

Office of the Chief Medical Examiner's Annual Report, 2015



Commonwealth of Virginia
Virginia Department of Health
Office of the Chief Medical Examiner, 2015
Compiled by Kathrin 'Rosie' Hobron, MPH
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Office of the Chief Medical Examiner's Annual Report, 2015

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Virginia Department of Health

Commonwealth of Virginia

TABLE OF CONTENTS

TABLE OF CONTENTS.....	1
INTRODUCTION.....	12
Letter from the Chief Medical Examiner	12
Introduction	14
Data Collection and Preparation.....	14
Statistical Summary	14
OVERVIEW – OFFICE OF THE CHIEF MEDICAL EXAMINER	15
Jurisdictional Authority.....	15
Medicolegal Mission	16
Public Health Mission.....	16
Virginia Demographics in 2015	17
Fatality Review and Surveillance Programs.....	17
The Family and Intimate Partner Violence Homicide Surveillance Project (FIPV)	17
The Virginia Violent Death Reporting System (VVDRS)	18
The State Child Fatality Review Team.....	20
Domestic Violence Fatality Review.....	22
Virginia's Pregnancy-Associated Mortality Surveillance System (PAMSS) and Maternal Mortality Review Team (MMRT).....	23
Virginia's Sudden Death in the Young (SDY) Project	25
Adult Fatality Review	26
Training and Education	27
Forensic Pathology Training Programs	27

National Association of Medical Examiners Accreditation.....	28
SECTION 1: TOTAL OCME CASES (N=6,251)	30
Figure 1.1 Number and Rate of OCME Cases by Year of Death, 1999-2015	30
Figure 1.2 Number of OCME Cases by Manner of Death, 1999-2015	31
Figure 1.3 Percentage of OCME Cases by Manner of Death, 2015	31
Table 1.1 Number of OCME Cases by District and Manner of Death, 2015	32
Table 1.2 Number of OCME Cases by Autopsy Status and District, 2015	32
Table 1.3 Number of OCME Cases by Manner of Death and Autopsy Status, 2015	32
Table 1.4 Number and Percentage of OCME Cases by Race/Ethnicity, 2015	33
Figure 1.4 Number of OCME Cases by Manner of Death and Race/Ethnicity, 2015.....	33
Figure 1.5 Number of OCME Cases by Age Group, 2015.....	34
Table 1.5 Number and Percentage of OCME Cases by Gender, 2015	34
Table 1.6 Number and Percentage of OCME Cases by Manner of Death and Gender, 2015	35
Figure 1.6 Number and Rate of OCME Cases by Manner of Death and Gender, 2015.....	35
Table 1.7 Number of OCME Cases by Manner of Death, Gender, and Age Group, 2015	36
Figure 1.7 Number of OCME Cases by Month of Death, 2015	37
Figure 1.8 Number of OCME Cases by Month and Manner of Death, 2015	37
Figure 1.9 Number of OCME Cases by Day of Death, 2015	38
Figure 1.10 Number of OCME Cases by Day and Manner of Death, 2015	38
Table 1.8 Number and Rate of OCME Cases by Manner of Death and Locality of Residence, 2015	39
Map 1.1 Number of OCME Cases by Locality of Residence, 2015.....	44
Map 1.2 Rates of OCME Cases by Locality of Residence, 2015	45
Table 1.9 Number and Rate of OCME Cases by Manner of Death and Locality of Injury, 2015 ..	46
Map 1.3 Number of OCME Cases by Locality of Injury, 2015.....	51
Map 1.4 Rate of OCME Cases by Locality of Injury, 2015.....	52
Table 1.10 Number of OCME Cases by Manner of Death and Locality of Death, 2015	53
Map 1.5 Number of OCME Cases by Locality of Death, 2015	57
SECTION 2: MANNER OF DEATH	58
ACCIDENTAL DEATHS (N=2,874)	58
Figure 2.1 Number and Rate of Accidental Deaths by Year of Death, 1999-2015	58

Figure 2.2 Number and Rate of Accidental Deaths by Age Group and Gender, 2015	59
Figure 2.3 Percentage of Accidental Deaths by Race/Ethnicity, 2015.....	59
Figure 2.4 Number and Rate of Accidental Deaths by Race/Ethnicity and Gender, 2015	60
Table 2.1 Number of Accidental Death Cases by Cause and Method of Death, 2015	61
Table 2.2 Number and Rate of the Top 5 Accidental Methods of Death by Age Group, 2015	63
Figure 2.5 Number of Accidental Deaths by Age Group and Ethanol Level (N=1,910), 2015	64
Figure 2.6 Number of Accidental Deaths by Ethanol Level and Gender (N=1,910), 2015	64
Figure 2.7 Number of the Top 5 Accidental Methods of Death by Ethanol Level, 2015.....	65
Figure 2.8 Number of Accidental Deaths by Month of Death, 2015	66
Figure 2.9 Number of Accidental Deaths by Day of Death, 2015.....	66
Table 2.3 Number of Accidental Deaths by Locality of Injury and Year of Death, 2006-2015.....	67
HOMICIDE DEATHS (N=388)	72
Figure 2.10 Number and Rate of Homicide Deaths by Year of Death, 1999-2015.....	72
Figure 2.11 Number and Rate of Homicide Deaths by Age Group and Gender, 2015.....	73
Figure 2.12 Percentage of Homicide Deaths by Race/Ethnicity, 2015	73
Figure 2.13 Number and Rate of Homicide Deaths by Race/Ethnicity and Gender, 2015.....	74
Table 2.4 Number of Homicide Deaths by Cause and Method of Death, 2015	75
Figure 2.14 Number of the Top 5 Homicide Deaths by Method, 2015	76
Figure 2.15 Number of Homicide Deaths by Ethanol Level and Gender (N=366), 2015.....	76
Figure 2.16 Number of Homicide Deaths by Age Group and Ethanol Level (N=366), 2015.....	77
Table 2.5 Number of Homicide Deaths by Method of Death and Ethanol Level (N=366), 2015 .	78
Figure 2.17 Number of Homicide Deaths by Month of Death, 2015.....	79
Figure 2.18 Number of Homicide Deaths by Day of Death, 2015	79
Table 2.6 Number and Rate of Homicide Deaths by Locality of Residence, 2015	80
Table 2.7 Top 10 Localities with the Largest Number of Residential Homicides, 2015	82
Table 2.8 Top 10 Localities with the Highest Rate of Residential Homicides, 2015.....	82
Map 2.1 Number of Homicides by Locality of Residence, 2015	83
Map 2.2 Homicide Rates by Locality of Residence, 2015	84
Table 2.9 Number and Rate of Homicide Deaths by Locality of Injury, 2015.....	85
Table 2.10 Top 10 Localities with the Largest Number of Homicides by Locality of Injury, 2015	87

