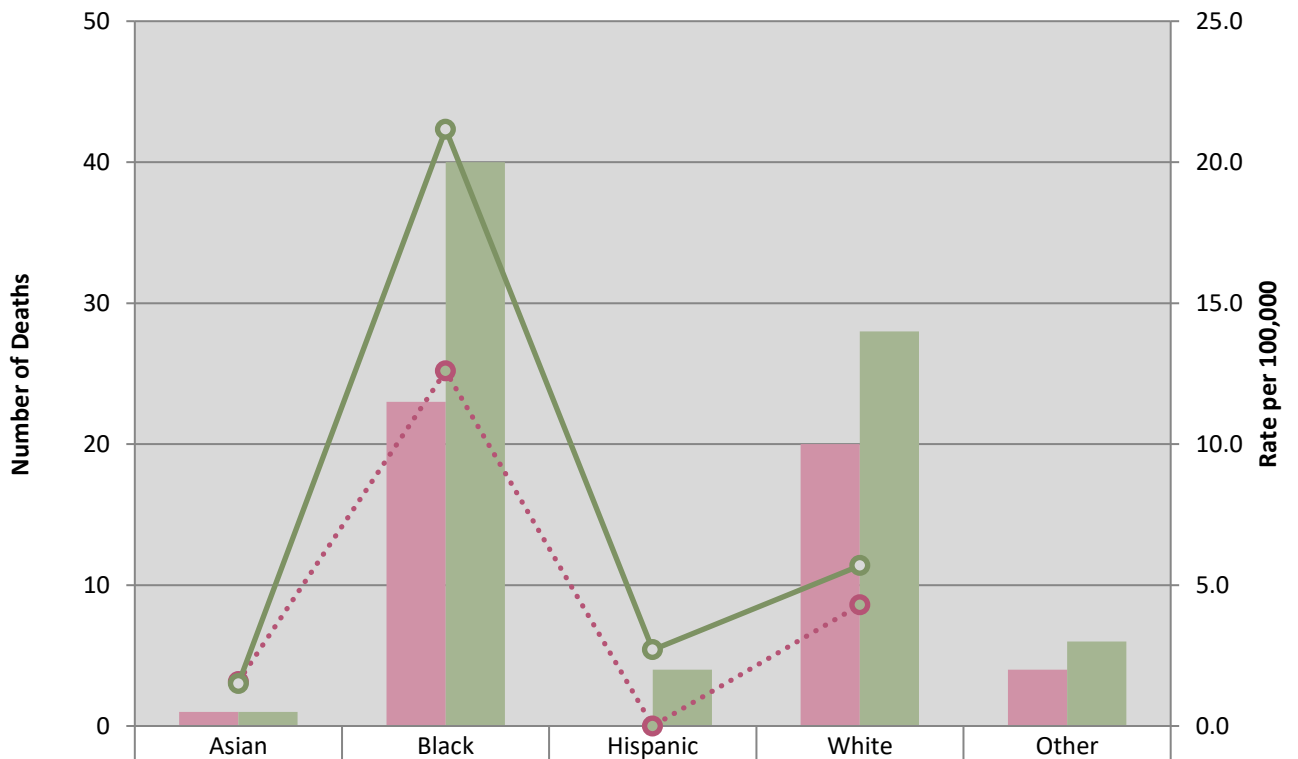


Figure 3.31 Number and Rate of Undetermined Child Deaths by Gender and Race/Ethnicity, 2022



Female	1	23	0	20	4
Male	1	40	4	28	6
Female Rate	1.6	12.6	0.0	4.3	*
Male Rate	1.5	21.2	2.7	5.7	*

*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians and Hispanic males)

Table 3.5 Number of Undetermined Child Deaths by Cause and Method of Death, 2022

Determined Cause and Method of Death	Autopsied	Total Cases
Asphyxia		
Choked on food or foreign object	1	1
Drowned	1	1
Hanged	2	2
Suffocated/Smothered	2	2
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	6	6
Gunshot Wound		
Gunshot wound		
Handgun	1	1
Unknown	1	1
Other Unnatural		
Other	2	2
<i>Subtotal for Determined Cause and Method of Death</i>	16	16
Undetermined Cause and Method of Death	Autopsied	Total Cases
Undetermined Manner and Cause of Death		
Sudden Unexpected Infant Death (SUID)	94	94
Other or undetermined after autopsy and/or toxicology	17	17
<i>Subtotal for Undetermined Manner and Cause of Death</i>	111	111
TOTAL UNDETERMINED CHILD DEATHS	127	127

SECTION 4: MOTOR VEHICLE FATALITIES (N=1,127)

The OCME investigated 1,127 motor vehicle collision-related deaths in 2022, which was very similar to 2021 (1,127 and 1,116 deaths, respectively, or a 1.0% increase).

- The vast majority of cases were accidents (98.6%) and victims were most often male (74.1%)
- Of the 863 (76.6%) motor vehicle fatalities tested for ethanol, 28.2% (n=243) had a blood alcohol concentration greater than or equal to 0.08%; of those 243 decedents who were at or above the legal limit of alcohol, 78.2% were drivers
- Persons aged 25-34 years old had more deaths (17.2%) due to motor vehicle incidents than any other age group, but males 85+ years had the highest rate of death (55.0 deaths per 100,000)
- Black males had the highest rate of fatal motor vehicle collisions (26.1 per 100,000)

Figure 4.1 Number and Rate of Motor Vehicle Deaths by Year, 2003-2022

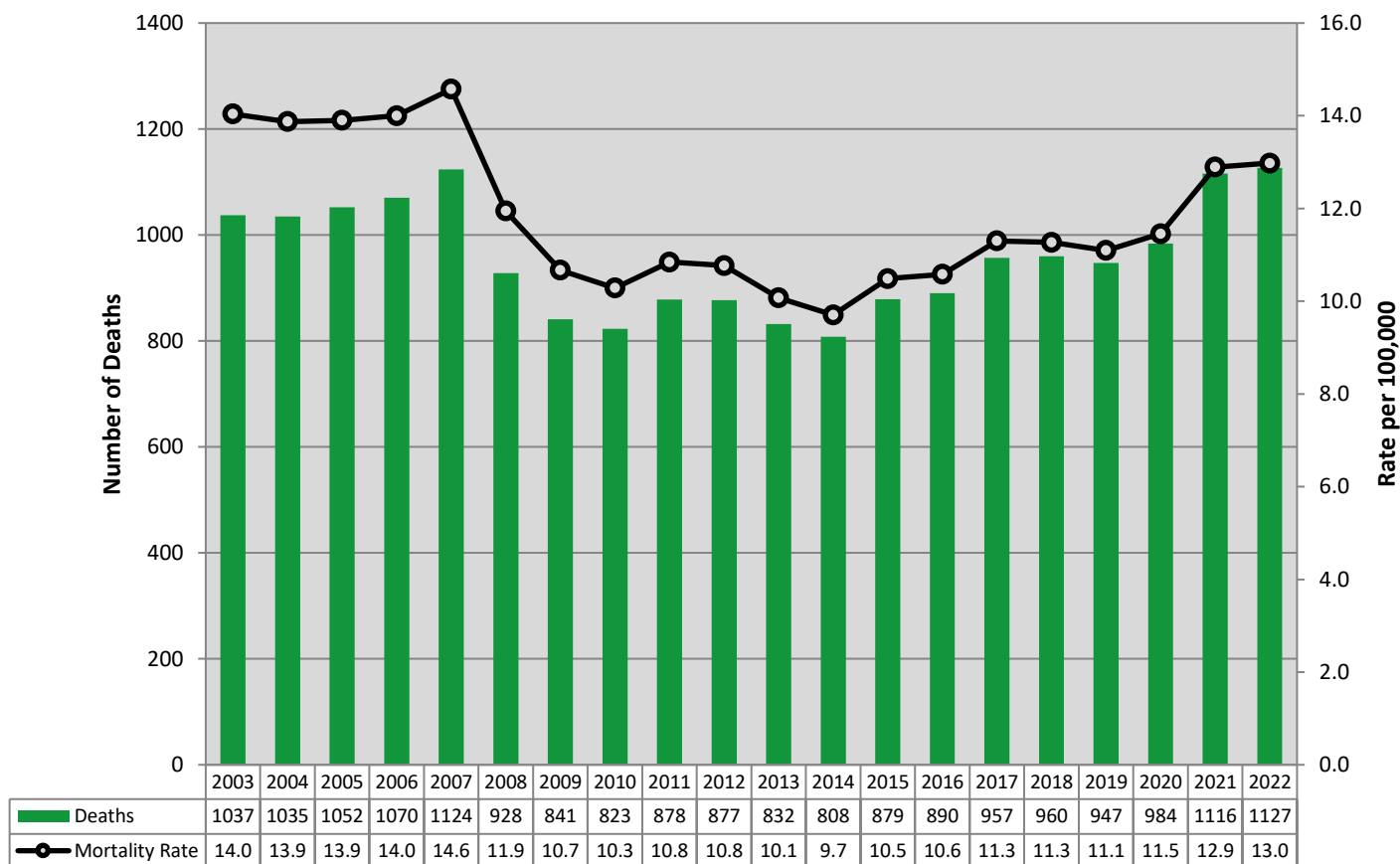
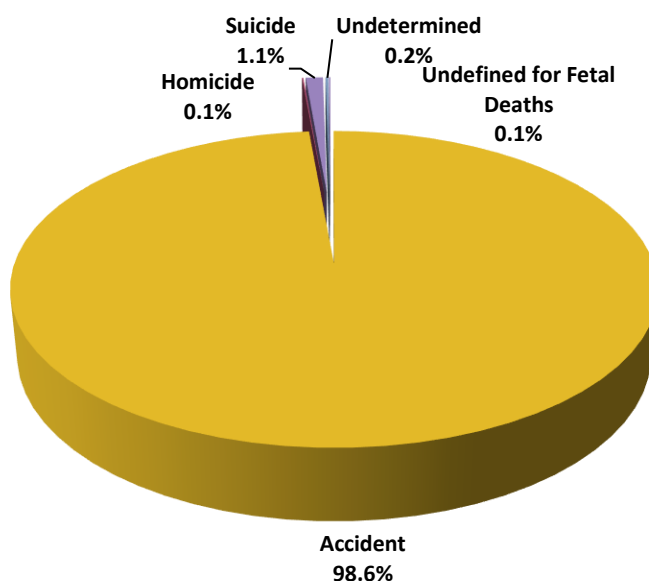
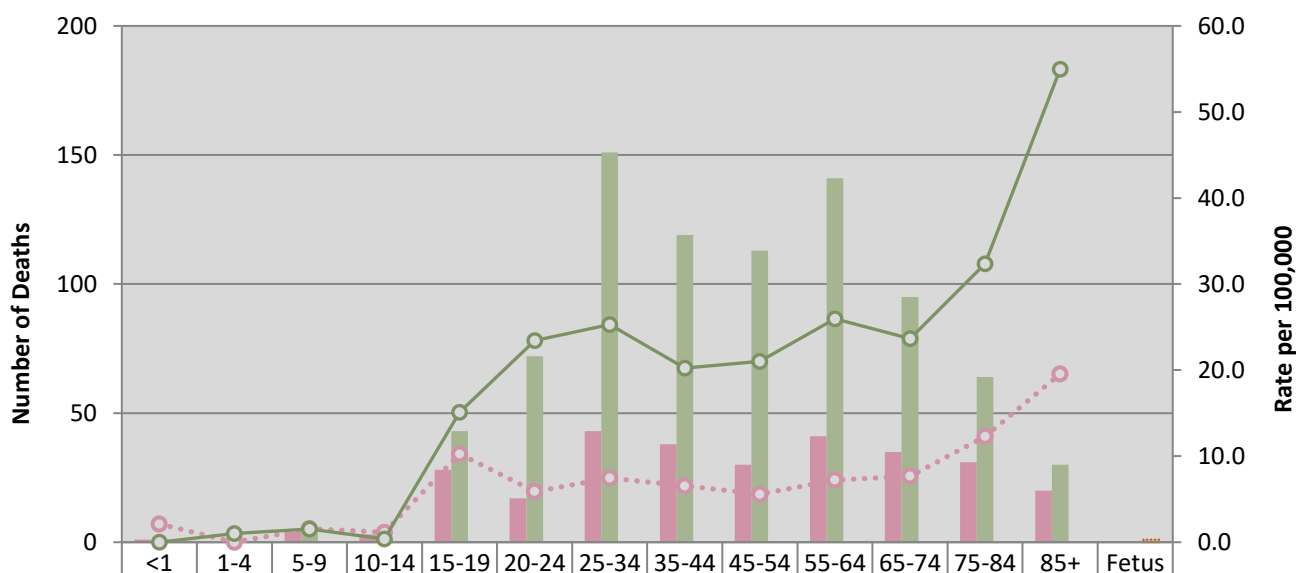


Figure 4.2 Percentage of Motor Vehicle Deaths by Manner, 2022



* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 4.3 Number and Rate of Motor Vehicle Deaths by Age Group and Gender, 2022



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Fetus
Female	1	0	4	3	28	17	43	38	30	41	35	31	20	0
Male	0	2	4	1	43	72	151	119	113	141	95	64	30	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Female Rate	2.1	0.0	1.6	1.2	10.3	5.9	7.4	6.6	5.6	7.2	7.7	12.3	19.6	*
Male Rate	0.0	1.0	1.5	0.4	15.1	23.4	25.3	20.2	21.0	26.0	23.6	32.3	55.0	*

* No rate can be calculated

** Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 4.4 Percentage of Motor Vehicle Deaths by Race/Ethnicity, 2022

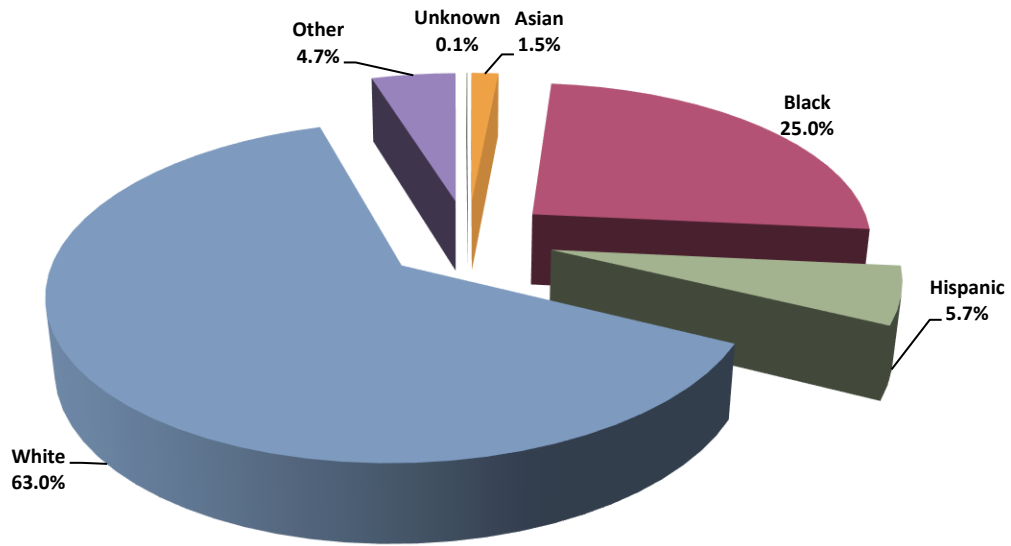
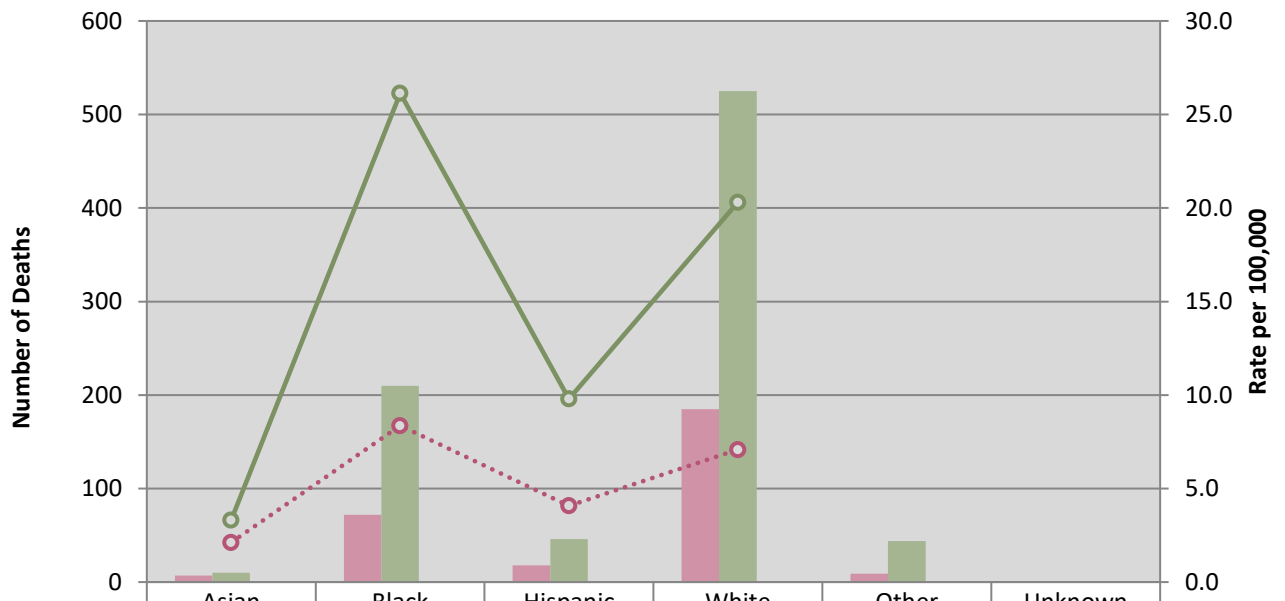


Figure 4.5 Number and Rate of Motor Vehicle Deaths by Race/Ethnicity and Gender, 2022

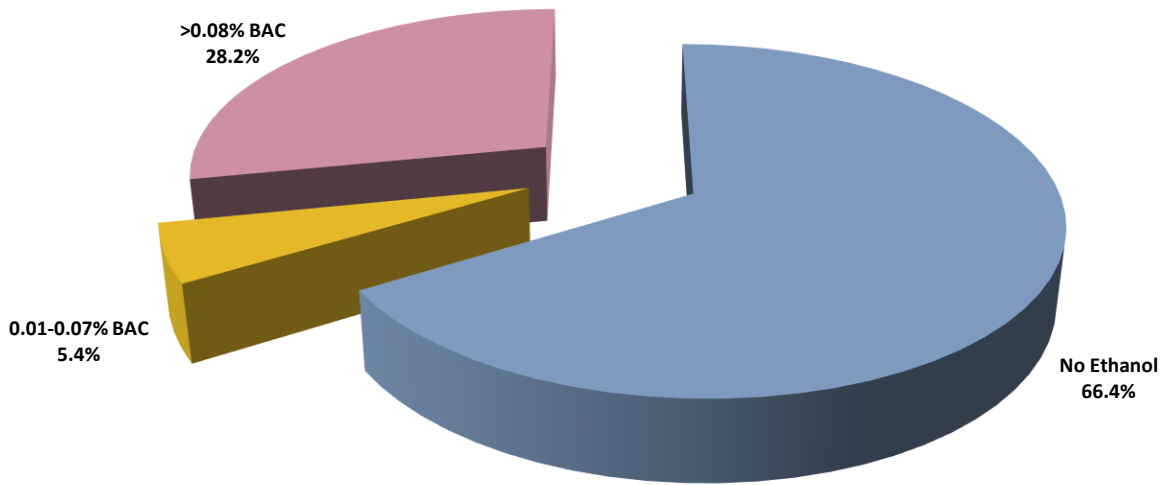


	Asian	Black	Hispanic	White	Other	Unknown
Female	7	72	18	185	9	0
Male	10	210	46	525	44	0
Female Rate	2.1	8.4	4.1	7.1	*	*
Male Rate	3.3	26.1	9.8	20.3	*	*

*No rate can be calculated

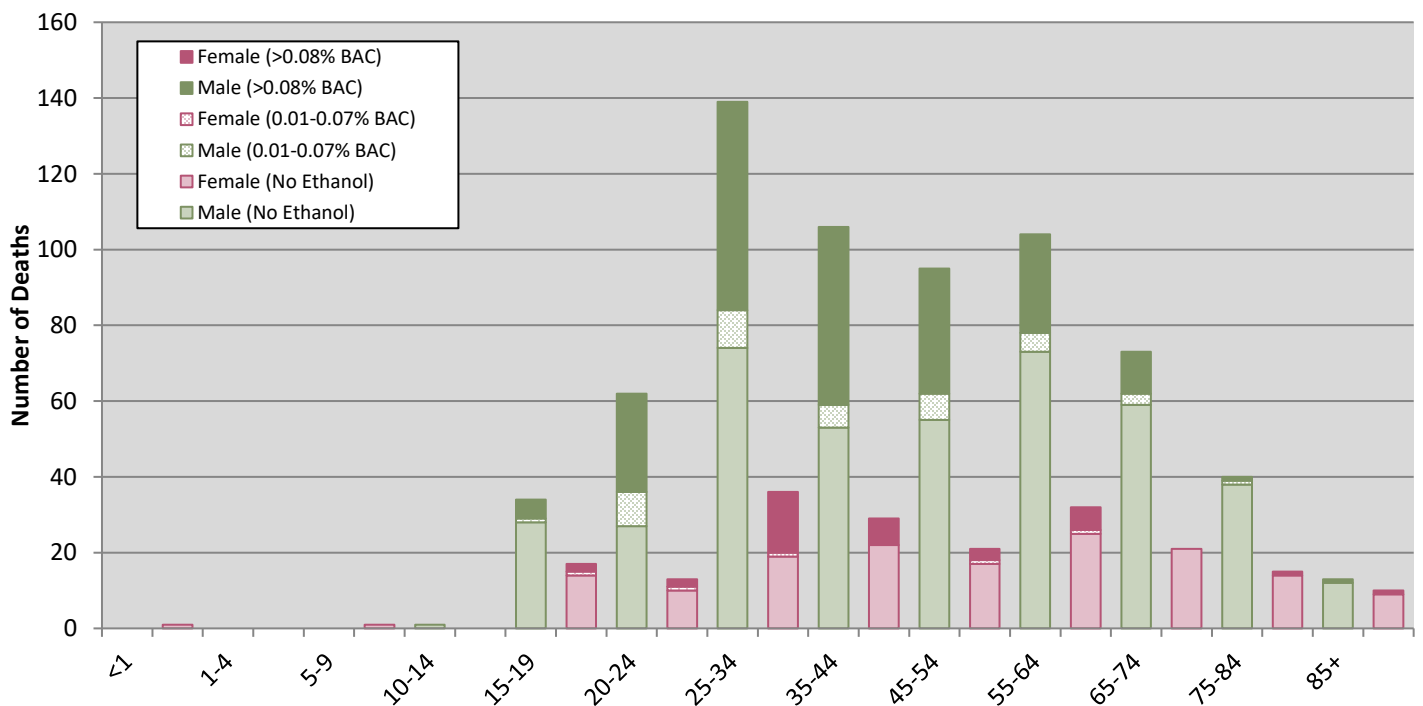
Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution

Figure 4.6 Percentage of Motor Vehicle Deaths by Ethanol Amount (N=863), 2022



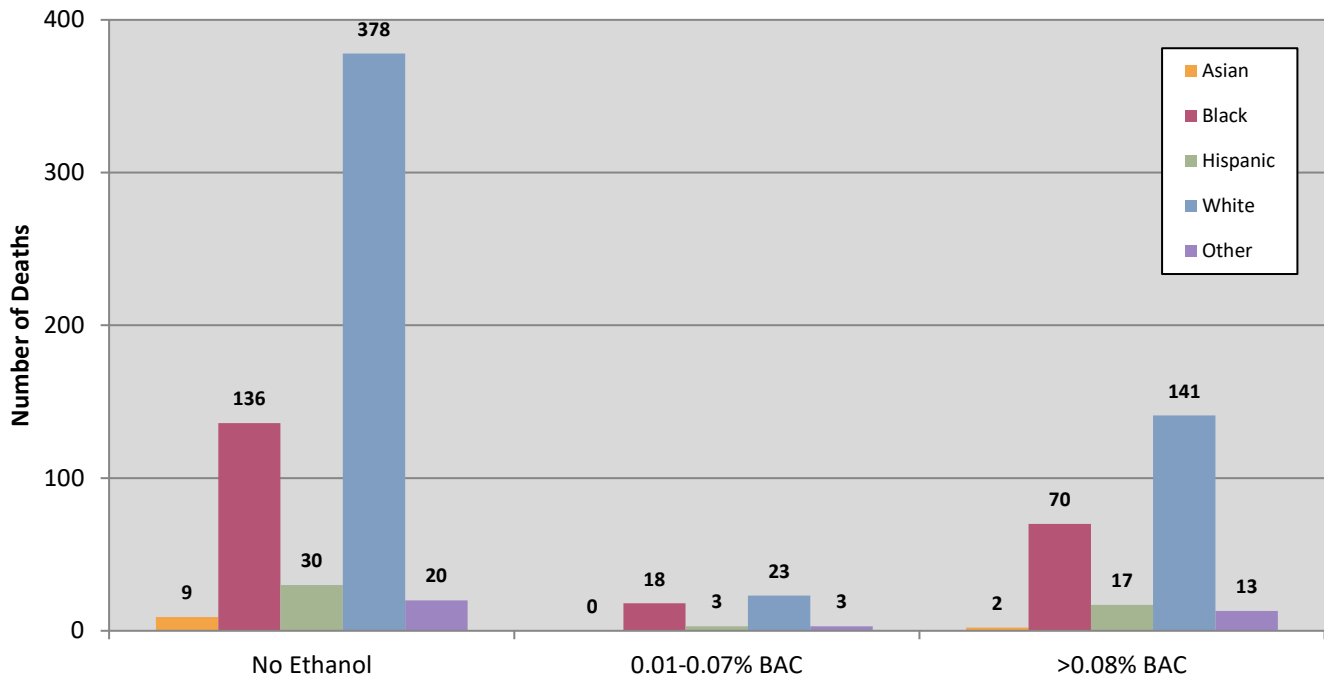
Note: Of the 1,127 motor vehicle deaths, 23.4% (n=264) did not receive toxicology testing

Figure 4.7 Number of Motor Vehicle Deaths by Age Group, Gender, and Ethanol Amount (N=863), 2022



Note: Of the 1,127 motor vehicle deaths, 23.4% (n=264) did not receive toxicology testing

Figure 4.8 Number of Motor Vehicle Deaths by Ethanol Level and Race/Ethnicity (N=863), 2022



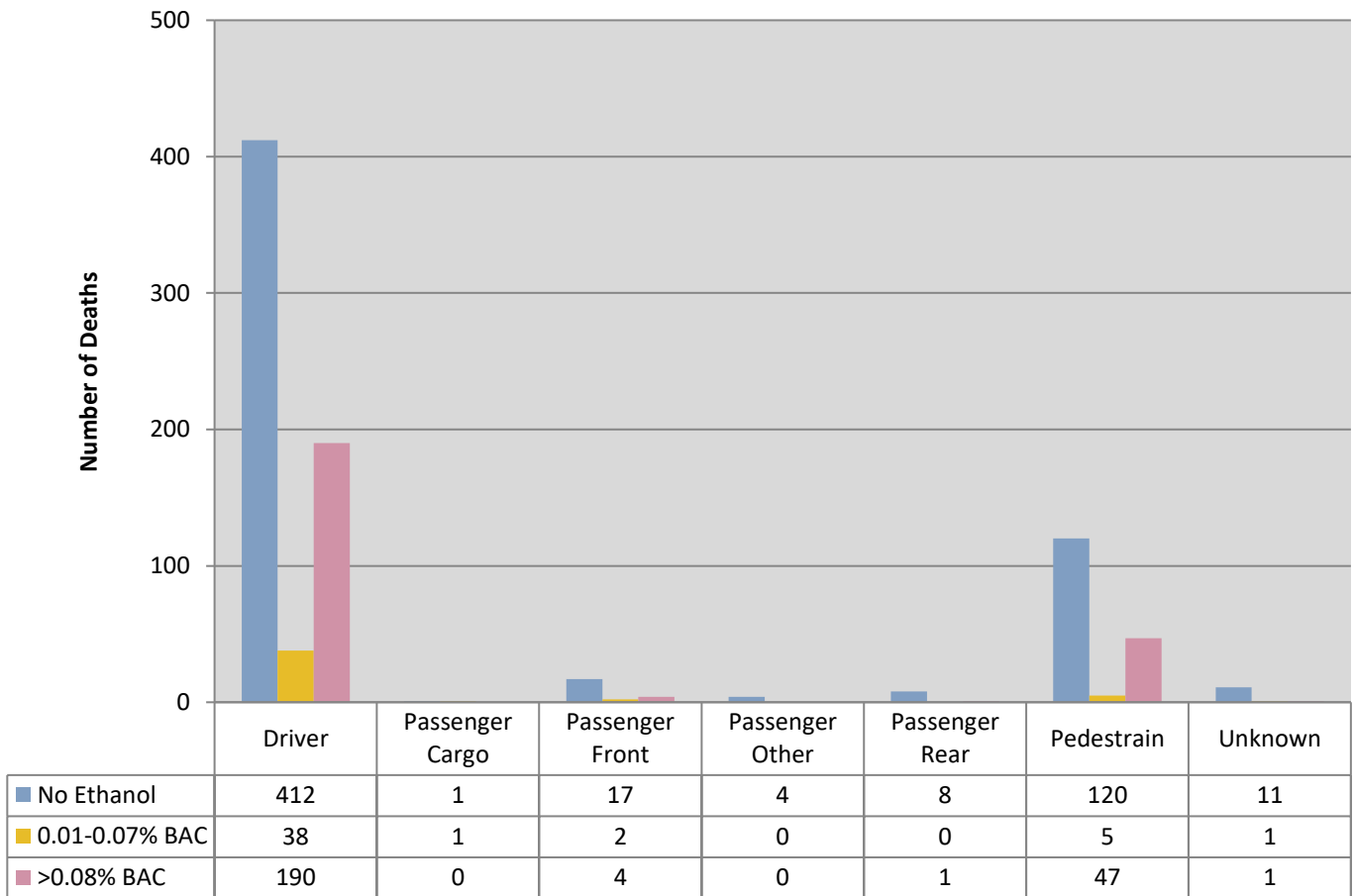
Note: Of the 1,127 motor vehicle deaths, 23.4% (n=264) did not receive toxicology testing

Table 4.1 Number of Motor Vehicle Deaths by Age Group and Position during Collision, 2022

Age Group (years)	Driver	Passenger Cargo	Passenger Front	Passenger Other	Passenger Rear	Pedestrian	Unknown	TOTAL
<1	0	0	0	0	0	1	0	1
1-4	0	0	0	0	1	1	0	2
5-9	1	0	1	1	5	0	0	8
10-14	1	0	0	0	1	2	0	4
15-19	45	1	9	1	4	10	1	71
20-24	62	0	7	1	7	11	1	89
25-34	142	1	15	1	8	21	6	194
35-44	109	0	10	1	6	27	4	157
45-54	96	0	14	0	0	26	7	143
55-64	109	0	13	1	3	51	5	182
65-74	83	0	6	0	3	33	5	130
75-84	54	1	17	1	0	18	4	95
85+	31	0	9	0	3	7	0	50
Fetus	0	0	0	1	0	0	0	1
TOTAL	733	3	101	8	41	208	33	1127

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 4.9 Number of Motor Vehicle Deaths by Position during Collision and Ethanol Level (N=863), 2022



Note: Of the 1,127 motor vehicle deaths, 23.4% (n=264) did not receive toxicology testing

Table 4.2 Number of Motor Vehicle Deaths by Position during Collision, Vehicle Type, and Ethanol Level (N=863), 2022

Position During Collision	Vehicle Type	No Ethanol	0.01-0.07% BAC	>0.08% BAC	Total
Driver	Aircraft	2	1	0	3
	All Terrain Vehicle	5	2	6	13
	Bicycle	7	0	5	12
	Car	171	11	85	267
	Farm Equipment	1	0	0	1
	Lawnmower	1	1	0	2
	Mo-Ped	6	1	0	7
	Motorcycle	70	10	25	105
	Pickup Truck	32	5	27	64
	Sport Utility Vehicle	72	3	27	102
	Tractor Trailer	9	2	0	11
	Truck Other	5	0	3	8
	Van	9	1	2	12
	Unknown	22	1	10	33
	Subtotal	412	38	190	640
Passenger Cargo	Boat	0	1	0	1
	Pickup Truck	1	0	0	1
	Subtotal	1	1	0	2
Passenger Front	Car	5	1	2	8
	Pickup Truck	6	0	1	7
	Sport Utility Vehicle	3	1	1	5
	Tractor Trailer	1	0	0	1
	Unknown	2	0	0	2
	Subtotal	17	2	4	23
Passenger Other	Bus	3	0	0	3
	Van	1	0	0	1
	Subtotal	4	0	0	4
Passenger Rear	Car	2	0	0	2
	Motorcycle	1	0	0	1
	Pickup Truck	2	0	0	2
	Sport Utility Vehicle	1	0	1	2
	Unknown	1	0	0	1
	Van	1	0	0	1
	Subtotal	8	0	1	9
Pedestrian	Bicycle	1	0	0	1
	Boat	1	0	0	1
	Bus	1	0	0	1

	Car	44	2	22	68
	Farm Equipment	2	0	1	3
	Multiple	3	0	2	5
	Pickup Truck	11	1	3	15
	Sport Utility Vehicle	23	1	6	30
	Street Sweeper	0	0	1	1
	Tractor Trailer	6	0	0	6
	Train	5	0	1	6
	Truck Other	2	0	1	3
	Van	4	1	3	8
	Unknown	17	0	7	24
	Subtotal	120	5	47	172
Unknown	Car	2	0	1	3
	Pickup Truck	1	0	0	1
	Sport Utility Vehicle	1	0	0	1
	Unknown	7	1	0	8
	Subtotal	11	1	1	13

Note: Of the 1,127 motor vehicle deaths, 23.4% (n=264) did not receive toxicology testing

Figure 4.10 Number of OCME Motor Vehicle Fatalities by Month of Death, 2022

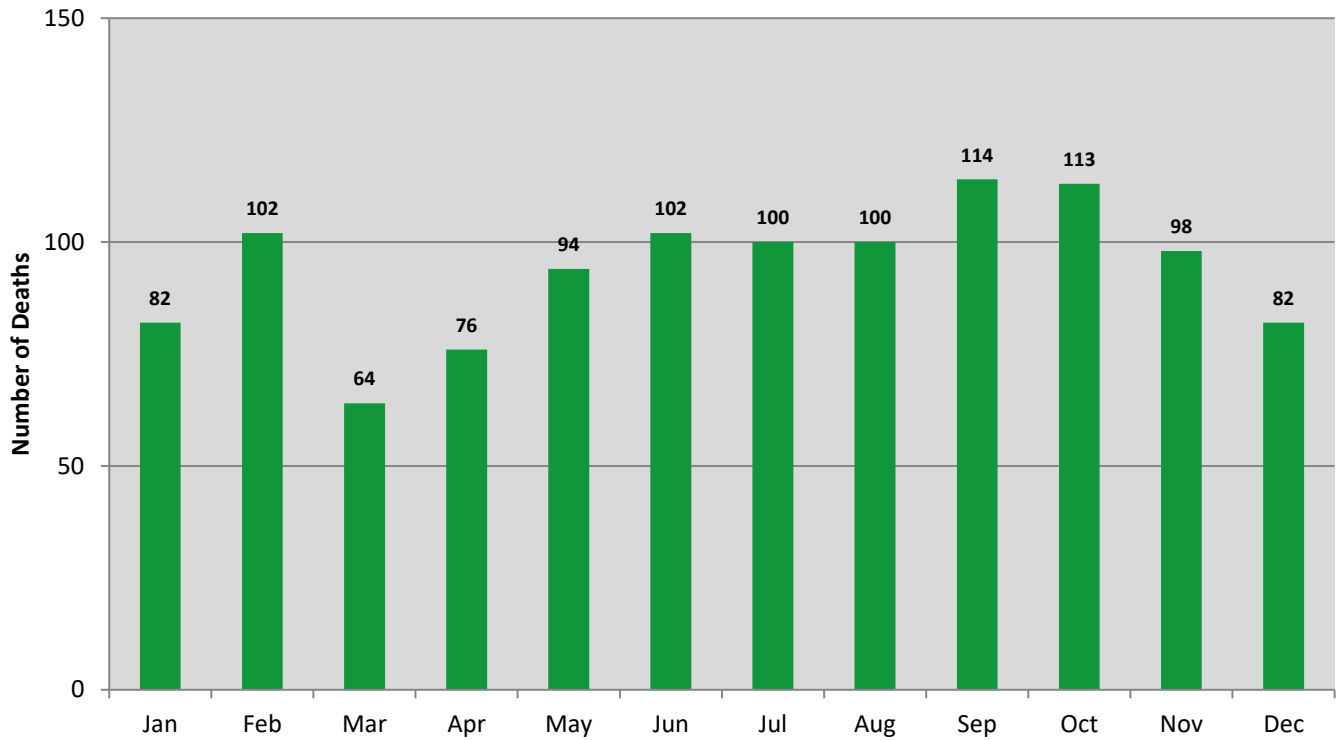


Figure 4.11 Number of OCME Motor Vehicle Fatalities by Day of Week, 2022

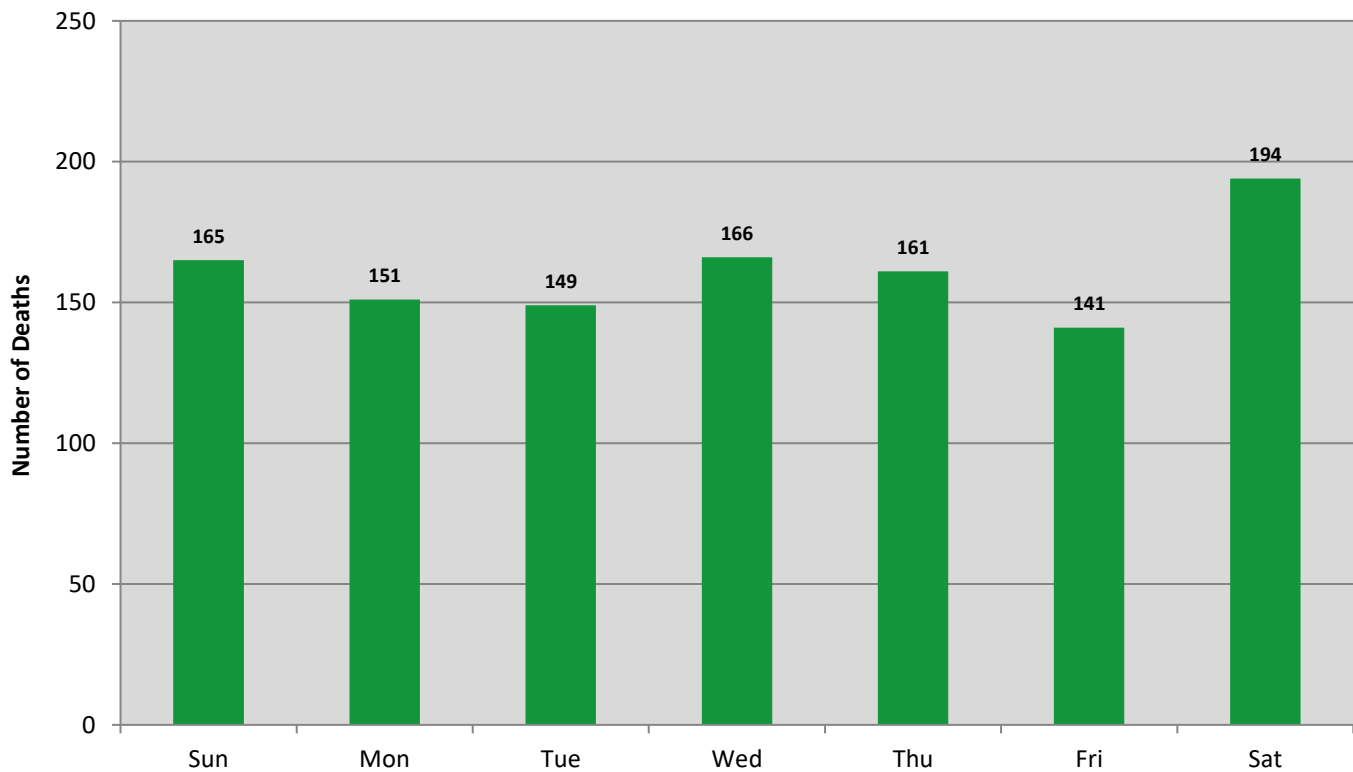


Table 4.3 Number and Rate of Motor Vehicle Deaths by Locality of Residence, 2022

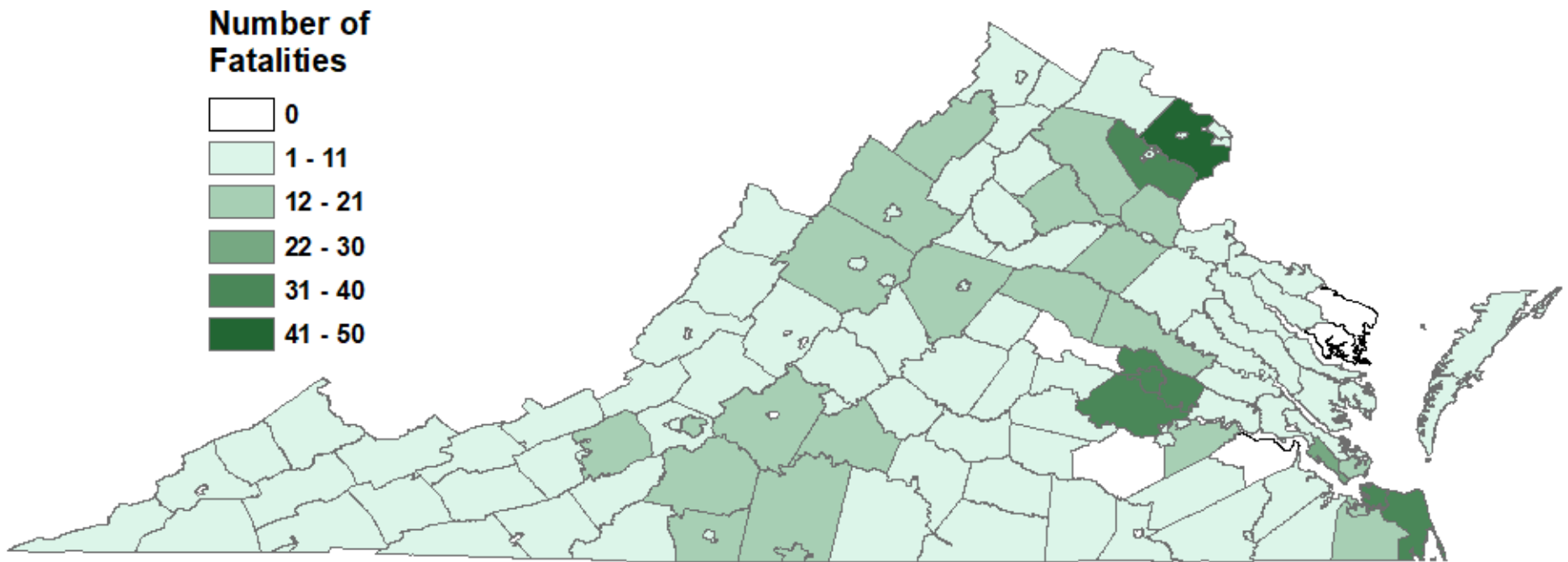
Locality of Residence	Deaths	Rate	Locality of Residence	Deaths	Rate
Accomack County	5	15.1	Falls Church City	0	0.0
Albemarle County	16	14.0	Fauquier County	11	14.7
Alexandria City	7	4.5	Floyd County	5	32.0
Alleghany County	5	33.7	Fluvanna County	5	17.8
Amelia County	4	29.7	Franklin City	3	36.4
Amherst County	6	19.0	Franklin County	15	27.2
Appomattox County	5	29.9	Frederick County	10	10.5
Arlington County	5	2.1	Fredericksburg City	6	20.9
Augusta County	13	16.7	Galax City	0	0.0
Bath County	1	24.7	Giles County	6	36.5
Bedford County	14	17.3	Gloucester County	8	20.3
Bland County	1	16.3	Goochland County	0	0.0
Botetourt County	5	14.6	Grayson County	3	19.6
Bristol City	3	17.7	Greene County	3	14.2
Brunswick County	9	56.5	Greensville County	2	17.8
Buchanan County	4	20.7	Halifax County	3	8.9
Buckingham County	5	29.4	Hampton City	16	11.6
Buena Vista City	0	0.0	Hanover County	17	15.1
Campbell County	14	25.4	Harrisonburg City	5	9.8
Caroline County	8	25.0	Henrico County	33	9.9
Carroll County	5	17.2	Henry County	12	24.0
Charles City County	2	30.3	Highland County	3	130.4
Charlotte County	5	43.6	Hopewell City	4	17.4
Charlottesville City	1	2.2	Isle of Wight County	6	14.9
Chesapeake City	19	7.5	James City County	10	12.3
Chesterfield County	39	10.3	King and Queen County	4	59.5
Clarke County	7	45.9	King George County	3	10.8
Colonial Heights City	3	16.4	King William County	7	37.9
Covington City	0	0.0	Lancaster County	0	0.0
Craig County	1	20.6	Lee County	2	9.1
Culpeper County	12	22.1	Lexington City	0	0.0
Cumberland County	3	30.8	Loudoun County	9	2.1
Danville City	11	26.0	Louisa County	11	27.4
Dickenson County	2	14.6	Lunenburg County	5	41.6
Dinwiddie County	0	0.0	Lynchburg City	6	7.6
Emporia City	0	0.0	Madison County	1	7.1
Essex County	3	28.2	Manassas City	3	7.0
Fairfax City	1	4.0	Manassas Park City	2	12.0
Fairfax County	50	4.4	Martinsville City	3	21.9