Table 2.11 Top 10 Locations City/Counties with the Highest Rate of Homicides by Locality of Injury, 2015	87
Map 2.3 Number of Homicides by Locality of Injury, 2015	88
Map 2.4 Homicide Rates by Locality of Injury, 2015	89
Table 2.12 Number of Homicide Deaths by Locality of Death and Year of Death, 2006-2015	90
NATURAL DEATHS (N=1,712)	95
Figure 2.19 Number and Rate of Natural Deaths by Year of Death, 1999-2015	95
Figure 2.20 Number of Natural Deaths by Age Group and Gender, 2015	96
Table 2.13 Number of Natural Deaths by Cause and Method of Death, 2015	97
SUICIDE DEATHS (N=1,097).....	99
Figure 2.21 Number and Rate of Suicide Deaths by Year of Death, 1999-2015.....	99
Figure 2.22 Number and Rate of Suicide Deaths by Age Group and Gender, 2015.....	100
Figure 2.23 Percentage of Suicide Deaths by Race/Ethnicity, 2015	100
Figure 2.24 Number and Rate of Suicide Deaths by Race/Ethnicity and Gender, 2015.....	101
Table 2.14 Number of Suicide Deaths by Cause and Method of Death, 2015	102
Figure 2.25 Number of Suicide Deaths by Age Group and Ethanol Level (N=462), 2015	103
Figure 2.26 Number of Suicide Deaths by Gender and Ethanol Level (N=462), 2015.....	103
Table 2.15 Number of Suicide Deaths by Manner of Death and Ethanol Level (N=462), 2015 .	104
Figure 2.27 Number of Suicide Deaths by Month of Death, 2015	105
Figure 2.28 Number of Suicide Deaths by Day of the Week, 2015	105
Table 2.16 Number and Rate of Suicide Deaths by Locality of Residence, 2015	106
Map 2.5 Number of Suicides by Locality of Residence, 2015.....	108
Map 2.6 Suicide Rates by Locality of Residence, 2015	109
Table 2.17 Number of Suicide Deaths by Locality of Injury and Year of Death, 2006-2015	110
UNDETERMINED DEATHS (N=180).....	115
Figure 2.29 Number and Rate of Undetermined Deaths by Year of Death, 1999-2015	115
Figure 2.30 Number and Rate of Undetermined Deaths by Age Group and Gender, 2015	116
Figure 2.31 Percentage of Undetermined Deaths by Race/Ethnicity, 2015.....	116
Table 2.18 Number of Undetermined Deaths by Cause of Death, 2015.....	117
SECTION 3: DEATHS OF CHILDREN (N=301).....	118
Figure 3.1 Number of Child Deaths by Manner, 2015	118

Figure 3.2 Number of Child Deaths by Age and Gender, 2015.....	119
Figure 3.3 Percentage of Child Deaths by Race/Ethnicity, 2015	119
Figure 3.4 Number and Rate of Child Deaths by Gender and Race/Ethnicity, 2015	120
Figure 3.5 Number of Child Deaths by Manner and Race/Ethnicity, 2015	120
Table 3.1 Number of Child Deaths by Cause of Death, 2015	121
ACCIDENTAL CHILD DEATHS (N=113)	123
Figure 3.6 Number and Rate of Accidental Child Deaths by Year, 2003-2015	123
Figure 3.7 Number and Rate of Accidental Child Deaths by Age Group and Gender, 2015	124
Figure 3.8 Percentage of Accidental Child Deaths by Race/Ethnicity, 2015	124
Figure 3.9 Number and Rate of Accidental Child Deaths by Gender and Race/Ethnicity, 2015	125
Figure 3.10 Number of Accidental Child Deaths by Month of Death, 2015.....	126
Figure 3.11 Number of Accidental Child Deaths by Day of Week, 2015	126
Table 3.2 Number of Accidental Child Deaths by Cause and Method of Death, 2015.....	127
CHILD HOMICIDE DEATHS (N=33).....	128
Figure 3.12 Number and Rate of Child Homicide Deaths by Year, 1999-2015.....	128
Figure 3.13 Number of Child Homicide Deaths by Age and Gender, 2015	129
Figure 3.14 Percentage of Child Homicide Deaths by Race/Ethnicity, 2015	129
Figure 3.15 Number and Rate of Child Homicide Deaths by Gender and Race/Ethnicity, 2015	130
Figure 3.16 Number of Child Homicide Deaths by Month of Death, 2015	131
Figure 3.17 Number of Child Homicide Deaths by Day of the Week, 2015	131
Table 3.3 Number of Child Homicide Deaths by Cause and Method of Death, 2015	132
NATURAL CHILD DEATHS (N=35)	133
Figure 3.18 Number of Natural Child Deaths by Age Group and Gender, 2015	133
Figure 3.19 Percentage of Natural Child Deaths by Race/Ethnicity, 2015	134
Figure 3.20 Number of OCME SIDS Cases by Year of Death, 2003-2015	134
Table 3.4 Number of Natural Child Deaths by Cause and Method of Death, 2015	135
CHILD SUICIDE DEATHS (N=35).....	136
Figure 3.21 Number and Rate of Child Suicide Deaths by Year, 1999-2015	136
Figure 3.22 Number of Child Suicide Deaths by Age and Gender, 2015	137
Figure 3.23 Percentage of Child Suicide Deaths by Race/Ethnicity, 2015.....	137
Figure 3.24 Number and Rate of Child Suicide Deaths by Gender and Race/Ethnicity, 2015 ...	138

Figure 3.25 Number of Child Suicide Deaths by Month, 2015	139
Figure 3.26 Number of Child Suicide Deaths by Day of the Week, 2015	139
Table 3.5 Number of Child Suicide Deaths by Cause and Method of Death, 2015	140
UNDETERMINED CHILD DEATHS (N=85)	141
Figure 3.27 Number and Rate of Undetermined Child Deaths by Year, 2006-2015	141
Figure 3.28 Number of Undetermined Child Deaths by Age and Gender, 2015	142
Figure 3.29 Percentage of Undetermined Child Deaths by Race/Ethnicity, 2015.....	142
Figure 3.30 Number and Rate of Undetermined Child Deaths by Gender and Race/Ethnicity, 2015	143
Table 3.6 Number of Undetermined Child Deaths by Cause and Method of Death, 2015.....	144
SECTION 4: MOTOR VEHICLE FATALITIES (N=879).....	145
Figure 4.1 Number and Rate of Motor Vehicle Deaths by Year, 2003-2015	145
Figure 4.2 Percentage of Motor Vehicle Deaths by Manner, 2015	146
Figure 4.3 Number and Rate of Motor Vehicle Deaths by Age Group and Gender, 2015	146
Figure 4.4 Percentage of Motor Vehicle Deaths by Race/Ethnicity, 2015	147
Figure 4.5 Number and Rate of Motor Vehicle Deaths by Race/Ethnicity and Gender, 2015 ...	147
Figure 4.6 Percentage of Motor Vehicle Deaths by Ethanol Amount (N=690), 2015	148
Figure 4.7 Number of Motor Vehicle Deaths by Age Group, Gender, and Ethanol Amount (N=690), 2015	148
Figure 4.8 Number of Motor Vehicle Deaths by Ethanol Level and Race/Ethnicity (N=690), 2015	149
Table 4.1 Number of Motor Vehicle Deaths by Age Group and Position during Collision, 2015	149
Figure 4.9 Number of Motor Vehicle Deaths by Position during Collision and Ethanol Level (N=690), 2015	150
Table 4.2 Number of Motor Vehicle Deaths by Position during Collision, Vehicle Type, and Ethanol Level, 2015.....	151
Figure 4.10 Number of OCME Motor Vehicle Fatalities by Month of Death, 2015	153
Figure 4.11 Number of OCME Motor Vehicle Fatalities by Day of Week, 2015	153
Table 4.3 Number and Rate of Motor Vehicle Deaths by Locality of Residence, 2015.....	154
Map 4.1 Number of Motor Vehicle Fatalities by Locality of Residence, 2015	156
Map 4.2 Rate of Motor Vehicle Fatalities by Locality of Residence, 2015	157
Table 4.4 Number and Rate of Motor Vehicle Deaths by Locality of Injury, 2015.....	158

Map 4.3 Number of Motor Vehicle Fatalities by Locality of Injury, 2015	160
Map 4.4 Rate of Motor Vehicle Fatalities by Locality of Injury, 2015	161
SECTION 5: DRUG/POISON DEATHS (N=1,028).....	162
TOTAL DRUG/POISON DEATHS (N=1,028)	162
Figure 5.1 Number and Rate of Fatal Drug/Poison Overdoses by Year of Death, 1999-2015 ...	162
Table 5.1 Number and Percentage of Fatal Drug/Poison Overdoses by OCME District, 2015 ..	163
Figure 5.2 Percentage of Fatal Drug/Poison Overdoses by Manner of Death, 2015	163
Figure 5.3 Number and Rate of Fatal Drug/Poison Overdoses by Age Group and Gender, 2015	164
Table 5.2 Number of Fatal Drug/Poison Overdoses by Age Group and Manner of Death, 2015	164
Figure 5.4 Percentage of Fatal Drug/Poison Overdoses by Race/Ethnicity, 2015.....	165
Figure 5.5 Number and Rate of Fatal Drug/Poison Overdoses by Race/Ethnicity and Gender, 2015	165
Table 5.3 Number of Fatal Drug/Poison Overdoses by OCME District and Cause of Death, 2015	166
Table 5.4 Number of Fatal Drug/Poison Overdoses Manner and Cause of Death, 2015.....	166
Figure 5.6 Number of Fatal Drug/Poison Overdoses by Drug Category and Year of Death, 1999-2015	167
Figure 5.7 Number of Fatal Drug/Poison Overdoses by Drug Category and Gender, 2015.....	168
Figure 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Drug Category and Race/Ethnicity, 2015	169
Figure 5.9 Number of Fatal Drug/Poison Overdoses by Drug Category and Ethanol Level, 2015	170
Table 5.5 Number of Fatal Drug/Poison Overdoses by Cause of Death and Whether Alcohol Caused Death, 2015	170
Figure 5.10 Number of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolites Detected, 2015	171
Table 5.6 Number and Percentage of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolite Detected, 2015.....	171
Figure 5.11 Number of Fatal Drug/Poison Overdoses by Class of Drug/Poison/Metabolite Detected that Caused or Contributed to Death, 2015	176

Table 5.7 Number of Fatal Drug/Poison Deaths by Drug/Poison/Metabolites Detected that Caused or Contributed to Death, 2015.....	176
Table 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Residence, 2015 ..	181
Map 5.1 Number of Fatal Drug/Poison Overdoses by Locality of Residence, 2015.....	183
Map 5.2 Rates of Fatal Drug/Poison Overdoses by Locality of Residence, 2015	184
Table 5.9 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Injury, 2015	185
Map 5.3 Number of Fatal Drug/Poison Overdoses by Locality of Injury, 2015	187
Map 5.4 Rates of Fatal Drug/Poison Overdoses by Locality of Injury, 2015	188
PRESCRIPTION OPIOIDS EXCLUDING FENTANYL (N=398).....	189
Figure 5.12 Number of All Fatal Drug Overdoses Compared to All Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Year of Death, 2007-2015	189
Figure 5.13 Number of Prescription Opioids (Excluding Fentanyl) Causing or Contributing to Death in Fatal Drug/Poison Overdoses, 2015.....	190
Figure 5.14 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Manner of Death, 2015	190
Table 5.10 Number of Prescription Opioids (Excluding Fentanyl) Detected in Fatal Drug Overdoses by OCME District, 2015.....	191
Figure 5.15 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Age Group and Gender, 2015	191
Figure 5.16 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity, 2015	192
Figure 5.17 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity and Gender, 2015	192
Table 5.11 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2015	193
Map 5.5 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2015.....	195
Map 5.6 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2015	196
Table 5.12 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2015.....	197
Map 5.7 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2015	199

Map 5.8 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2015	200
FENTANYL AND/OR HEROIN DEATHS (N=471)	201
Figure 5.18 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Year of Death, 2007-2015	201
Table 5.13 Number of Fatal Fentanyl and/or Heroin Overdoses by OCME District, 2015	202
Figure 5.19 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Manner of Death, 2015	202
Figure 5.20 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Age Group and Gender, 2015	203
Figure 5.21 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity, 2015 ..	203
Figure 5.22 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity and Gender, 2015	204
Table 5.14 Number and Percentage of Fatal Fentanyl and/or Heroin Overdoses by Whether Alcohol Caused Death, 2015	204
Table 5.15 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2015	205
Map 5.9 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2015 .	207
Map 5.10 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Residence, 2015	208
Table 5.16 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2015	209
Map 5.11 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2015	211
Map 5.12 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Injury, 2015	212
ALL OPIOID DEATHS (N=811)	213
Figure 5.23 Number and Rate of All Fatal Opioid Overdoses Year of Death, 2007-2015	213
Table 5.17 Number of All Fatal Opioid Overdoses by Combination and OCME District, 2015 ..	214
Figure 5.24 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2015	214
Figure 5.25 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2015	215
Figure 5.26 Number and Rate of All Fatal Opioid Overdoses by Age Group and Gender, 2015	215
Figure 5.27 Percentage of All Fatal Opioid Overdoses by Race/Ethnicity, 2015	216
Figure 5.28 Number and Rate of All Fatal Opioid Overdoses by Race/Ethnicity and Gender, 2015	216