Locality of Residence	Deaths	Rate
Mathews County	2	23.6
Mecklenburg County	7	22.9
Middlesex County	2	18.3
Montgomery County	12	12.1
Nelson County	2	13.7
New Kent County	4	16.0
Newport News City	22	11.9
Norfolk City	32	13.7
Northampton County	4	33.6
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	8	51.4
Orange County	5	13.2
Page County	7	29.5
Patrick County	2	11.3
Petersburg City	5	15.0
Pittsylvania County	11	18.3
Poquoson City	1	7.9
Portsmouth City	14	14.4
Powhatan County	7	22.2
Prince Edward County	7	31.9
Prince George County	12	27.8
Prince William County	38	7.8
Pulaski County	5	14.8
Radford City	2	11.9
Rappahannock County	1	13.3
Richmond City	39	17.0
Richmond County	3	33.0
Roanoke City	16	16.4
Roanoke County	10	10.3
Rockbridge County	6	26.6
Rockingham County	17	19.9
Russell County	3	11.8
Salem City	4	15.7
Scott County	2	9.3
Shenandoah County	11	24.5
Smyth County	3	10.2
Southampton County	4	22.3
Spotsylvania County	17	11.6
Stafford County	15	9.2
Staunton City	2	7.7

Locality of Residence	Deaths	Rate
Suffolk City	8	8.1
Surry County	0	0.0
Sussex County	1	9.4
Tazewell County	9	22.6
Virginia Beach City	34	7.5
Warren County	1	2.4
Washington County	2	3.7
Waynesboro City	4	17.5
Westmoreland County	5	26.7
Williamsburg City	0	0.0
Winchester City	3	10.7
Wise County	1	2.8
Wythe County	5	17.8
York County	5	7.0
<i>Subtotal (in-state)</i>	978	11.3
Out of State	138	ND
Unknown	11	ND
<i>Subtotal (out-of-state)</i>	149	ND
TOTAL	1127	13.0

Note: No denominator is represented by ND

Map 4.1 Number of Motor Vehicle Fatalities by Locality of Residence, 2022



Map 4.2 Rate of Motor Vehicle Fatalities by Locality of Residence, 2022

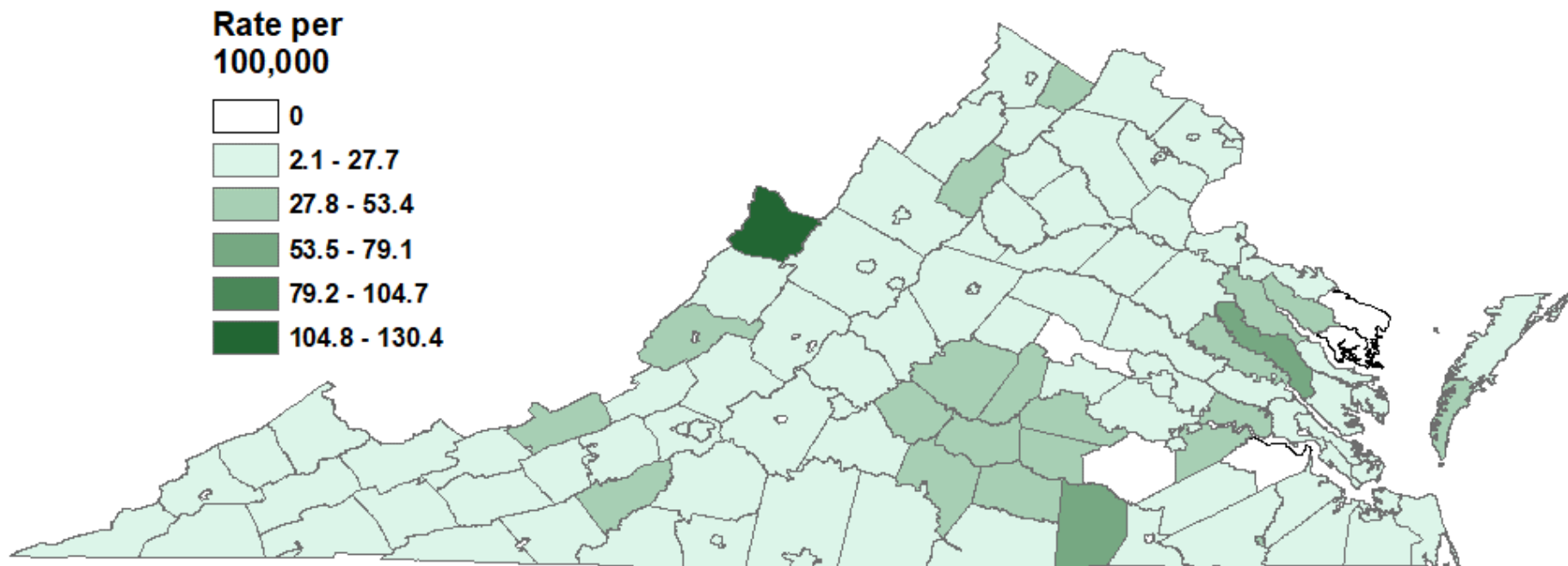


Table 4.4 Number and Rate of Motor Vehicle Deaths by Locality of Injury, 2022

Locality of Injury	Deaths	Rate
Accomack County	6	18.1
Albemarle County	17	14.8
Alexandria City	8	5.1
Alleghany County	3	20.2
Amelia County	3	22.3
Amherst County	4	12.7
Appomattox County	6	35.8
Arlington County	3	1.3
Augusta County	21	26.9
Bath County	1	24.7
Bedford County	17	21.0
Bland County	2	32.5
Botetourt County	9	26.4
Bristol City	0	0.0
Brunswick County	8	50.2
Buchanan County	4	20.7
Buckingham County	3	17.7
Buena Vista City	1	15.2
Campbell County	13	23.6
Caroline County	8	25.0
Carroll County	8	27.4
Charles City County	3	45.4
Charlotte County	6	52.3
Charlottesville City	2	4.4
Chesapeake City	16	6.3
Chesterfield County	37	9.8
Clarke County	8	52.4
Colonial Heights City	3	16.4
Covington City	0	0.0
Craig County	1	20.6
Culpeper County	6	11.0
Cumberland County	1	10.3
Danville City	10	23.7
Dickenson County	0	0.0
Dinwiddie County	5	17.8
Emporia City	1	18.2
Essex County	1	9.4
Fairfax City	1	4.0
Fairfax County	71	6.2
Falls Church City	0	0.0
Fauquier County	21	28.1
Floyd County	5	32.0
Fluvanna County	0	0.0

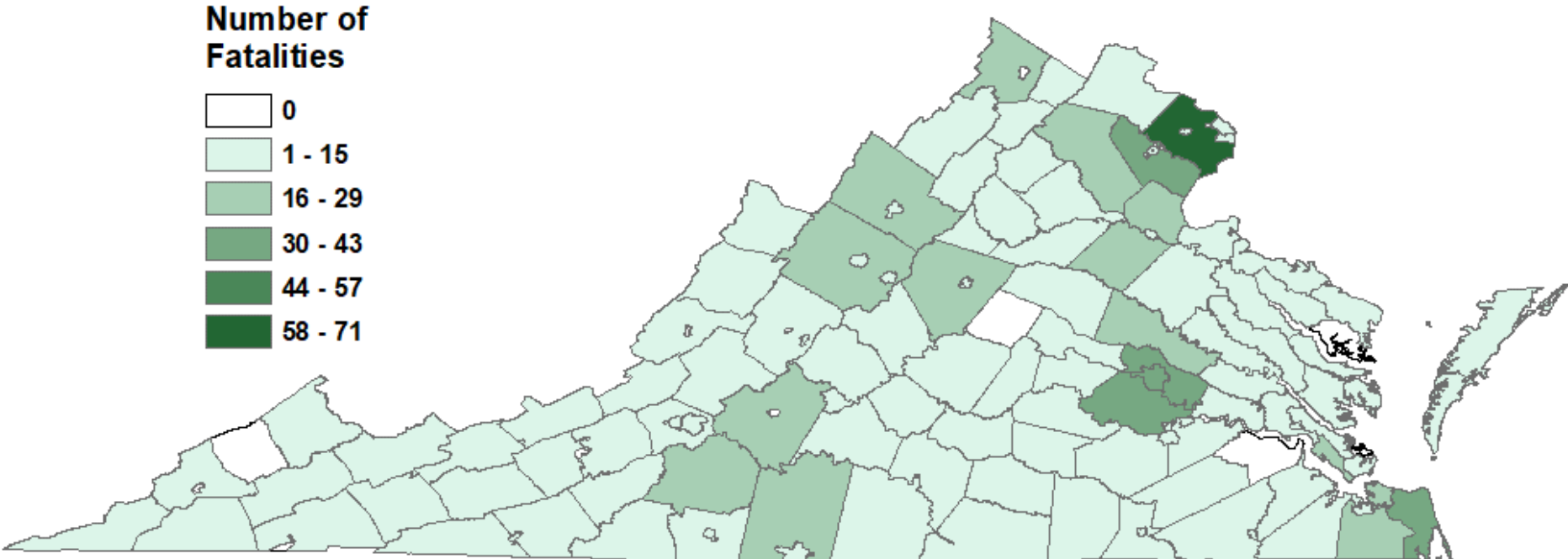
Locality of Injury	Deaths	Rate
Franklin City	2	24.3
Franklin County	20	36.3
Frederick County	16	16.8
Fredericksburg City	5	17.4
Galax City	1	14.9
Giles County	6	36.5
Gloucester County	8	20.3
Goochland County	6	23.0
Grayson County	4	26.1
Greene County	2	9.5
Greensville County	1	8.9
Halifax County	10	29.7
Hampton City	15	10.9
Hanover County	23	20.4
Harrisonburg City	7	13.7
Henrico County	35	10.5
Henry County	11	22.0
Highland County	2	86.9
Hopewell City	1	4.4
Isle of Wight County	10	24.9
James City County	9	11.1
King and Queen County	4	59.5
King George County	7	25.1
King William County	6	32.4
Lancaster County	0	0.0
Lee County	2	9.1
Lexington City	0	0.0
Loudoun County	14	3.2
Louisa County	13	32.4
Lunenburg County	3	24.9
Lynchburg City	3	3.8
Madison County	1	7.1
Manassas City	1	2.3
Manassas Park City	0	0.0
Martinsville City	2	14.6
Mathews County	4	47.1
Mecklenburg County	11	36.1
Middlesex County	3	27.4
Montgomery County	12	12.1
Nelson County	7	47.8
New Kent County	5	20.0
Newport News City	20	10.9
Norfolk City	24	10.3

Locality of Injury	Deaths	Rate
Northampton County	4	33.6
Northumberland County	1	8.1
Norton City	0	0.0
Nottoway County	9	57.8
Orange County	5	13.2
Page County	6	25.3
Patrick County	6	34.0
Petersburg City	7	21.0
Pittsylvania County	17	28.4
Poquoson City	0	0.0
Portsmouth City	14	14.4
Powhatan County	12	38.1
Prince Edward County	8	36.5
Prince George County	14	32.5
Prince William County	31	6.4
Pulaski County	9	26.7
Radford City	0	0.0
Rappahannock County	1	13.3
Richmond City	34	14.8
Richmond County	2	22.0
Roanoke City	14	14.3
Roanoke County	11	11.4
Rockbridge County	8	35.4
Rockingham County	16	18.7
Russell County	4	15.7
Salem City	1	3.9
Scott County	4	18.6
Shenandoah County	11	24.5

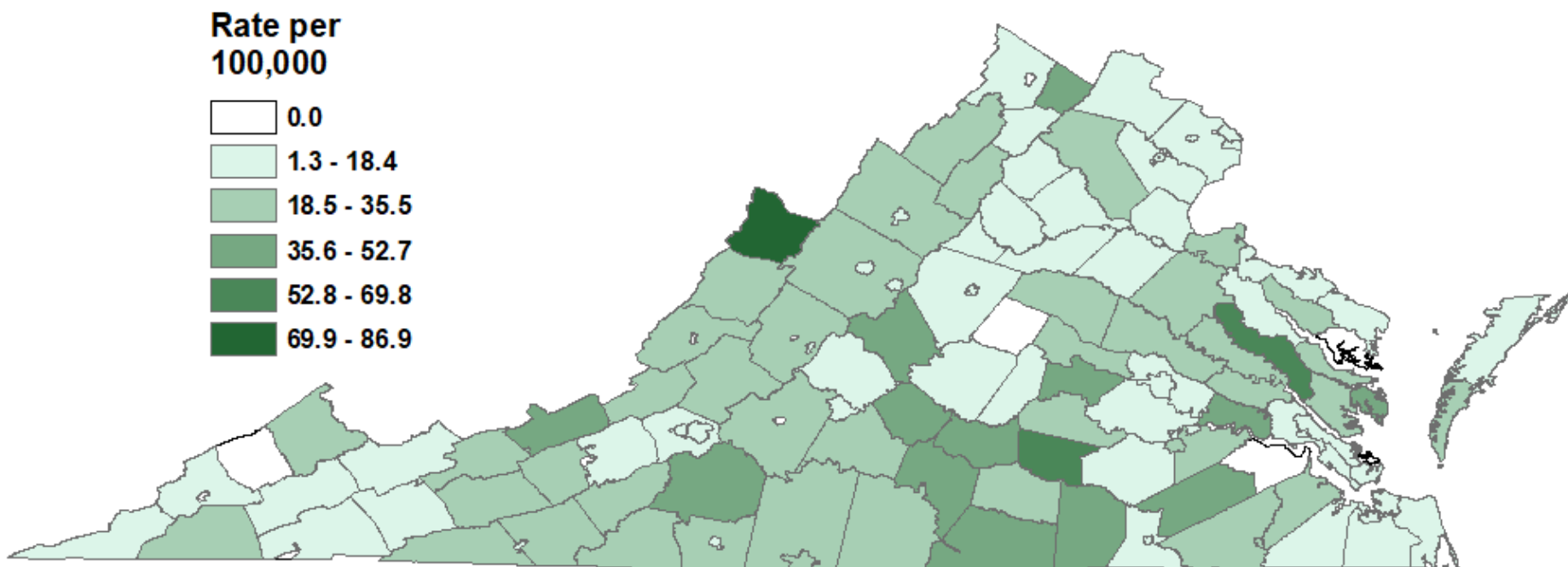
Locality of Injury	Deaths	Rate
Smyth County	1	3.4
Southampton County	6	33.5
Spotsylvania County	25	17.0
Stafford County	17	10.4
Staunton City	3	11.6
Suffolk City	8	8.1
Surry County	0	0.0
Sussex County	5	46.8
Tazewell County	7	17.6
Virginia Beach City	32	7.0
Warren County	2	4.8
Washington County	9	16.7
Waynesboro City	2	8.8
Westmoreland County	2	10.7
Williamsburg City	2	12.6
Winchester City	0	0.0
Wise County	4	11.3
Wythe County	8	28.5
York County	12	16.8
Subtotal (in-state)	1073	12.4
Out of State	36	ND
Unknown	18	ND
Subtotal (out-of-state)	54	ND
TOTAL	1127	13.0

Note: No denominator is represented by ND

Map 4.3 Number of Motor Vehicle Fatalities by Locality of Injury, 2022



Map 4.4 Rate of Motor Vehicle Fatalities by Locality of Injury, 2022



SECTION 5: DRUG/POISON DEATHS (N=2,617)

ALL DRUG/POISON DEATHS (N=2,617)

The number of fatal drug overdoses in 2022 decreased 1.9% compared to 2021. The number of fatal drug overdoses in 2021 was the largest number ever seen in Virginia.

- The 2022 rate of drug/poison deaths that occurred in Virginia was 30.1 per 100,000 persons
- The majority were accidents (95.5%), male (70.5%), White (60.9%), and 35-44 years old (26.2%)
- Fentanyl was involved in 75.9% of all drug overdose deaths in 2022
- Black males had the highest rate of fatal overdoses, all substances in 2022, followed by Native American males and White males (76.4, 42.9, and 41.5 per 100,000, respectively)

Figure 5.1 Number and Rate of Fatal Drug/Poison Overdoses by Year of Death, 1999-2022

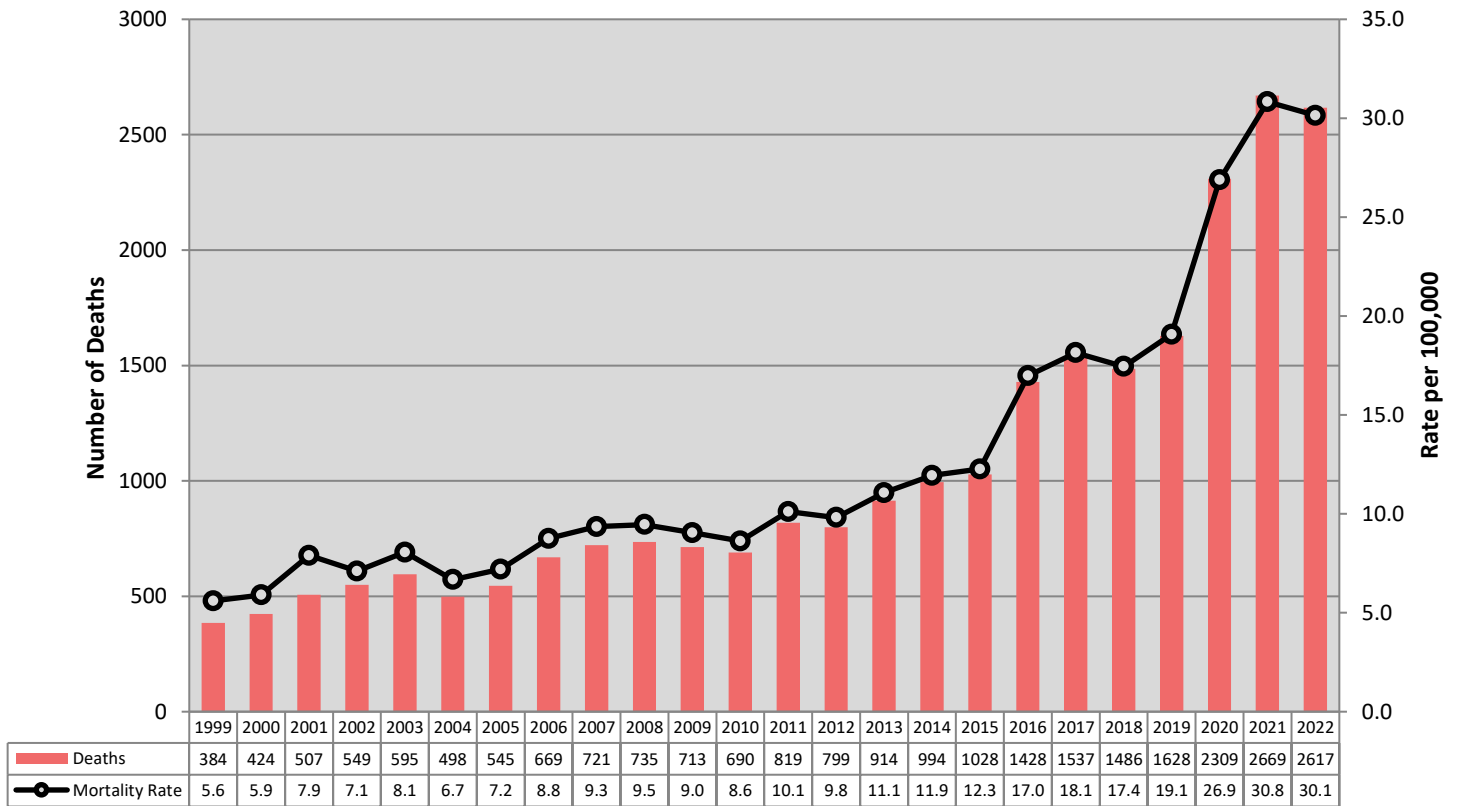


Table 5.1 Number and Percentage of Fatal Drug/Poison Overdoses by OCME District, 2022

OCME District	Number	Percentage
Central	894	34.2%
Northern	483	18.5%
Tidewater	675	25.8%
Western	565	21.6%
TOTAL	2617	100.0%

Figure 5.2 Percentage of Fatal Drug/Poison Overdoses by Manner of Death, 2022

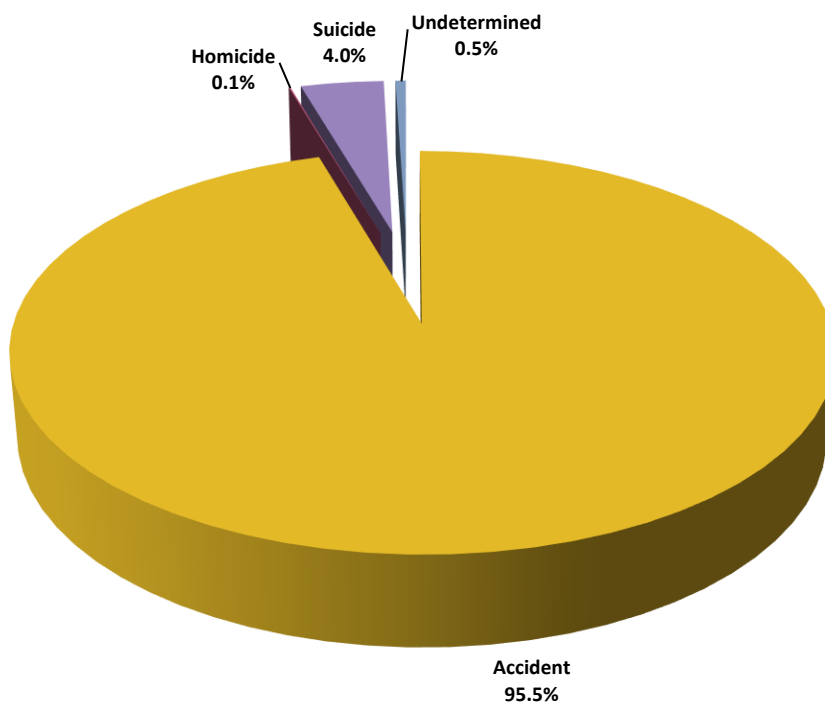


Figure 5.3 Number and Rate of Fatal Drug/Poison Overdoses by Age Group and Gender, 2022

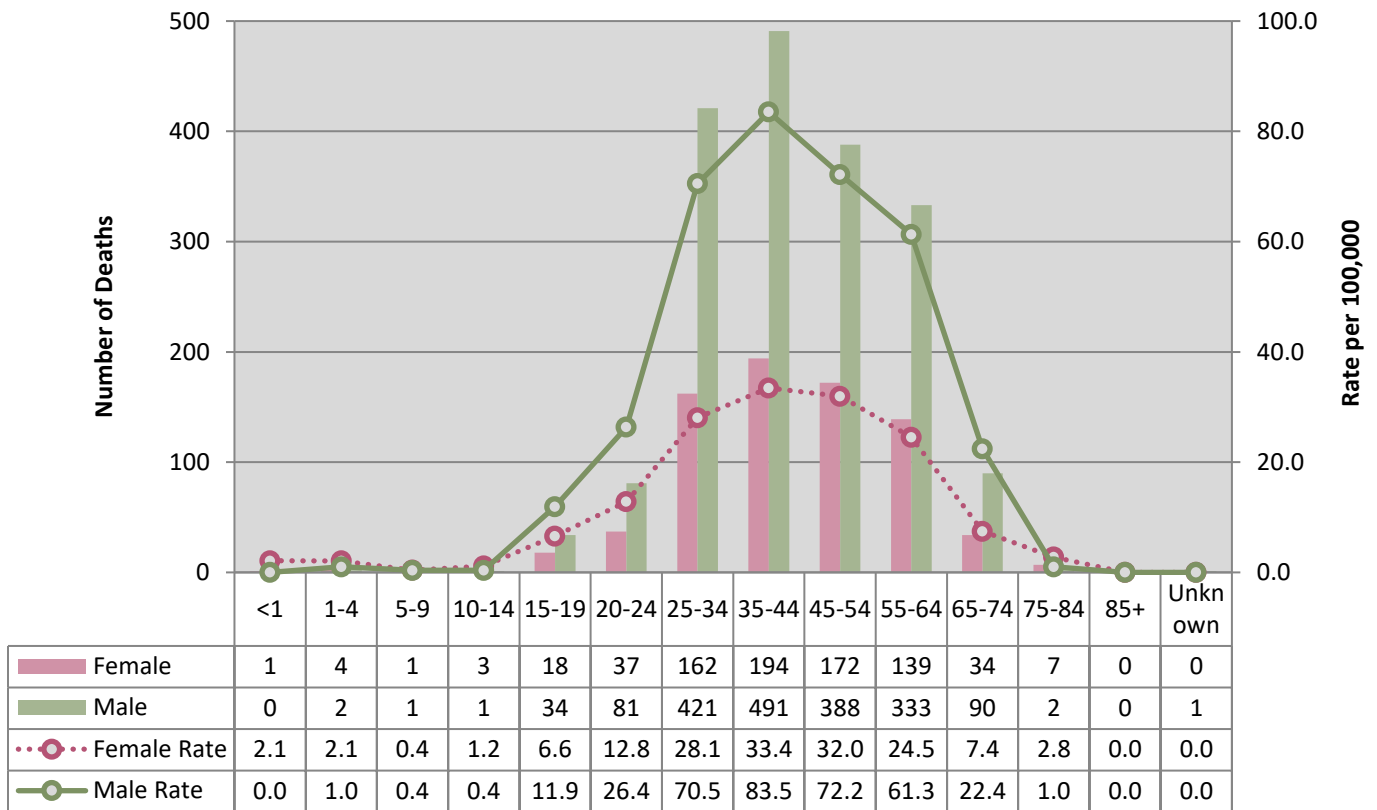


Table 5.2 Number of Fatal Drug/Poison Overdoses by Age Group and Manner of Death, 2022

Age Group (years)	Accident	Homicide	Suicide	Undetermined	Total
<1	0	0	0	1	1
1-4	2	2	0	2	6
5-9	0	0	0	2	2
10-14	3	0	0	1	4
15-19	45	0	7	0	52
20-24	111	0	7	0	118
25-34	572	0	10	1	583
35-44	666	0	15	4	685
45-54	533	0	25	2	560
55-64	449	0	23	0	472
65-74	114	0	10	0	124
75-84	2	0	7	0	9
85+	0	0	0	0	0
Unknown	1	0	0	0	1
Total	2498	2	104	13	2617

Figure 5.4 Percentage of Fatal Drug/Poison Overdoses by Race/Ethnicity, 2022

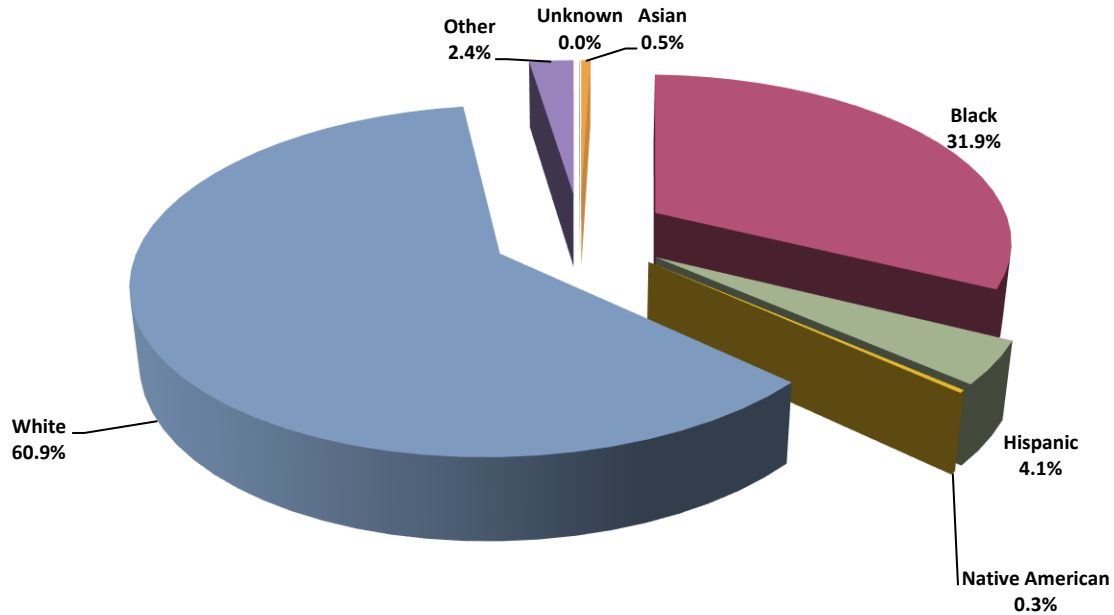
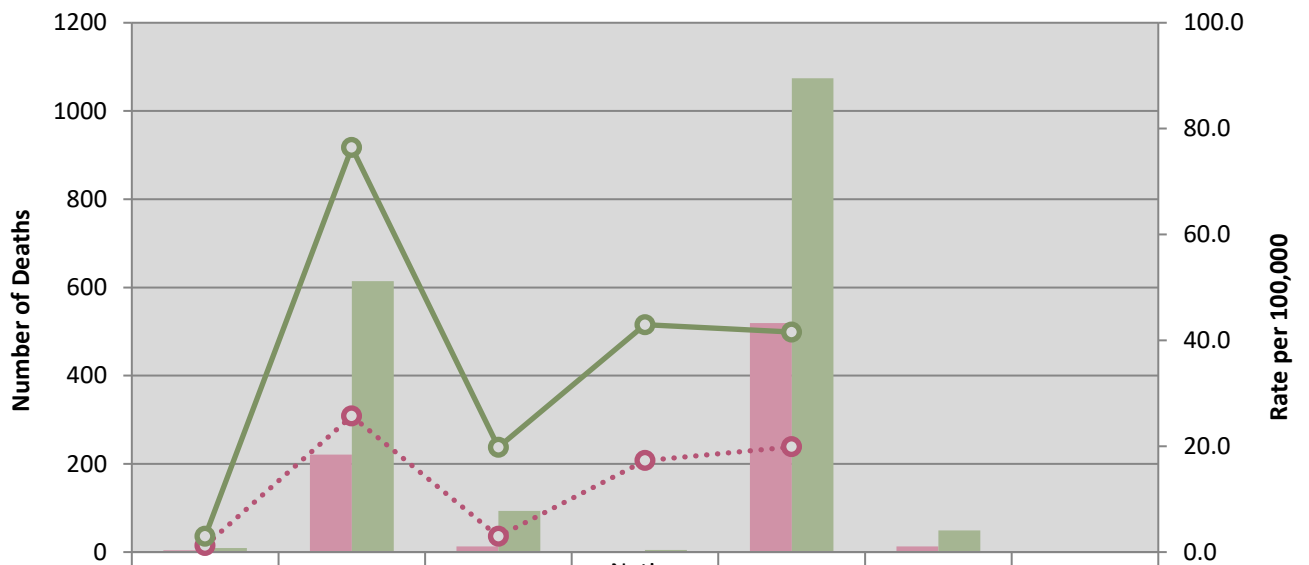


Figure 5.5 Number and Rate of Fatal Drug/Poison Overdoses by Race/Ethnicity and Gender, 2022



	Asian	Black	Hispanic	Native American	White	Other	Unknown
Female	4	221	13	2	519	13	0
Male	9	614	93	5	1074	49	1
Female Rate	1.2	25.7	2.9	17.3	19.9	*	*
Male Rate	3.0	76.4	19.8	42.9	41.5	*	*

*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asian females and Native American females)

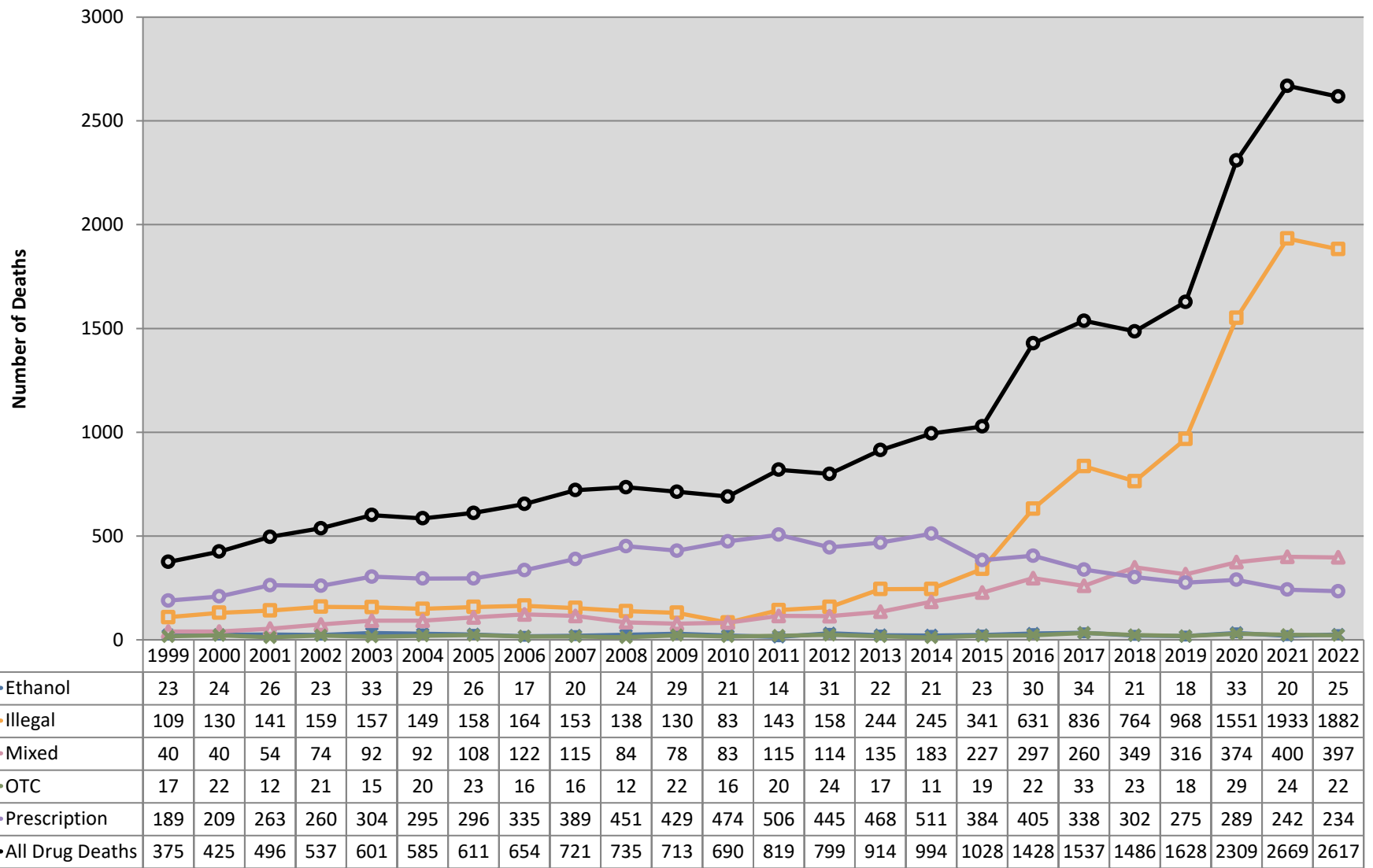
Table 5.3 Number of Fatal Drug/Poison Overdoses by OCME District and Cause of Death, 2022

Cause of Death	Central	Northern	Tidewater	Western	Total
Illegal Drug(s) Poisoning	758	313	376	435	1882
Mixed Drug Category	63	122	137	75	397
Prescription Drug(s) Poisoning	47	28	118	41	234
Drug Type Not Specified	4	4	33	3	44
Ethanol Poisoning	11	8	6	0	25
OTC Poisoning	5	8	4	5	22
Inhalant Poisoning	3	0	1	3	7
Other Poisoning	3	0	0	3	6
Total	894	483	675	565	2617

Table 5.4 Number of Fatal Drug/Poison Overdoses Manner and Cause of Death, 2022

Cause of Death	Accident	Homicide	Suicide	Undetermined	Total
Illegal Drug(s) Poisoning	1871	1	6	4	1882
Mixed Drug Category	377	0	17	3	397
Prescription Drug(s) Poisoning	173	0	57	4	234
Drug Type Not Specified	35	1	7	1	44
Ethanol Poisoning	25	0	0	0	25
OTC Poisoning	7	0	14	1	22
Inhalant Poisoning	7	0	0	0	7
Other Poisoning	3	0	3	0	6
Total	2498	2	104	13	2617

Figure 5.6 Number of Fatal Drug/Poison Overdoses by Drug Category and Year of Death, 1999-2022



Note: all other categories of fatal drug overdose were excluded from this analysis because of low annual case counts (<20 deaths)

Figure 5.7 Number of Fatal Drug/Poison Overdoses by Drug Category and Gender, 2022

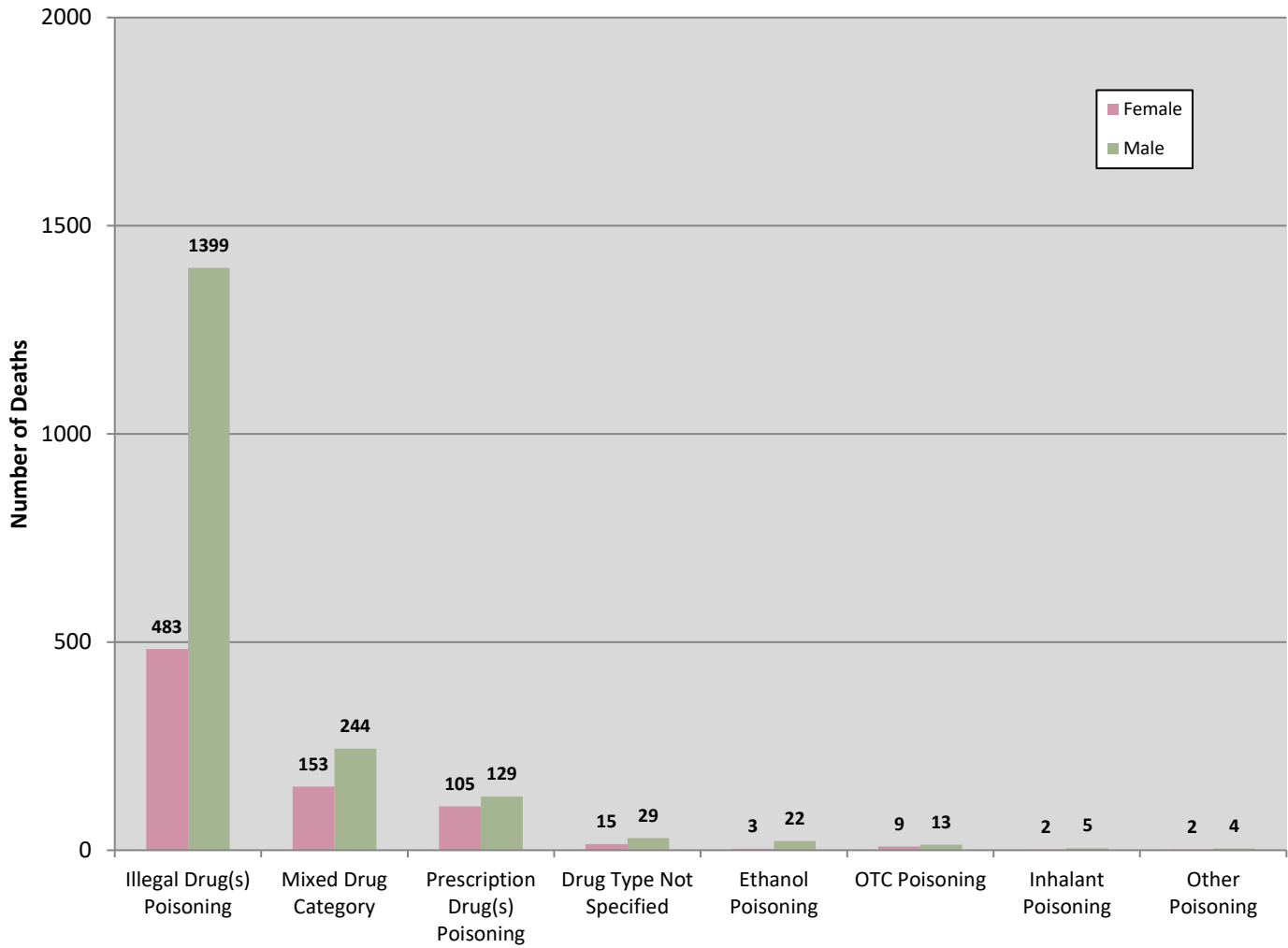
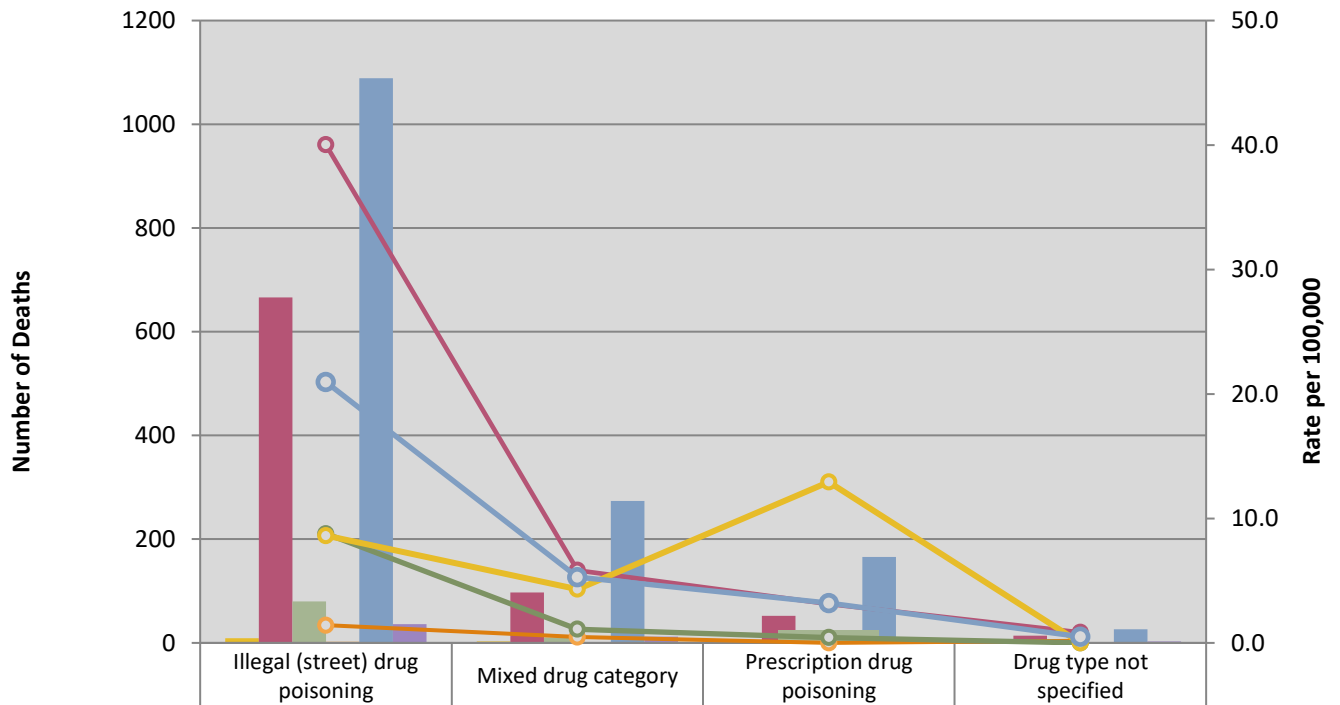