Figure 5.29 Number of Opioids Causing or Contributing to Fatal Opioid Overdoses, 2015	217
Table 5.18 Number and Percentage of All Fatal Opioid Overdoses by Whether Alcohol Caused Death, 2015.....	217
Table 5.19 Number of All Fatal Opioid Overdoses by Locality of Residence, 2015.....	218
Map 5.13 Number of All Fatal Opioid Overdoses by Locality of Residence, 2015	220
Map 5.14 Rates of All Fatal Opioid Overdoses by Locality of Residence, 2015.....	221
Table 5.20 Number and Rate of All Fatal Opioid Overdoses by Locality of Injury, 2015	222
Map 5.15 Number of All Fatal Opioid Overdoses by Locality of Injury, 2015	224
Map 5.16 Rates of All Fatal Opioid Overdoses by Locality of Injury, 2015.....	225
SECTION 6: GUN RELATED DEATHS (N=940).....	226
Figure 6.1 Number and Rate of Gun Related Deaths by Year of Death, 2007-2015	226
Figure 6.2 Number of Gun Related Deaths by Year and Manner of Death, 2007-2015.....	227
Figure 6.3 Percentage of Gun Related Deaths by Manner of Death, 2015	227
Table 6.1 Number and Rate of Gun Related Deaths by OCME District and Manner of Death, 2015	228
Table 6.2 Number of Gun Related Deaths by Gun Type and Manner of Death, 2015	228
Figure 6.4 Percentage of Gun Related Deaths by Gender, 2015	229
Figure 6.5 Number and Rate of Gun Related Deaths by Age Group and Gender, 2015	229
Figure 6.6 Percentage of Gun Related Deaths by Race/Ethnicity, 2015	230
Figure 6.7 Number and Rate of Gun Related Deaths by Race/Ethnicity and Gender, 2015	230
Figure 6.8 Percentage of Gun Related Deaths by Ethanol Level (N=476), 2015	231
Figure 6.9 Number of Gun Related Deaths by Alcohol Level and Manner of Death (N=476), 2015	231
Figure 6.10 Number of Gun Related Deaths by Month of Death, 2015	232
Figure 6.11 Number of Gun Related Deaths by Day of Week, 2015	232
Table 6.3 Number and Rate of Gun Related Deaths by Locality of Residence, 2015.....	233
Map 6.1 Number of Gun Related Deaths by Locality of Residence, 2015.....	235
Map 6.2 Rates of Gun Related Death by Locality of Residence, 2015.....	236
Table 6.4 Number and Rate of Gun Related Deaths by Locality of Injury, 2015	237
Map 6.3 Number of Gun Related Deaths by Locality of Injury, 2015.....	239
Map 6.4 Number of Gun Related Deaths by Locality of Injury, 2015.....	240

SECTION 7: IN-CUSTODY (PRISONER) DEATHS (N=155)	241
Figure 7.1 Percentage of In-Custody Deaths by Manner of Death, 2015.....	241
Figure 7.2 Percentage of In-Custody Deaths by Race/Ethnicity, 2015	242
Figure 7.3 Number of In-Custody Deaths by Age Group and Gender, 2015	242
Figure 7.4 Number of In-Custody Deaths by Manner and Race/Ethnicity, 2015	243
Table 7.1 Number of In-Custody Deaths by Cause and Method of Death, 2015	244
SECTION 8: STATE MENTAL HEALTH DEATHS (N=72)	246
Figure 8.1 Percentage of State Mental Health Deaths by Manner, 2015	246
Figure 8.2 Percentage of State Mental Health Deaths by Race/Ethnicity, 2015	247
Figure 8.3 Number of State Mental Health Deaths by Age Group and Gender, 2015	247
Figure 8.4 Percentage of State Mental Health Deaths Race/Ethnicity, 2015.....	248
Table 8.1 Number of State Mental Health Deaths by Cause and Method of Death, 2015	248
SECTION 9: RETROSPECTIVE CASES (N=149)	250
Figure 9.1 Percentage of Retrospective Deaths by Manner of Death, 2015.....	250
Table 9.1 Number and Percentage of Retrospective Deaths by OCME District, 2015	251
Figure 9.2 Percentage of Retrospective Deaths by Race/Ethnicity, 2015	251
Figure 9.3 Number of Retrospective Deaths by Age Group and Gender, 2015	252
Table 9.2 Number of Retrospective Deaths by Cause and Method of Death, 2015	253
GLOSSARY.....	255

INTRODUCTION

Letter from the Chief Medical Examiner

The Virginia Department of Health's Office of the Chief Medical Examiner (OCME) is proud to present the 2015 annual report. Kathrin Hobron, MPH, the OCME Statewide Forensic Epidemiologist, and Mr. Chris Batten, the OCME IT Manager, were instrumental in collating data and preparing this detailed report. The OCME annual report not only provides specific information about deaths occurring within the Commonwealth of Virginia but also fulfills a requirement for the statewide accreditation of the Virginia OCME by the National Association of Medical Examiners (NAME). This report details the cases investigated by the OCME and identifies deadly trends in Virginia, providing a valuable resource to Virginia's leaders and citizens to enhance death prevention and surveillance efforts and protect the lives of all Virginians.

As a model statewide death investigation system with four district offices, the OCME fulfills a core function mandated by the Code of Virginia, § 32.1-283. By Code, the OCME is tasked with investigating the deaths of individuals occurring 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 cases falling under the jurisdiction of the OCME are reported to one of the four district OCME offices, the case information is immediately entered into the Virginia Medical Examiner Database (VMEDS) and the case is managed through this statewide data system allowing for consistent, reliable case data that can be reviewed and interpreted for this annual report. Critical analysis of this data by Kathrin Hobron has revealed several trends that should be shared with citizens and leaders of Virginia.