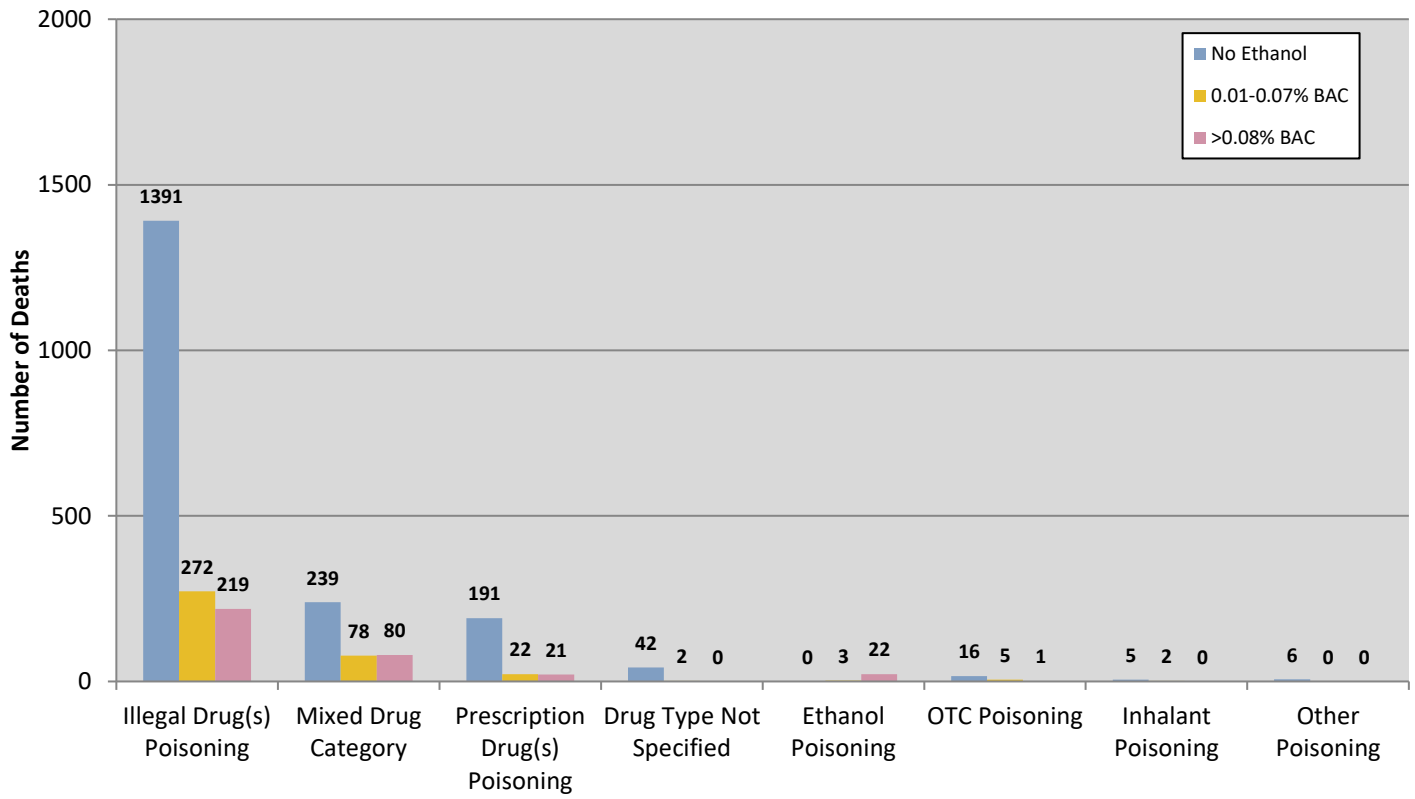
Figure 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Drug Category and Race/Ethnicity, 2022



Asian	9	3	0	1
Black	666	97	52	14
Hispanic	80	10	4	0
Native American	2	1	3	0
White	1089	274	166	26
Other	36	12	8	3
Unknown	0	0	1	0
Asian Rate	1.4	0.5	0.0	0.2
Black Rate	40.0	5.8	3.1	0.8
Hispanic Rate	8.8	1.1	0.4	0.0
Native American Rate	8.6	4.3	12.9	0.0
White Rate	21.0	5.3	3.2	0.5

Note: Rates calculated from small sample sizes (<5 deaths) are considered unreliable and should be interpreted with caution (Hispanics and Native Americans)

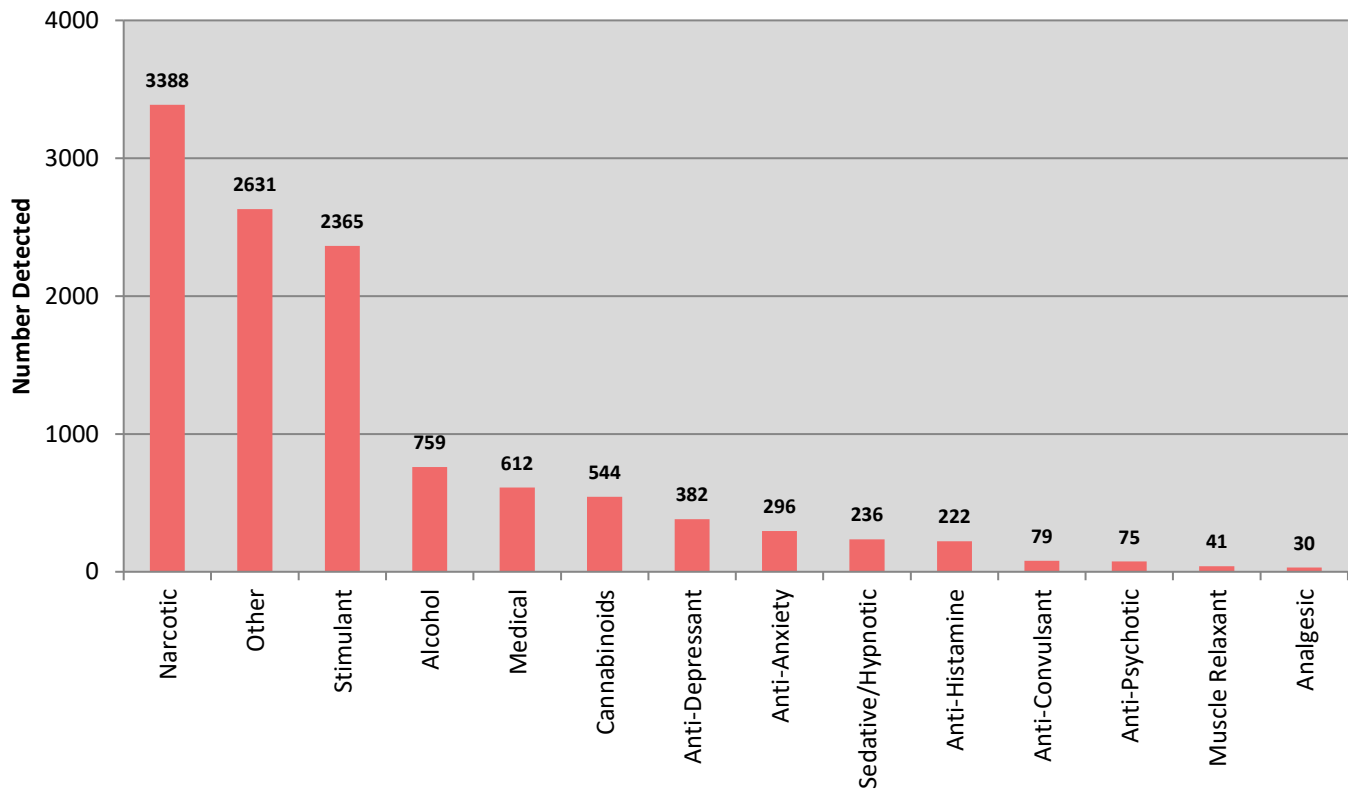
Figure 5.9 Number of Fatal Drug/Poison Overdoses by Drug Category and Ethanol Level, 2022



Note: Ethanol poisoning deaths listed as 'no ethanol' detected or '0.01-0.07% BAC' were due to toxicology timing issues regarding metabolism of ethanol

Table 5.5 Number of Fatal Drug/Poison Overdoses by Cause of Death and Whether Alcohol Caused Death, 2022

Cause of Death	Caused Death	Contributed to Death	Did Not Cause Death	Total
Illegal Drug(s) Poisoning	132	90	1660	1882
Mixed Drug Category	109	22	266	397
Prescription Drug(s) Poisoning	28	2	204	234
Drug Type Not Specified	0	0	44	44
Ethanol Poisoning	25	0	0	25
OTC Poisoning	1	1	20	22
Inhalant Poisoning	0	1	6	7
Other Poisoning	0	0	6	6
Total	295	116	2206	2617

Figure 5.10 Number of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolites Detected, 2022**Table 5.6 Number and Percentage of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolite Detected, 2022**

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Alcohol			6.5%
	Acetone	17	0.1%
	Ethanol	725	6.2%
	Isopropanol	13	0.1%
	Methanol	4	0.0%
Analgesic			0.3%
	Acetaminophen	27	0.2%
	Ibuprofen	2	0.0%
	Naproxen	1	0.0%
Anti-Anxiety			2.5%
	Alprazolam	128	1.1%
	Bromazolam	9	0.1%
	Buspirone	3	0.0%
	Diazepam	119	1.0%

Etizolam	6	0.1%
Flualprazolam	2	0.0%
Flubromazepam	3	0.0%
Flubromazolam	1	0.0%
Lorazepam	24	0.2%
Meprobamate	1	0.0%
Anti-Convulsant		0.7%
Carbamazepine	8	0.1%
Carbazepine	1	0.0%
Clobazam	1	0.0%
Lacosamide	3	0.0%
Lamotrigine	28	0.2%
Levetiracetam	11	0.1%
Licarbazepine	4	0.0%
Oxcarbazepine	2	0.0%
Pregabalin	5	0.0%
Topiramate	16	0.1%
Anti-Depressant		3.3%
Amitriptyline	34	0.3%
Bupropion	57	0.5%
Citalopram	53	0.5%
Clomipramine	5	0.0%
Doxepin	10	0.1%
Duloxetine	11	0.1%
Fluoxetine	44	0.4%
Mirtazapine	23	0.2%
Nortriptyline	37	0.3%
Paroxetine	6	0.1%
Sertraline	56	0.5%
Venlafaxine	46	0.4%
Anti-Histamine		1.9%
Cetirizine	2	0.0%
Chlorpheniramine	14	0.1%
Diphenhydramine	112	1.0%
Doxylamine	13	0.1%
Hydroxyzine	53	0.5%
Promethazine	28	0.2%
Anti-Psychotic		0.6%
Aripiprazole	14	0.1%
Chlorpromazine	1	0.0%
Haloperidol	1	0.0%
Olanzapine	19	0.2%
Quetiapine	34	0.3%

Risperidone	5	0.0%
Ziprasidone	1	0.0%
Cannabinoids		4.7%
Tetrahydrocannabinol Carboxylic Acid (THC)-various compounds	544	4.7%
Medical		5.2%
Amlodipine	53	0.5%
Butalbital	14	0.1%
Chlorthalidone	1	0.0%
Dextromethorphan	47	0.4%
Dicyclomine	5	0.0%
Diltiazem	1	0.0%
Donepezil	1	0.0%
Ephedrine	43	0.4%
Etomidate	2	0.0%
Flecainide	1	0.0%
Gabapentin	111	1.0%
Guaifenesin	4	0.0%
Levamisole	5	0.0%
Loperamide	13	0.1%
Memantine	1	0.0%
Metformin	1	0.0%
Methemoglobin	5	0.0%
Metoprolol	24	0.2%
Naloxone	223	1.9%
Naltrexol	3	0.0%
Ondansetron	1	0.0%
Phentermine	1	0.0%
Phenylpropanolamine	17	0.1%
Pramoxine	3	0.0%
Propranolol	3	0.0%
Pseudoephedrine	9	0.1%
Quinine	8	0.1%
Sildenafil	4	0.0%
Tadalafil	6	0.1%
Verapamil	1	0.0%
Warfarin	1	0.0%
Muscle Relaxant		0.4%
Carisoprodol	1	0.0%
Cyclobenzaprine	35	0.3%
Methocarbamol	3	0.0%
Rocuronium	1	0.0%
Tizanidine	1	0.0%

Narcotic		29.1%
6-Acetylmorphine	187	1.6%
Acetylfentanyl	55	0.5%
Buprenorphine	58	0.5%
Carfentanil	2	0.0%
Clonidine	9	0.1%
Codeine	47	0.4%
Fentanyl	1701	14.6%
Hydrocodone	43	0.4%
Hydromorphone	45	0.4%
Methadone	78	0.7%
Metonitazene	2	0.0%
Morphine	288	2.5%
Norbuprenorphine	54	0.5%
Norfentanyl	436	3.7%
Oxycodone	98	0.8%
Oxymorphone	66	0.6%
Para/Meta-Fluorofentanyl	181	1.6%
Protonitazene	1	0.0%
Tramadol	37	0.3%
Other		22.6%
1,1-Difluoroethane	4	0.0%
Acetaldehyde	2	0.0%
Benzene	1	0.0%
Benzoylcegonine	940	8.1%
Bromine	1	0.0%
Carboxyhemoglobin	15	0.1%
Cocaethylene	264	2.3%
Cotinine	407	3.5%
Despropionylfentanyl	893	7.7%
Ketamine	6	0.1%
Lead	1	0.0%
Lidocaine	23	0.2%
Lysergic Acid Diethylamide	1	0.0%
Mitragynine	43	0.4%
Monoethylglycinexylidide (Megx)	1	0.0%
Phencyclidine	20	0.2%
Ritalinic Acid	2	0.0%
Salicylate	5	0.0%
Selenium	1	0.0%
Sulfhemoglobin	1	0.0%
Sedative/Hypnotic		2.0%
Chlordiazepoxide	3	0.0%

Clonazepam	102	0.9%
Midazolam	15	0.1%
Oxazepam	16	0.1%
Pentobarbital	1	0.0%
Phenobarbital	5	0.0%
Temazepam	19	0.2%
Trazodone	39	0.3%
Xylazine	19	0.2%
Zolpidem	15	0.1%
Zopiclone	2	0.0%
Stimulant		20.3%
Amphetamine	482	4.1%
Atomoxetine	2	0.0%
Caffeine	537	4.6%
Cocaine	726	6.2%
Methamphetamine	504	4.3%
Methylenedioxyamphetamine (MDA)	2	0.0%
Methylenedioxymethamphetamine (MDMA)	8	0.1%
Methylphenidate	3	0.0%
Nicotine	95	0.8%
Pentylone	6	0.1%
TOTAL DRUG/POISON/ACTIVE METABOLITES DETECTED	11660	100.0%

Figure 5.11 Number of Fatal Drug/Poison Overdoses by Class of Drug/Poison/Metabolite Detected that Caused or Contributed to Death, 2022

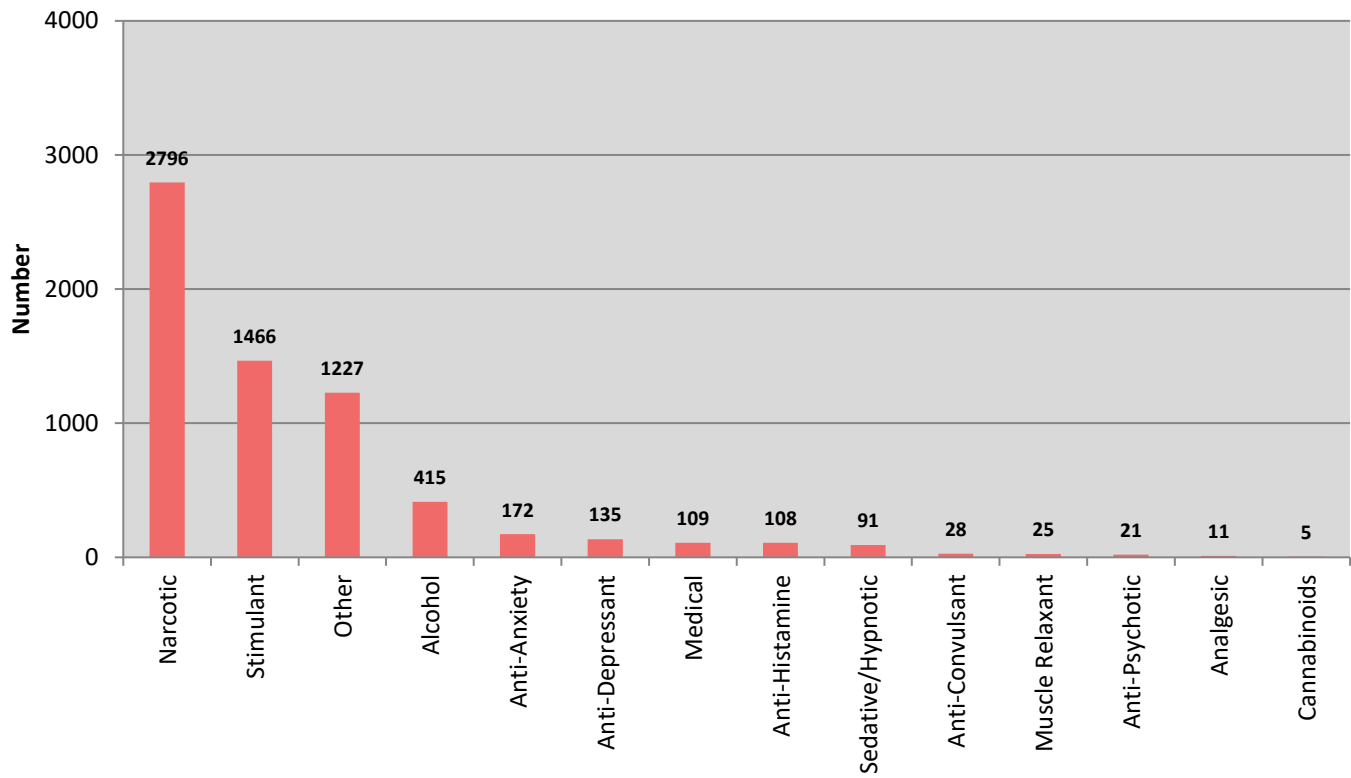


Table 5.7 Number of Fatal Drug/Poison Deaths by Drug/Poison/Metabolites Detected that Caused or Contributed to Death, 2022

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Alcohol			6.3%
	Acetone	4	0.1%
	Ethanol	408	6.2%
	Isopropanol	3	0.0%
	Methanol	0	0.0%
Analgesic			0.2%
	Acetaminophen	9	0.1%
	Ibuprofen	1	0.0%
	Naproxen	1	0.0%
Anti-Anxiety			2.6%
	Alprazolam	86	1.3%
	Bromazolam	9	0.1%
	Buspirone	2	0.0%

Diazepam	57	0.9%
Etizolam	5	0.1%
Flualprazolam	2	0.0%
Flubromazepam	3	0.0%
Flubromazolam	1	0.0%
Lorazepam	6	0.1%
Meprobamate	1	0.0%
Anti-Convulsant		0.4%
Carbamazepine	2	0.0%
Carbazepine	0	0.0%
Clobazam	1	0.0%
Lacosamide	2	0.0%
Lamotrigine	10	0.2%
Levetiracetam	3	0.0%
Licarbazepine	2	0.0%
Oxcarbazepine	1	0.0%
Pregabalin	5	0.1%
Topiramate	2	0.0%
Anti-Depressant		2.0%
Amitriptyline	12	0.2%
Bupropion	18	0.3%
Citalopram	15	0.2%
Clomipramine	3	0.0%
Doxepin	5	0.1%
Duloxetine	2	0.0%
Fluoxetine	19	0.3%
Mirtazapine	10	0.2%
Nortriptyline	10	0.2%
Paroxetine	3	0.0%
Sertraline	24	0.4%
Venlafaxine	14	0.2%
Anti-Histamine		1.6%
Cetirizine	2	0.0%
Chlorpheniramine	6	0.1%
Diphenhydramine	67	1.0%
Doxylamine	10	0.2%
Hydroxyzine	18	0.3%
Promethazine	5	0.1%
Anti-Psychotic	0	0.3%
Aripiprazole	0	0.0%
Chlorpromazine	0	0.0%
Haloperidol	0	0.0%
Olanzapine	8	0.1%

Quetiapine	13	0.2%
Risperidone	0	0.0%
Ziprasidone	0	0.0%
Cannabinoids		0.1%
Tetrahydrocannabinol Carboxylic Acid (THC)-various compounds	5	0.1%
Medical		1.6%
Amlodipine	3	0.0%
Butalbital	6	0.1%
Chlorthalidone	1	0.0%
Dextromethorphan	18	0.3%
Dicyclomine	2	0.0%
Diltiazem	0	0.0%
Donepezil	1	0.0%
Ephedrine	5	0.1%
Etomidate	0	0.0%
Flecainide	1	0.0%
Gabapentin	52	0.8%
Guaifenesin	1	0.0%
Levamisole	1	0.0%
Loperamide	3	0.0%
Memantine	0	0.0%
Metformin	1	0.0%
Methemoglobin	4	0.1%
Metoprolol	1	0.0%
Naloxone	0	0.0%
Naltrexol	0	0.0%
Ondansetron	0	0.0%
Phentermine	1	0.0%
Phenylpropanolamine	0	0.0%
Pramoxine	1	0.0%
Propranolol	2	0.0%
Pseudoephedrine	3	0.0%
Quinine	1	0.0%
Sildenafil	0	0.0%
Tadalafil	1	0.0%
Verapamil	0	0.0%
Warfarin	0	0.0%
Muscle Relaxant		0.4%
Carisoprodol	1	0.0%
Cyclobenzaprine	21	0.3%
Methocarbamol	1	0.0%
Rocuronium	1	0.0%

Tizanidine	1	0.0%
Narcotic		42.3%
6-Acetylmorphine	178	2.7%
Acetylfentanyl	54	0.8%
Buprenorphine	35	0.5%
Carfentanil	2	0.0%
Clonidine	2	0.0%
Codeine	20	0.3%
Fentanyl	1666	25.2%
Hydrocodone	34	0.5%
Hydromorphone	24	0.4%
Methadone	65	1.0%
Metonitazene	2	0.0%
Morphine	266	4.0%
Norbuprenorphine	22	0.3%
Norfentanyl	129	2.0%
Oxycodone	75	1.1%
Oxymorphone	42	0.6%
Para/Meta-Fluorofentanyl	163	2.5%
Protonitazene	1	0.0%
Tramadol	16	0.2%
Other		18.6%
1,1-Difluoroethane	4	0.1%
Acetaldehyde	0	0.0%
Benzene	1	0.0%
Benzoyllecgonine	416	6.3%
Bromine	0	0.0%
Carboxyhemoglobin	3	0.0%
Cocaethylene	241	3.6%
Cotinine	2	0.0%
Despropionylfentanyl	485	7.3%
Ketamine	2	0.0%
Lead	0	0.0%
Lidocaine	7	0.1%
Lysergic Acid Diethylamide	1	0.0%
Mitragynine	42	0.6%
Monoethylglycinexylidide (Megx)	1	0.0%
Phencyclidine	19	0.3%
Ritalinic Acid	0	0.0%
Salicylate	3	0.0%
Selenium	0	0.0%
Sulfhemoglobin	0	0.0%
Sedative/Hypnotic		1.4%

Chlordiazepoxide	2	0.0%
Clonazepam	20	0.3%
Midazolam	0	0.0%
Oxazepam	7	0.1%
Pentobarbital	1	0.0%
Phenobarbital	0	0.0%
Temazepam	9	0.1%
Trazodone	21	0.3%
Xylazine	19	0.3%
Zolpidem	10	0.2%
Zopiclone	2	0.0%
Stimulant		22.2%
Amphetamine	241	3.6%
Atomoxetine	1	0.0%
Caffeine	1	0.0%
Cocaine	712	10.8%
Methamphetamine	494	7.5%
Methylenedioxyamphetamine (MDA)	2	0.0%
Methylenedioxymethamphetamine (MDMA)	7	0.1%
Methylphenidate	2	0.0%
Nicotine	1	0.0%
Pentylone	5	0.1%
TOTAL DRUG/POISON/ACTIVE METABOLITES DETECTED	6609	100.0%

Table 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Residence, 2022

Locality of Residence	Deaths	Rate
Accomack County	3	9.0
Albemarle County	20	17.5
Alexandria City	17	10.9
Alleghany County	6	40.4
Amelia County	1	7.4
Amherst County	9	28.5
Appomattox County	5	29.9
Arlington County	19	8.1
Augusta County	12	15.4
Bath County	0	0.0
Bedford County	26	32.2
Bland County	3	48.8
Botetourt County	9	26.4
Bristol City	5	29.5
Brunswick County	10	62.8
Buchanan County	20	103.3
Buckingham County	9	53.0
Buena Vista City	3	45.5
Campbell County	7	12.7
Caroline County	7	21.9
Carroll County	6	20.6
Charles City County	1	15.1
Charlotte County	4	34.9
Charlottesville City	14	30.9
Chesapeake City	65	25.7
Chesterfield County	98	25.9
Clarke County	5	32.8
Colonial Heights City	5	27.3
Covington City	3	52.8
Craig County	3	61.9
Culpeper County	20	36.8
Cumberland County	6	61.6
Danville City	13	30.8
Dickenson County	13	94.7
Dinwiddie County	10	35.5
Emporia City	1	18.2
Essex County	5	47.0
Fairfax City	0	0.0
Fairfax County	105	9.2
Falls Church City	0	0.0
Fauquier County	17	22.8

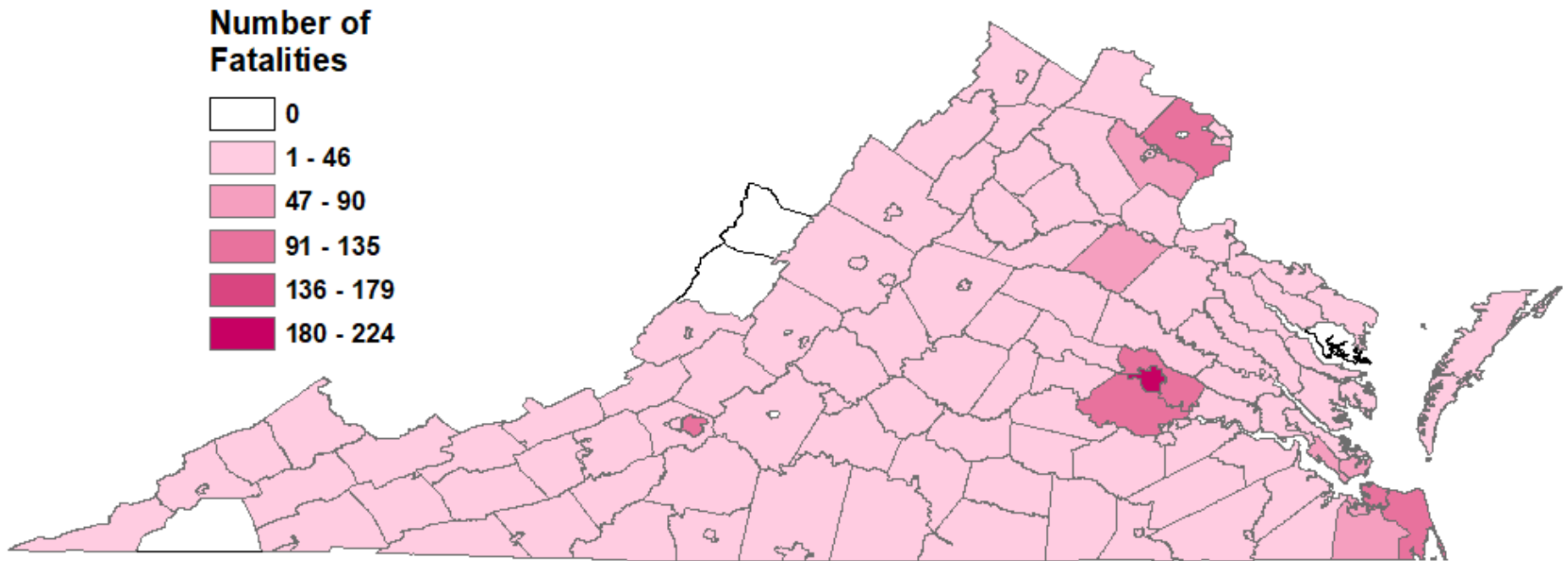
Locality of Residence	Deaths	Rate
Floyd County	5	32.0
Fluvanna County	9	32.0
Franklin City	2	24.3
Franklin County	17	30.9
Frederick County	16	16.8
Fredericksburg City	14	48.7
Galax City	1	14.9
Giles County	4	24.3
Gloucester County	12	30.4
Goochland County	7	26.8
Grayson County	2	13.0
Greene County	8	37.9
Greensville County	4	35.6
Halifax County	17	50.5
Hampton City	52	37.7
Hanover County	36	31.9
Harrisonburg City	7	13.7
Henrico County	117	35.0
Henry County	38	76.1
Highland County	0	0.0
Hopewell City	25	108.9
Isle of Wight County	16	39.8
James City County	11	13.5
King and Queen County	2	29.8
King George County	9	32.3
King William County	3	16.2
Lancaster County	0	0.0
Lee County	2	9.1
Lexington City	0	0.0
Loudoun County	29	6.7
Louisa County	16	39.9
Lunenburg County	6	49.9
Lynchburg City	35	44.1
Madison County	3	21.4
Manassas City	11	25.8
Manassas Park City	6	35.9
Martinsville City	9	65.6
Mathews County	4	47.1
Mecklenburg County	7	22.9
Middlesex County	1	9.1
Montgomery County	21	21.2

Locality of Residence	Deaths	Rate
Nelson County	1	6.8
New Kent County	8	32.0
Newport News City	69	37.4
Norfolk City	118	50.6
Northampton County	5	42.0
Northumberland County	2	16.3
Norton City	1	27.7
Nottoway County	6	38.6
Orange County	18	47.4
Page County	5	21.1
Patrick County	5	28.3
Petersburg City	30	89.8
Pittsylvania County	19	31.7
Poquoson City	1	7.9
Portsmouth City	90	92.8
Powhatan County	7	22.2
Prince Edward County	3	13.7
Prince George County	11	25.5
Prince William County	68	14.0
Pulaski County	11	32.6
Radford City	6	35.8
Rappahannock County	4	53.3
Richmond City	224	97.6
Richmond County	2	22.0
Roanoke City	109	111.4
Roanoke County	26	26.8
Rockbridge County	4	17.7
Rockingham County	16	18.7
Russell County	5	19.6
Salem City	17	66.6
Scott County	0	0.0
Shenandoah County	11	24.5
Smyth County	12	40.7
Southampton County	5	27.9
Spotsylvania County	54	36.8
Stafford County	33	20.2
Staunton City	4	15.4
Suffolk City	29	29.4
Surry County	2	30.6
Sussex County	4	37.5
Tazewell County	17	42.7
Virginia Beach City	124	27.2
Warren County	16	38.6

Locality of Residence	Deaths	Rate
Washington County	16	29.7
Waynesboro City	11	48.2
Westmoreland County	4	21.4
Williamsburg City	4	25.1
Winchester City	10	35.8
Wise County	9	25.4
Wythe County	7	24.9
York County	11	15.4
<i>Subtotal (in-state)</i>	2443	28.1
Out of State	148	ND
Unknown	26	ND
<i>Subtotal (out-of-state)</i>	174	ND
TOTAL	2617	30.1

Note: No denominator is represented by ND

Map 5.1 Number of Fatal Drug/Poison Overdoses by Locality of Residence, 2022



Map 5.2 Rates of Fatal Drug/Poison Overdoses by Locality of Residence, 2022

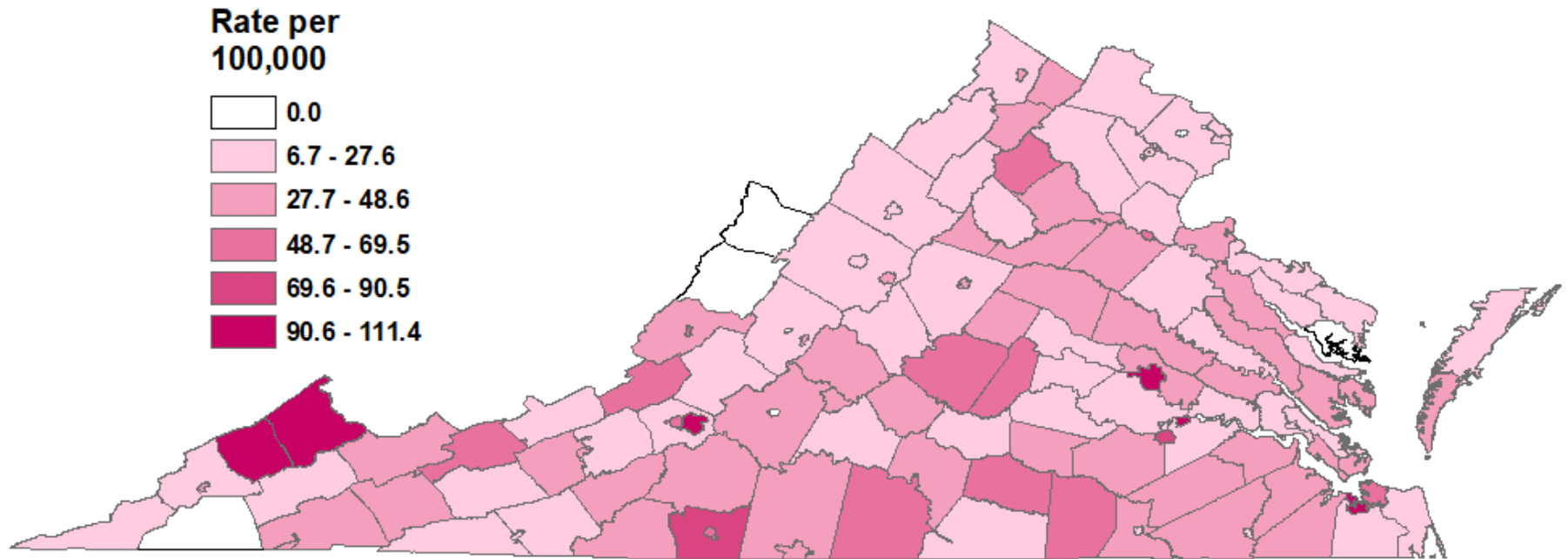


Table 5.9 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Injury, 2022

Locality of Injury	Deaths	Rate
Accomack County	4	12.1
Albemarle County	23	20.1
Alexandria City	20	12.9
Alleghany County	5	33.7
Amelia County	2	14.9
Amherst County	8	25.3
Appomattox County	4	23.9
Arlington County	25	10.7
Augusta County	14	17.9
Bath County	0	0.0
Bedford County	26	32.2
Bland County	2	32.5
Botetourt County	7	20.5
Bristol City	8	47.1
Brunswick County	10	62.8
Buchanan County	20	103.3
Buckingham County	12	70.7
Buena Vista City	3	45.5
Campbell County	6	10.9
Caroline County	10	31.3
Carroll County	6	20.6
Charles City County	1	15.1
Charlotte County	3	26.1
Charlottesville City	19	41.9
Chesapeake City	68	26.9
Chesterfield County	81	21.4
Clarke County	5	32.8
Colonial Heights City	6	32.8
Covington City	2	35.2
Craig County	4	82.5
Culpeper County	20	36.8
Cumberland County	4	41.0
Danville City	16	37.9
Dickenson County	12	87.4
Dinwiddie County	7	24.9
Emporia City	1	18.2
Essex County	3	28.2
Fairfax City	0	0.0
Fairfax County	109	9.6
Falls Church City	0	0.0
Fauquier County	16	21.4
Floyd County	4	25.6
Fluvanna County	4	14.2

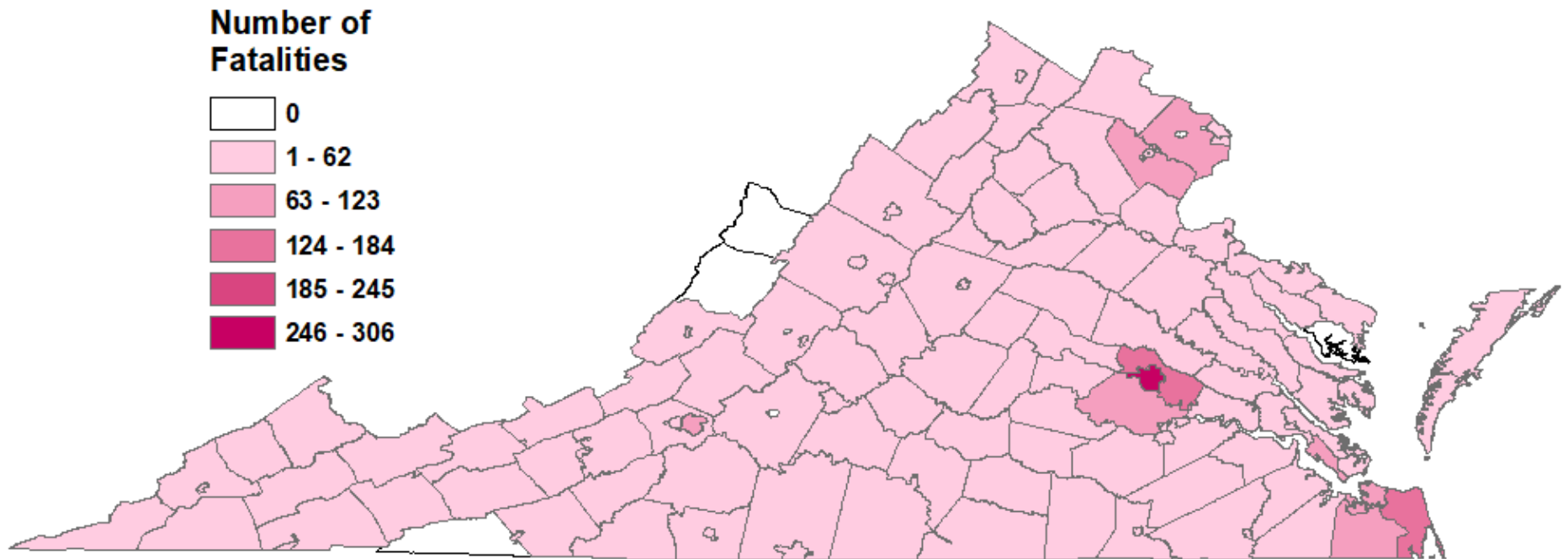
Locality of Injury	Deaths	Rate
Franklin City	4	48.5
Franklin County	17	30.9
Frederick County	17	17.9
Fredericksburg City	16	55.6
Galax City	3	44.6
Giles County	6	36.5
Gloucester County	13	32.9
Goochland County	4	15.3
Grayson County	0	0.0
Greene County	9	42.6
Greensville County	2	17.8
Halifax County	15	44.6
Hampton City	58	42.0
Hanover County	19	16.8
Harrisonburg City	10	19.5
Henrico County	131	39.2
Henry County	42	84.2
Highland County	0	0.0
Hopewell City	24	104.5
Isle of Wight County	13	32.4
James City County	8	9.9
King and Queen County	3	44.7
King George County	6	21.5
King William County	3	16.2
Lancaster County	0	0.0
Lee County	2	9.1
Lexington City	0	0.0
Loudoun County	27	6.2
Louisa County	11	27.4
Lunenburg County	7	58.2
Lynchburg City	32	40.4
Madison County	2	14.3
Manassas City	12	28.1
Manassas Park City	6	35.9
Martinsville City	8	58.3
Mathews County	1	11.8
Mecklenburg County	7	22.9
Middlesex County	1	9.1
Montgomery County	17	17.2
Nelson County	1	6.8
New Kent County	4	16.0
Newport News City	78	42.3
Norfolk City	119	51.1

Locality of Injury	Deaths	Rate
Northampton County	4	33.6
Northumberland County	1	8.1
Norton City	1	27.7
Nottoway County	6	38.6
Orange County	15	39.5
Page County	5	21.1
Patrick County	5	28.3
Petersburg City	40	119.8
Pittsylvania County	16	26.7
Poquoson City	2	15.9
Portsmouth City	102	105.1
Powhatan County	5	15.9
Prince Edward County	3	13.7
Prince George County	8	18.5
Prince William County	80	16.4
Pulaski County	12	35.6
Radford City	7	41.8
Rappahannock County	3	40.0
Richmond City	306	133.4
Richmond County	2	22.0
Roanoke City	122	124.7
Roanoke County	22	22.7
Rockbridge County	5	22.1
Rockingham County	13	15.2
Russell County	5	19.6
Salem City	20	78.4
Scott County	1	4.7
Shenandoah County	9	20.0
Smyth County	9	30.6
Southampton County	5	27.9
Spotsylvania County	55	37.5
Stafford County	32	19.6
Staunton City	4	15.4
Suffolk City	27	27.4
Surry County	1	15.3
Sussex County	5	46.8
Tazewell County	14	35.2
Virginia Beach City	124	27.2
Warren County	17	41.0
Washington County	17	31.5
Waynesboro City	10	43.8
Westmoreland County	3	16.0
Williamsburg City	6	37.7

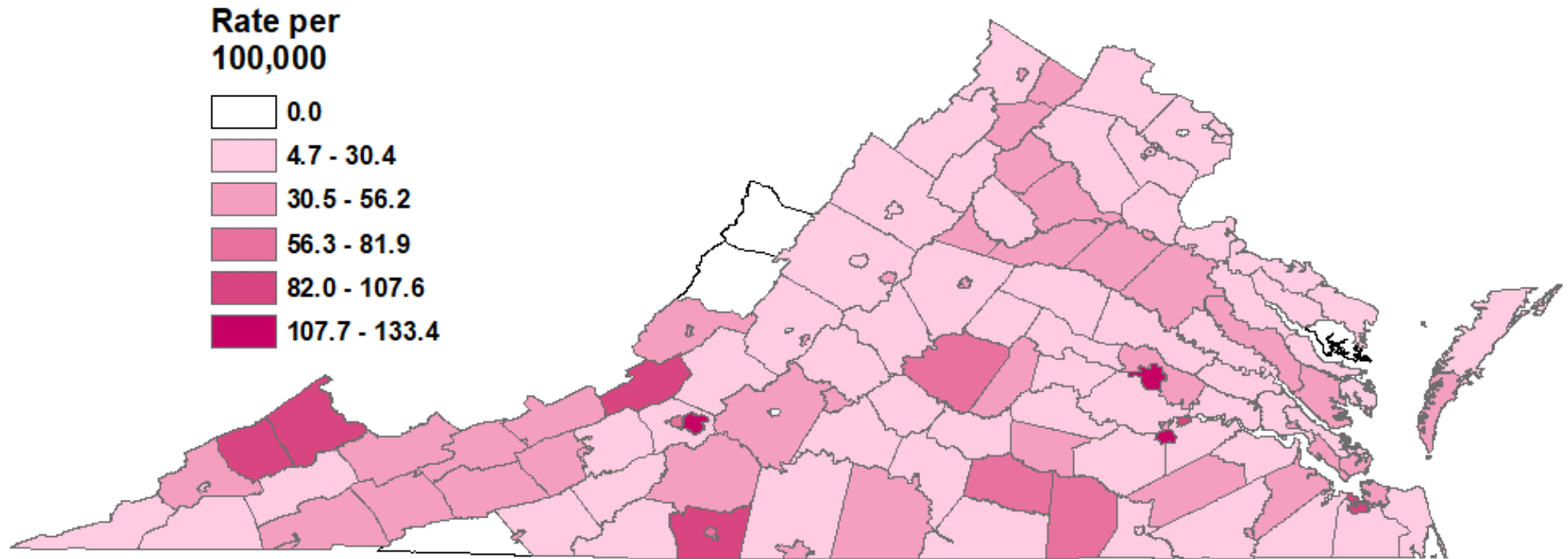
Locality of Injury	Deaths	Rate
Winchester City	14	50.1
Wise County	12	33.9
Wythe County	10	35.6
York County	10	14.0
<i>Subtotal (in-state)</i>	2553	29.4
Out of State	17	ND
Unknown	47	ND
<i>Subtotal (out-of-state)</i>	64	ND
TOTAL	2617	30.1

Note: No denominator is represented by ND

Map 5.3 Number of Fatal Drug/Poison Overdoses by Locality of Injury, 2022



Map 5.4 Rates of Fatal Drug/Poison Overdoses by Locality of Injury, 2022



PRESCRIPTION OPIOIDS EXCLUDING FENTANYL (N=340)

Prior to 2015, the largest number of fatal drug overdoses were attributed to prescription opioids. Although heroin and/or fentanyl deaths surpassed prescription opioid deaths in 2015, one or more prescription opioids (excluding fentanyl) were involved in 13.0% of all fatal drug overdoses in 2022.