Some of the important trends for 2015 include:

- The number of accidents and homicides increased in 2015 compared to 2014
- Richmond City had both the largest number of homicides by residence of the decedent (n=41) and by locality of injury (n=47). Petersburg City had both the highest homicide rate by residence of the decedent and highest homicide rate by locality of injury (rate of 40.0 and 43.1 per 100,000, respectively)

- Whites committed suicide at a rate 8.8 times that of Hispanics, 3.9 times that of Asians, 3.0 times that of Blacks, and 2.3 times that of Native Americans
- Motor vehicle deaths increased by 8.8% in 2015 compared to 2014. This is the first increase seen from the previous year since 2011.
- In 2014, fatal drug overdoses became the most common cause of accidental death in the Commonwealth. This trend continued at a larger magnitude in 2015.
- For the first time on record, fatal fentanyl and/or heroin overdoses surpassed prescription opioid (excluding fentanyl) overdoses in 2015.
- Whites and females aged 35-44 years had the highest rates of fatal prescription opioid (excluding fentanyl) overdose in 2015 (6.4 deaths and 10.4 deaths per 100,00 persons, respectively)
- The number of fatal fentanyl and/or heroin overdoses continued to increase, with a 33.4% rise in the number of deaths from 2014 to 2015.
- Out of all opioids (heroin, fentanyl, and prescription opioids), heroin was the most common opioid causing or contributing to death in fatal overdoses in 2015. Out of prescription opioids specifically, oxycodone remained the most common prescription opioid causing or contributing to a fatal overdose in 2015

Final thanks must go to the dedicated and caring staff of the Office of the Chief Medical Examiner who must everyday help grieving families navigate the tragedy of their loved one's death. Their commitment to our mission allows the Virginia OCME to remain a respected, model system for the nation.

Introduction

This report represents the deaths investigated by the Virginia Department of Health, Office of the Chief Medical Examiner in 2015.

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 2015 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. Therefore, 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 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
- Race/Ethnicity
 - 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 and/or Hispanic ethnicity (excluding White)
- 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 agency within the Virginia Department of Health. The OCME has 4 district offices, all 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, all of 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 another correctional institution, or 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, and
- Any other suspicious, unusual, or unnatural death

In Virginia, local medical examiners and medicolegal death investigators conducted medicolegal death investigations. Some local medical examiners served as the principal case investigators in their localities for deaths falling within the OCME's jurisdiction and statutory authority. In 2015, the OCME worked with approximately 164 local medical examiners that may have received initial notifications of death and determined if the death was under the jurisdiction of the OCME. After determining that a death was under their jurisdiction, local medical examiners may have investigated the death scene and circumstances, externally examined the body, collected toxicology samples, and signed the certificate of death. Using professionally established guidelines, they may have referred certain cases for more intensive death investigation and 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 district is staffed by American Board of Pathology certified forensic pathologists, investigators certified by the American Board of Medicolegal Death Investigators, administrative and morgue personnel. The Chief Medical Examiner is based in the Richmond office and is responsible for the overall operations of the state's medical examiner system.

The overall vision of the Virginia OCME is to be a model medical examiner system. There are two separate parts of the mission that form the core of OCME staff members' efforts in accomplishing this goal:

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 review
- 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 forensic pathologists 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 2015

In 2015, the estimated population of the Commonwealth was 8,382,993 persons. The average age of Virginia residents was 37.5 years and females represented 50.8% of the population. Whites constituted 63.9% of the population, Blacks 19.8%, Asians 6.9%, Native Americans 0.3% and Hispanics 9.0% of Virginia's people.

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 teams. Surveillance projects include the Family and Intimate Partner Violence Homicide Surveillance Project (FIPV), the Virginia Violent Death Reporting System (VVDRS), and the Pregnancy-Associated Mortality Surveillance System (PAMSS). Fatality review is performed on child and maternal deaths at the state level and on adult, child, and domestic violence related deaths at the local and regional level.

These activities are designed to provide a better understanding of the circumstances of death so that legislators, policy makers, and other stakeholders can make informed decisions for injury and violence prevention. Surveillance projects and fatality review teams allow for something good to come from violence and destruction of human life. A description of each of these efforts follows.

The Family and Intimate Partner Violence Homicide Surveillance Project (FIPV) was established in 1999 to describe the magnitude of lethal domestic violence in Virginia. Project staff members examine death investigation records and news reports to identify cases in which the alleged offender was an intimate partner or family member, or where the death was directly related to domestic violence. After cases are identified, they are placed in one of six violence-related homicide categories: intimate partner, intimate partner associated, child by caregiver, adult by caregiver, other family, and family associated. Information collected through this project is analyzed and published by the OCME.

A review of homicide data from 2015 indicates there were 97 Family and Intimate Partner (FIP) homicides that year, representing 25% of all homicides (388) in Virginia in 2015. This represents a 13% decrease in the

number of FIP homicides from 2014. While the percentage of homicides attributed to family or intimate partner violence remained consistent at roughly one in three between 2006 and 2013 (35% overall; see Figure), this percentage has decreased in both 2014 and 2015.

Sixteen years of data reveal the following trends:

- On average, one-third of all homicides are due to family or intimate partner conflict.
- Males and females are both vulnerable; however, women have a greater probability of being killed by current or former intimate partners, whereas males have a greater probability of being killed in the crossfire of an intimate partner relationship or by a family member.
- Racial disparities continue to exist: Black Virginians are at significantly greater risk for family and intimate partner homicide than white Virginians.
- Most victims are killed with a firearm and while in a private residence.
- Risk factors associated with intimate partner violence, such as prior acts of violence, substance abuse, and periods of separation or divorce, are also associated with intimate partner homicide.
- The majority of murder-suicide in Virginia is related to intimate partner conflict. Approximately 30% of intimate partner homicides involve the suicide of the alleged offender.

Data from the FIPV are disseminated to stakeholders and used to inform public policy and prevention activities. Annual reports from the Office of the Attorney General and the Family and Children's Trust Fund utilize FIPV data to describe family violence in Virginia. Over the past year, twelve entities have requested and received customized data reports from FIPV, allowing them to gain a greater understanding of the impact of fatal domestic violence in Virginia and in Virginia communities.

Published reports from this project are available at:

<http://www.vdh.virginia.gov/medical-examiner/fatality-review-surveillance-programs-reports/family-and-intimate-partner-homicide-surveillance/reports-and-publications/>

The Virginia Violent Death Reporting System (VVDRS) was implemented in 2003 as part of the National Violent Death Report 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 42 states as shown below.

The VVDRS collects information about deaths 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.

Data from the VVDRS have described suicide risk as it relates to entering nursing homes or long-term care facilities; violent death among persons who are homeless; how the nature and risk for homicide changes over the life course; violent deaths that occurred when the decedent was in jail, prison, or about to be arrested; and homicide and suicide in the workplace. VVDRS data are routinely used to support and inform Virginia's Statewide Suicide Prevention across the Lifespan plan. The Virginia Department of Behavioral Health and Developmental Services used VVDRS data to build a dashboard to support data informed suicide prevention and response efforts in Virginia communities.