- Oxycodone continued to be the most common prescription opioid causing or contributing to death
- White persons made up 76.2% of the fatal prescription opioid (excluding fentanyl) overdoses in 2022
- Males aged 35-44 years had the highest rates of fatal prescription opioid (excluding fentanyl) overdose in 2022 (9.0 deaths per 100,00 persons)

Figure 5.12 Number of All Fatal Drug Overdoses Compared to All Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Year of Death, 2007-2022

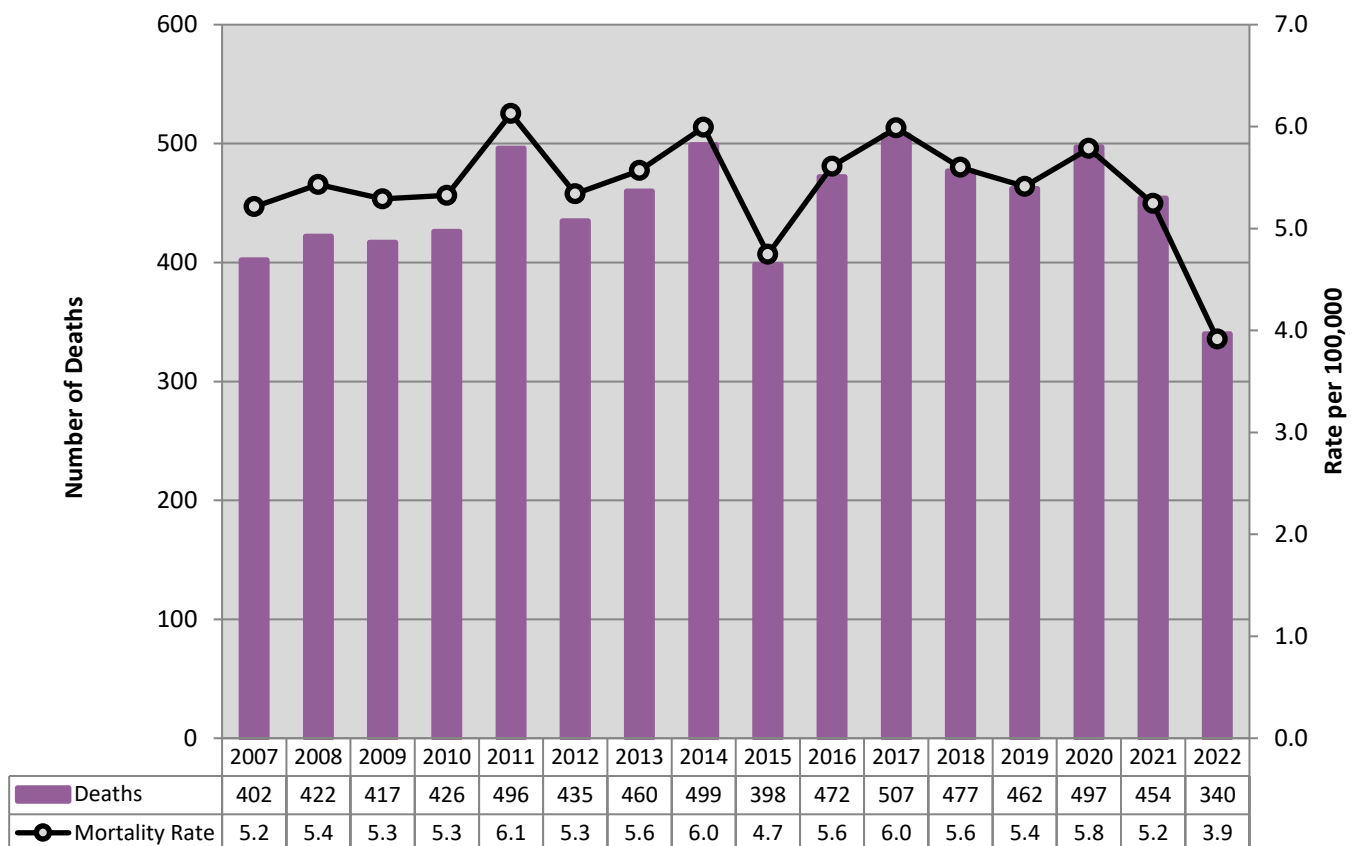


Figure 5.13 Number of Prescription Opioids (Excluding Fentanyl) Causing or Contributing to Death in Fatal Drug/Poison Overdoses, 2022

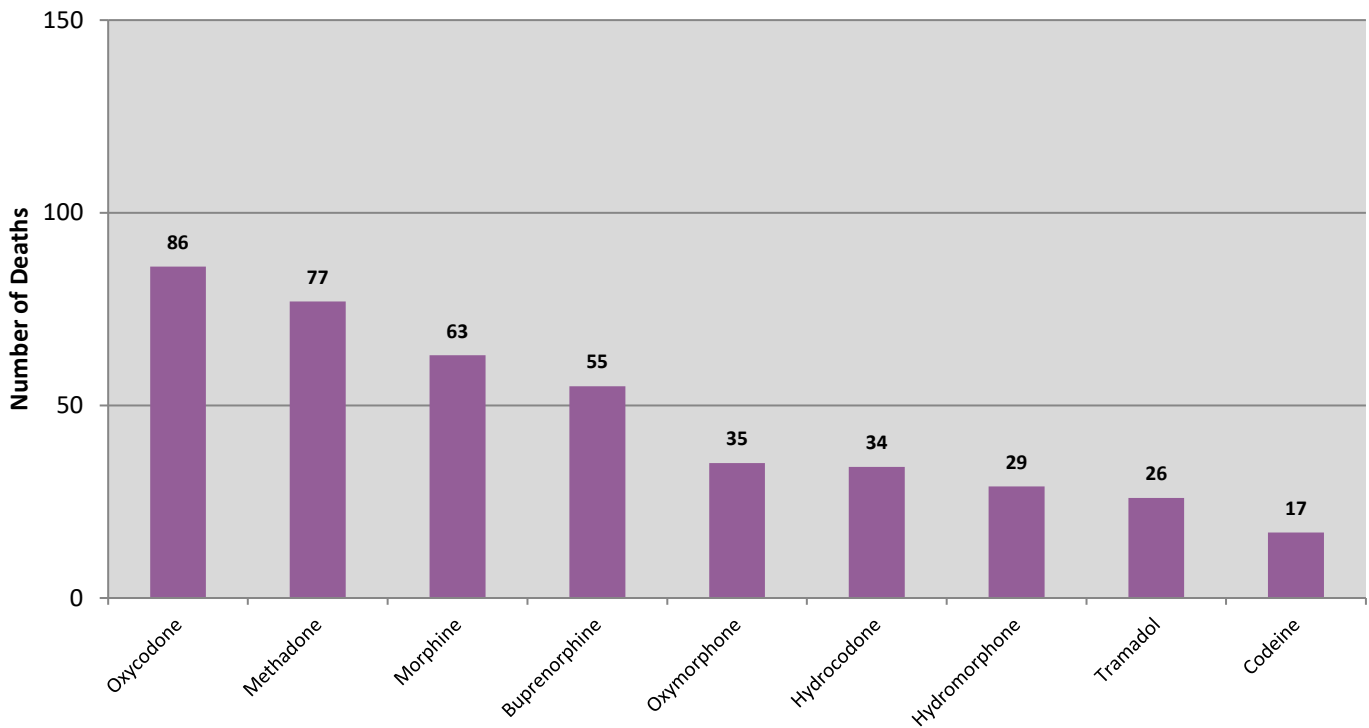


Figure 5.14 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Manner of Death, 2022

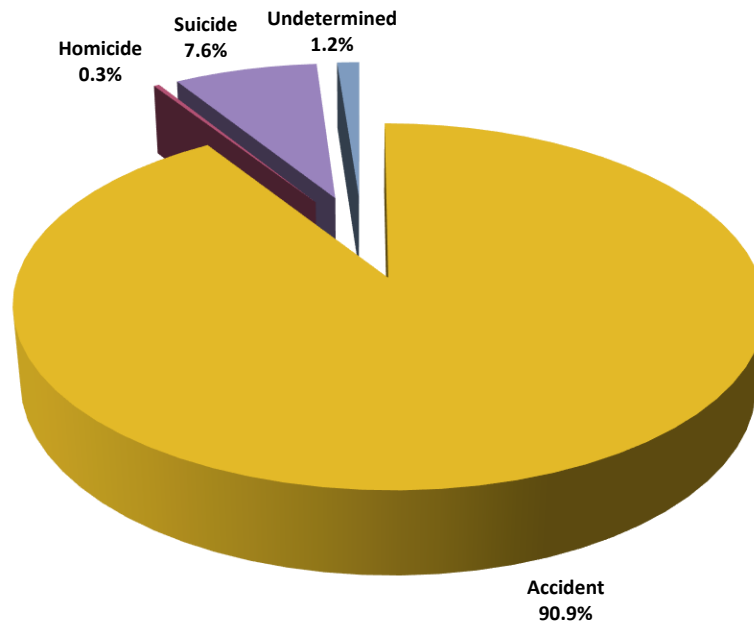


Table 5.10 Number of Prescription Opioids (Excluding Fentanyl) Detected in Fatal Drug Overdoses by OCME District, 2022

Prescription Opioid	Central	Northern	Tidewater	Western	Total
Oxycodone	15	19	26	26	86
Methadone	32	17	17	11	77
Morphine	17	17	15	14	63
Buprenorphine	14	19	9	13	55
Oxymorphone	7	8	16	4	35
Hydrocodone	9	4	5	16	34
Hydromorphone	8	12	8	1	29
Tramadol	2	14	2	8	26
Codeine	4	3	10	0	17
TOTAL	108	113	108	93	422

Note: Summing the subtotals will surpass the total since the groups are not mutually exclusive because often, more than one drug causes death

Figure 5.15 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Age Group and Gender, 2022

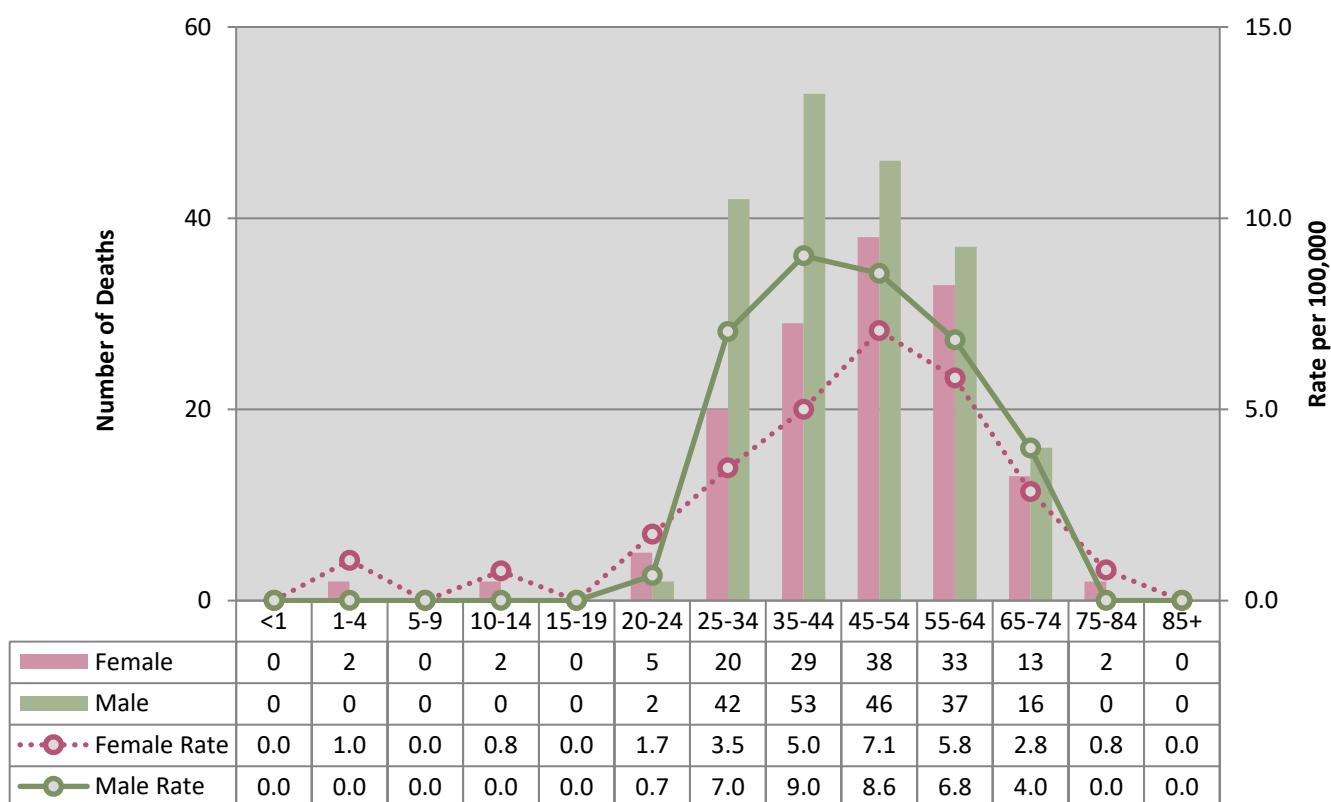


Figure 5.16 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity, 2022

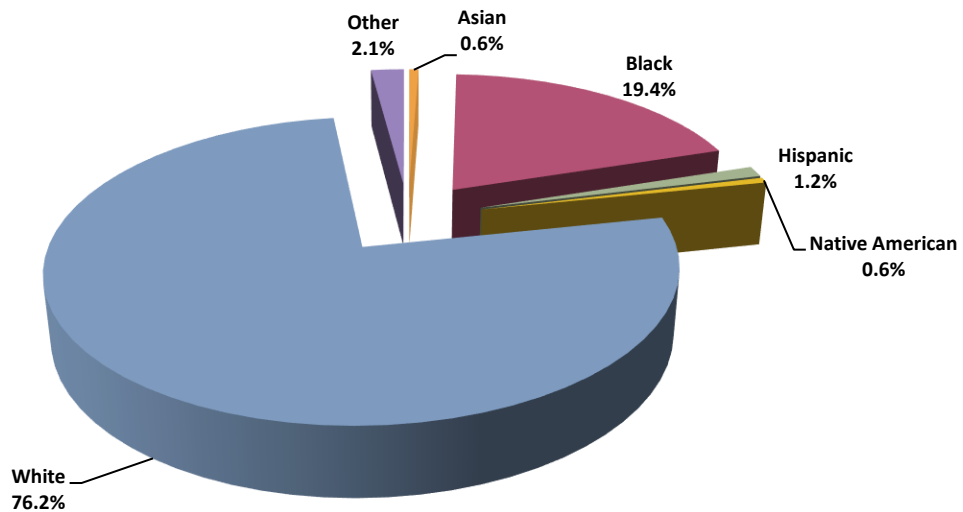
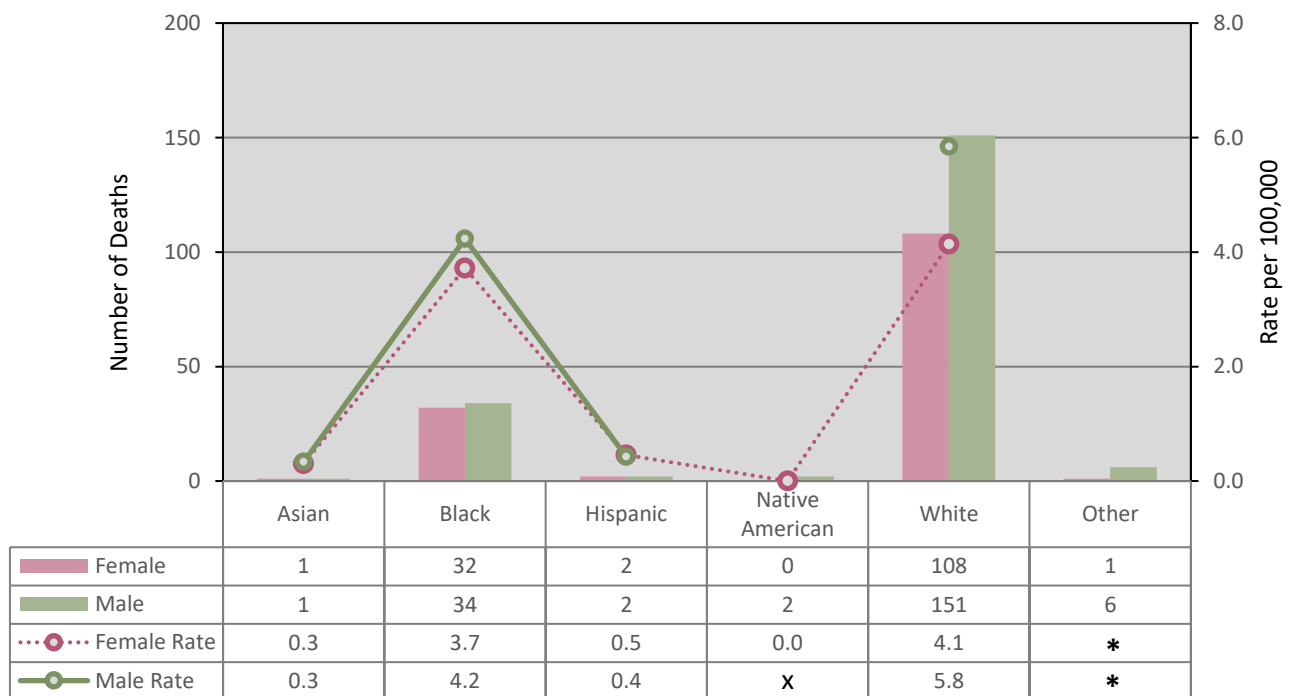


Figure 5.17 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity and Gender, 2022



*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians and Native American males). The rate among Native American males was so exceedingly high and unreliable, that it was suppressed in this graphic

Table 5.11 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2022

Locality of Residence	Deaths	Rate
Accomack County	0	0.0
Albemarle County	1	0.9
Alexandria City	5	3.2
Alleghany County	1	6.7
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.0
Arlington County	5	2.1
Augusta County	2	2.6
Bath County	0	0.0
Bedford County	4	4.9
Bland County	1	16.3
Botetourt County	1	2.9
Bristol City	3	17.7
Brunswick County	0	0.0
Buchanan County	5	25.8
Buckingham County	0	0.0
Buena Vista City	1	15.2
Campbell County	0	0.0
Caroline County	0	0.0
Carroll County	1	3.4
Charles City County	1	15.1
Charlotte County	0	0.0
Charlottesville City	1	2.2
Chesapeake City	7	2.8
Chesterfield County	6	1.6
Clarke County	3	19.7
Colonial Heights City	1	5.5
Covington City	1	17.6
Craig County	0	0.0
Culpeper County	4	7.4
Cumberland County	0	0.0
Danville City	1	2.4
Dickenson County	5	36.4
Dinwiddie County	0	0.0
Emporia City	1	18.2
Essex County	0	0.0
Fairfax City	0	0.0
Fairfax County	12	1.1

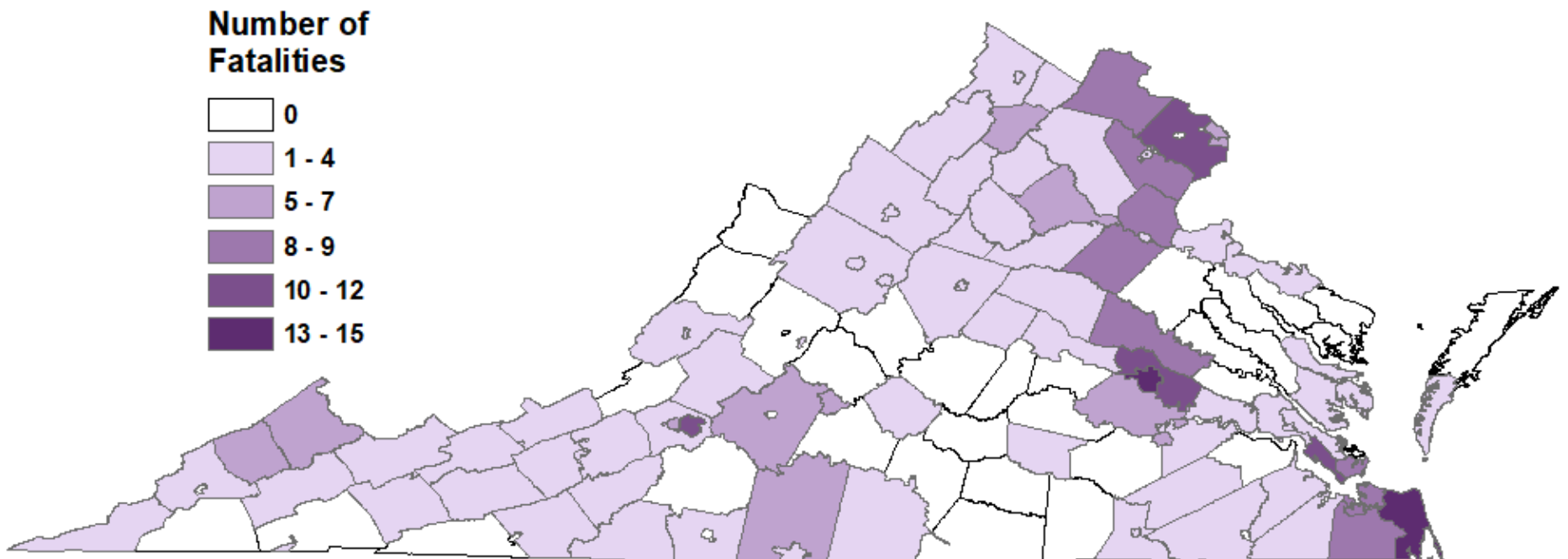
Locality of Residence	Deaths	Rate
Falls Church City	0	0.0
Fauquier County	3	4.0
Floyd County	1	6.4
Fluvanna County	1	3.6
Franklin City	0	0.0
Franklin County	0	0.0
Frederick County	3	3.2
Fredericksburg City	2	7.0
Galax City	0	0.0
Giles County	2	12.2
Gloucester County	3	7.6
Goochland County	1	3.8
Grayson County	0	0.0
Greene County	3	14.2
Greensville County	1	8.9
Halifax County	1	3.0
Hampton City	7	5.1
Hanover County	9	8.0
Harrisonburg City	1	2.0
Henrico County	10	3.0
Henry County	3	6.0
Highland County	0	0.0
Hopewell City	5	21.8
Isle of Wight County	3	7.5
James City County	2	2.5
King and Queen County	0	0.0
King George County	3	10.8
King William County	0	0.0
Lancaster County	0	0.0
Lee County	2	9.1
Lexington City	0	0.0
Loudoun County	7	1.6
Louisa County	2	5.0
Lunenburg County	0	0.0
Lynchburg City	6	7.6
Madison County	1	7.1
Manassas City	1	2.3
Manassas Park City	0	0.0
Martinsville City	0	0.0

Locality of Residence	Deaths	Rate
Mathews County	1	11.8
Mecklenburg County	0	0.0
Middlesex County	1	9.1
Montgomery County	2	2.0
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	11	6.0
Norfolk City	9	3.9
Northampton County	2	16.8
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.4
Orange County	3	7.9
Page County	3	12.6
Patrick County	1	5.7
Petersburg City	5	15.0
Pittsylvania County	4	6.7
Poquoson City	0	0.0
Portsmouth City	8	8.2
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	1	2.3
Prince William County	8	1.6
Pulaski County	2	5.9
Radford City	2	11.9
Rappahannock County	1	13.3
Richmond City	15	6.5
Richmond County	0	0.0
Roanoke City	12	12.3
Roanoke County	3	3.1

Locality of Residence	Deaths	Rate
Rockbridge County	0	0.0
Rockingham County	3	3.5
Russell County	2	7.9
Salem City	4	15.7
Scott County	0	0.0
Shenandoah County	1	2.2
Smyth County	2	6.8
Southampton County	1	5.6
Spotsylvania County	8	5.5
Stafford County	8	4.9
Staunton City	3	11.6
Suffolk City	3	3.0
Surry County	0	0.0
Sussex County	1	9.4
Tazewell County	2	5.0
Virginia Beach City	15	3.3
Warren County	4	9.7
Washington County	0	0.0
Waynesboro City	1	4.4
Westmoreland County	1	5.3
Williamsburg City	1	6.3
Winchester City	1	3.6
Wise County	2	5.6
Wythe County	1	3.6
York County	1	1.4
<i>Subtotal (in-state)</i>	317	3.7
Out of State	20	ND
Unknown	3	ND
<i>Subtotal (out-of-state)</i>	23	ND
TOTAL	340	3.9

Note: No denominator is represented by ND

Map 5.5 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2022



Map 5.6 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2022

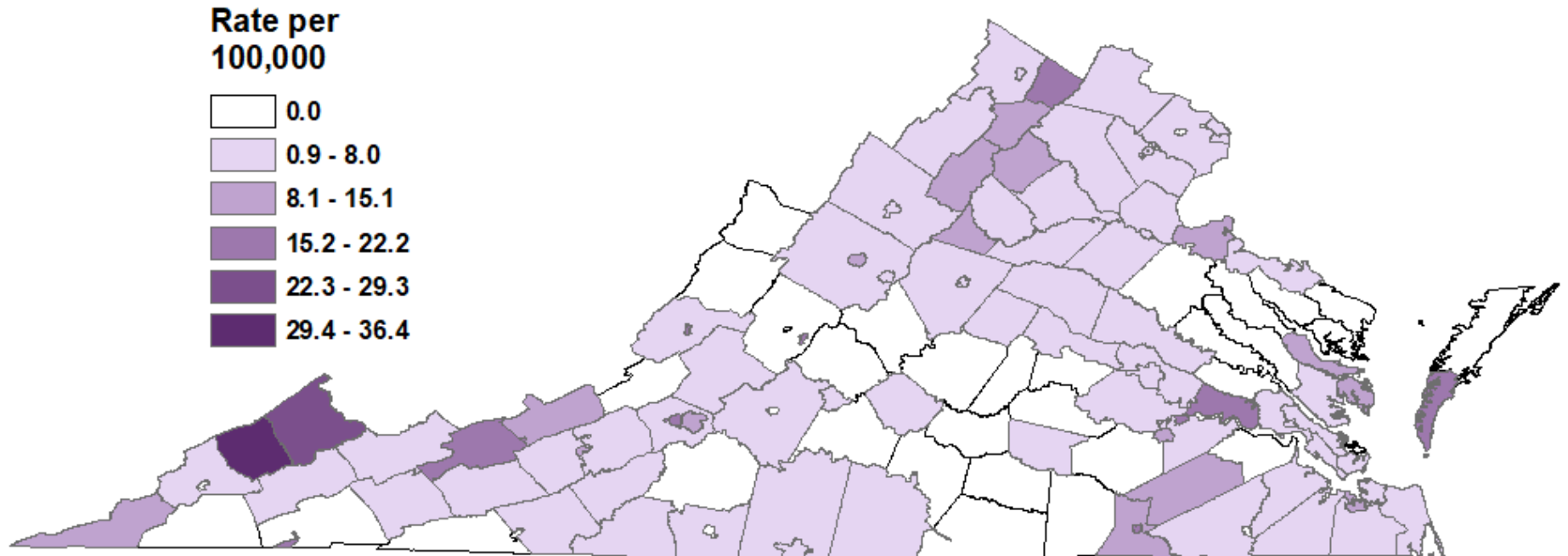


Table 5.12 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2022

Locality of Injury	Deaths	Rate
Accomack County	0	0.0
Albemarle County	1	0.9
Alexandria City	7	4.5
Alleghany County	1	6.7
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.0
Arlington County	5	2.1
Augusta County	2	2.6
Bath County	0	0.0
Bedford County	5	6.2
Bland County	1	16.3
Botetourt County	0	0.0
Bristol City	5	29.5
Brunswick County	0	0.0
Buchanan County	6	31.0
Buckingham County	0	0.0
Buena Vista City	1	15.2
Campbell County	0	0.0
Caroline County	0	0.0
Carroll County	0	0.0
Charles City County	1	15.1
Charlotte County	0	0.0
Charlottesville City	1	2.2
Chesapeake City	9	3.6
Chesterfield County	9	2.4
Clarke County	2	13.1
Colonial Heights City	2	10.9
Covington City	1	17.6
Craig County	1	20.6
Culpeper County	3	5.5
Cumberland County	0	0.0
Danville City	1	2.4
Dickenson County	3	21.9
Dinwiddie County	0	0.0
Emporia City	1	18.2
Essex County	0	0.0
Fairfax City	0	0.0
Fairfax County	10	0.9
Falls Church City	0	0.0
Fauquier County	3	4.0
Floyd County	1	6.4

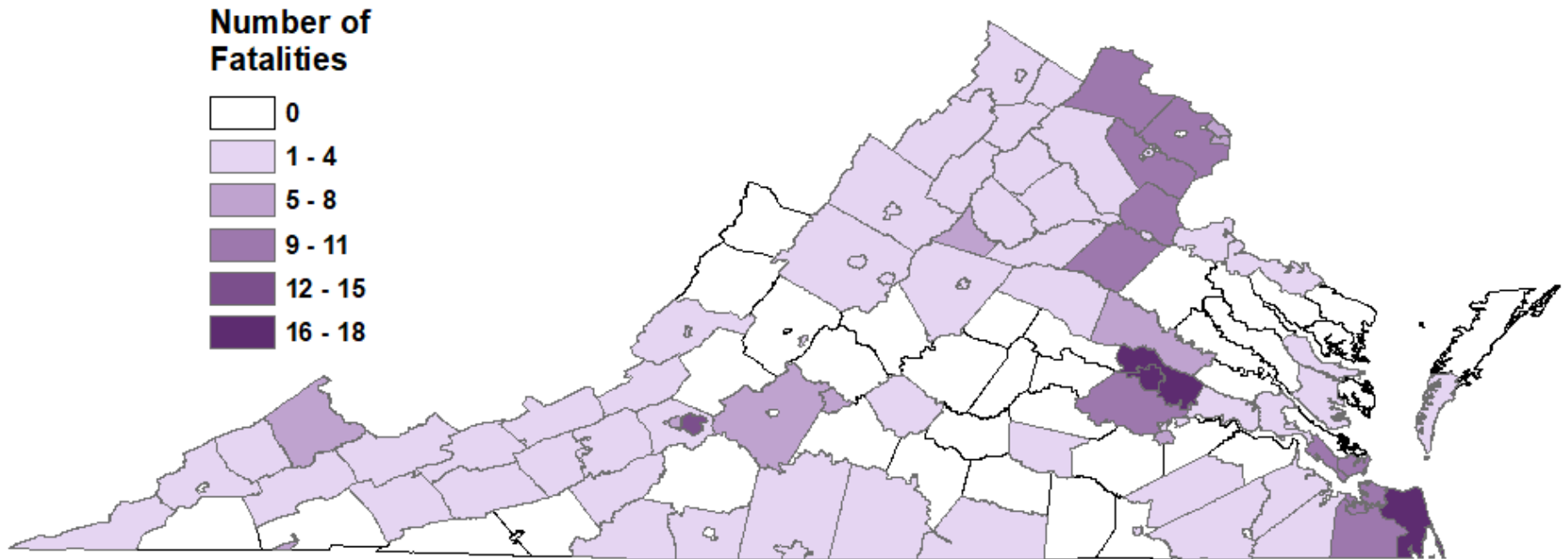
Locality of Injury	Deaths	Rate
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	0	0.0
Frederick County	4	4.2
Fredericksburg City	3	10.4
Galax City	0	0.0
Giles County	3	18.2
Gloucester County	4	10.1
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	5	23.7
Greensville County	0	0.0
Halifax County	1	3.0
Hampton City	9	6.5
Hanover County	5	4.4
Harrisonburg City	3	5.9
Henrico County	15	4.5
Henry County	3	6.0
Highland County	0	0.0
Hopewell City	4	17.4
Isle of Wight County	3	7.5
James City County	2	2.5
King and Queen County	0	0.0
King George County	3	10.8
King William County	0	0.0
Lancaster County	0	0.0
Lee County	2	9.1
Lexington City	0	0.0
Loudoun County	8	1.9
Louisa County	1	2.5
Lunenburg County	0	0.0
Lynchburg City	6	7.6
Madison County	1	7.1
Manassas City	1	2.3
Manassas Park City	0	0.0
Martinsville City	0	0.0
Mathews County	0	0.0
Mecklenburg County	1	3.3
Middlesex County	1	9.1
Montgomery County	2	2.0
Nelson County	0	0.0
New Kent County	0	0.0

Locality of Injury	Deaths	Rate
Newport News City	9	4.9
Norfolk City	9	3.9
Northampton County	2	16.8
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.4
Orange County	2	5.3
Page County	3	12.6
Patrick County	1	5.7
Petersburg City	5	15.0
Pittsylvania County	3	5.0
Poquoson City	0	0.0
Portsmouth City	9	9.3
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	0	0.0
Prince William County	11	2.3
Pulaski County	2	5.9
Radford City	2	11.9
Rappahannock County	1	13.3
Richmond City	17	7.4
Richmond County	0	0.0
Roanoke City	12	12.3
Roanoke County	1	1.0
Rockbridge County	0	0.0
Rockingham County	2	2.3
Russell County	2	7.9
Salem City	5	19.6
Scott County	0	0.0
Shenandoah County	2	4.4
Smyth County	2	6.8
Southampton County	1	5.6
Spotsylvania County	8	5.5
Stafford County	10	6.1
Staunton City	3	11.6
Suffolk City	2	2.0
Surry County	0	0.0
Sussex County	1	9.4
Tazewell County	2	5.0
Virginia Beach City	18	4.0
Warren County	3	7.2
Washington County	0	0.0
Waynesboro City	1	4.4

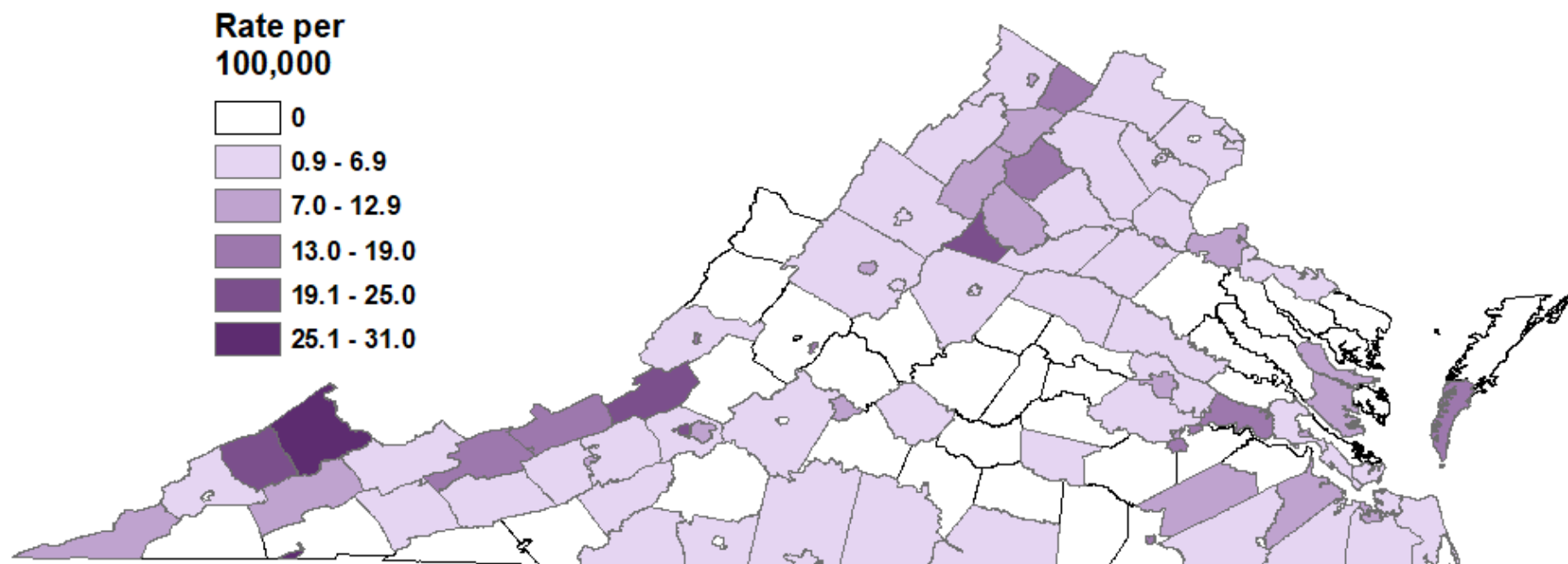
Locality of Injury	Deaths	Rate
Westmoreland County	1	5.3
Williamsburg City	2	12.6
Winchester City	3	10.7
Wise County	2	5.6
Wythe County	1	3.6
York County	0	0.0
<i>Subtotal (in-state)</i>	334	3.8
Out of State	3	ND
Unknown	3	ND
<i>Subtotal (out-of-state)</i>	6	ND
TOTAL	340	3.9

Note: No denominator is represented by ND

Map 5.7 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2022



Map 5.8 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2022



FENTANYL AND/OR HEROIN DEATHS (N=1,995)

The number of fatal fentanyl and/or heroin overdoses has significantly increased each year since 2010. Illicitly-produced fentanyl began appearing in Virginia in 2013/2014 and was often mixed in with heroin or sold disguised as heroin, often unbeknownst to the user. In 2016, Virginia began seeing a spike in fentanyl analogs; drugs similar to fentanyl, but slightly different in their chemical structure which alters potency. Illicitly produced fentanyl, but not the various fentanyl analogs, is indistinguishable from pharmaceutical fentanyl in toxicology.