VVDRS research and surveillance activities have also documented the following:

- Suicide is more common than homicide. In 2014, there were 328 homicide victims and 1,112 suicide decedents, a ratio of more than three completed suicides for each homicide.
- Suicide rates in Virginia continue to rise. In 2005, the suicide rate for Virginians over the age of 10 was 13.0 per 100,000 persons in the population. Five years later, in 2009, the rate was 13.9. In 2014, the suicide rate in Virginia had increased to 15.3 per 100,000 Virginia residents.
- In 2014, one in three suicide decedents was a Virginian 60 years of age or older.
- At the same time, the homicide rate in Virginia has dropped from a rate of 6.2 persons per 100,000 (in 2005) to a rate of 3.9 (in 2014). This reduction in the overall homicide rate is attributed to the decline in homicides among Black males. More than half (58%) of all homicide victims in Virginia in 2014 were Black males.
- Overall, mechanisms of fatal injury in violent deaths involve firearms (58%); hanging, suffocations or strangulation (17%); and poisons (13%). Firearm use is most frequent in legal interventions and homicides. Along with firearms, hanging, suffocation and strangulation deaths and those from the use of poisons are more common in deaths attributed to suicide.

Funded by the Centers for Disease Control and Prevention (CDC), VVDRS published reports on these topics and others are available at <http://www.vdh.virginia.gov/medical-examiner/fatality-review-surveillance-programs-reports/virginia-violent-death-reporting-system/>

The 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 preventive 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's attorneys, local fire and emergency medical services providers, injury prevention groups, child advocacy organizations, and state agencies.

The Team has completed reviews of child death in the following areas: firearm; suicide; unintentional injury to children under the age of five; caretaker homicide; motor vehicle collision; child deaths from heat-related motor vehicle entrapment; non-caretaker homicide; and sleep-related infant death.

In 2014, the Team began reviewing 2009-2013 child deaths due to poisoning. Preliminary data from that review includes:

- Between 2009 and 2013, 41 children aged 0-17 died from poisoning.
- Most deaths occurred in the Western OCME district (39%) or the Central district (24%). The Western region had a child poisoning death rate of 0.82 per 100,000, which was more than double the rate of any other region in Virginia.
- The majority (56%) of child poisonings were accidental in nature, followed by 22% that were undetermined and 17% that involved a suicide.
- Over half (56%) of the deaths were among males and roughly three of four (73%) were to white children.

- Most of the deaths were to teenagers aged 14-17 years (61%). Over one quarter of the deaths were to children aged 1-4 years (27%).
- A single drug or substance caused or contributed to the child's death in over half of the cases (59%) while multiple drugs or substances were involved in 39% of deaths.
- Prescription medications caused or contributed to death in 68% of cases, while an illicit drug such as heroin caused death in two cases.

Over the years, the Team 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, 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.

In 2012, Virginia established regional child fatality review teams in all five Virginia Department of Social Services (VDSS) regions in the Commonwealth. These teams review all child deaths investigated by a local department of social services for suspicions of abuse or neglect, regardless of the finding. The OCME provides training and technical assistance to these teams, assisting them with the theory and practice of effective child fatality review, developing guidance documents, and providing trainings for team members, coordinators and recorders. The OCME also assists these regional teams with the process of developing recommendations for intervention and prevention of child deaths as well as helping to improve data collection, entry, and quality assurance strategies. A summary of recent efforts by these local teams can be found at

[http://www.dss.virginia.gov/files/about/reports/children/cps/all_other/2015/VDSS CFRT Annual Report.pdf](http://www.dss.virginia.gov/files/about/reports/children/cps/all_other/2015/VDSS_CFRT_Annual_Report.pdf)

Child fatality review is supported by the Virginia Department of Health, Office of Family Services with Title V funds from the U.S. Department of Health and Human Services, Maternal and Child Health Bureau. Published reports are available at: <http://www.vdh.virginia.gov/medical-examiner/fatality-review-surveillance-programs-reports/child-fatality-review-in-virginia/>

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's Attorneys, social services, courts, probation and parole, domestic violence programs, mental health, and healthcare.

Virginia has made great progress in the area of domestic violence fatality review. Twenty local or regional teams have been established throughout the Commonwealth. Reports published by Virginia's teams provide information on the victims and perpetrators in these fatal incidents, as well as the lethality factors that shaped these tragedies. Teams have developed recommendations for improved community response when deadly violence occurs among family members or intimate partners.

The OCME continues its work with the Virginia Partnership for Community Defined Solutions to Sexual and Domestic Violence to interpret a statewide needs assessment on barriers to serving victims of sexual and domestic violence who identify as immigrants, persons with limited English proficiency, older adults, or African Americans. The OCME is using information learned during the assessment to develop resources for local fatality review teams to assist in more comprehensive review of fatalities involving these underserved victims.

The OCME also developed the Virginia Domestic Violence Fatality Review Information System (VAFRIS), a web-based database for use by local teams in collecting and reporting information gathered during the fatality review process. This innovative database houses more than 100 variables including demographics, criminal history, lethality risk factors, and community response assessment. Through guidance on data collection and templates for creating reports, VAFRIS provides an invaluable tool for teams in communicating fatality review

findings to their communities. Seventeen users representing eleven teams have now registered user accounts, with three teams already in the process of entering case data.

Information on Virginia's domestic violence fatality review effort, as well as links to state and national resources, can be found at <http://www.vdh.virginia.gov/medical-examiner/fatality-review-surveillance-programs-reports/domestic-violence-fatality-review/>.

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 indicates pregnancy-associated maternal death in Virginia remains a significant public health problem. Recent reports from PAMSS noted the following:

- In the ten year period between 2004 and 2013, the maternal mortality ratio in Virginia declined from 45.3 deaths per 100,000 live births to 36.3 deaths per 100,000 live births.
- The majority of pregnancy associated deaths in Virginia are from natural causes (53%) or from unintentional injury deaths (26%) such as motor vehicle collisions and drug overdoses. Common causes of natural death include cardiac disorders, infections, embolisms, and exacerbations of chronic disease.
- Black women in the United States and Virginia are known to suffer the greatest burden of pregnancy-associated death, a perplexing and consistently reported fact. In each of the 15 years of pregnancy-associated deaths reported in Virginia, the mortality ratio for Black women exceeded that for White women. The overall pregnancy-associated mortality ratio for the 15 year period between 1999 and 2014 was 80.8 per 100,000 live births among Black women and 34.5 per 100,000 live births among White women – Black women died at 2.3 times the rate of White women.