- Fatal fentanyl and/or heroin overdoses in 2022 decreased by 3.1% when compared to 2021
- Over 99% of fatal fentanyl and/or heroin overdoses in 2022 were accidents
- In 2022, males 35-44 years of age had the highest rate of death (74.4 deaths per 100,000 persons)
- Fentanyl and/or heroin was involved in 76.2% of all drug/poison cases in Virginia in 2022

Figure 5.18 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Year of Death, 2007-2022

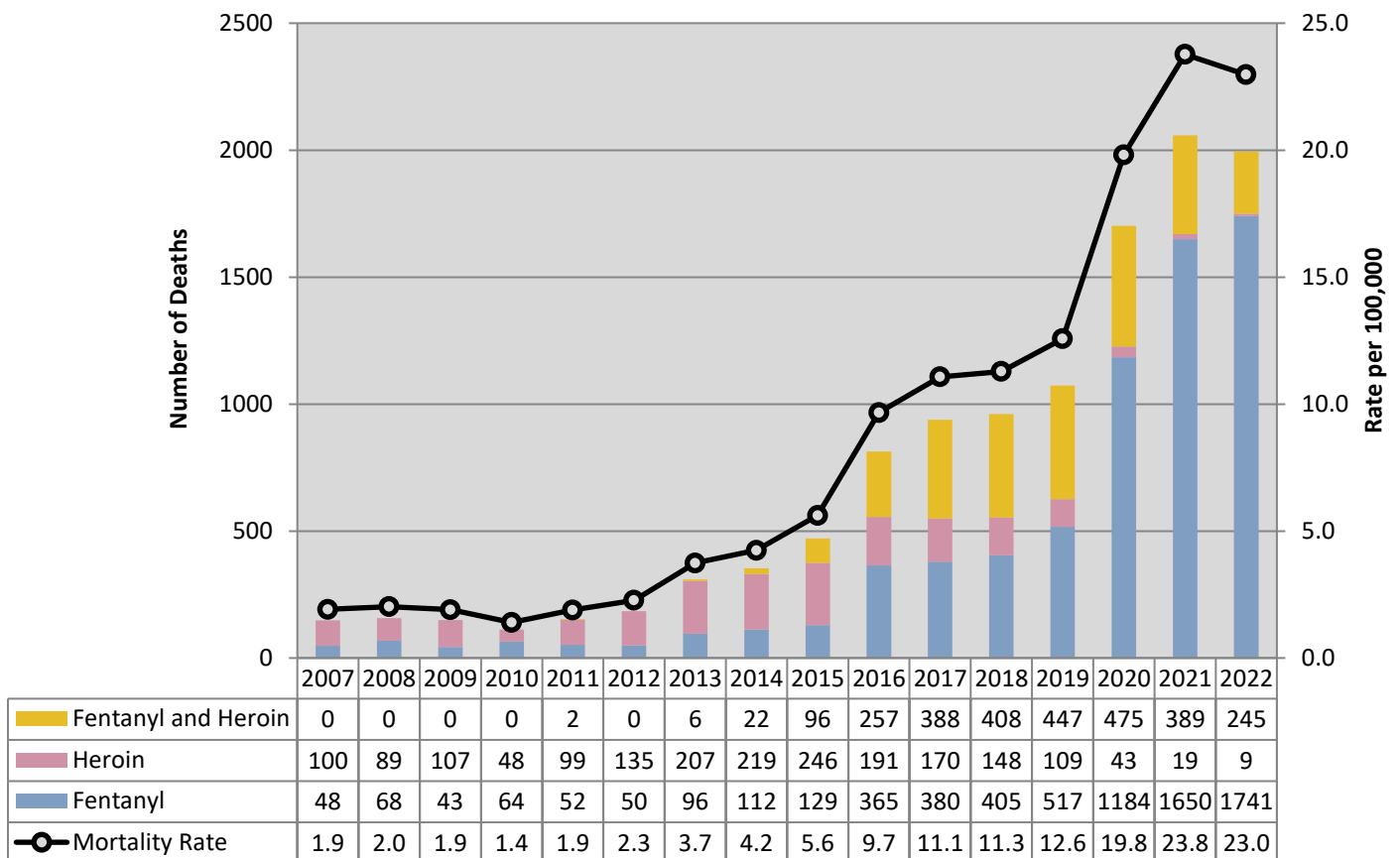
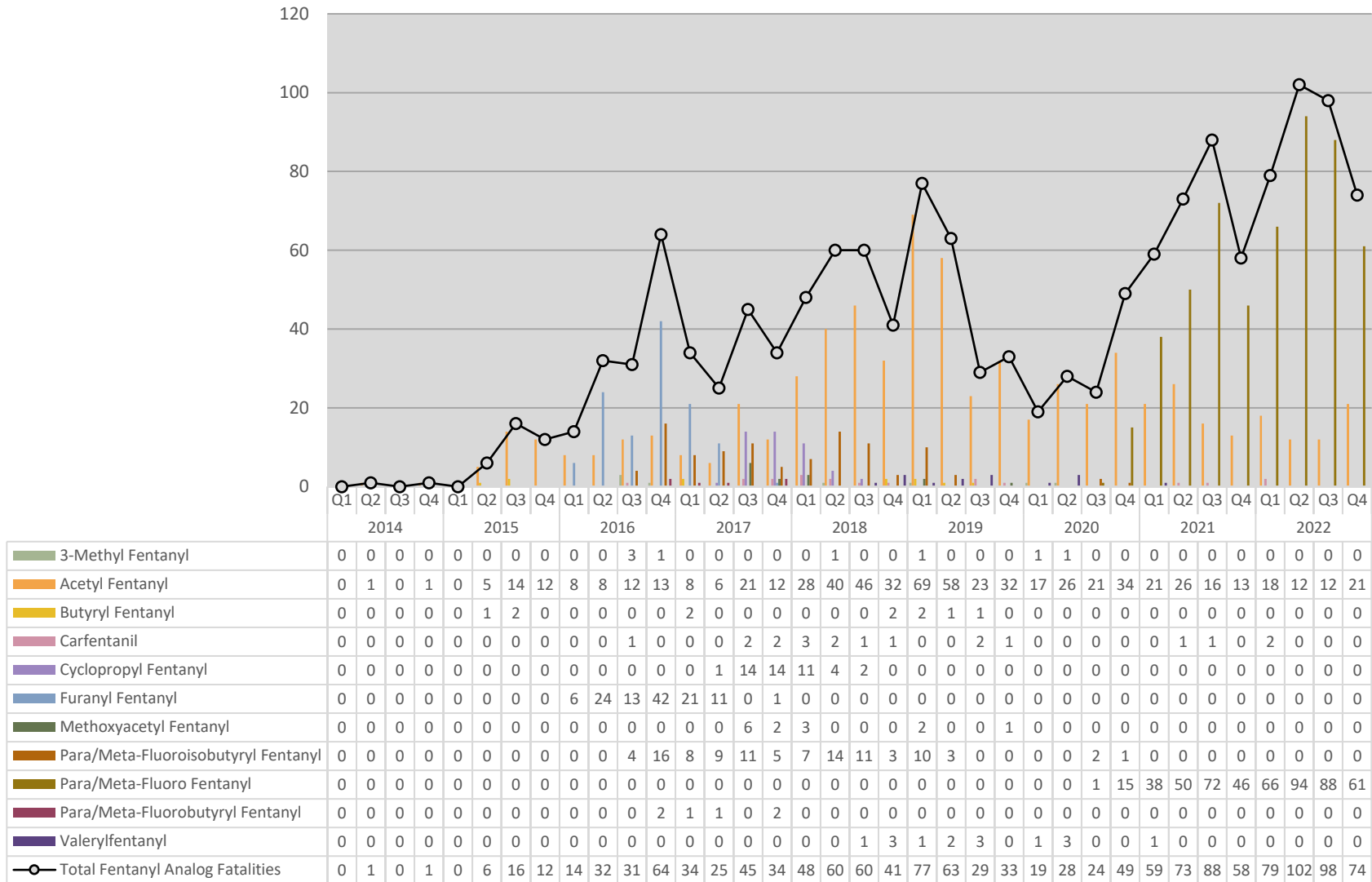


Figure 5.19 Number of Fatal Fentanyl Analog Overdoses Quarter, 2014-2022



** Each fentanyl analog is tallied by each time it caused or contributed to death (analyzed from either toxicology or the cause of death statement) and therefore the total number of analogs will exceed the actual number of fatalities

Table 5.13 Number of Fatal Fentanyl and/or Heroin Overdoses by OCME District, 2022

OCME District	Fentanyl	Heroin	Fentanyl and Heroin	Total
Central	575	2	125	702
Northern	357	1	12	370
Tidewater	458	4	76	538
Western	351	2	32	385
Total	1741	9	245	1995

Figure 5.20 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Manner of Death, 2022

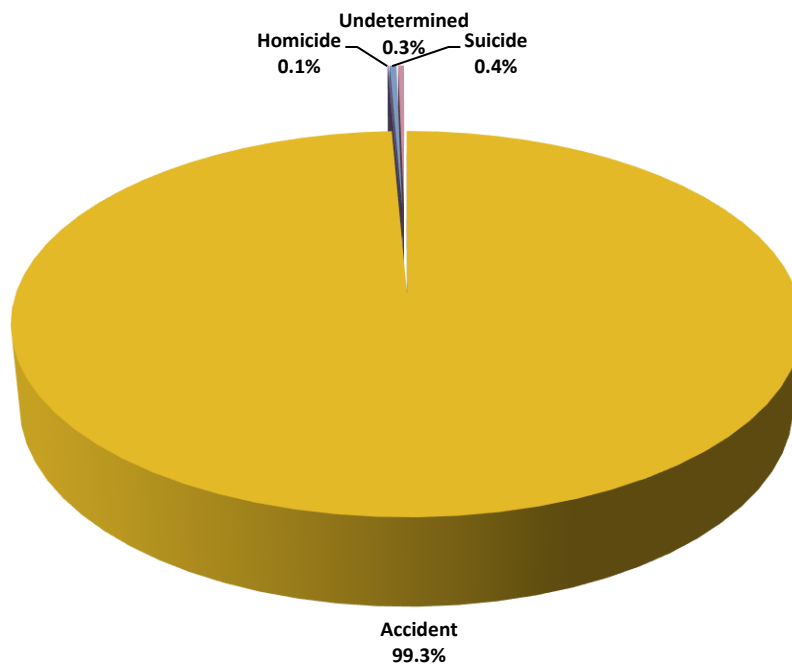
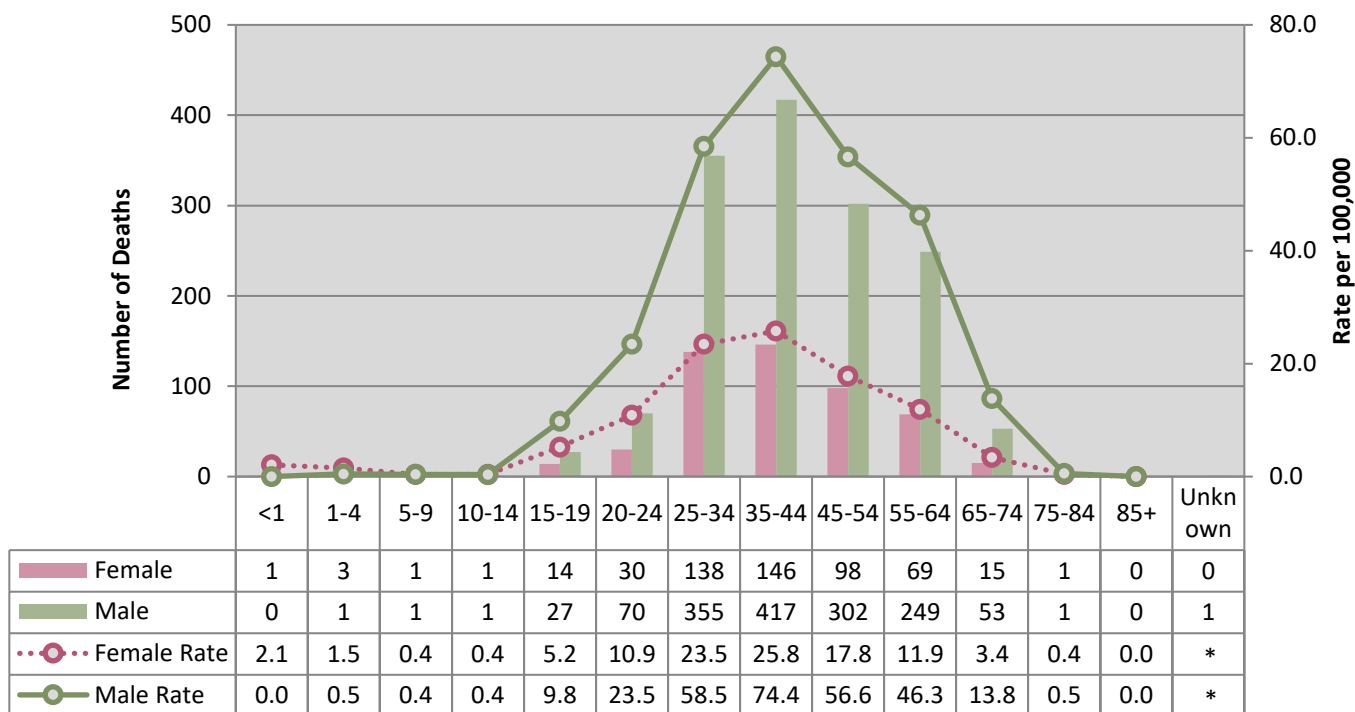


Figure 5.21 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Age Group and Gender, 2022



* No denominator for which to calculate rate

Figure 5.22 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity, 2022

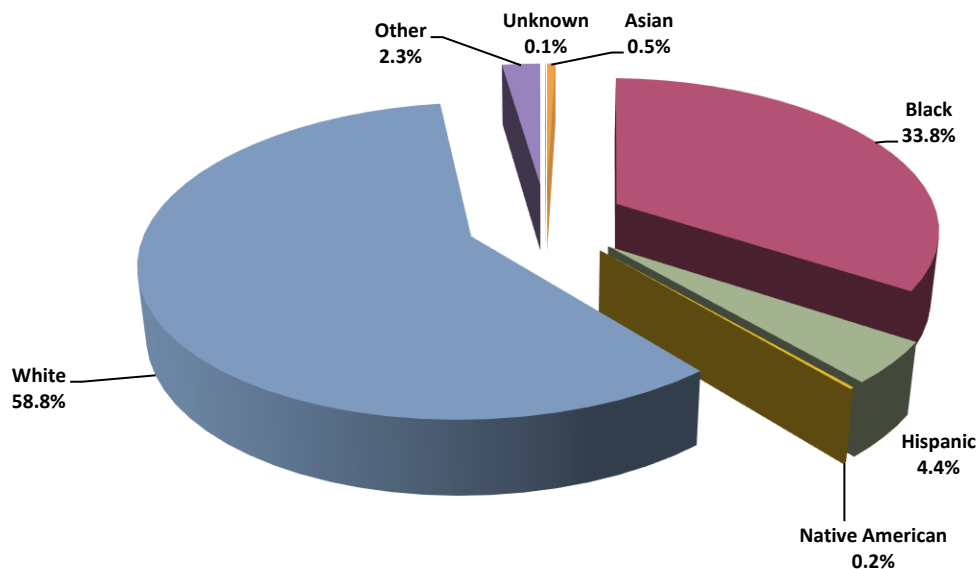


Figure 5.23 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity and Gender, 2022



*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asian females and Native Americans)

Table 5.14 Number and Percentage of Fatal Fentanyl and/or Heroin Overdoses by Whether Alcohol Caused Death, 2022

Whether Alcohol Played a Role in Death	Deaths	Percentage
Yes	236	11.8%
Contributed	105	5.3%
No	1654	82.9%
TOTAL	1995	100.0%

Table 5.15 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2022

Locality of Residence	Deaths	Rate
Accomack County	1	3.0
Albemarle County	18	15.7
Alexandria City	15	9.6
Alleghany County	5	33.7
Amelia County	1	7.4
Amherst County	4	12.7
Appomattox County	2	11.9
Arlington County	14	6.0
Augusta County	5	6.4
Bath County	0	0.0
Bedford County	19	23.5
Bland County	3	48.8
Botetourt County	6	17.6
Bristol City	5	29.5
Brunswick County	8	50.2
Buchanan County	14	72.3
Buckingham County	5	29.4
Buena Vista City	2	30.3
Campbell County	3	5.4
Caroline County	5	15.6
Carroll County	3	10.3
Charles City County	0	0.0
Charlotte County	2	17.4
Charlottesville City	10	22.0
Chesapeake City	56	22.2
Chesterfield County	77	20.3
Clarke County	2	13.1
Colonial Heights City	4	21.9
Covington City	1	17.6
Craig County	2	41.3
Culpeper County	14	25.7
Cumberland County	4	41.0
Danville City	9	21.3
Dickenson County	5	36.4
Dinwiddie County	8	28.4
Emporia City	0	0.0
Essex County	3	28.2
Fairfax City	0	0.0
Fairfax County	79	6.9

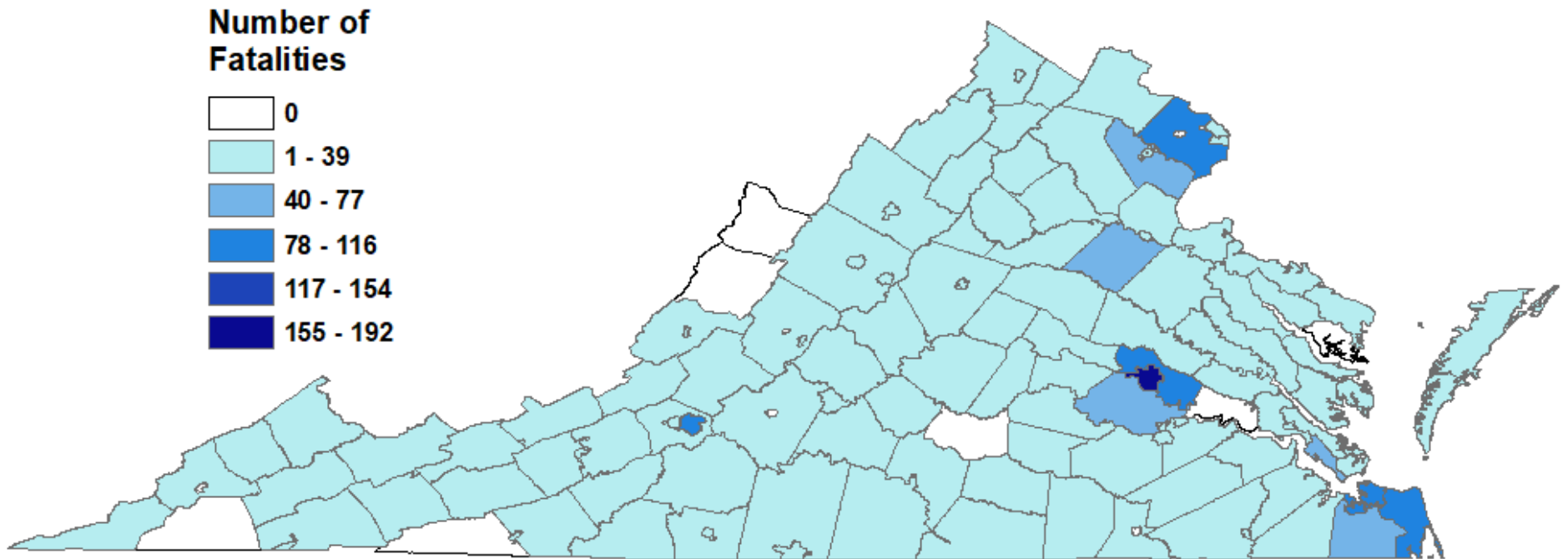
Locality of Residence	Deaths	Rate
Falls Church City	0	0.0
Fauquier County	16	21.4
Floyd County	4	25.6
Fluvanna County	6	21.3
Franklin City	2	24.3
Franklin County	14	25.4
Frederick County	12	12.6
Fredericksburg City	12	41.7
Galax City	1	14.9
Giles County	2	12.2
Gloucester County	9	22.8
Goochland County	6	23.0
Grayson County	0	0.0
Greene County	5	23.7
Greensville County	3	26.7
Halifax County	16	47.6
Hampton City	37	26.8
Hanover County	27	23.9
Harrisonburg City	6	11.7
Henrico County	96	28.7
Henry County	29	58.1
Highland County	0	0.0
Hopewell City	18	78.4
Isle of Wight County	11	27.4
James City County	9	11.1
King and Queen County	2	29.8
King George County	5	17.9
King William County	2	10.8
Lancaster County	0	0.0
Lee County	1	4.5
Lexington City	0	0.0
Loudoun County	18	4.2
Louisa County	10	24.9
Lunenburg County	4	33.2
Lynchburg City	19	24.0
Madison County	1	7.1
Manassas City	7	16.4
Manassas Park City	4	23.9
Martinsville City	6	43.7

Locality of Residence	Deaths	Rate
Mathews County	4	47.1
Mecklenburg County	4	13.1
Middlesex County	1	9.1
Montgomery County	15	15.2
Nelson County	1	6.8
New Kent County	6	24.0
Newport News City	61	33.1
Norfolk City	89	38.2
Northampton County	3	25.2
Northumberland County	2	16.3
Norton City	0	0.0
Nottoway County	3	19.3
Orange County	14	36.9
Page County	2	8.4
Patrick County	2	11.3
Petersburg City	24	71.9
Pittsylvania County	12	20.0
Poquoson City	1	7.9
Portsmouth City	83	85.5
Powhatan County	5	15.9
Prince Edward County	0	0.0
Prince George County	9	20.9
Prince William County	61	12.5
Pulaski County	5	14.8
Radford City	4	23.9
Rappahannock County	3	40.0
Richmond City	192	83.7
Richmond County	1	11.0
Roanoke City	87	88.9
Roanoke County	24	24.8
Rockbridge County	2	8.9

Locality of Residence	Deaths	Rate
Rockingham County	8	9.4
Russell County	2	7.9
Salem City	15	58.8
Scott County	0	0.0
Shenandoah County	9	20.0
Smyth County	4	13.6
Southampton County	5	27.9
Spotsylvania County	41	28.0
Stafford County	25	15.3
Staunton City	2	7.7
Suffolk City	27	27.4
Surry County	2	30.6
Sussex County	1	9.4
Tazewell County	10	25.1
Virginia Beach City	92	20.2
Warren County	15	36.2
Washington County	9	16.7
Waynesboro City	8	35.1
Westmoreland County	3	16.0
Williamsburg City	3	18.9
Winchester City	8	28.6
Wise County	5	14.1
Wythe County	2	7.1
York County	8	11.2
<i>Subtotal (in-state)</i>	1858	21.4
Out of State	114	ND
Unknown	23	ND
<i>Subtotal (out-of-state)</i>	137	ND
TOTAL	1995	23.0

Note: No denominator is represented by ND.

Map 5.9 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2022



Map 5.10 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Residence, 2022

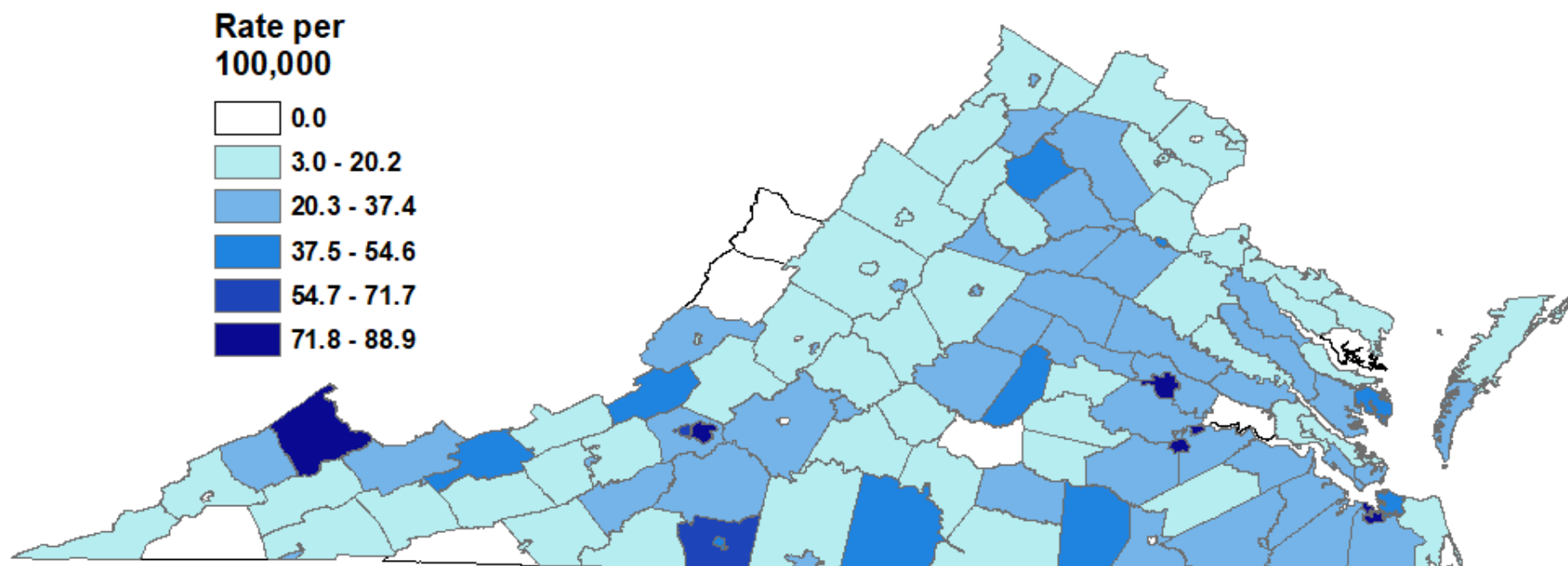


Table 5.16 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2022

Locality of Injury	Deaths	Rate
Accomack County	2	6.2
Albemarle County	19	17.2
Alexandria City	17	10.7
Alleghany County	4	27.2
Amelia County	2	15.4
Amherst County	2	6.3
Appomattox County	2	12.5
Arlington County	17	7.1
Augusta County	7	9.1
Bath County	0	0.0
Bedford County	19	23.8
Bland County	2	32.1
Botetourt County	5	14.9
Bristol City	7	40.4
Brunswick County	9	56.1
Buchanan County	14	67.9
Buckingham County	7	40.8
Buena Vista City	3	46.9
Campbell County	3	5.4
Caroline County	6	19.4
Carroll County	3	10.0
Charles City County	0	0.0
Charlotte County	1	8.5
Charlottesville City	14	29.8
Chesapeake City	59	23.9
Chesterfield County	65	18.1
Clarke County	3	20.5
Colonial Heights City	5	29.1
Covington City	1	17.7
Craig County	2	39.4
Culpeper County	13	24.3
Cumberland County	3	30.2
Danville City	10	25.1
Dickenson County	5	35.5
Dinwiddie County	4	13.9
Emporia City	0	0.0
Essex County	2	18.3
Fairfax City	0	0.0
Fairfax County	86	7.5
Falls Church City	0	0.0
Fauquier County	15	21.0
Floyd County	3	19.0

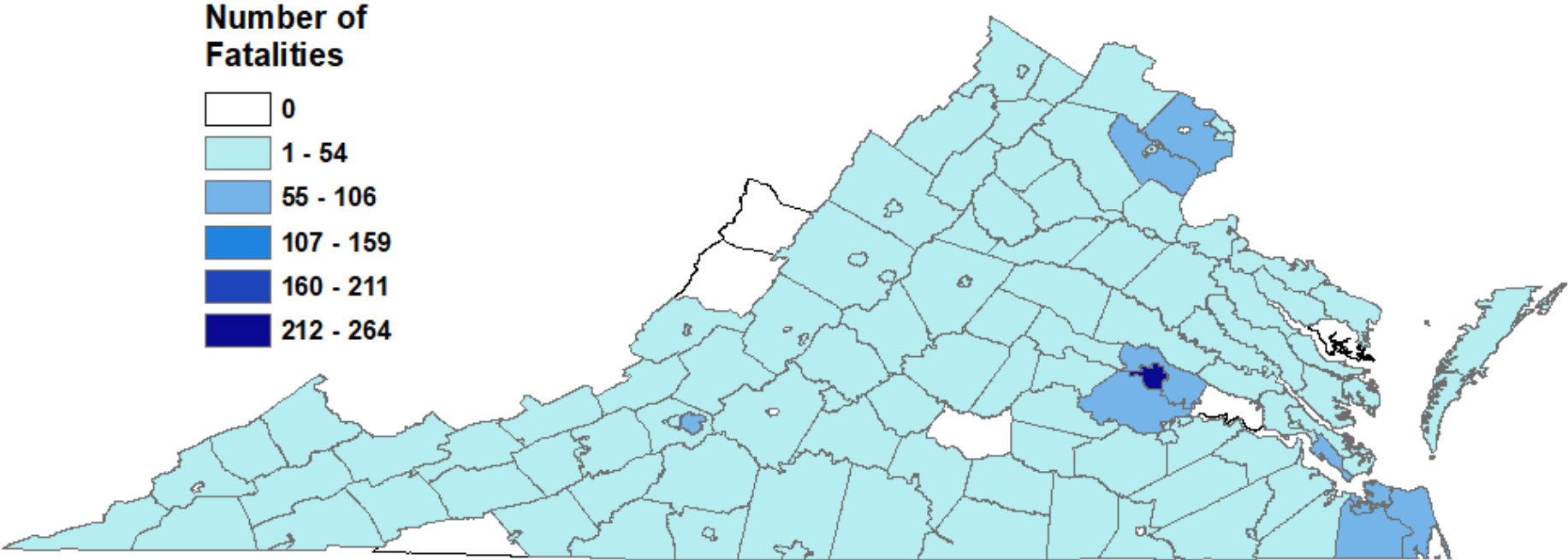
Locality of Injury	Deaths	Rate
Fluvanna County	3	10.9
Franklin City	4	51.1
Franklin County	14	24.9
Frederick County	13	14.3
Fredericksburg City	12	40.7
Galax City	2	31.8
Giles County	4	24.0
Gloucester County	10	26.7
Goochland County	3	12.3
Grayson County	0	0.0
Greene County	6	29.8
Greensville County	1	8.9
Halifax County	14	41.6
Hampton City	40	29.5
Hanover County	14	12.9
Harrisonburg City	7	13.2
Henrico County	106	31.8
Henry County	33	65.6
Highland County	0	0.0
Hopewell City	18	80.4
Isle of Wight County	8	21.2
James City County	7	9.0
King and Queen County	3	43.2
King George County	3	11.0
King William County	1	5.7
Lancaster County	0	0.0
Lee County	1	4.3
Lexington City	0	0.0
Loudoun County	16	3.8
Louisa County	4	10.5
Lunenburg County	5	40.8
Lynchburg City	17	20.8
Madison County	2	15.0
Manassas City	9	22.0
Manassas Park City	4	22.2
Martinsville City	5	40.5
Mathews County	1	11.4
Mecklenburg County	3	9.8
Middlesex County	1	9.5
Montgomery County	13	13.2
Nelson County	1	6.8
New Kent County	2	8.5

Locality of Injury	Deaths	Rate
Newport News City	70	39.1
Norfolk City	92	37.9
Northampton County	2	17.1
Northumberland County	1	8.3
Norton City	0	0.0
Nottoway County	3	19.8
Orange County	12	31.8
Page County	2	8.4
Patrick County	2	11.4
Petersburg City	30	98.5
Pittsylvania County	12	20.1
Poquoson City	2	16.3
Portsmouth City	95	99.9
Powhatan County	4	13.3
Prince Edward County	0	0.0
Prince George County	8	20.7
Prince William County	72	15.1
Pulaski County	6	17.7
Radford City	5	27.4
Rappahannock County	1	13.8
Richmond City	264	113.7
Richmond County	1	11.0
Roanoke City	100	101.0
Roanoke County	19	20.1
Rockbridge County	3	13.2
Rockingham County	4	4.9
Russell County	3	11.3
Salem City	17	67.1

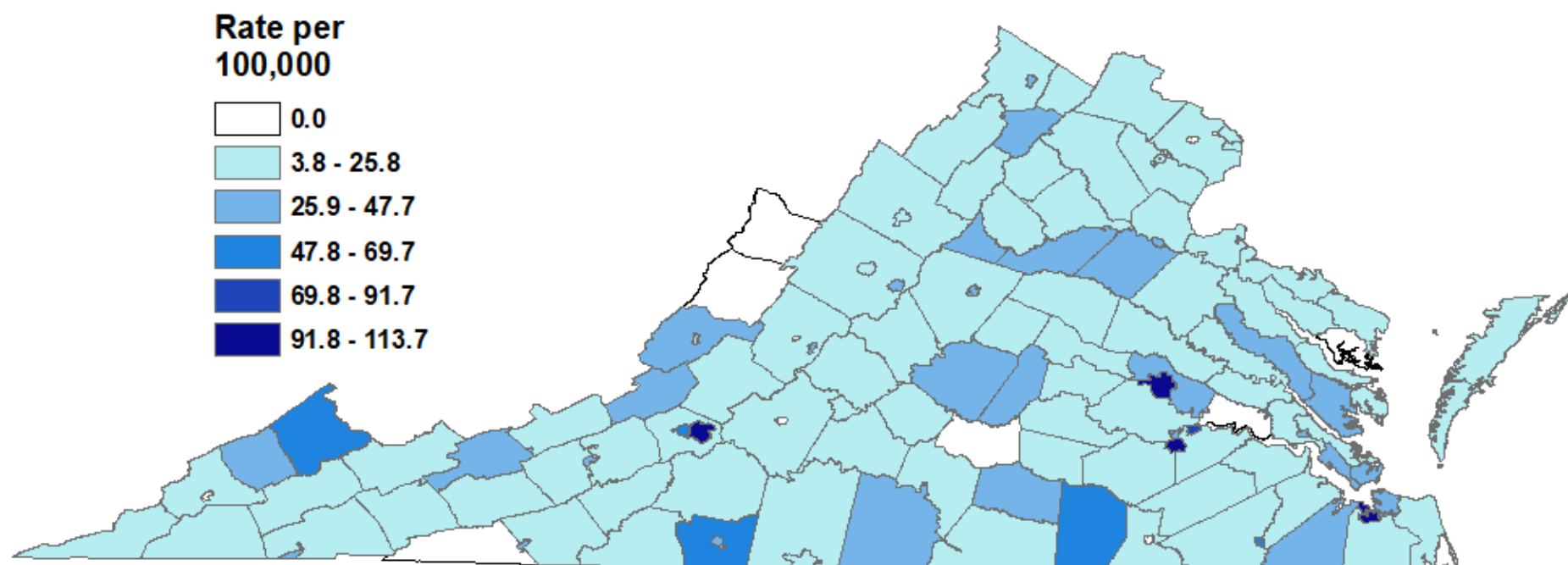
Locality of Injury	Deaths	Rate
Scott County	1	4.6
Shenandoah County	7	15.9
Smyth County	3	10.0
Southampton County	4	22.7
Spotsylvania County	44	31.8
Stafford County	25	15.9
Staunton City	2	7.9
Suffolk City	25	26.6
Surry County	1	15.7
Sussex County	1	9.2
Tazewell County	7	17.3
Virginia Beach City	90	19.9
Warren County	16	39.5
Washington County	8	14.9
Waynesboro City	8	35.2
Westmoreland County	2	11.0
Williamsburg City	4	26.2
Winchester City	9	32.5
Wise County	6	16.1
Wythe County	3	10.5
York County	7	10.1
<i>Subtotal (in-state)</i>	1954	22.7
Out of State	9	ND
Unknown	32	ND
<i>Subtotal (out-of-state)</i>	41	ND
TOTAL	1995	23.2

Note: No denominator is represented by ND.

Map 5.11 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2022



Map 5.12 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Injury, 2022



ALL OPIOID DEATHS (N=2,143)

All fatal opioid overdoses include fatal overdoses that included at least fentanyl, heroin, and/or one or more prescription opioids. Fatal opioid overdoses decreased in 2022 when compared to 2021 (3.9%) and represented 81.9% of all fatal drug overdose cases in 2022.

- Black males and males aged 35-44 years had the highest mortality rates compared to other demographic groups (64.3 and 73.8 deaths per 100,000 persons, respectively)
- Over 98% of all fatal opioid overdoses in 2022 were accidents
- Out of all opioids in 2022, fentanyl (Rx, illicit, and analogs) was responsible for the largest number of opioid deaths (92.7%)

Figure 5.24 Number and Rate of All Fatal Opioid Overdoses Year of Death, 2007-2022

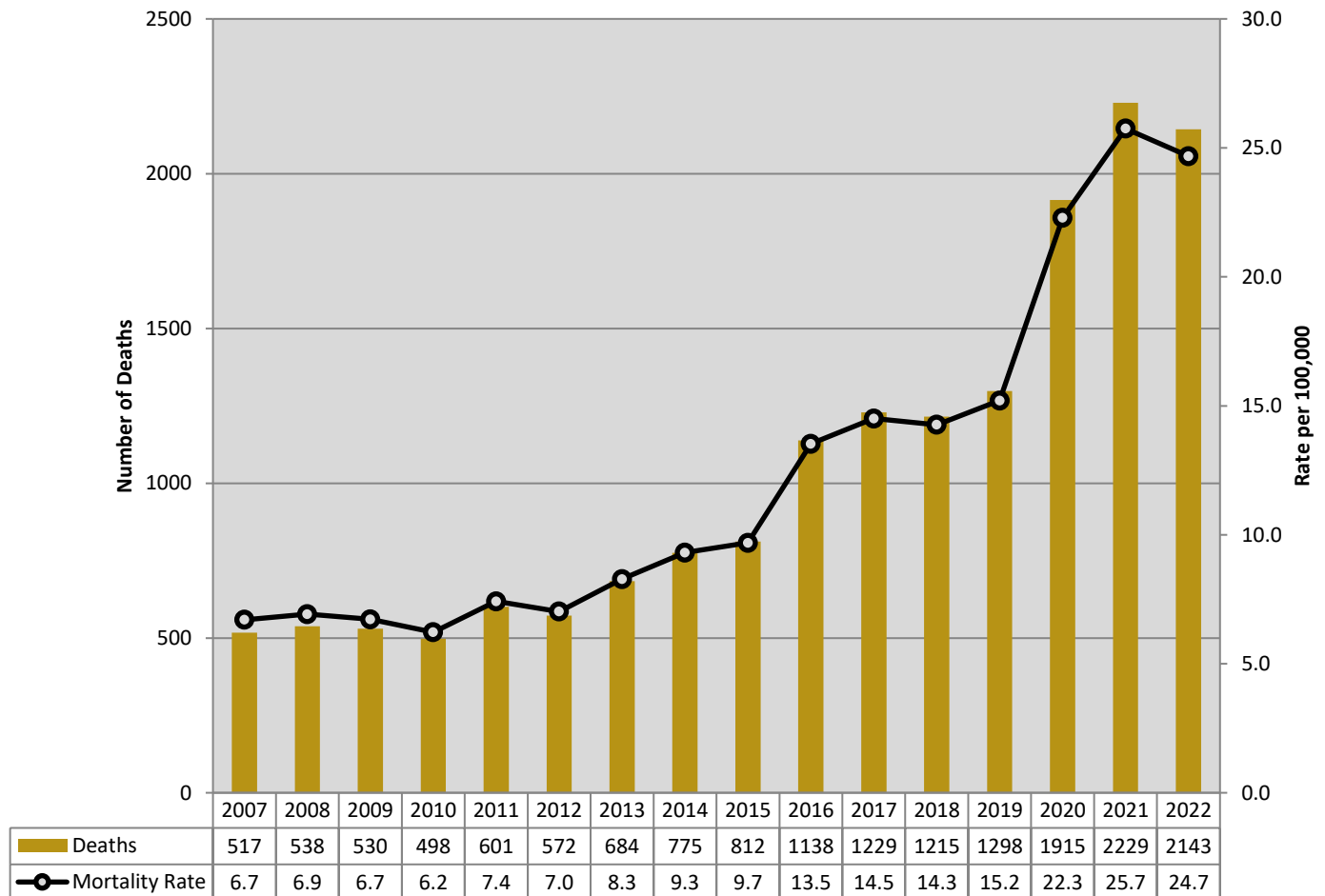


Table 5.17 Number of All Fatal Opioid Overdoses by Combination and OCME District, 2022

Drug Combination	Central	Northern	Tidewater	Western	Total
Fentanyl and/or heroin	658	310	479	341	1788
Fentanyl and/or heroin and one more prescription opioids (excluding fentanyl)	44	60	59	44	207
One or more prescription opioids (excluding fentanyl)	45	29	21	38	133
Opioids unspecified	5	0	5	5	15
Total	752	399	564	428	2143

Figure 5.25 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2022

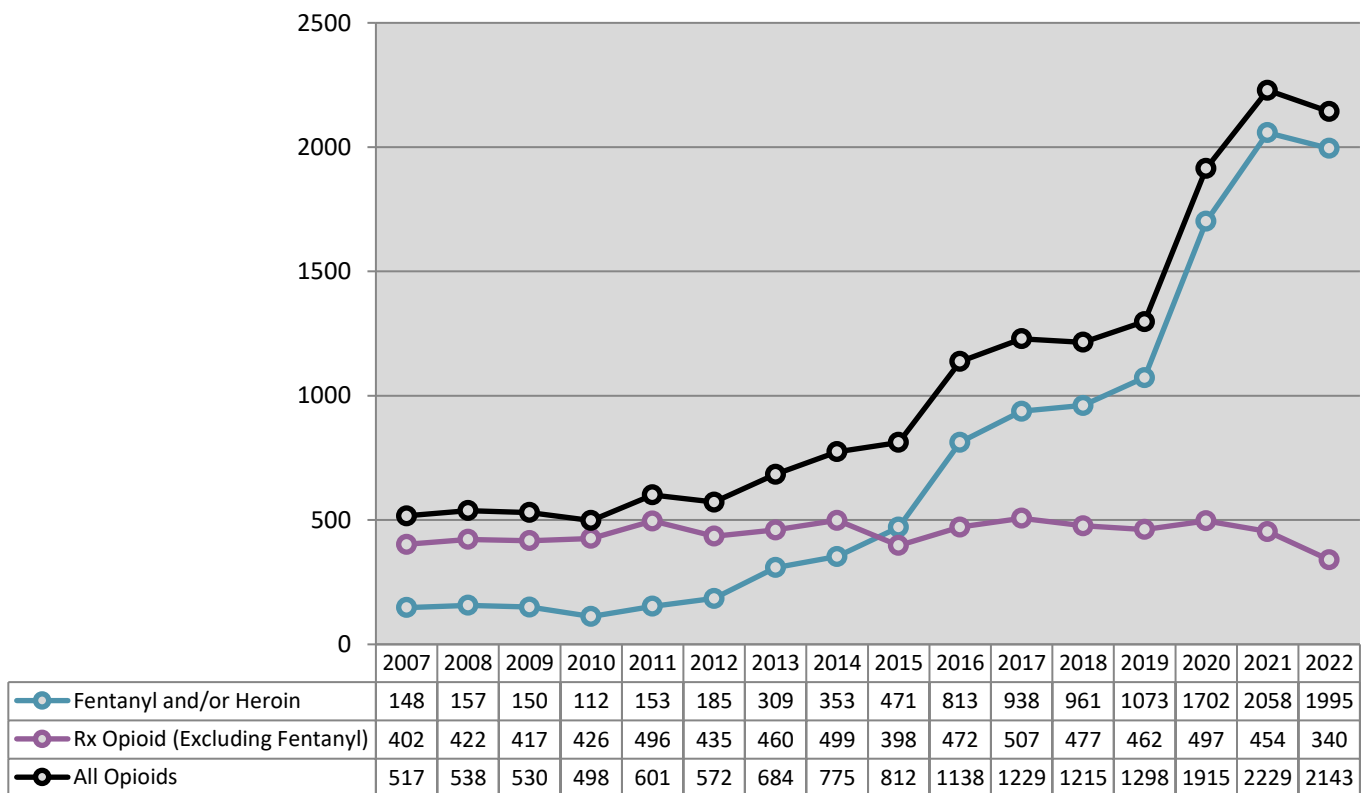


Figure 5.26 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2022

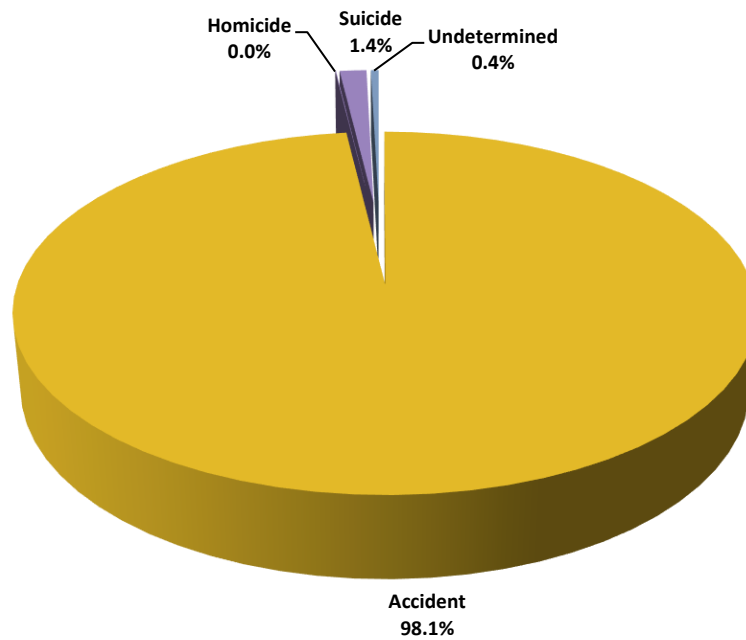
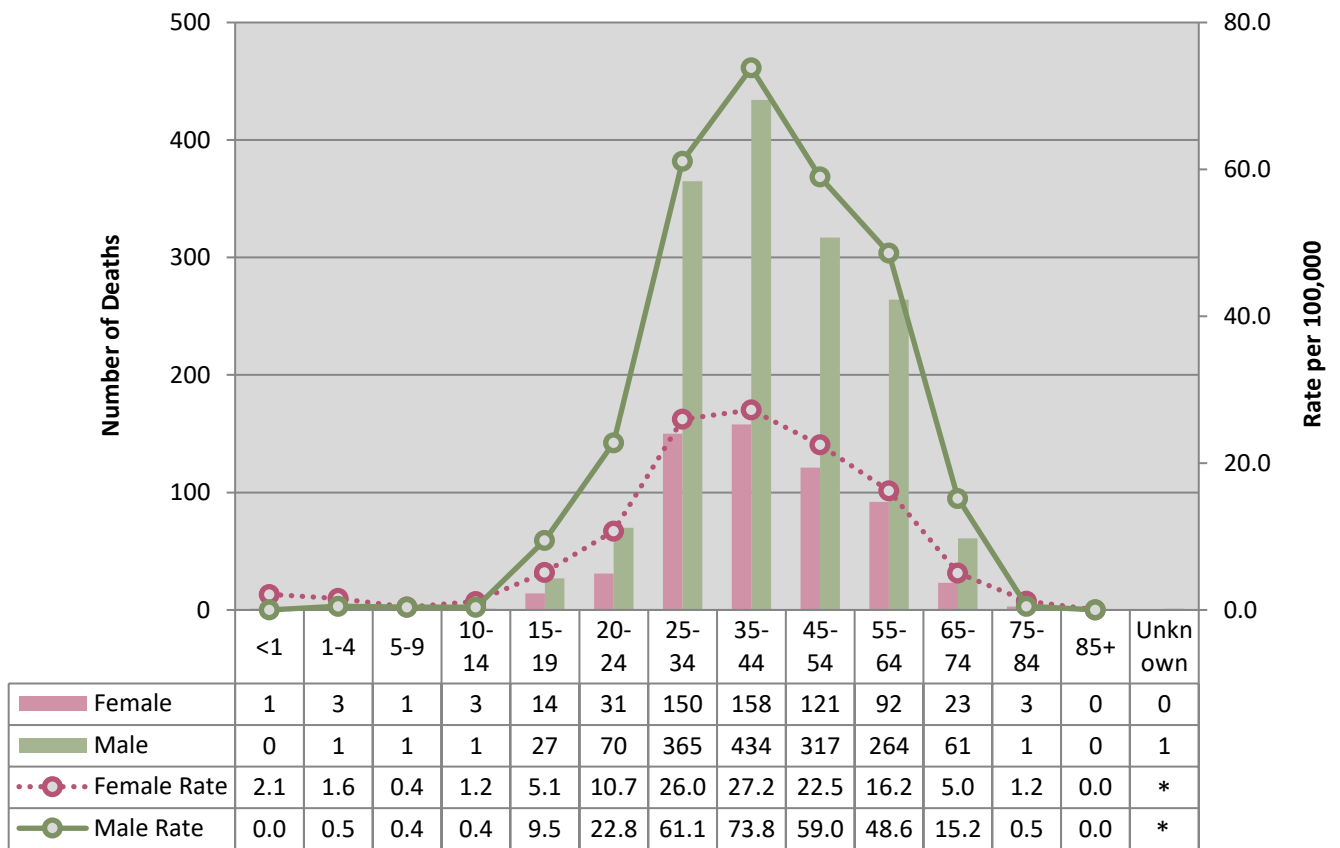


Figure 5.27 Number and Rate of All Fatal Opioid Overdoses by Age Group and Gender, 2022



* No denominator for which to calculate rate

Figure 5.28 Percentage of All Fatal Opioid Overdoses by Race/Ethnicity, 2022

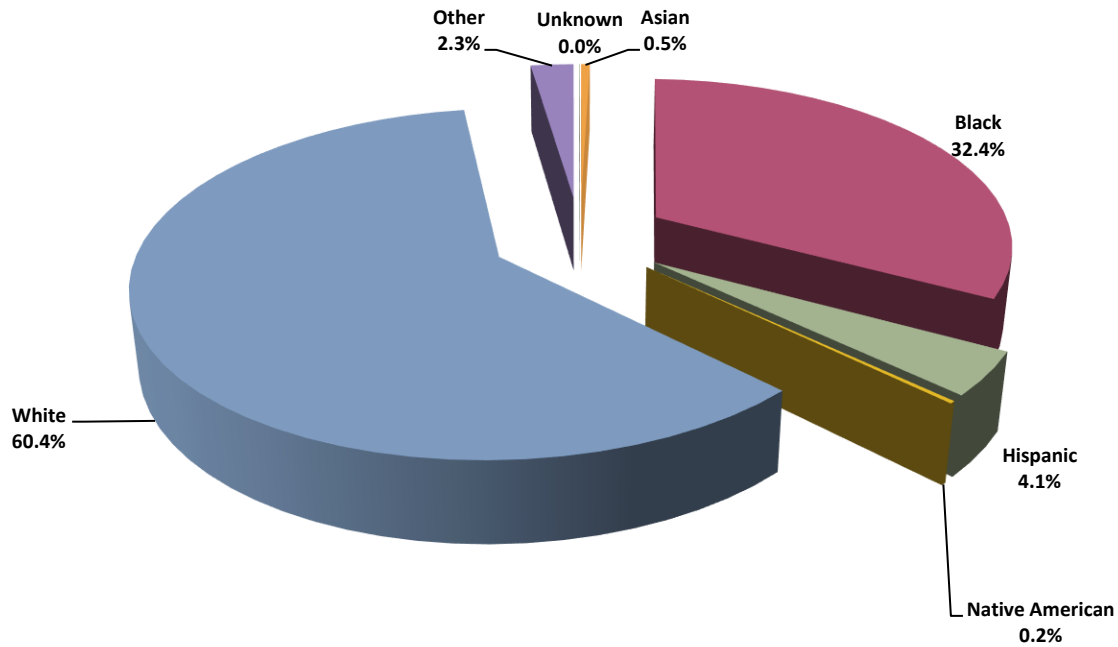
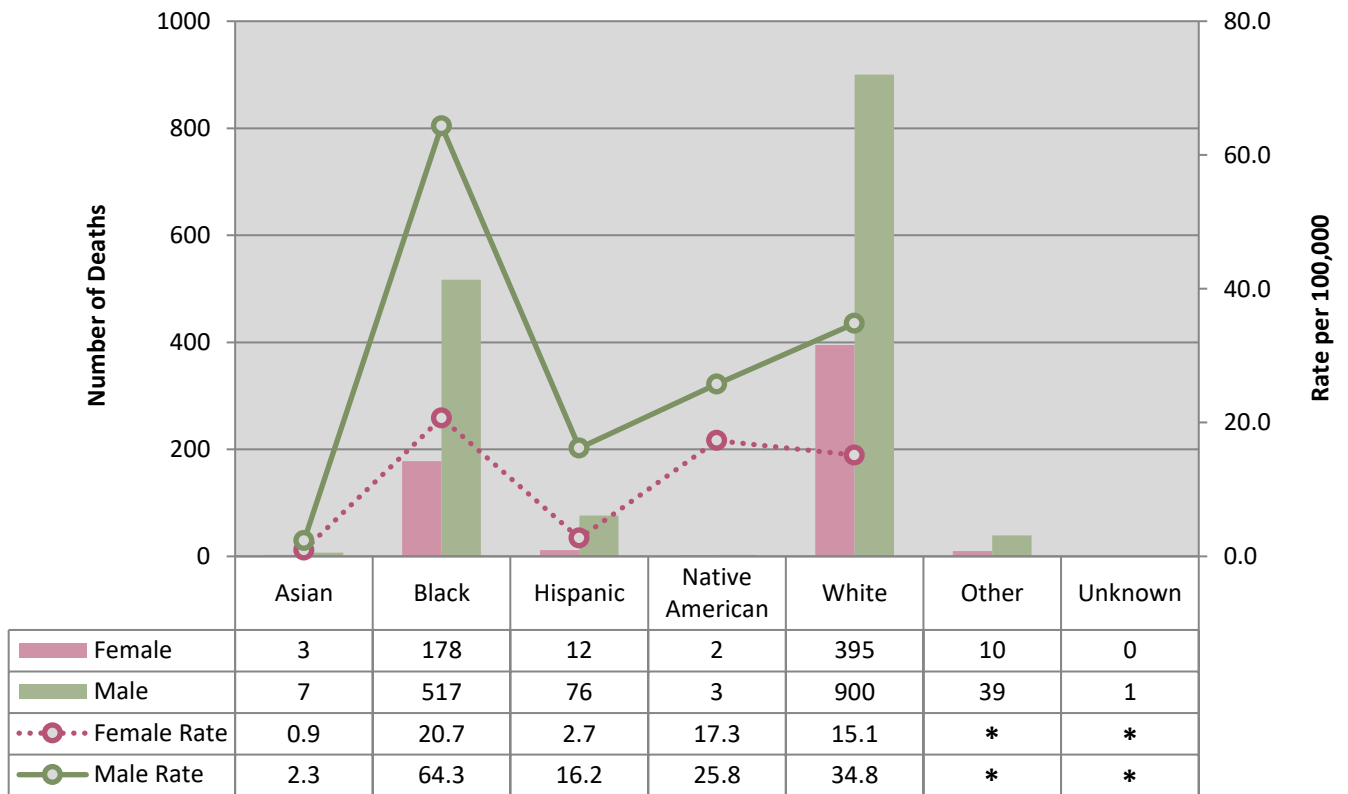
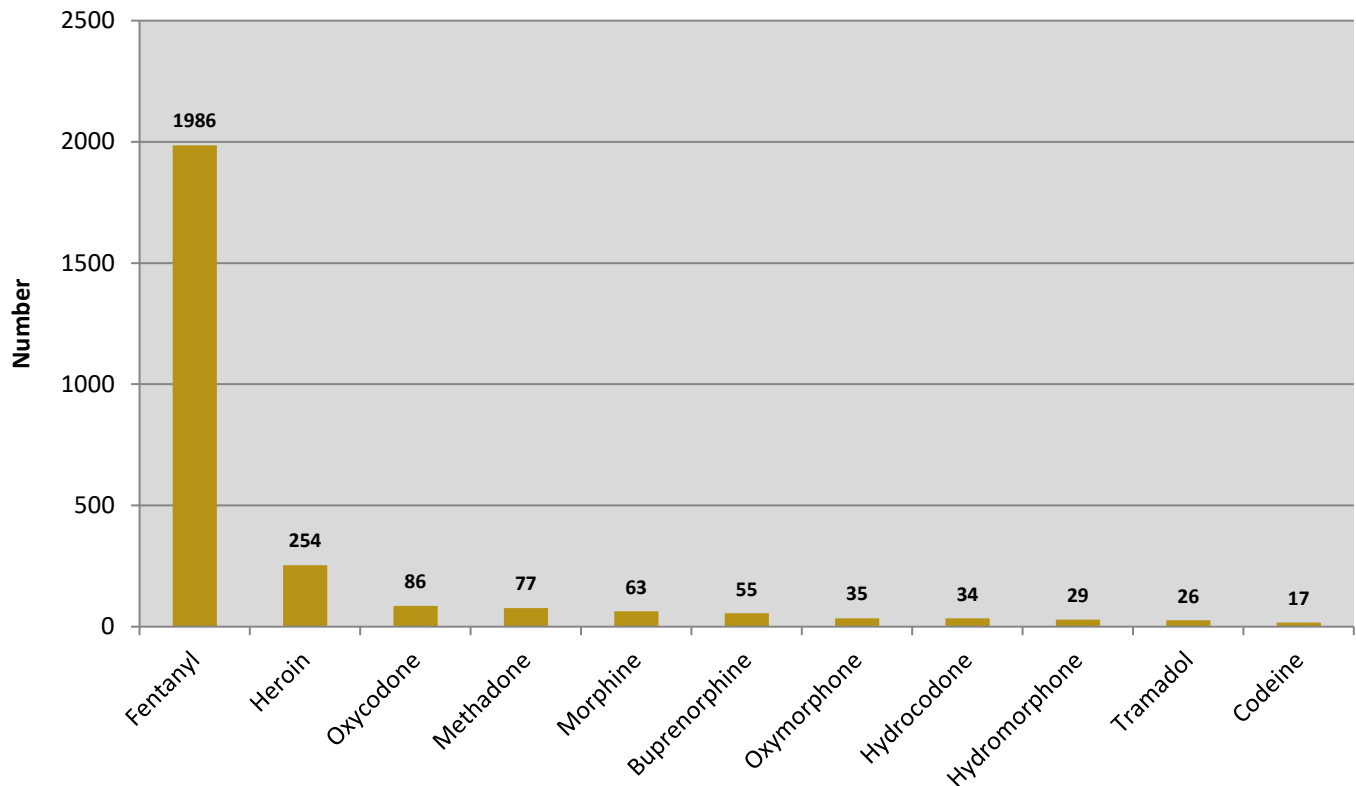


Figure 5.29 Number and Rate of All Fatal Opioid Overdoses by Race/Ethnicity and Gender, 2022



*No rate can be calculated

Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asian females and Native Americans)

Figure 5.30 Number of Opioids Causing or Contributing to Fatal Opioid Overdoses, 2022**Table 5.18 Number and Percentage of All Fatal Opioid Overdoses by Whether Alcohol Caused Death, 2022**

Whether Alcohol Played a Role in Death	Deaths	Percentage
Yes	245	11.4%
Contributed	109	5.1%
No	1789	83.5%
TOTAL	2143	100.0%

Table 5.19 Number of All Fatal Opioid Overdoses by Locality of Residence, 2022

Locality of Residence	Deaths	Rate
Accomack County	1	3.0
Albemarle County	19	16.6
Alexandria City	16	10.3
Alleghany County	5	33.7
Amelia County	1	7.4
Amherst County	4	12.7
Appomattox County	4	23.9
Arlington County	15	6.4
Augusta County	7	9.0
Bath County	0	0.0
Bedford County	22	27.2
Bland County	3	48.8
Botetourt County	7	20.5
Bristol City	5	29.5
Brunswick County	8	50.2
Buchanan County	17	87.8
Buckingham County	5	29.4
Buena Vista City	3	45.5
Campbell County	3	5.4
Caroline County	5	15.6
Carroll County	3	10.3
Charles City County	1	15.1
Charlotte County	2	17.4
Charlottesville City	10	22.0
Chesapeake City	58	23.0
Chesterfield County	81	21.4
Clarke County	4	26.2
Colonial Heights City	4	21.9
Covington City	1	17.6
Craig County	2	41.3
Culpeper County	14	25.7
Cumberland County	4	41.0
Danville City	10	23.7
Dickenson County	7	51.0
Dinwiddie County	8	28.4
Emporia City	1	18.2
Essex County	3	28.2
Fairfax City	0	0.0
Fairfax County	82	7.2
Falls Church City	0	0.0
Fauquier County	16	21.4
Floyd County	5	32.0
Fluvanna County	6	21.3

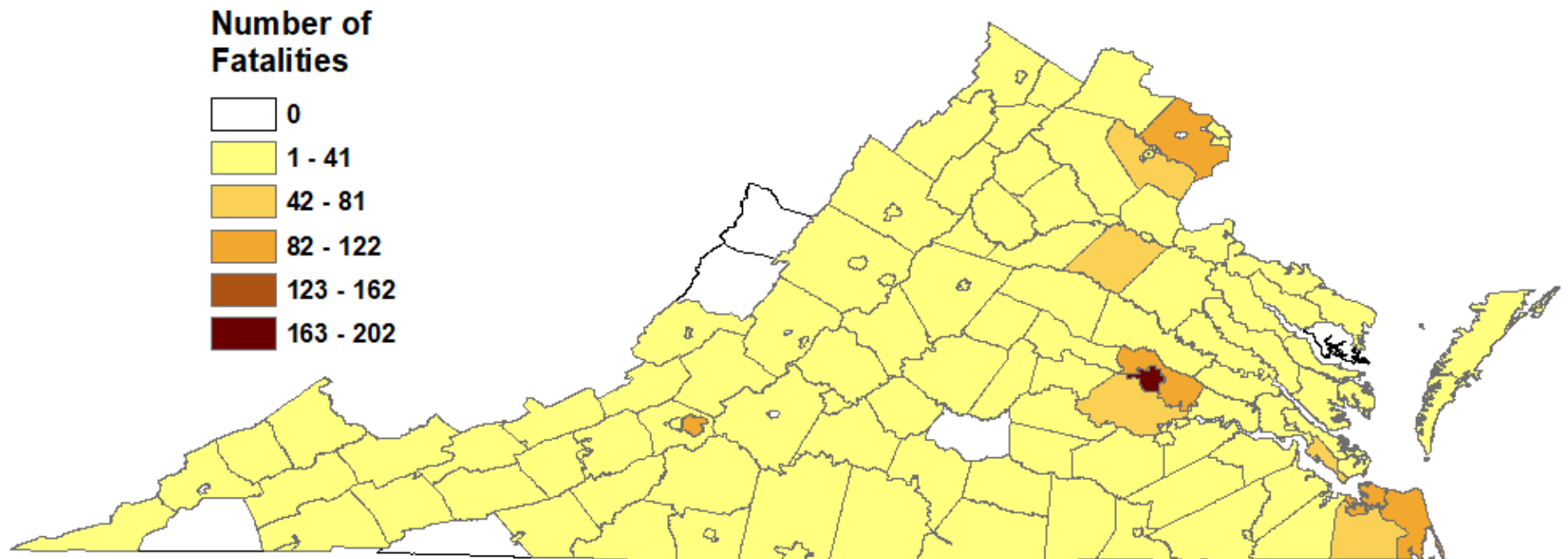
Locality of Residence	Deaths	Rate
Franklin City	2	24.3
Franklin County	14	25.4
Frederick County	14	14.7
Fredericksburg City	13	45.2
Galax City	1	14.9
Giles County	4	24.3
Gloucester County	10	25.3
Goochland County	6	23.0
Grayson County	0	0.0
Greene County	6	28.4
Greensville County	3	26.7
Halifax County	16	47.6
Hampton City	39	28.3
Hanover County	30	26.6
Harrisonburg City	6	11.7
Henrico County	103	30.8
Henry County	31	62.1
Highland County	0	0.0
Hopewell City	19	82.7
Isle of Wight County	13	32.4
James City County	10	12.3
King and Queen County	2	29.8
King George County	7	25.1
King William County	2	10.8
Lancaster County	0	0.0
Lee County	2	9.1
Lexington City	0	0.0
Loudoun County	24	5.6
Louisa County	12	29.9
Lunenburg County	5	41.6
Lynchburg City	23	29.0
Madison County	1	7.1
Manassas City	7	16.4
Manassas Park City	4	23.9
Martinsville City	6	43.7
Mathews County	4	47.1
Mecklenburg County	4	13.1
Middlesex County	1	9.1
Montgomery County	15	15.2
Nelson County	1	6.8
New Kent County	6	24.0
Newport News City	61	33.1
Norfolk City	94	40.3

Locality of Residence	Deaths	Rate
Northampton County	4	33.6
Northumberland County	2	16.3
Norton City	0	0.0
Nottoway County	4	25.7
Orange County	14	36.9
Page County	4	16.8
Patrick County	3	17.0
Petersburg City	25	74.9
Pittsylvania County	13	21.7
Poquoson City	1	7.9
Portsmouth City	83	85.5
Powhatan County	5	15.9
Prince Edward County	0	0.0
Prince George County	10	23.2
Prince William County	62	12.7
Pulaski County	7	20.8
Radford City	5	29.9
Rappahannock County	4	53.3
Richmond City	202	88.1
Richmond County	1	11.0
Roanoke City	92	94.0
Roanoke County	24	24.8
Rockbridge County	2	8.9
Rockingham County	10	11.7
Russell County	3	11.8
Salem City	16	62.7
Scott County	0	0.0

Locality of Residence	Deaths	Rate
Shenandoah County	10	22.2
Smyth County	6	20.4
Southampton County	5	27.9
Spotsylvania County	48	32.7
Stafford County	29	17.8
Staunton City	4	15.4
Suffolk City	28	28.4
Surry County	2	30.6
Sussex County	2	18.7
Tazewell County	12	30.1
Virginia Beach City	98	21.5
Warren County	15	36.2
Washington County	9	16.7
Waynesboro City	8	35.1
Westmoreland County	4	21.4
Williamsburg City	4	25.1
Winchester City	8	28.6
Wise County	7	19.8
Wythe County	3	10.7
York County	9	12.6
Subtotal (in-state)	2000	23.0
Out of State	120	ND
Unknown	23	ND
Subtotal (out-of-state)	143	ND
TOTAL	2143	24.7

Note: No denominator is represented by ND.

Map 5.13 Number of All Fatal Opioid Overdoses by Locality of Residence, 2022



Map 5.14 Rates of All Fatal Opioid Overdoses by Locality of Residence, 2022

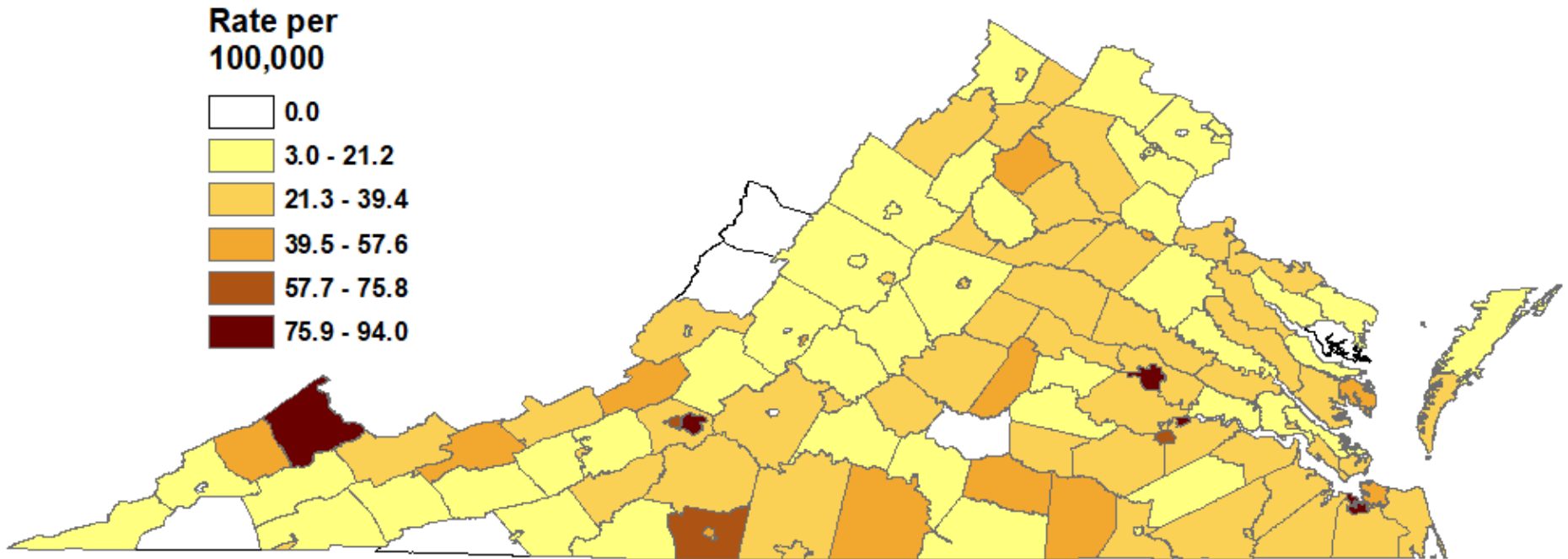


Table 5.20 Number and Rate of All Fatal Opioid Overdoses by Locality of Injury, 2022

Locality of Injury	Deaths	Rate
Accomack County	2	6.0
Albemarle County	20	17.5
Alexandria City	18	11.6
Alleghany County	4	27.0
Amelia County	2	14.9
Amherst County	3	9.5
Appomattox County	4	23.9
Arlington County	18	7.7
Augusta County	9	11.5
Bath County	0	0.0
Bedford County	22	27.2
Bland County	2	32.5
Botetourt County	5	14.6
Bristol City	8	47.1
Brunswick County	9	56.5
Buchanan County	17	87.8
Buckingham County	7	41.2
Buena Vista City	3	45.5
Campbell County	3	5.4
Caroline County	6	18.8
Carroll County	3	10.3
Charles City County	1	15.1
Charlotte County	1	8.7
Charlottesville City	14	30.9
Chesapeake City	60	23.8
Chesterfield County	69	18.2
Clarke County	4	26.2
Colonial Heights City	5	27.3
Covington City	1	17.6
Craig County	3	61.9
Culpeper County	13	23.9
Cumberland County	3	30.8
Danville City	11	26.0
Dickenson County	6	43.7
Dinwiddie County	4	14.2
Emporia City	1	18.2
Essex County	2	18.8
Fairfax City	0	0.0
Fairfax County	88	7.7
Falls Church City	0	0.0
Fauquier County	15	20.1
Floyd County	4	25.6
Fluvanna County	3	10.7

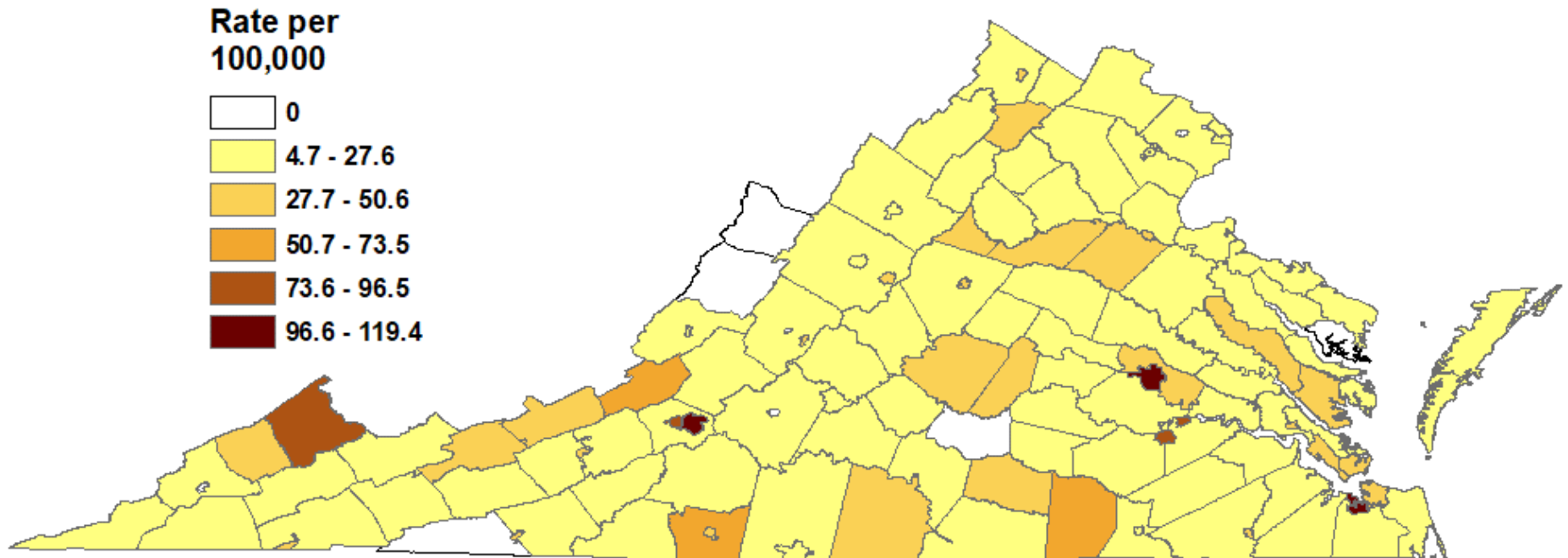
Locality of Injury	Deaths	Rate
Franklin City	4	48.5
Franklin County	14	25.4
Frederick County	15	15.8
Fredericksburg City	13	45.2
Galax City	2	29.7
Giles County	6	36.5
Gloucester County	11	27.9
Goochland County	3	11.5
Grayson County	0	0.0
Greene County	8	37.9
Greensville County	1	8.9
Halifax County	14	41.6
Hampton City	44	31.9
Hanover County	16	14.2
Harrisonburg City	8	15.6
Henrico County	114	34.1
Henry County	35	70.1
Highland County	0	0.0
Hopewell City	20	87.1
Isle of Wight County	10	24.9
James City County	8	9.9
King and Queen County	3	44.7
King George County	5	17.9
King William County	1	5.4
Lancaster County	0	0.0
Lee County	2	9.1
Lexington City	0	0.0
Loudoun County	22	5.1
Louisa County	5	12.5
Lunenburg County	6	49.9
Lynchburg City	20	25.2
Madison County	2	14.3
Manassas City	9	21.1
Manassas Park City	4	23.9
Martinsville City	5	36.4
Mathews County	1	11.8
Mecklenburg County	4	13.1
Middlesex County	1	9.1
Montgomery County	13	13.1
Nelson County	1	6.8
New Kent County	2	8.0
Newport News City	70	38.0
Norfolk City	97	41.6

Locality of Injury	Deaths	Rate
Northampton County	3	25.2
Northumberland County	1	8.1
Norton City	0	0.0
Nottoway County	4	25.7
Orange County	12	31.6
Page County	4	16.8
Patrick County	3	17.0
Petersburg City	32	95.8
Pittsylvania County	12	20.0
Poquoson City	2	15.9
Portsmouth City	95	97.9
Powhatan County	4	12.7
Prince Edward County	0	0.0
Prince George County	8	18.5
Prince William County	73	15.0
Pulaski County	8	23.7
Radford City	6	35.8
Rappahannock County	2	26.7
Richmond City	274	119.4
Richmond County	1	11.0
Roanoke City	105	107.3
Roanoke County	19	19.6
Rockbridge County	3	13.3
Rockingham County	5	5.9
Russell County	4	15.7
Salem City	19	74.4
Scott County	1	4.7

Locality of Injury	Deaths	Rate
Shenandoah County	8	17.8
Smyth County	4	13.6
Southampton County	4	22.3
Spotsylvania County	51	34.8
Stafford County	30	18.4
Staunton City	4	15.4
Suffolk City	26	26.4
Surry County	1	15.3
Sussex County	2	18.7
Tazewell County	9	22.6
Virginia Beach City	97	21.3
Warren County	16	38.6
Washington County	8	14.8
Waynesboro City	8	35.1
Westmoreland County	3	16.0
Williamsburg City	5	31.4
Winchester City	11	39.4
Wise County	9	25.4
Wythe County	4	14.2
York County	7	9.8
<i>Subtotal (in-state)</i>	2099	24.2
Out of State	10	ND
Unknown	34	ND
<i>Subtotal (out-of-state)</i>	44	ND
TOTAL	2143	24.7

Note: No denominator is represented by ND.

Map 5.16 Rates of All Fatal Opioid Overdoses by Locality of Injury, 2022



SECTION 6: GUN-RELATED DEATHS (N=1,328)

Gun-related fatalities continue to be one of the top three methods of unnatural death in Virginia since 2007. Generally, the number of gun-related suicides since 2007 have slowly increased each year, and since 2012, gun-related homicides have increased a bit more rapidly. In 2022, gun-related deaths of all manners increased 5.8% compared to 2021.

- The majority (55.5%) of gun related deaths were due to suicide
- Gun-related homicides increased 10.6% in 2022 compared to 2021
- The Northern OCME region had the lowest number and the lowest rate of gun-related death of all manners (7.1 deaths per 100,000 persons) compared to all other OCME district offices
- Males (86.4%), 25-34 year olds (22.7%), and Whites (53.4%) had the largest number of gun-related deaths; however, males aged 85+ years of age and Black males had the highest rate of gun-related death (64.1 and 58.2 deaths per 100,000 persons, respectively)

Figure 6.1 Number and Rate of Gun-Related Deaths by Year of Death, 2007-2022

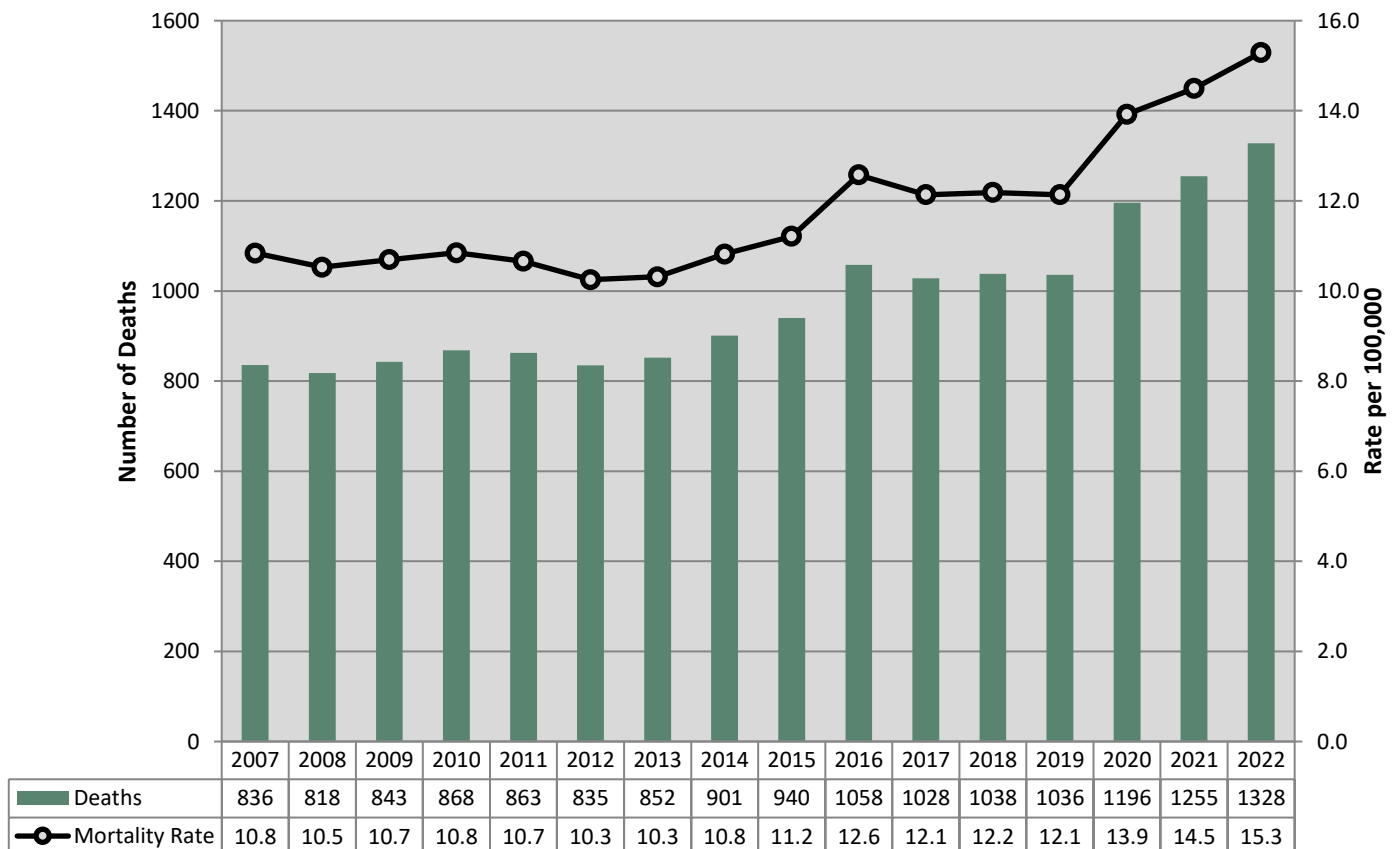
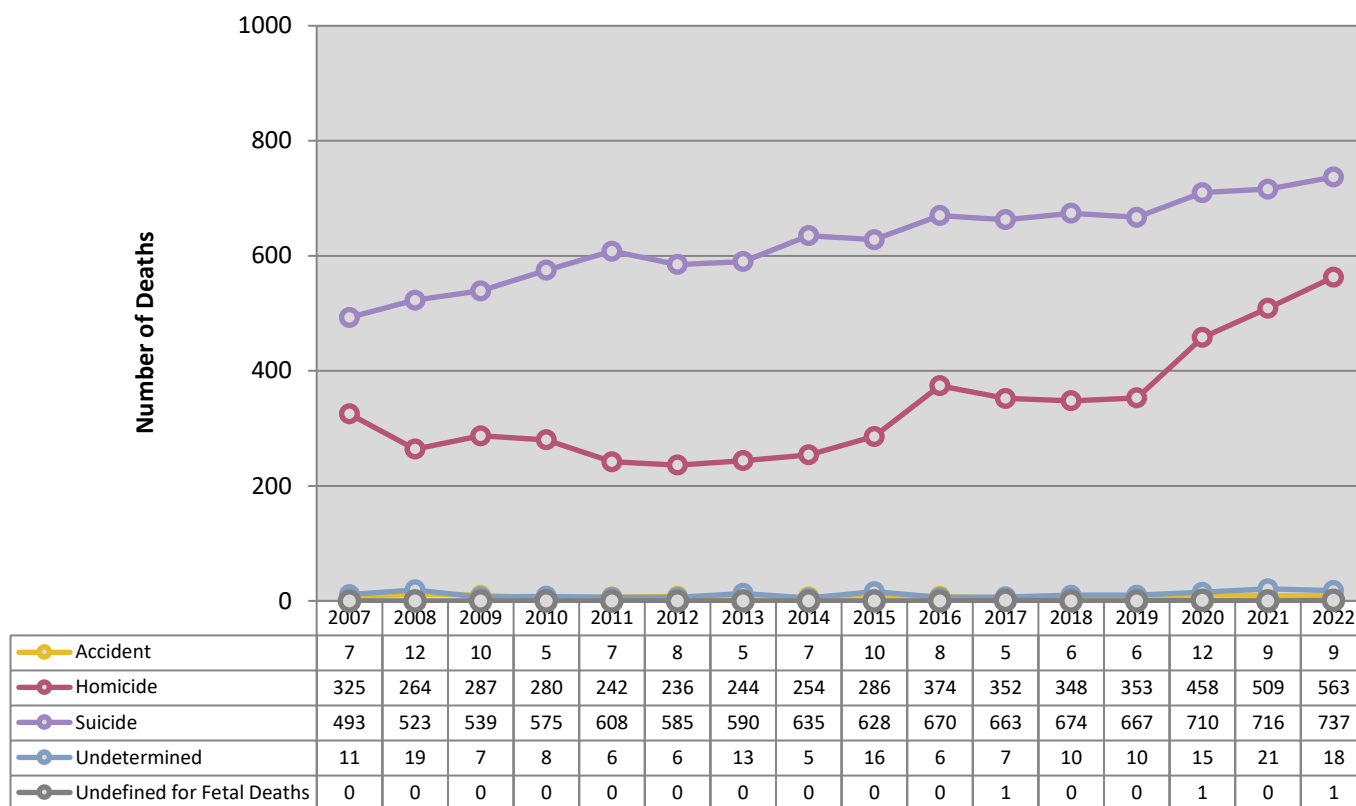
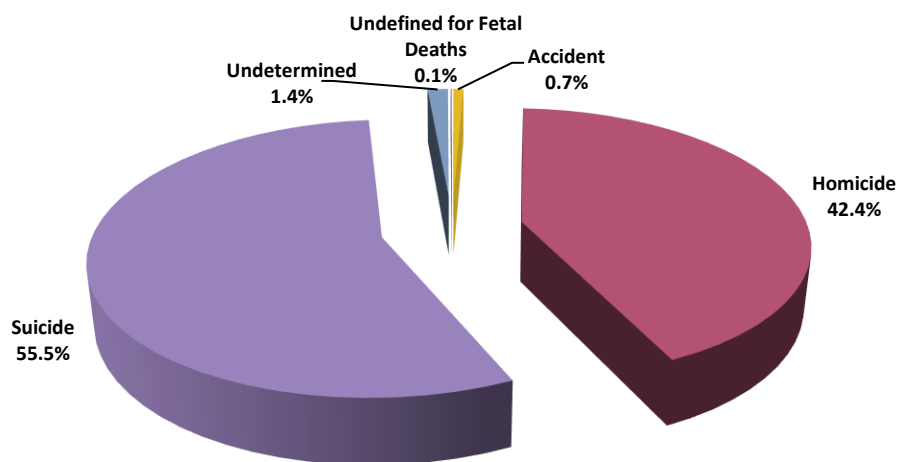


Figure 6.2 Number of Gun-Related Deaths by Year and Manner of Death, 2007-2022



* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Figure 6.3 Percentage of Gun-Related Deaths by Manner of Death, 2022



* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

Table 6.1 Number and Rate of Gun-Related Deaths by OCME District and Manner of Death, 2022

Manner of Death	Central		Northern		Tidewater		Western		TOTAL	
	n	rate	n	rate	n	rate	n	rate	n	rate
Accident	0	0.0	2	0.1	2	0.1	5	0.4	9	0.1
Homicide	189	8.9	62	1.8	220	12.2	92	6.8	563	6.5
Suicide	209	9.9	175	5.1	182	10.1	171	12.6	737	8.5
Undetermined	5	0.2	2	0.1	5	0.3	6	0.4	18	0.2
Undefined for Fetal Deaths	0	ND	0	ND	0	ND	1	ND	1	ND
TOTAL	403	19.0	241	7.1	409	22.7	275	20.3	1328	15.3

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

** 'ND' represents no denominator for which to calculate rate

Table 6.2 Number of Gun-Related Deaths by Gun Type and Manner of Death, 2022

Manner of Death	Air Rifle	Handgun	Multiple**	Other	Rifle	Shotgun	Unknown	Total
Accident	0	6	0	0	1	1	1	9
Homicide	1	309	16	0	18	12	207	563
Suicide	0	623	1	2	32	62	17	737
Undetermined	0	13	1	0	1	1	2	18
Undefined for Fetal Deaths	0	1	0	0	0	0	0	1
Total	1	952	18	2	52	76	227	1328

* Fetal deaths are omitted from manner of death classifications. This is because fetal deaths are not given a certification of live birth in Virginia and thus, do not receive a death certificate. In 2022, the OCME accepted twelve fetal deaths under OCME jurisdiction of the 3,280 total fetal deaths reported to Vital Records

** 'Multiple' indicates the decedent died of more than one gun; either more than one gun type (e.g. a handgun and a shotgun) or same gun type but multiple weapons (e.g. two handguns)

Figure 6.4 Percentage of Gun-Related Deaths by Gender, 2022

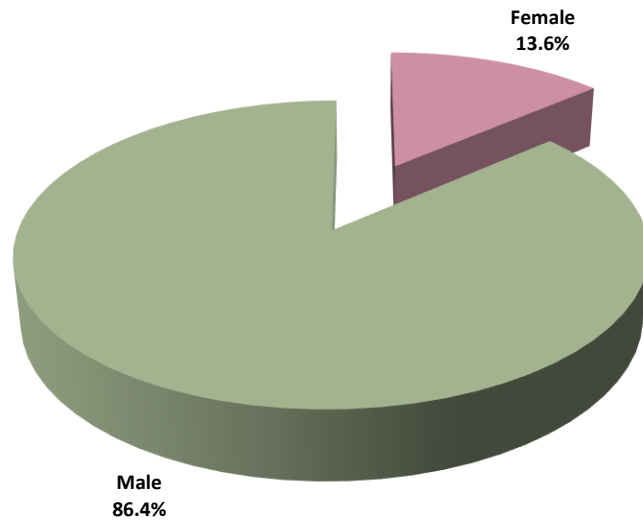
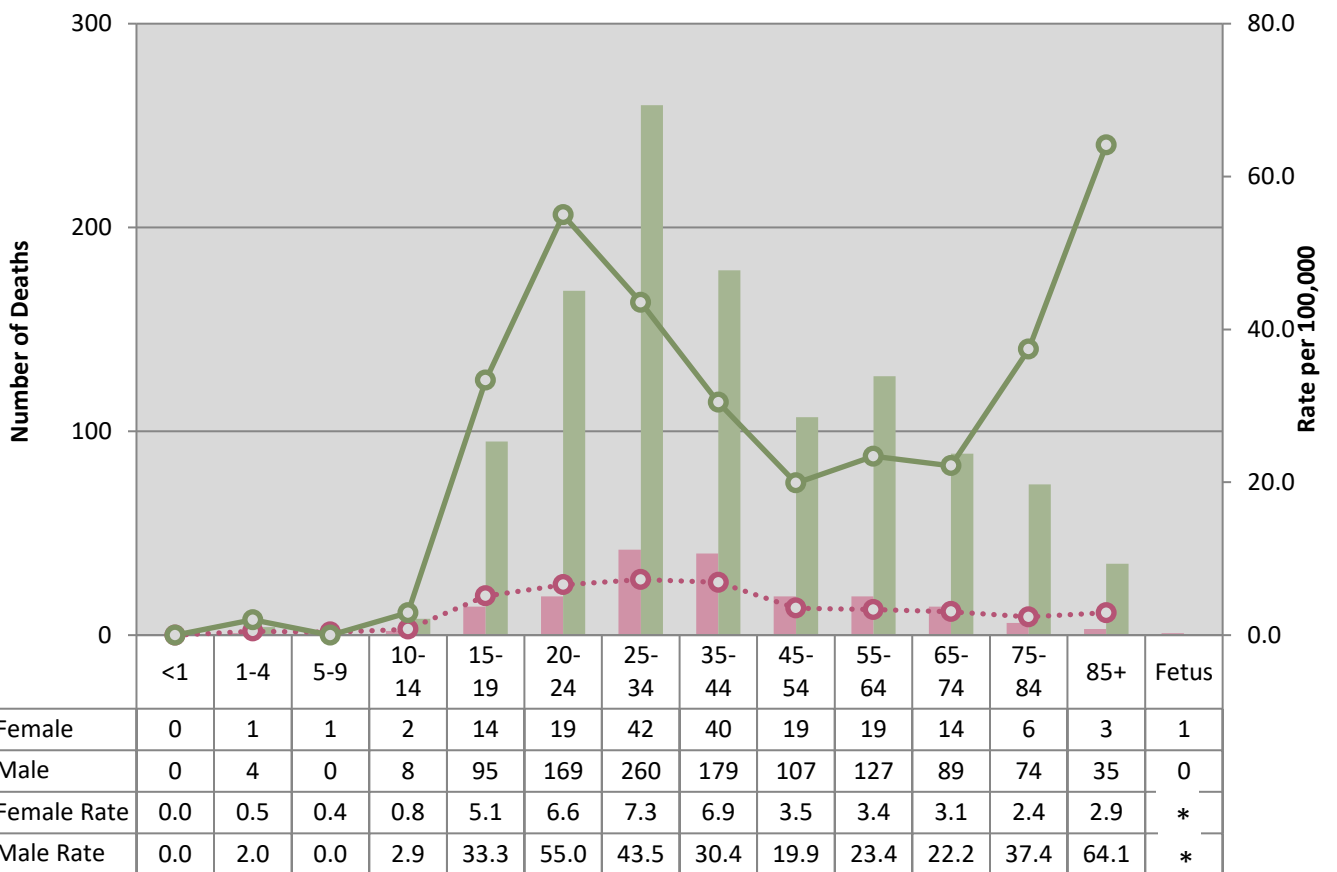