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 of 2002 as a partnership between the Office of Family Health Services and the OCME. The OCME provides coordination for

the Team. Virginia's Team is often asked to provide resources to other states considering undertaking maternal mortality reviews.

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 undertaken for the purpose of 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 the 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. Published reports are available at: <http://www.vdh.virginia.gov/medical-examiner/fatality-review-surveillance-programs-reports/virginia-pregnancy-associated-mortality-surveillance-system-pamss/> and at <http://www.vdh.virginia.gov/medical-examiner/fatality-review-surveillance-programs-reports/maternal-mortality-review-team/virginia-maternal-mortality-review-team-reports/>

These reports include:

- Pregnancy Associated Deaths From Drug Overdose in Virginia, 1999-2007. Published April, 2015.
- Pregnancy-Associated Death Due to Cancer in Virginia, 1999-2007. Published September, 2014.
- Motor Vehicle Collisions: The Leading Cause of Pregnancy-Associated Death in Virginia, Published April, 2014.
- Pregnancy-Associated Deaths from Heart Disorders and Related Conditions in Virginia, 1999-2004, Published: July, 2012.
- Pregnancy Related Deaths in Virginia, 1999-2003, Published November 2010.
- Obesity and Maternal Death in Virginia, 1999-2002, Published March, 2009.

- Pregnancy-Associated Maternal Death in Virginia, 1999-2001, Published October, 2007.

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. 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. These deaths include those from cardiac or neurological causes such as epilepsy or those attributed to Sudden Infant Death Syndrome (SIDS) and Sudden Unexpected Infant Death (SUID). Understanding the precise etiology of these deaths and defining who is at-risk is necessary as a first step to designing interventions and preventions to reduce these deaths. Virginia is one of 10 states participating in this national project.

Findings from Virginia's Sudden Death in the Young Project include the following:

- A total of 28 cases were identified in 2015, and 29 cases were identified for 2016.
- Males are no more likely than females to die an SDY death. However, black infants and children are at disproportionate risk for an SDY death, representing 56% of all SDY deaths for these two years.
- The majority of SDY deaths, 79% were of infants, and the majority of these infants deaths were related to unsafe sleep environments (60%), the presence of infectious diseases such as rhinovirus or parainfluenza virus (27%), and/or prematurity (11%).
- Roughly one in five SDY deaths, 21%, occurred among children ages 1 to 17. Causes of death among these children were related to drowning in 50% of cases and to myocarditis in an additional 33% of cases.

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. This information is used by both a multidisciplinary child fatality review team and a clinical review team. The project utilizes the VDSS Eastern region review team which is comprised of direct service providers in the areas of social services, law enforcement, education and child advocacy. Their role is to assess family protective and risk factors for each death, to evaluate the quality of agency response, and to identify

prevention strategies. The clinical review team is made up of pediatric neurologists, cardiologists, 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 see 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 Centers for Disease Control and Prevention (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. To date, 23% of families have consented to participate in the SDY Case Registry, and 11% have declined to participate.

Adult Fatality Review was established for Virginia localities effective July 1, 2015. Similar to child and domestic violence death review efforts, local communities may now convene such teams to examine deaths to 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. Stakeholders in Virginia cities and counties are exploring ways to implement these teams 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. Further information about these teams can be found at: <http://www.vdh.virginia.gov/medical-examiner/fatality-review-surveillance-programs-reports/adult-fatality-review/>

In Virginia, information learned from fatality review efforts will support the development of recommendations and information sharing with critical stakeholders to reduce injury and death.

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 twelve 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.

Current medical students may rotate through the OCME on a month long elective rotation. Pathology residents desiring exposure to forensic pathology as part of a general anatomic pathology program may also complete a month long rotation through the OCME. The residents are usually from the Virginia Commonwealth University and University of Virginia pathology programs, but residents from other in-state or out of state programs may be accepted for training. In addition to these rotations through the OCME, a forensic pathology training program is available and is designed to provide training and experience to physicians desiring 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 the great majority of 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 forensic pathology. Upon completion, the trainee will be ready to accept a position in all types of Medical Examiner/Coroner systems.

During the last academic year 2014-2015, the OCME trained two fellows as well as several pathology residents and medical students.

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:

	Central	Northern	Tidewater	Western	Total
TOTAL DEATHS STATEWIDE					
Total Deaths Reported to OCME	4520	2534	1975	2764	11793
OCME Cases by Examination Type					
Complete examinations (autopsy)	736	505	627	608	2476
External examination	1115	794	712	976	3597
Partial examination	73	101	4	0	178
TOTAL CASES ACCEPTED BY THE OCME					
	1924	1400	1343	1584	6251
OCME Cases by Manner of Death					
Accident	903	695	576	700	2874
Homicide	131	41	153	63	388
Natural	543	344	348	477	1712
Suicide	321	270	201	305	1097
Undetermined	26	50	65	39	180
TOTAL CASES ACCEPTED BY THE OCME					
	1924	1400	1343	1584	6251

	Central	Northern	Tidewater	Western	Total
Bodies transported by office	1924	1400	1343	1584	6251
Bodies transported to office	1257	954	811	896	3918
Cases with toxicology (including retro cases)	987	982	820	912	3701
Exhumations	0	0	0	0	0
Eye donations on OCME cases	10	30	116	15	171
Hospital autopsies under OCME jurisdiction	0	0	2	0	2
Organ and tissue donations on OCME cases	7	60	24	17	108
Retrospective cases (cases handled separately)	29	50	15	55	149
Scene visits	297	35	323	110	765
Unclaimed bodies	4	13	16	11	44
Unidentified bodies after examination	0	1	1	0	2

SECTION 1: TOTAL OCME CASES (N=6,251)

In 2015, the Office of the Chief Medical Examiner (OCME) investigated 11,793 deaths, which accounted for 18.2% of the estimated total deaths in Virginia. The OCME accepted 6,251 or 53.0% of these 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 2015, they may not necessarily have occurred in 2015]. The caseload for 2015 represented a 1.2% increase from 2014. Of the deaths investigated by the OCME in 2015:

- The number of accidents and homicides increased from 2014
- Blacks continue to share a higher burden 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 (68.9%) than females
- 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=456) and deaths by injury locality (n=474). Mathews County and Greensville County had the highest rates of death by residential locality and injury locality (214.4 and 328.1 per 100,000, respectively)