Figure 6.5 Number and Rate of Gun-Related Deaths by Age Group and Gender, 2022



* No rate can be calculated

Figure 6.6 Percentage of Gun-Related Deaths by Race/Ethnicity, 2022

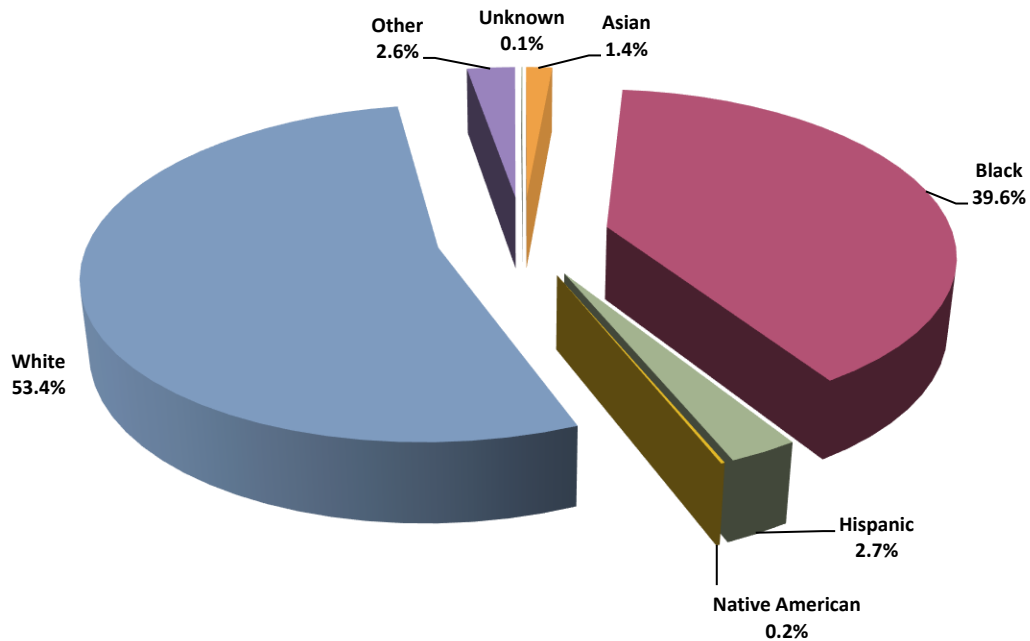
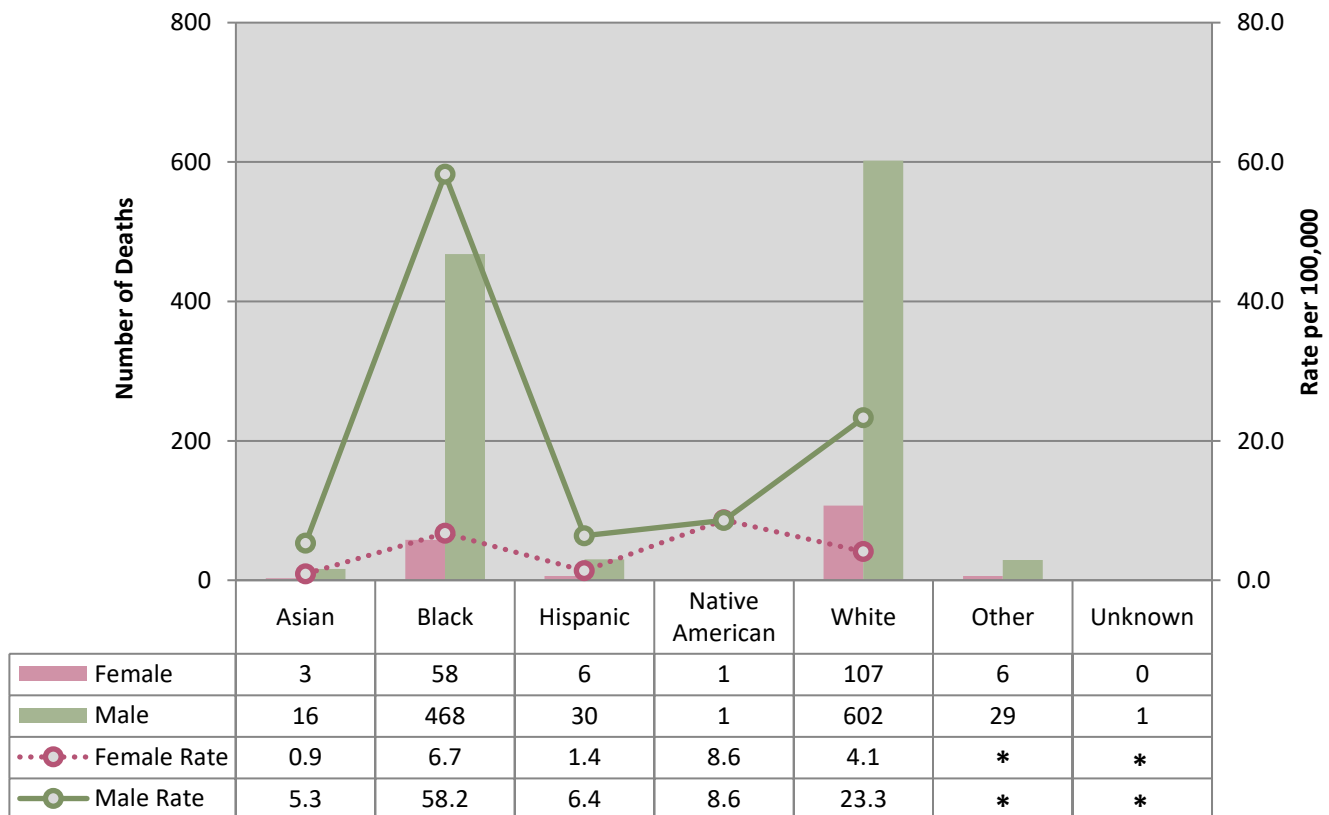


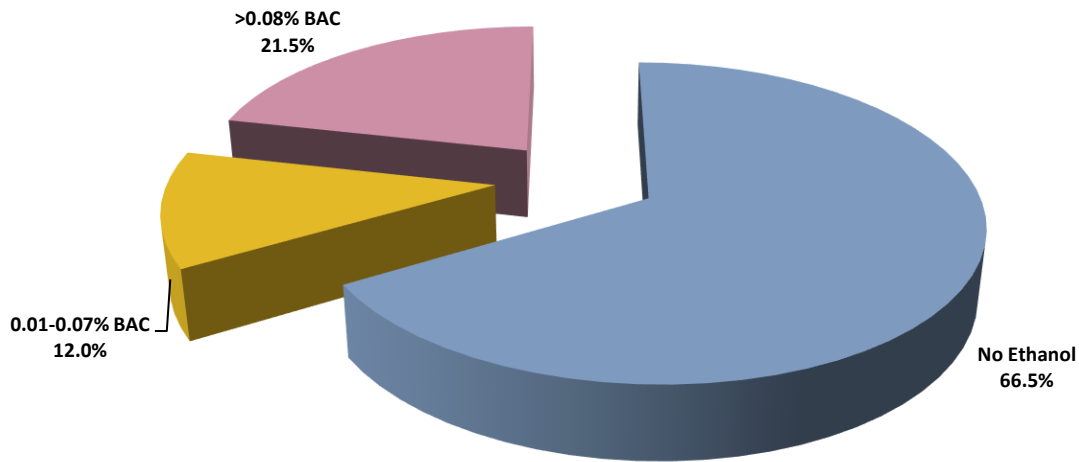
Figure 6.7 Number and Rate of Gun-Related Deaths by Race/Ethnicity and Gender, 2022



*No rate can be calculated

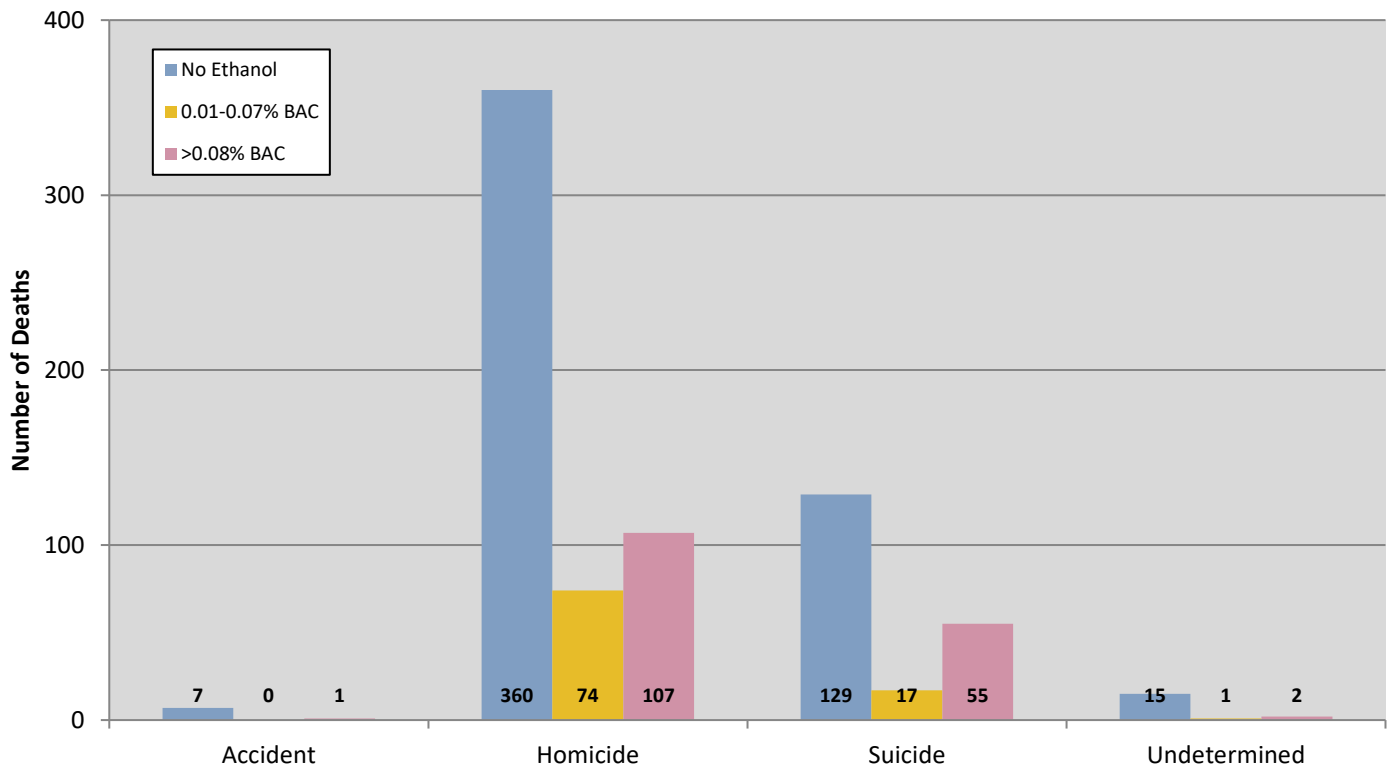
Note: Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asian females and Native Americans)

Figure 6.8 Percentage of Gun-Related Deaths by Ethanol Level (N=768), 2022



Note: Of the 1,328 gun related fatalities, 42.2% (n=560) did not receive alcohol testing

Figure 6.9 Number of Gun-Related Deaths by Alcohol Level and Manner of Death (N=768), 2022



Note: Of the 1,328 gun related fatalities, 42.2% (n=560) did not receive alcohol testing

Figure 6.10 Number of Gun-Related Deaths by Month of Death, 2022

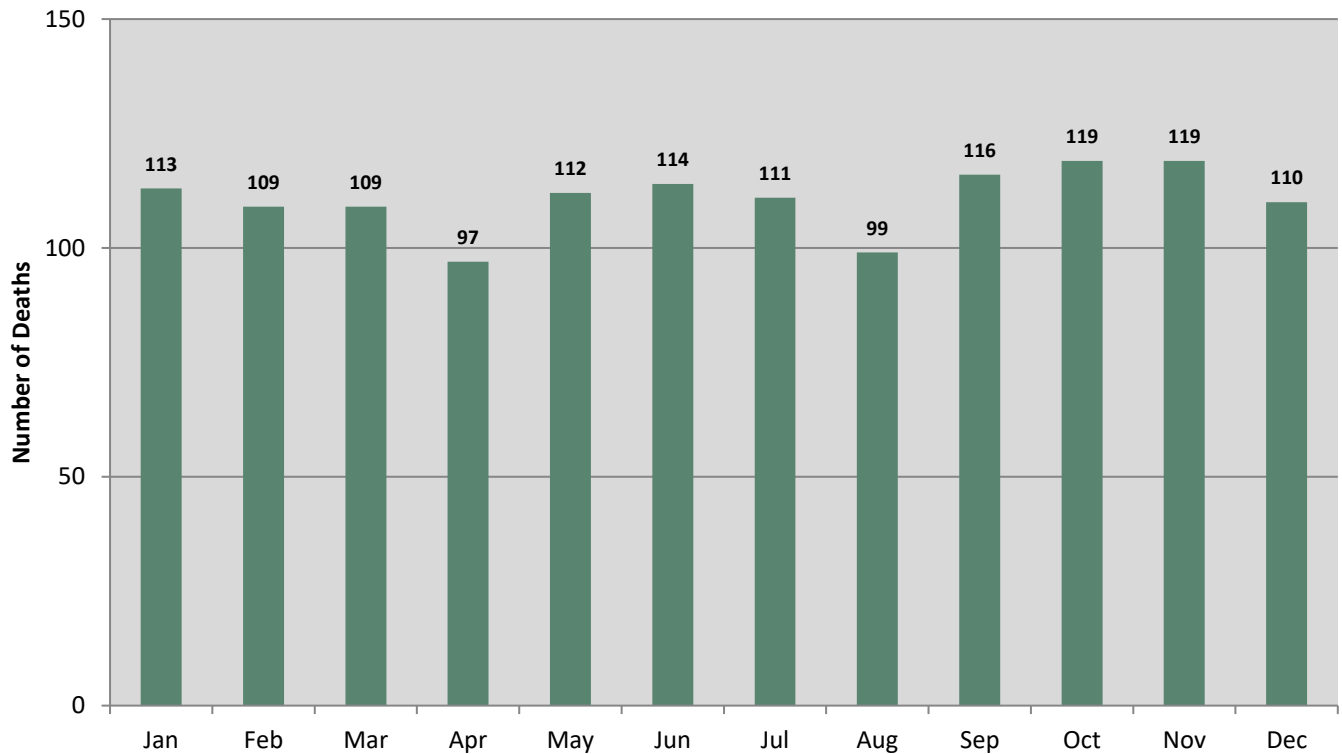


Figure 6.11 Number of Gun-Related Deaths by Day of Week, 2022

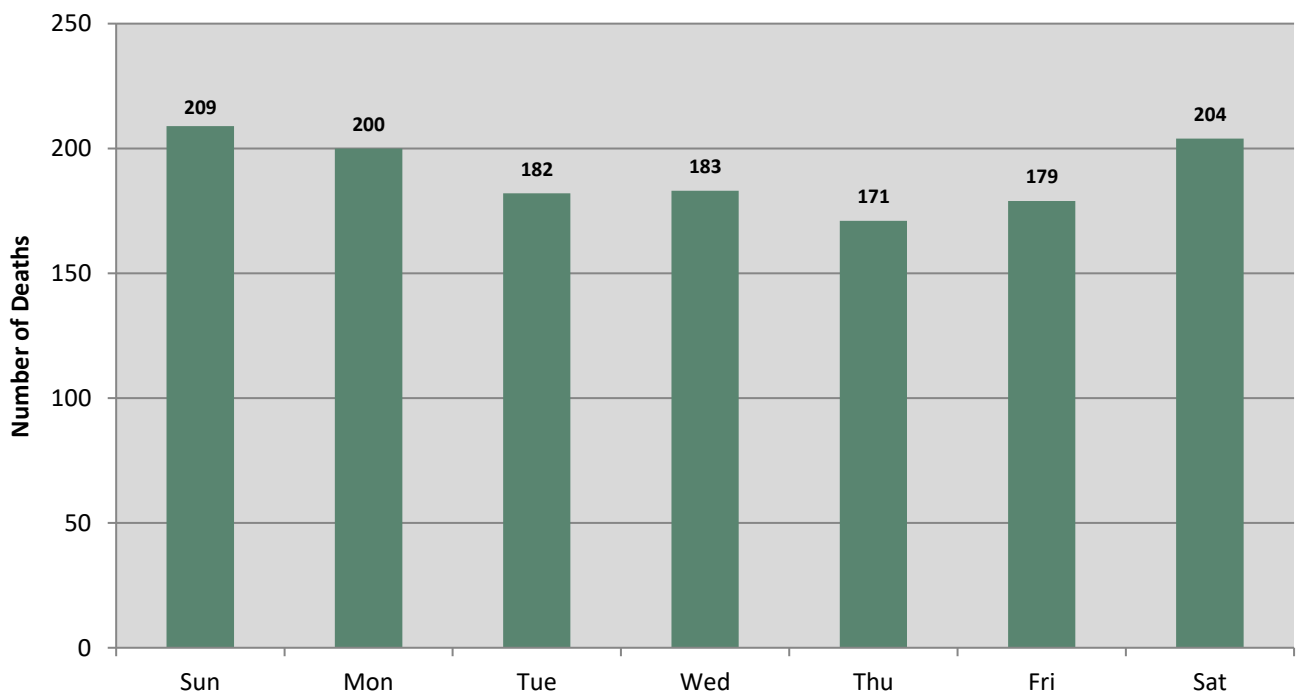


Table 6.3 Number and Rate of Gun-Related Deaths by Locality of Residence, 2022

Locality of Residence	Deaths	Rate
Accomack County	8	24.1
Albemarle County	11	9.6
Alexandria City	12	7.7
Alleghany County	7	47.2
Amelia County	3	22.3
Amherst County	6	19.0
Appomattox County	3	17.9
Arlington County	8	3.4
Augusta County	15	19.2
Bath County	1	24.7
Bedford County	17	21.0
Bland County	1	16.3
Botetourt County	6	17.6
Bristol City	3	17.7
Brunswick County	5	31.4
Buchanan County	3	15.5
Buckingham County	0	0.0
Buena Vista City	1	15.2
Campbell County	7	12.7
Caroline County	6	18.8
Carroll County	8	27.4
Charles City County	0	0.0
Charlotte County	2	17.4
Charlottesville City	4	8.8
Chesapeake City	49	19.4
Chesterfield County	52	13.7
Clarke County	1	6.6
Colonial Heights City	1	5.5
Covington City	1	17.6
Craig County	0	0.0
Culpeper County	10	18.4
Cumberland County	2	20.5
Danville City	15	35.5
Dickenson County	4	29.1
Dinwiddie County	13	46.2
Emporia City	3	54.7
Essex County	3	28.2
Fairfax City	2	8.1
Fairfax County	58	5.1
Falls Church City	1	6.9
Fauquier County	12	16.1

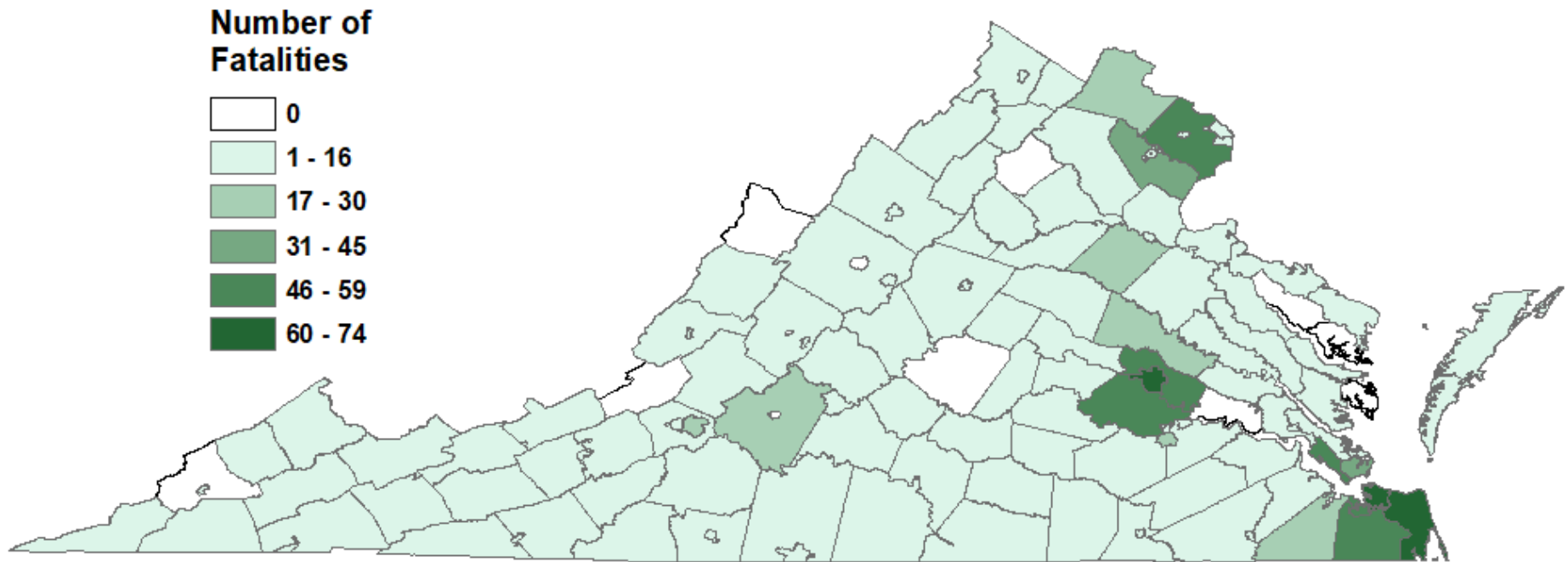
Locality of Residence	Deaths	Rate
Floyd County	7	44.8
Fluvanna County	1	3.6
Franklin City	1	12.1
Franklin County	9	16.3
Frederick County	6	6.3
Fredericksburg City	3	10.4
Galax City	2	29.7
Giles County	3	18.2
Gloucester County	4	10.1
Goochland County	5	19.2
Grayson County	1	6.5
Greene County	3	14.2
Greensville County	2	17.8
Halifax County	10	29.7
Hampton City	31	22.5
Hanover County	17	15.1
Harrisonburg City	4	7.8
Henrico County	57	17.1
Henry County	13	26.0
Highland County	0	0.0
Hopewell City	7	30.5
Isle of Wight County	3	7.5
James City County	6	7.4
King and Queen County	1	14.9
King George County	5	17.9
King William County	4	21.6
Lancaster County	0	0.0
Lee County	5	22.7
Lexington City	0	0.0
Loudoun County	19	4.4
Louisa County	10	24.9
Lunenburg County	3	24.9
Lynchburg City	9	11.4
Madison County	3	21.4
Manassas City	1	2.3
Manassas Park City	1	6.0
Martinsville City	3	21.9
Mathews County	0	0.0
Mecklenburg County	4	13.1
Middlesex County	3	27.4
Montgomery County	7	7.1

Locality of Residence	Deaths	Rate
Nelson County	3	20.5
New Kent County	1	4.0
Newport News City	50	27.1
Norfolk City	74	31.8
Northampton County	1	8.4
Northumberland County	4	32.5
Norton City	3	83.1
Nottoway County	3	19.3
Orange County	7	18.4
Page County	7	29.5
Patrick County	2	11.3
Petersburg City	20	59.9
Pittsylvania County	13	21.7
Poquoson City	1	7.9
Portsmouth City	55	56.7
Powhatan County	8	25.4
Prince Edward County	6	27.4
Prince George County	4	9.3
Prince William County	31	6.4
Pulaski County	3	8.9
Radford City	2	11.9
Rappahannock County	0	0.0
Richmond City	63	27.5
Richmond County	0	0.0
Roanoke City	28	28.6
Roanoke County	13	13.4
Rockbridge County	6	26.6
Rockingham County	10	11.7
Russell County	4	15.7
Salem City	2	7.8
Scott County	6	27.9
Shenandoah County	7	15.6
Smyth County	3	10.2
Southampton County	5	27.9
Spotsylvania County	19	13.0
Stafford County	14	8.6
Staunton City	0	0.0
Suffolk City	26	26.4
Surry County	3	46.0
Sussex County	2	18.7
Tazewell County	10	25.1
Virginia Beach City	70	15.4
Warren County	7	16.9

Locality of Residence	Deaths	Rate
Washington County	6	11.1
Waynesboro City	2	8.8
Westmoreland County	1	5.3
Williamsburg City	1	6.3
Winchester City	4	14.3
Wise County	0	0.0
Wythe County	7	24.9
York County	8	11.2
<i>Subtotal (in-state)</i>	1262	14.5
Out of State	62	ND
Unknown	4	ND
<i>Subtotal (out-of-state)</i>	66	ND
TOTAL	1328	15.3

Note: No denominator is represented by ND

Map 6.1 Number of Gun-Related Deaths by Locality of Residence, 2022



Map 6.2 Rates of Gun-Related Death by Locality of Residence, 2022

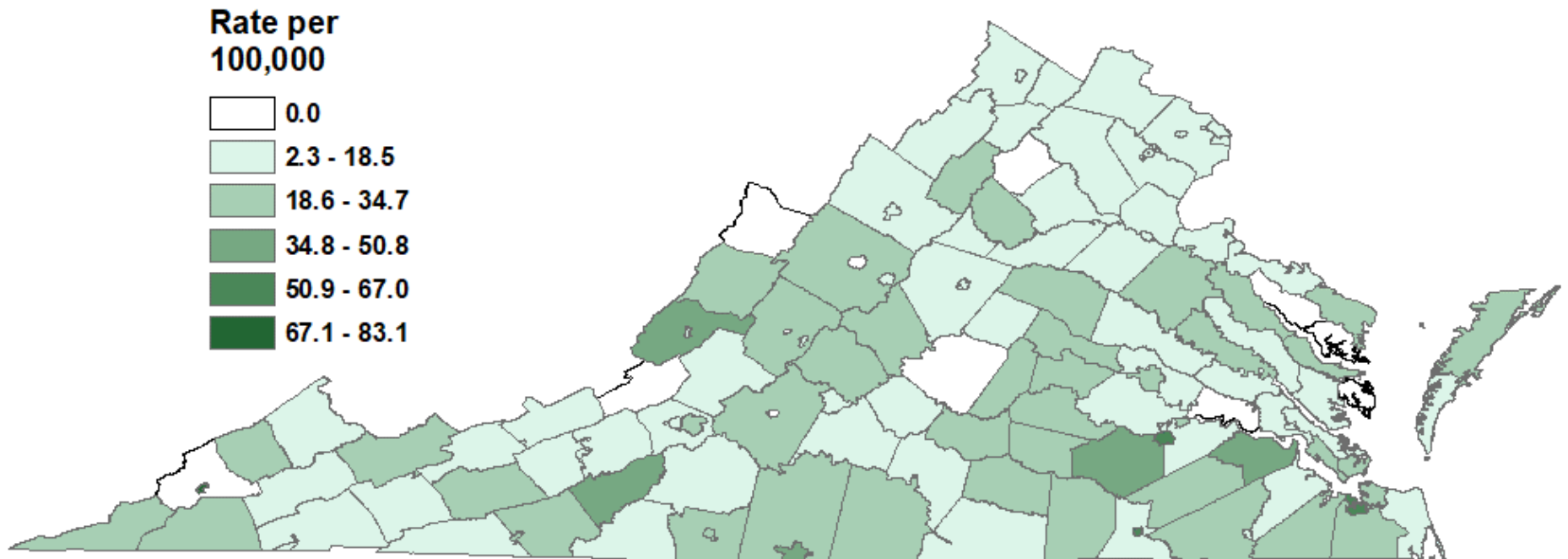


Table 6.4 Number and Rate of Gun-Related Deaths by Locality of Injury, 2022

Locality of Injury	Deaths	Rate
Accomack County	6	18.1
Albemarle County	14	12.2
Alexandria City	13	8.4
Alleghany County	4	27.0
Amelia County	3	22.3
Amherst County	8	25.3
Appomattox County	2	11.9
Arlington County	11	4.7
Augusta County	12	15.4
Bath County	1	24.7
Bedford County	15	18.6
Bland County	1	16.3
Botetourt County	8	23.4
Bristol City	6	35.3
Brunswick County	4	25.1
Buchanan County	3	15.5
Buckingham County	1	5.9
Buena Vista City	1	15.2
Campbell County	7	12.7
Caroline County	8	25.0
Carroll County	8	27.4
Charles City County	1	15.1
Charlotte County	1	8.7
Charlottesville City	8	17.6
Chesapeake City	42	16.6
Chesterfield County	49	12.9
Clarke County	1	6.6
Colonial Heights City	2	10.9
Covington City	4	70.4
Craig County	1	20.6
Culpeper County	9	16.5
Cumberland County	2	20.5
Danville City	12	28.4
Dickenson County	2	14.6
Dinwiddie County	9	32.0
Emporia City	3	54.7
Essex County	3	28.2
Fairfax City	4	16.1
Fairfax County	66	5.8
Falls Church City	1	6.9
Fauquier County	13	17.4
Floyd County	6	38.4
Fluvanna County	0	0.0

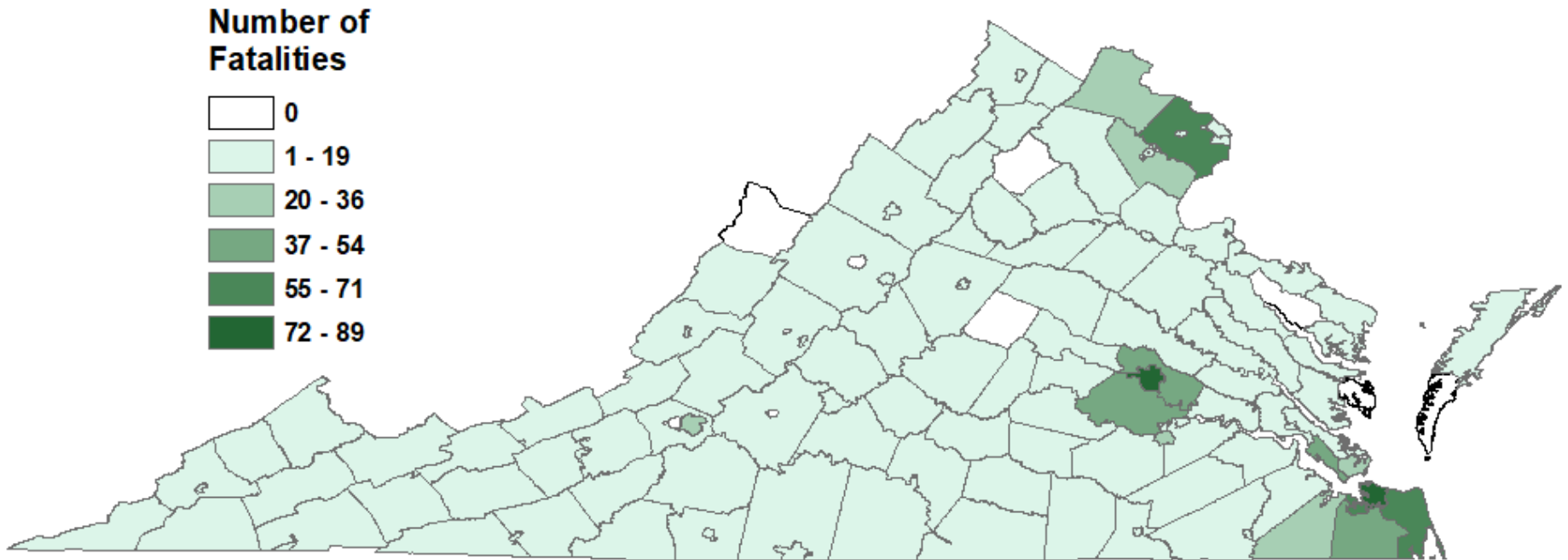
Locality of Injury	Deaths	Rate
Franklin City	3	36.4
Franklin County	9	16.3
Frederick County	6	6.3
Fredericksburg City	4	13.9
Galax City	1	14.9
Giles County	4	24.3
Gloucester County	5	12.7
Goochland County	6	23.0
Grayson County	2	13.0
Greene County	2	9.5
Greensville County	2	17.8
Halifax County	8	23.8
Hampton City	34	24.6
Hanover County	15	13.3
Harrisonburg City	5	9.8
Henrico County	53	15.9
Henry County	14	28.1
Highland County	0	0.0
Hopewell City	10	43.6
Isle of Wight County	3	7.5
James City County	5	6.2
King and Queen County	1	14.9
King George County	5	17.9
King William County	4	21.6
Lancaster County	1	9.3
Lee County	6	27.3
Lexington City	0	0.0
Loudoun County	20	4.6
Louisa County	9	22.4
Lunenburg County	3	24.9
Lynchburg City	10	12.6
Madison County	3	21.4
Manassas City	2	4.7
Manassas Park City	0	0.0
Martinsville City	2	14.6
Mathews County	0	0.0
Mecklenburg County	11	36.1
Middlesex County	2	18.3
Montgomery County	6	6.1
Nelson County	3	20.5
New Kent County	2	8.0
Newport News City	46	25.0
Norfolk City	89	38.2

Locality of Injury	Deaths	Rate
Northampton County	0	0.0
Northumberland County	4	32.5
Norton City	3	83.1
Nottoway County	2	12.9
Orange County	5	13.2
Page County	7	29.5
Patrick County	2	11.3
Petersburg City	27	80.9
Pittsylvania County	16	26.7
Poquoson City	1	7.9
Portsmouth City	56	57.7
Powhatan County	8	25.4
Prince Edward County	4	18.2
Prince George County	7	16.2
Prince William County	29	6.0
Pulaski County	5	14.8
Radford City	1	6.0
Rappahannock County	0	0.0
Richmond City	75	32.7
Richmond County	0	0.0
Roanoke City	27	27.6
Roanoke County	13	13.4
Rockbridge County	6	26.6
Rockingham County	12	14.1
Russell County	4	15.7
Salem City	0	0.0
Scott County	6	27.9
Shenandoah County	6	13.3
Smyth County	3	10.2
Southampton County	5	27.9
Spotsylvania County	17	11.6
Stafford County	17	10.4
Staunton City	0	0.0
Suffolk City	25	25.4
Surry County	1	15.3
Sussex County	2	18.7
Tazewell County	10	25.1
Virginia Beach City	61	13.4
Warren County	7	16.9
Washington County	7	13.0
Waynesboro City	3	13.2
Westmoreland County	1	5.3
Williamsburg City	1	6.3

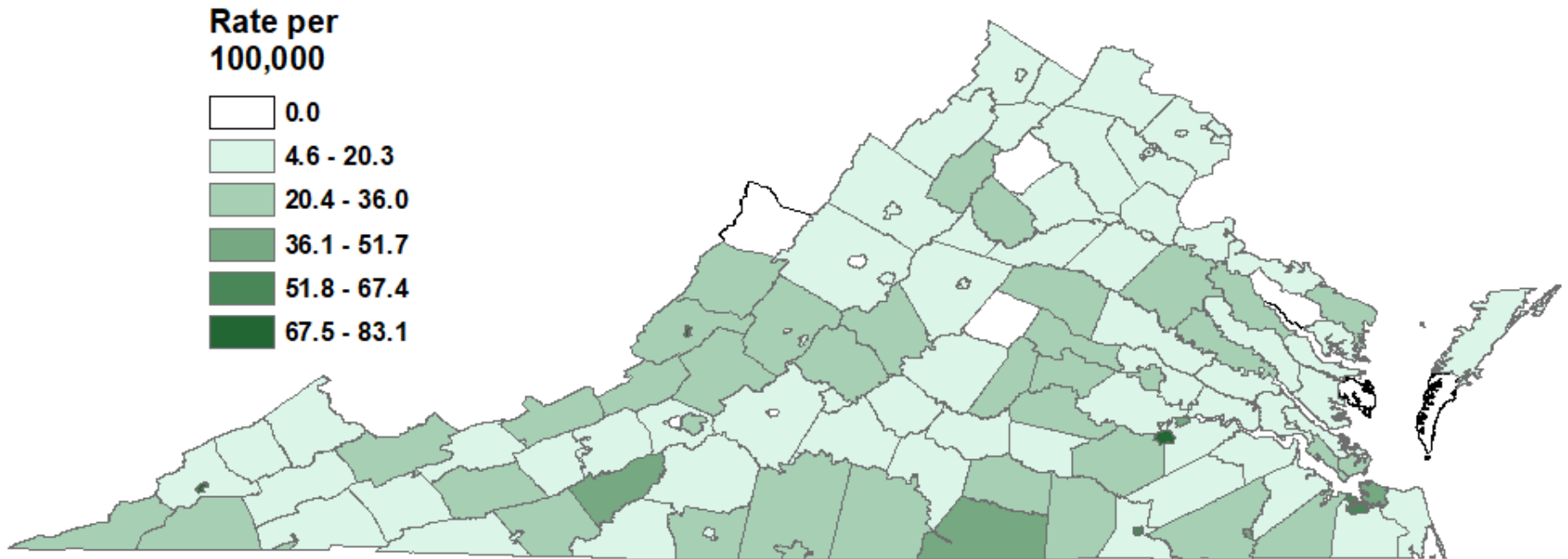
Locality of Injury	Deaths	Rate
Winchester City	2	7.2
Wise County	3	8.5
Wythe County	8	28.5
York County	9	12.6
<i>Subtotal (in-state)</i>	1299	15.0
Out of State	12	ND
Unknown	17	ND
<i>Subtotal (out-of-state)</i>	29	ND
TOTAL	1328	15.3

Note: No denominator is represented by ND

Map 6.3 Number of Gun-Related Deaths by Locality of Injury, 2022



Map 6.4 Rate of Gun-Related Deaths by Locality of Injury, 2022

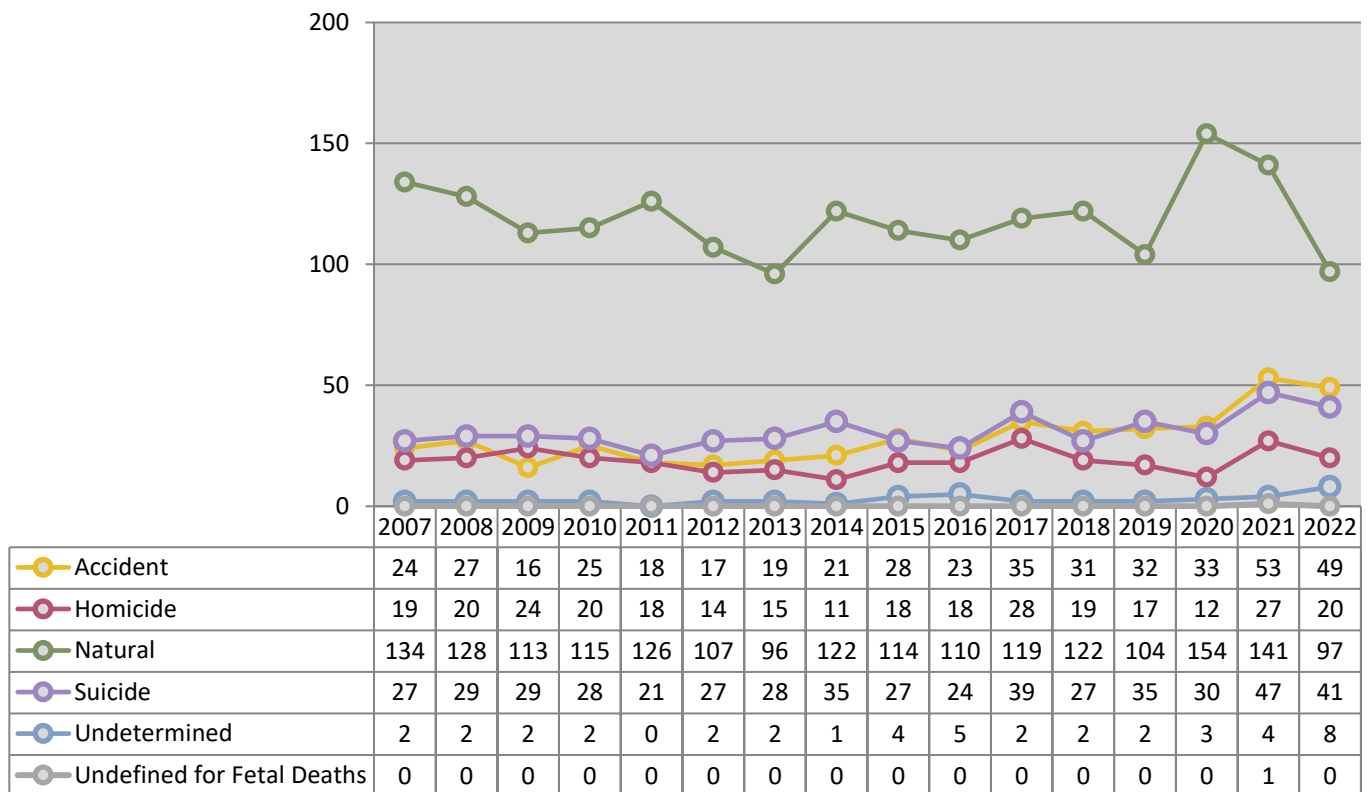


SECTION 7: IN-CUSTODY (PRISONER) DEATHS (N=215)

Pursuant to § 32.1-283 of the Code of Virginia, the OCME investigates deaths of all persons in jail, prison, or other correctional institution, or in police custody*. The OCME took jurisdiction of 215 in-custody deaths in 2022.

- The majority (45.1%) of in-custody deaths were natural deaths
- The majority of deaths were male (91.2%) and White (59.1%)

Figure 7.1 Number of In-Custody Deaths by Manner and Year of Death, 2007-2022



* Please note that previous annual reports recorded fewer annual totals of in-custody deaths. Parameters for extraction of this data have been updated and were reflected in this version of the annual report.

Figure 7.2 Percentage of In-Custody Deaths by Manner of Death, 2022

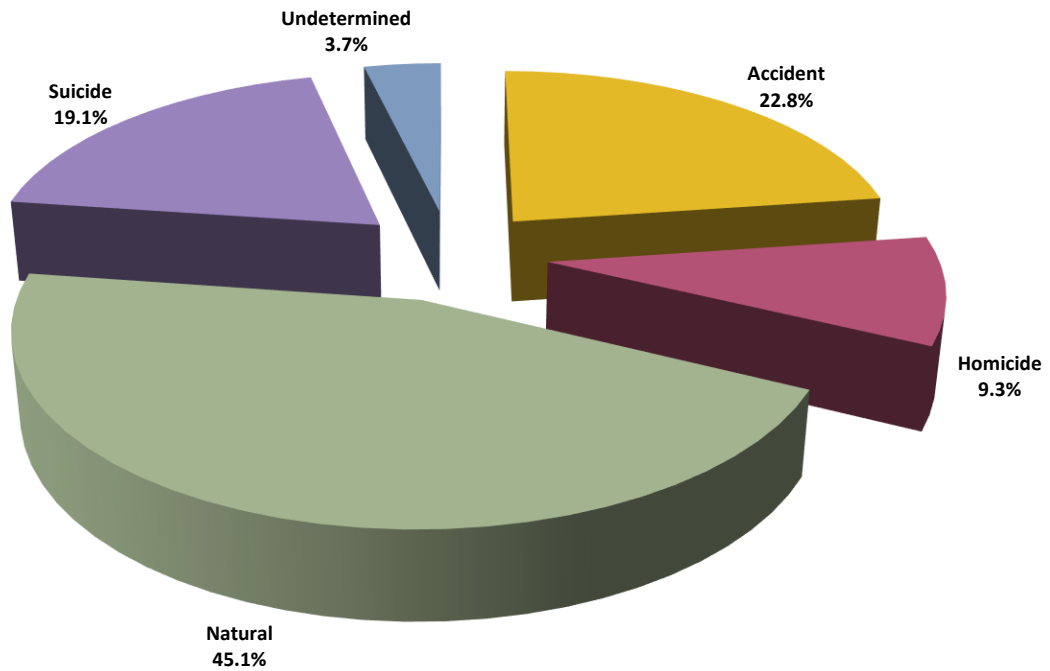


Figure 7.3 Percentage of In-Custody Deaths by Race/Ethnicity, 2022

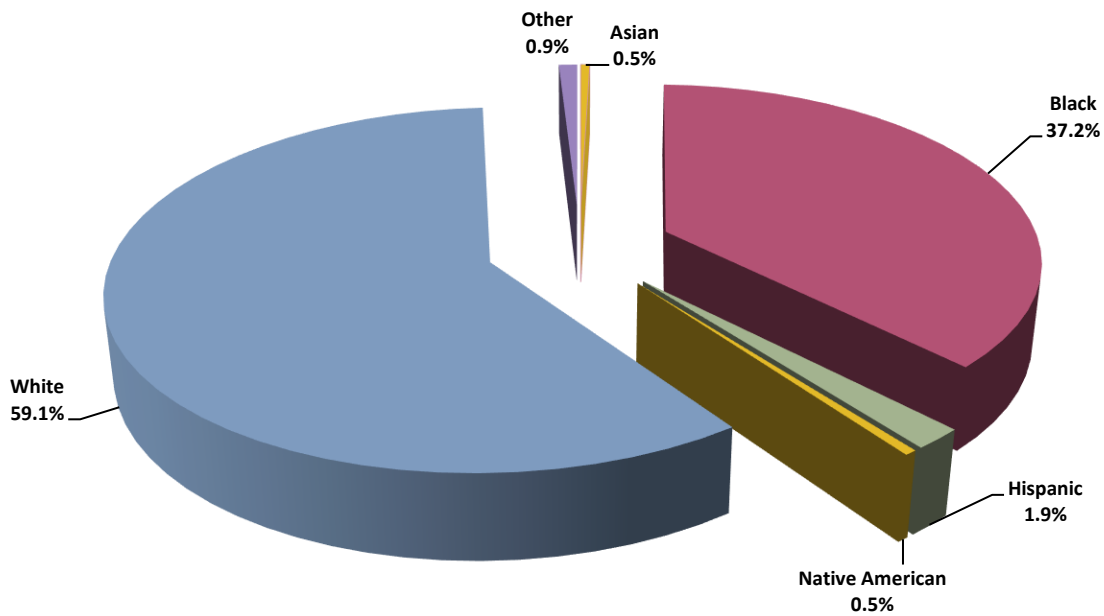


Figure 7.4 Number of In-Custody Deaths by Age Group and Gender, 2022

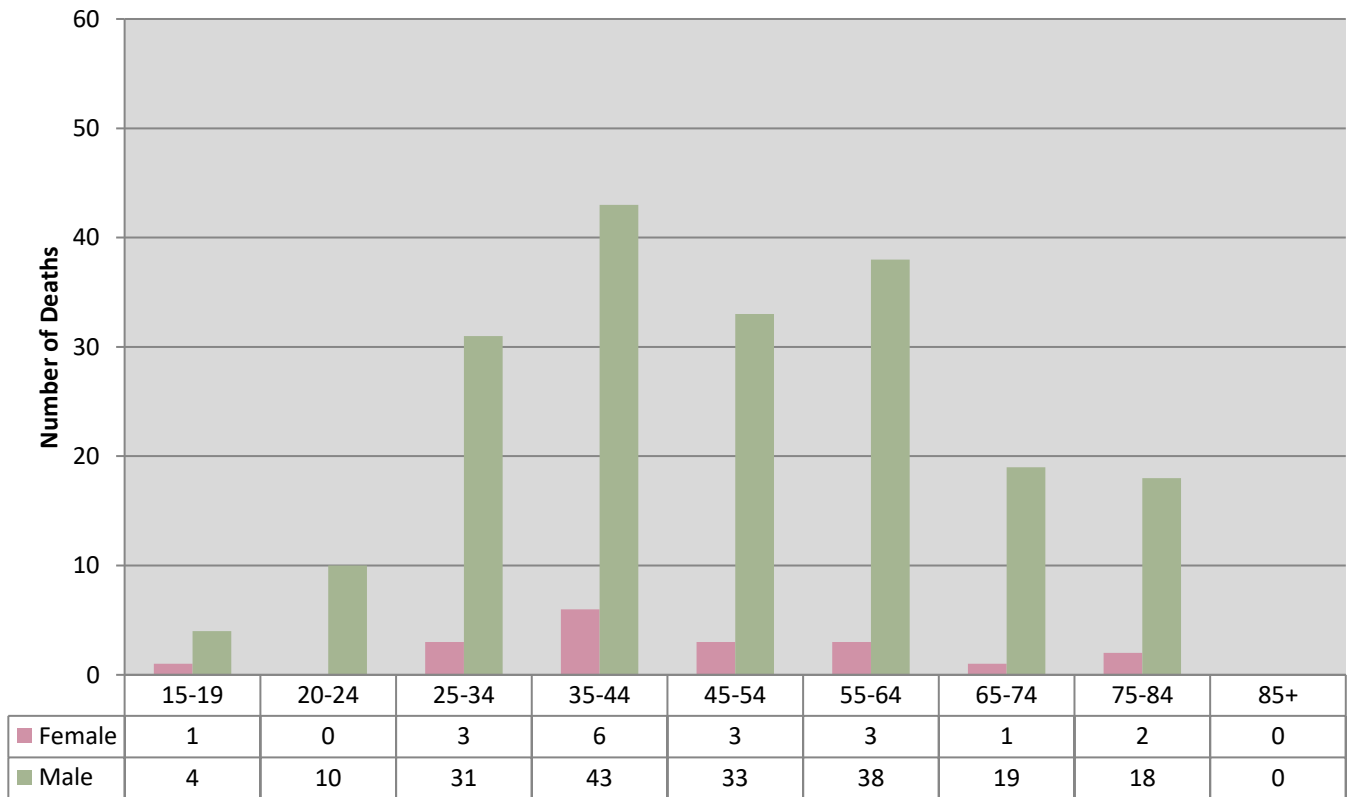


Figure 7.5 Number of In-Custody Deaths by Manner and Race/Ethnicity, 2022

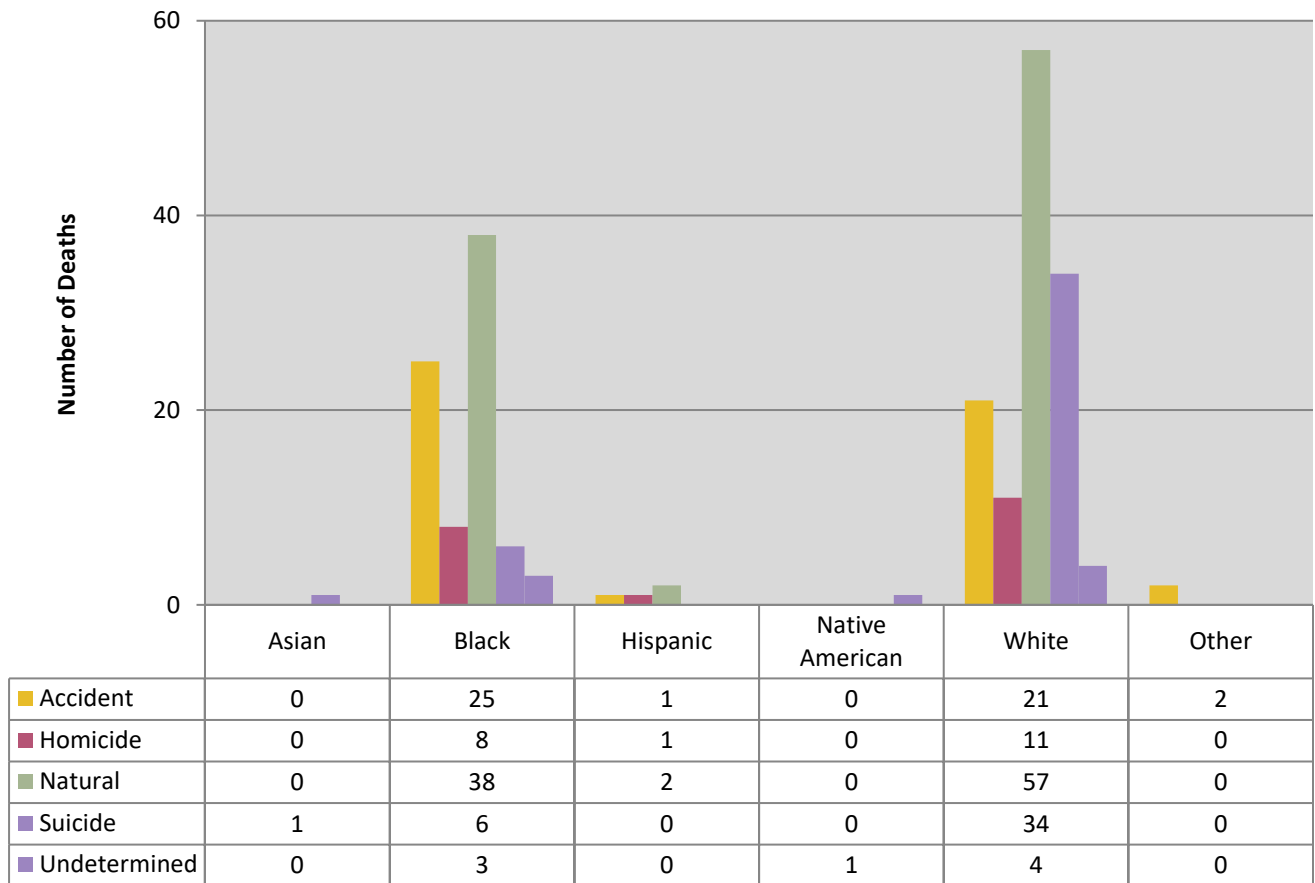


Table 7.1 Number of In-Custody Deaths by Cause and Method of Death, 2022

NATURAL DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	3	7
Hypertension	6	6
Atherosclerosis and Hypertension	9	11
Cardiac Arrhythmia (not otherwise specified)	1	1
Cardiomyopathy (not otherwise specified)	0	1
Other Cardiac Disease/Disorder	1	2
Central Nervous System Diseases/Disorders		
Vascular Disease	1	6
Degenerative Disease	1	2
CNS Malignancy	1	1
Other CNS Disease/Disorder	1	2
Gastrointestinal Diseases/Disorders		
GI Hemorrhage	1	3
Cirrhosis	2	2
GI Malignancy	3	8
Other GI Disease/Disorder	1	2
Genitourinal Diseases/Disorders		
Genitourinal Malignancy	4	6
Pulmonary Disease/Disorders		
COPD	0	2
Emboli	4	4
Pneumonia	3	9
Pulmonary Malignancy	2	4
Other Pulmonary Disease/Disorder	1	1
Systemic Diseases/Disorders		
Diabetes	0	5
Sepsis	1	1
Other Infectious Disease	0	4
Metastatic Malignancy of Unknown Primary	1	1
Chronic Alcoholism	2	2
Other Natural Death/Disorder		
Other Malignancy	0	2
Other Natural Death/Disease	3	3
<i>Natural Death Subtotal</i>	52	98
UNNATURAL DEATHS	Autopsied	Total Cases
Asphyxia		
Choking (food or foreign object)	1	1
Hanging	21	23
Strangulation/Neck Compression	1	1
Other Asphyxia	0	1
Drug Use		

Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	31	33
Motor Vehicle		
Car	9	9
Motorcycle	2	2
Pickup Truck	2	2
Van	1	1
Unknown	2	2
Gunshot Wound		
Handgun	24	24
Multiple	5	5
Rifle	2	2
Shotgun	2	2
Unknown	2	2
Traumatic Injury		
Beat by assailant(s)	2	2
Fall/jump from height	3	3
Other Unnatural		
Other unnatural	2	2
<i>Unnatural Death Subtotal</i>	112	117
TOTAL OCME DEATHS	164	215

SECTION 8: STATE MENTAL HEALTH DEATHS (N=41)

Pursuant to § 32.1-283 of the Code of Virginia, the OCME investigates the death of any patient or resident of a state mental health facility. The OCME took jurisdiction of 41 state mental health resident deaths in 2022.

- The majority of state mental health deaths were natural (95.1%), White (75.6%) and male (73.2%)

Figure 8.1 Percentage of State Mental Health Deaths by Manner, 2022

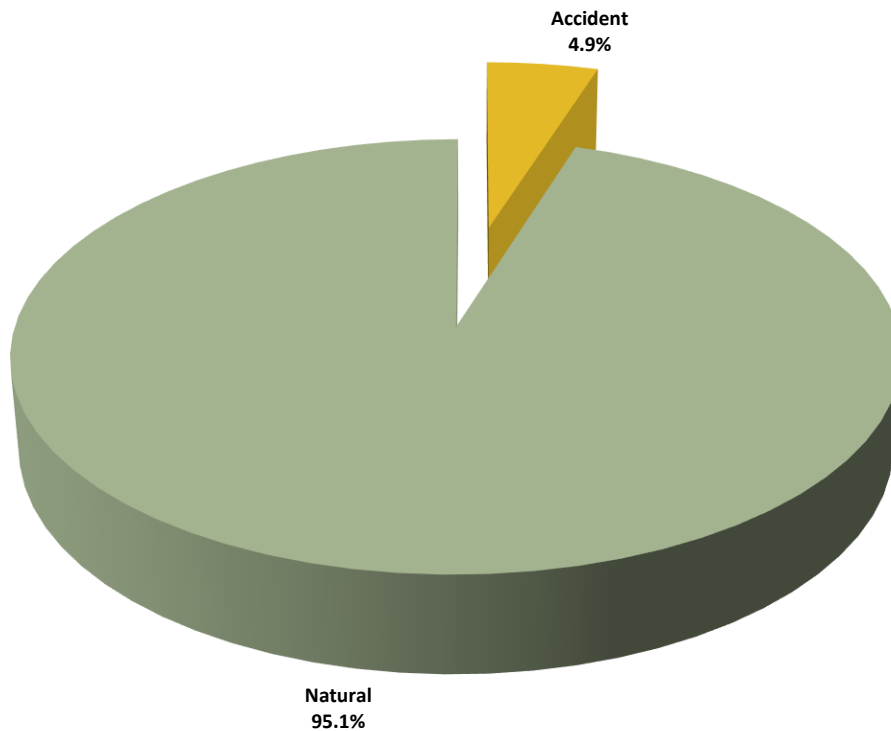


Figure 8.2 Percentage of State Mental Health Deaths by Gender, 2022

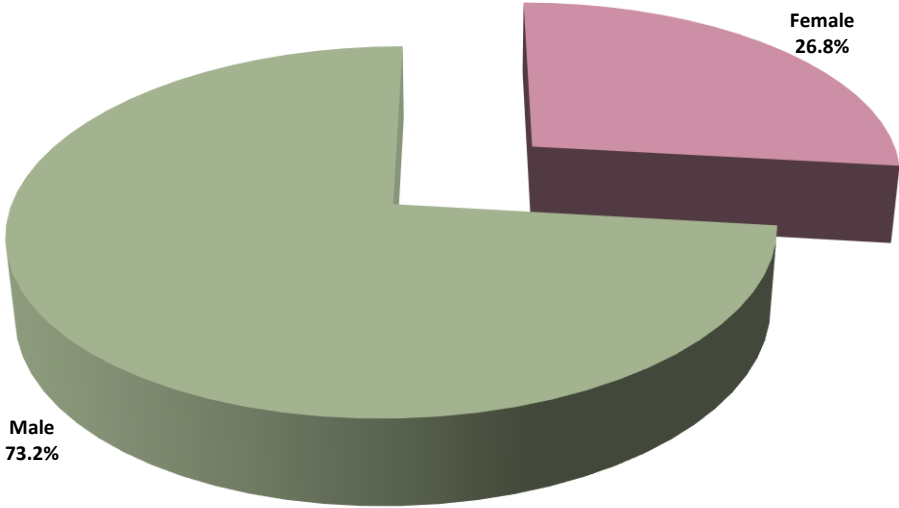


Figure 8.3 Number of State Mental Health Deaths by Age Group and Gender, 2022

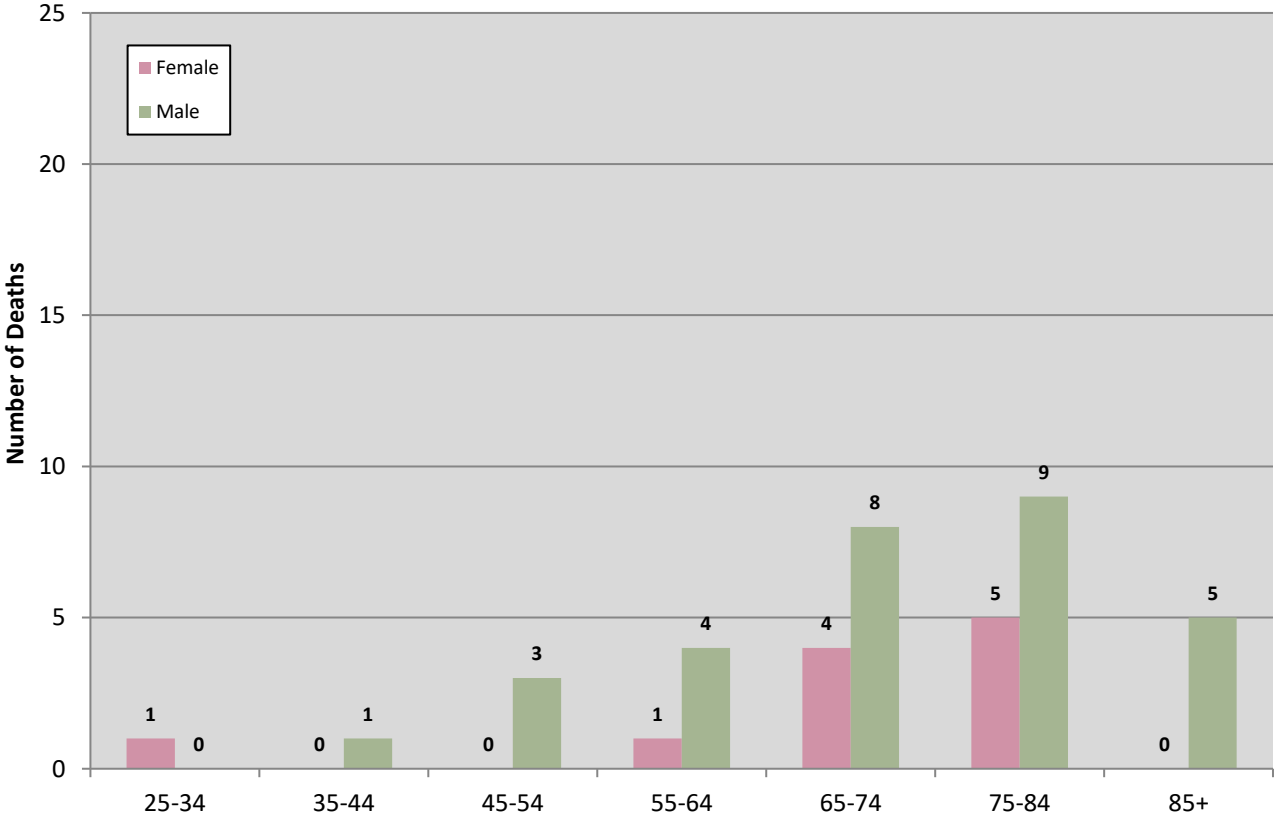


Figure 8.4 Percentage of State Mental Health Deaths Race/Ethnicity, 2022

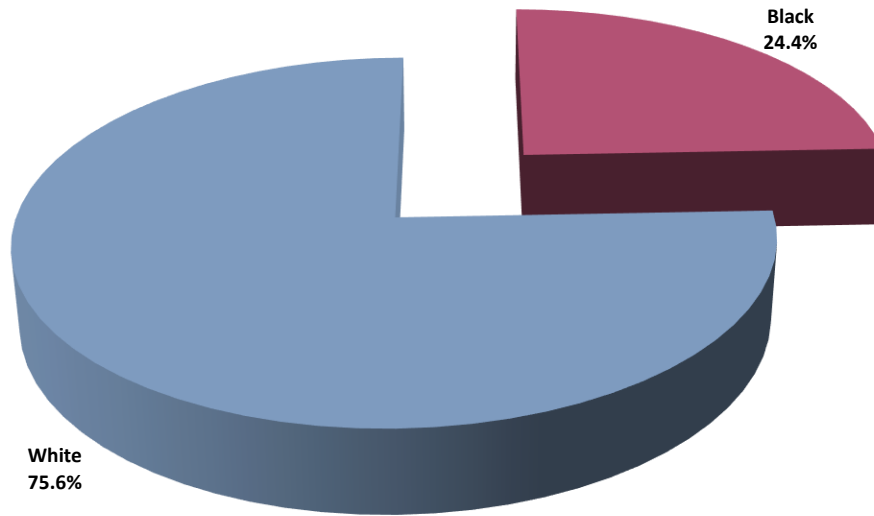


Table 8.1 Number of State Mental Health Deaths by Cause and Method of Death, 2022

Natural Deaths	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	1	2
Hypertension	1	3
Atherosclerosis and Hypertension	2	2
Acute Coronary Insufficiency	0	1
Cardiomyopathy (not otherwise specified)	0	1
Central Nervous System Diseases/Disorders		
Seizure Disorder	0	1
Vascular Disease	0	1
Degenerative Disease	1	1
Gastrointestinal Diseases/Disorders		
GI Hemorrhage	0	1
Cirrhosis	1	1
GI Malignancy	0	2
Other GI Disease/Disorder	1	2
Genitourinal Diseases/Disorders		
Other Genitourinal Disease/Disorder	1	1
Pulmonary Disease/Disorders		
COPD	0	3
Emboli	1	2
Pneumonia	3	8
Pulmonary Malignancy	1	3
Systemic Disease/Disorders		
Other Infectious Disease	0	1
Other Systemic Disease/Disorder	2	2
Complications of Dementia (Including Inanition)	1	1
<i>Natural Death Subtotal</i>	16	39
Unnatural Deaths	Autopsied	Total Cases
Asphyxia		
Choking (food or foreign object)	0	1
Fall/Jump		
Fall/Jump from height	0	1
<i>Unnatural Death Subtotal</i>	0	2
TOTAL OCME DEATHS	16	41

SECTION 9: RETROSPECTIVE CASES (N=63)

Retrospective cases are deaths that are unreported to the OCME at the time of death but are discovered upon later review and are therefore investigated by the OCME retrospectively. At times, medical care providers or death reporters misunderstand what type of case falls under the jurisdiction of the OCME and do not refer a case to the OCME. The OCME typically learns about these cases from the Virginia Department of Health's Division of Vital Records, funeral homes, or local medical examiners.

Some of these 63 retrospective deaths may have been deaths that occurred in prior years, but the OCME investigation began in 2022.

- The majority of the OCME's retrospective deaths were accidents (69.8%)
- Falls were the most common unreported type of death (42.9%), nearly all occurring among elder persons

Figure 9.1 Percentage of Retrospective Deaths by Manner of Death, 2022

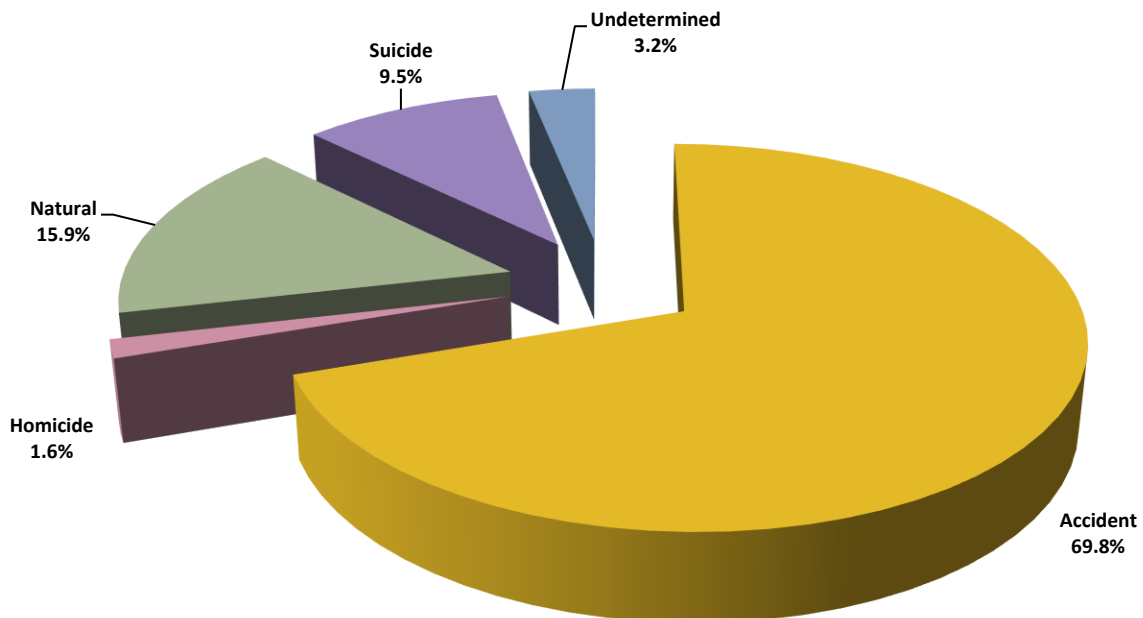


Table 9.1 Number and Percentage of Retrospective Deaths by OCME District, 2022

OCME District	Number	Percent
Central	4	6.3%
Northern	15	23.8%
Tidewater	17	27.0%
Western	27	42.9%
Total	63	100.0%

Figure 9.2 Percentage of Retrospective Deaths by Race/Ethnicity, 2022

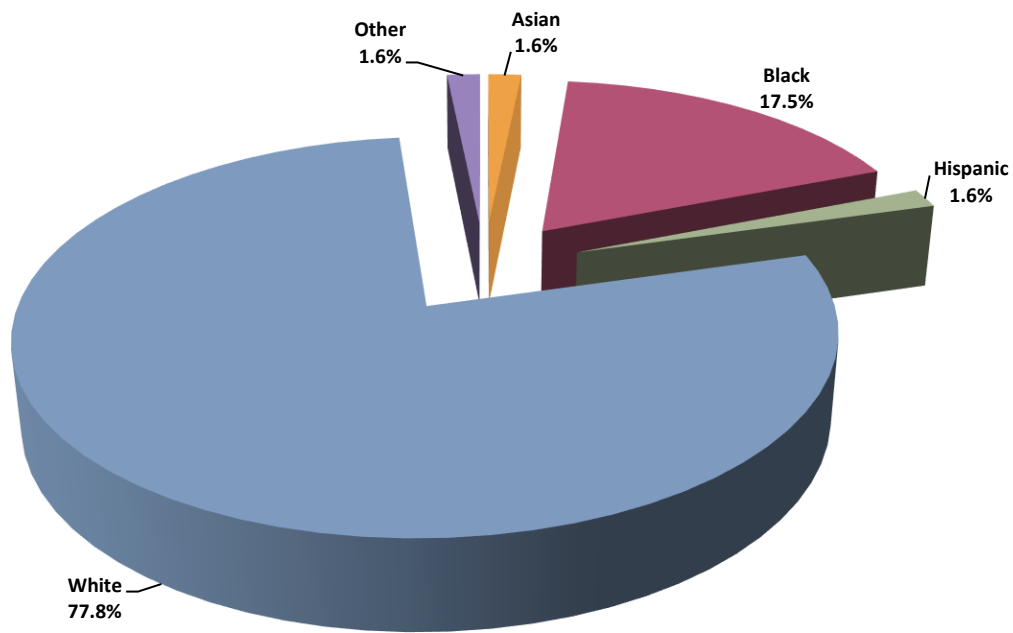


Figure 9.3 Number of Retrospective Deaths by Age Group and Gender, 2022

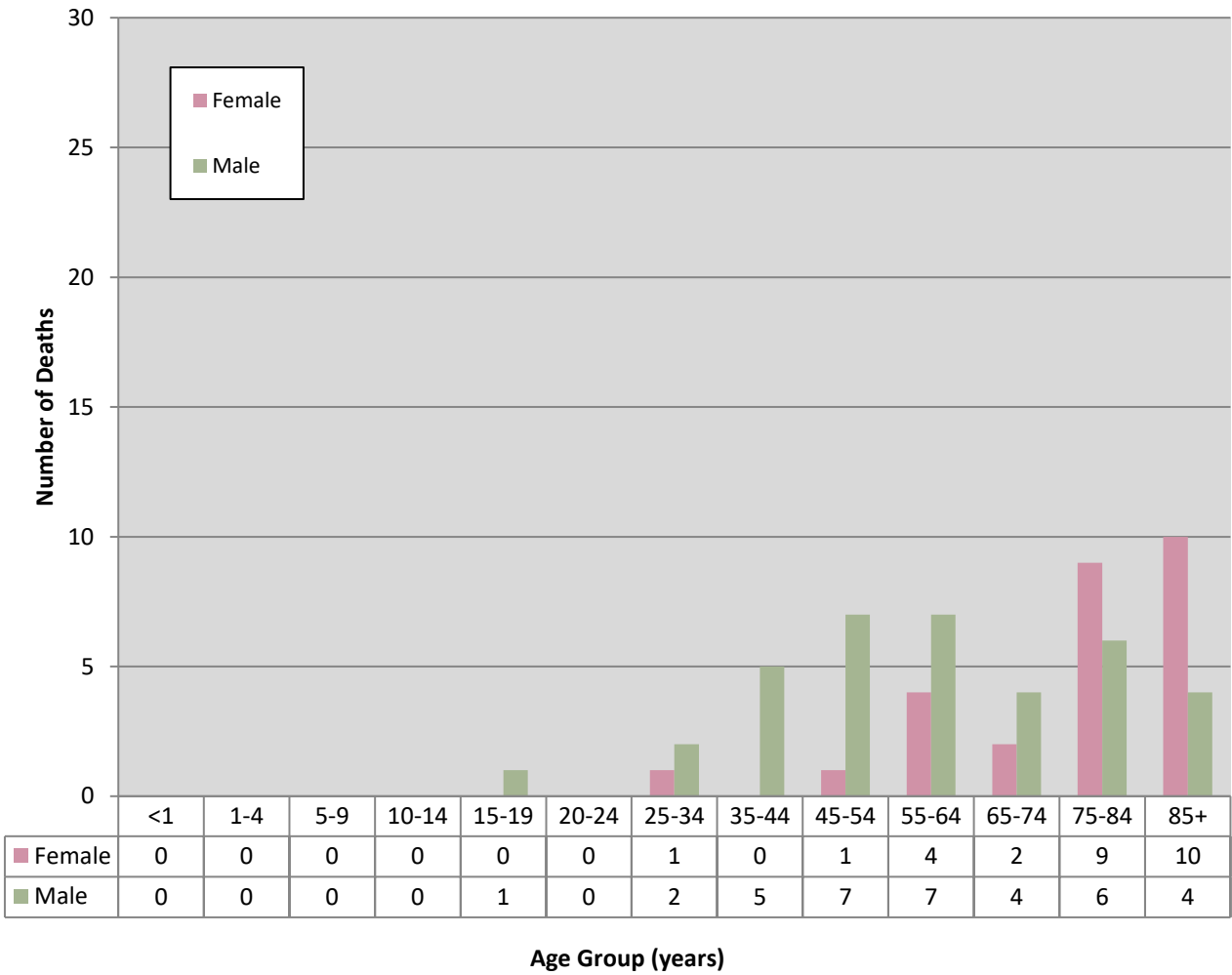


Table 9.2 Number of Retrospective Deaths by Cause and Method of Death, 2022

Natural Deaths	Total Cases
Cardiovascular Diseases/Disorders	
Atherosclerosis	2
Hypertension	3
Atherosclerosis and Hypertension	2
Acute Coronary Insufficiency	1
Central Nervous System Disease/Disorder	
Vascular Disease	1
Gastrointestinal Diseases/Disorders	
GI Hemorrhage	1
Pulmonary Diseases/Disorders	
COPD	2
Systemic Disease/Disorder	
Diabetes	2
Other Systemic Disease/Disorder	1
Natural Death Subtotal	15
Unnatural Deaths	Total Cases
Asphyxia	
Choking (food or foreign object)	1
Drowning	1
Hanging	4
Hanging	
Drug Use	
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	5
Environmental Exposure	
Exposure to cold	1
Fall	
Fall from standing	27
Fire	
Thermal burns and/or inhalation of combustion products	1
Gunshot	
Gunshot wound	
Handgun	1
Unknown	1
Motor Vehicle	
Motor vehicle collision	3
Traumatic Injury	
Blunt trauma from falling object	1

Other trauma	1
Unknown/Undetermined	
Unknown/Undetermined	1
<i>Unnatural Death Subtotal</i>	48
TOTAL OCME DEATHS	63

Note: the OCME cannot perform an autopsy on retrospective cases because the remains have already been processed and the final disposition has already been completed

GLOSSARY

Accident – The *manner of death* used when there is no evidence of intent; an unintentional, sudden, and unexpected death.

Assistant Chief Medical Examiner – A forensic pathologist who has the duty of performing autopsies and investigating deaths that fall under the *jurisdiction* of the *Office of the Chief Medical Examiner*, and determining *cause* and *manner of death*.

Autopsy – A detailed postmortem external and internal examination of a body to determine cause and manner of death, collect evidence, and determine the presence or absence of injury.

Cause of Death – The disease, injury, or poison that results in a physiological derangement or biochemical disturbance that is incompatible with life. The result of post-mortem examination, including autopsy and toxicological findings, combined with information about the medical history of the decedent, serves to establish the *cause of death*.

Chief Medical Examiner – The head of the *Office of the Chief Medical Examiner*. The Chief Medical Examiner must be a forensic pathologist licensed to practice medicine in Virginia and may appoint *Assistant Chief Medical Examiners* who are forensic pathologists, and *Local Medical Examiners*.

Children – Individuals 17 years of age and younger.

Ethanol – An alcohol, which is the principal intoxicant in beer, liquor, and wine. A person with an alcohol concentration in blood of 0.08 percent by weight by volume (0.08%) is legally intoxicated in Virginia.

Ethanol Present – Deaths in which toxicological tests reveal a reportable level of *ethanol* (0.01% BAC or greater) at the time of death.

Homicide – The *manner of death* in which death results from the intentional harm of one person by another.

Jurisdiction – Pursuant to the Code of Virginia § 32.1-283, the code details the extent of the Office of the Chief Medical Examiner’s authority over deaths:

‘Upon the death of any person from trauma, injury, violence, poisoning, accident, suicide or homicide, or suddenly when in apparent good health, or when unattended by a physician, or in jail, prison, other correctional institution or in police custody, or who is an individual receiving services in a state hospital or training center operated by the Department of Behavioral Health and Developmental Services, or suddenly as an apparent result of fire, or in any suspicious, unusual or unnatural manner, or the sudden death of any infant less than 18 months of age whose death is suspected to be attributable to Sudden Infant Death Syndrome (SIDS), the medical examiner of the county or city in which death occurs shall be

notified by the physician in attendance, hospital, law-enforcement officer, funeral director or any other person having knowledge of such death.'

Local Medical Examiner – A physician, nurse practitioner, or physician assistant appointed by the *Chief Medical Examiner* for a city or county to assist in the investigation of deaths and determine *jurisdiction* and disposition of cases reported; additionally, to perform external examinations when required. There is a local medical examiner in most counties in Virginia.

Locality of Death – The county/city where the death occurred. The county/city where the decedent legally resided, the county/city where the decedent was fatally injured, and the county/city where the decedent died may be the same or different.

Locality of Event – The county/city where a person sustained the injury eventually resulting in death.

Locality of Residence – The county/city where a person legally resides. If not a resident of Virginia, the decedent is listed as “out of state”.

Manner of Death – The general category of the circumstances of the event which causes the death. The categories are *accident, homicide, natural, suicide, and undetermined*.

Method of Death – The means, fatal agency or item causing death, present at the time of injury or death.

Motor Vehicle Collision Related Death – A death involving a motor vehicle. Motor vehicles include automobiles, vans, motorcycles, trucks, aircraft, and trains. The decedent is usually a driver of, a passenger in, or a pedestrian who is struck by a motor vehicle. The death of a bicyclist that is struck by a motor vehicle is considered to be a motor vehicle related death.

Natural – The *manner of death* used when a disease alone causes death. If death is hastened by an injury, the *manner of death* is not considered natural.

Office of the Chief Medical Examiner – The Office of the Chief Medical Examiner (OCME) lies within the Virginia Department of Health and is responsible for the investigation of sudden, violent, or unexpected death.

Opiate and Opioid – A class of drugs derived from the opium poppy plant (*Papaver somniferum*). “Opioid” is often used interchangeably with opiates, and describes chemical/pharmaceutical narcotics that bind to the opiate receptors of the brain and work very similarly to opiates.

Stimulant – A class of drugs, including cocaine and oral amphetamines, whose principal action is the stimulation of the central nervous system.

Sudden and Unexpected Infant Death – A diagnosis designated for infants (children under the age of 1 year). Sudden and Unexpected Infant Death (SUID) is a diagnosis made in cases in which autopsy does not reveal a definitive medical or

traumatic cause of death and the circumstances surrounding the death suggest that there is an associated risk factor for dying, such as unsafe bedding or co-sleep, or some other external factor, but the contribution of this factor cannot be determined with certainty. The diagnosis may also be used in the situation where a medical disease is identified, but it is uncertain that this disease caused death.

Sudden Infant Death Syndrome –Sudden Infant Death Syndrome (SIDS) is defined as the sudden death of an infant that cannot be explained after a thorough investigation is conducted, including a complete autopsy, examination of the death scene which includes no external risk factors, and review of the clinical history.

Suicide – The *manner of death* in which death results from the purposeful attempt to end one’s life.

Undetermined – The *manner of death* for deaths in which there is insufficient information to assign another manner. An undetermined death may have an undetermined cause of death and an unknown manner, an undetermined cause of death and a known manner, or a determined cause of death and an unknown manner.

View- A detailed postmortem external examination of the decedent’s body, clothing, and injuries that may have caused or contributed to their death.

MEDICAL EXAMINER DISTRICTS

CENTRAL Counties of Albemarle, Amelia, Appomattox, Brunswick, Buckingham, Caroline, Charles City, Charlotte, Chesterfield, Cumberland, Dinwiddie, Essex, Fluvanna, Goochland, Greene, Greensville, Halifax, Hanover, Henrico, King and Queen, King George, King William, Lancaster, Louisa, Lunenburg, Mecklenburg, Middlesex, Nelson, New Kent, Northumberland, Nottoway, Powhatan, Prince Edward, Prince George, Richmond, Spotsylvania, Surry, Sussex, and Westmoreland. **Cities** of Charlottesville, Colonial Heights, Emporia, Fredericksburg, Hopewell, Petersburg, and Richmond.

NORTHERN Counties of Arlington, Augusta, Clarke, Culpeper, Fairfax, Fauquier, Frederick, Loudoun, Madison, Orange, Page, Prince William, Rappahannock, Rockingham, Shenandoah, Stafford, and Warren. **Cities** of Alexandria, Fairfax, Falls Church, Harrisonburg, Manassas, Manassas Park, Staunton, Waynesboro, and Winchester.


TIDEWATER Counties of Accomack, Gloucester, Isle of Wight, James City, Mathews, Northampton, Southampton, and York. **Cities** of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg.

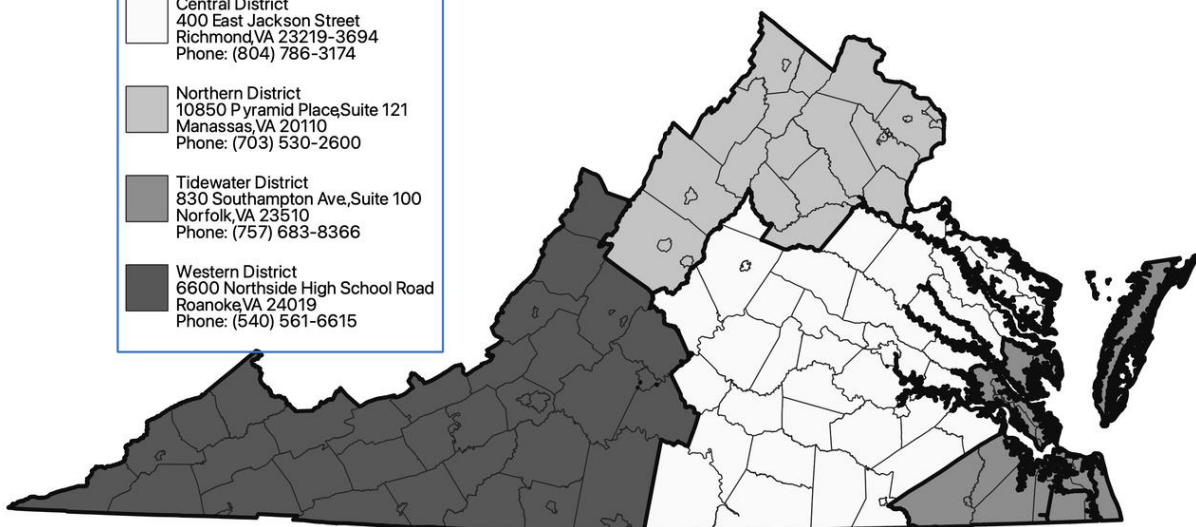
WESTERN Counties of Alleghany, Amherst, Bath, Bedford, Bland, Botetourt, Buchanan, Campbell, Carroll, Craig, Dickenson, Floyd, Franklin, Giles, Grayson, Henry, Highland, Lee, Montgomery, Patrick, Pittsylvania, Pulaski, Roanoke, Rockbridge, Russell, Scott, Smyth, Tazewell, Washington, Wise, and Wythe. **Cities** of Bristol, Buena Vista, Covington, Danville, Galax, Lexington, Lynchburg, Martinsville, Norton, Radford, Roanoke, and Salem.



Virginia Department of Health Office of the Chief Medical Examiner of Virginia

OCME District Offices

-  Central District
400 East Jackson Street
Richmond, VA 23219-3694
Phone: (804) 786-3174
-  Northern District
10850 Pyramid Place, Suite 121
Manassas, VA 20110
Phone: (703) 530-2600
-  Tidewater District
830 Southampton Ave., Suite 100
Norfolk, VA 23510
Phone: (757) 683-8366
-  Western District
6600 Northside High School Road
Roanoke, VA 24019
Phone: (540) 561-6615



OCME Annual Reports from 2004 to 2022 are available online at:

<http://www.vdh.virginia.gov/medical-examiner/annual-reports/>

Commonwealth of Virginia

Virginia Department of Health

Office of the Chief Medical Examiner

400 E. Jackson Street

Richmond, VA 23219

(804) 786-3174