Figure 1.1 Number and Rate of OCME Cases by Year of Death, 1999-2015

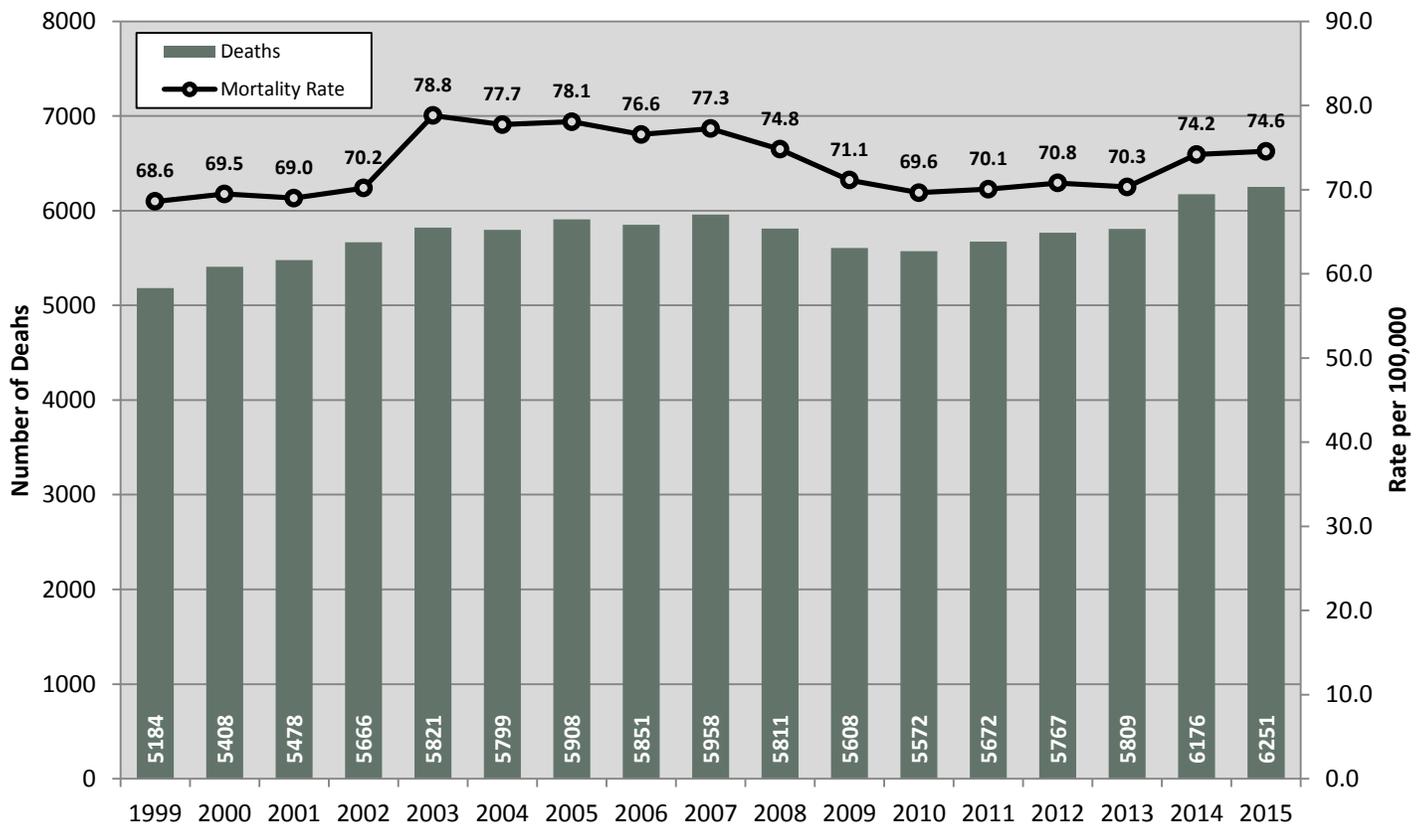


Figure 1.2 Number of OCME Cases by Manner of Death, 1999-2015

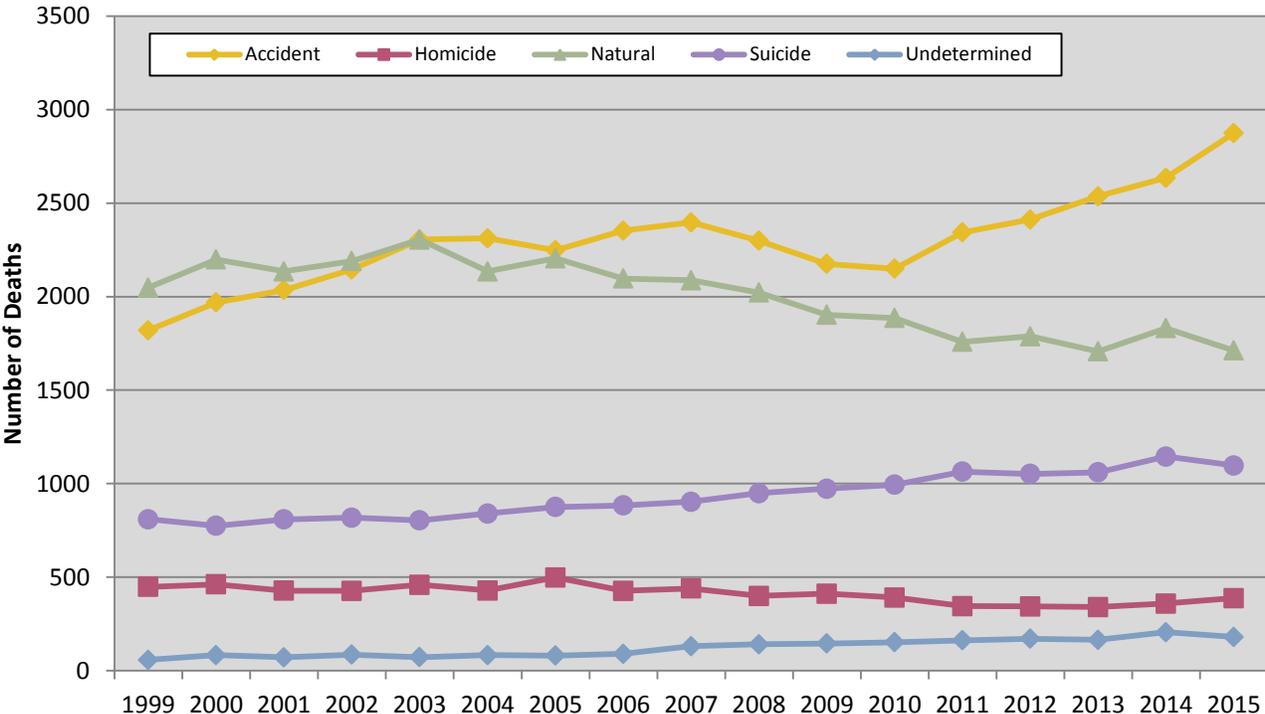


Figure 1.3 Percentage of OCME Cases by Manner of Death, 2015

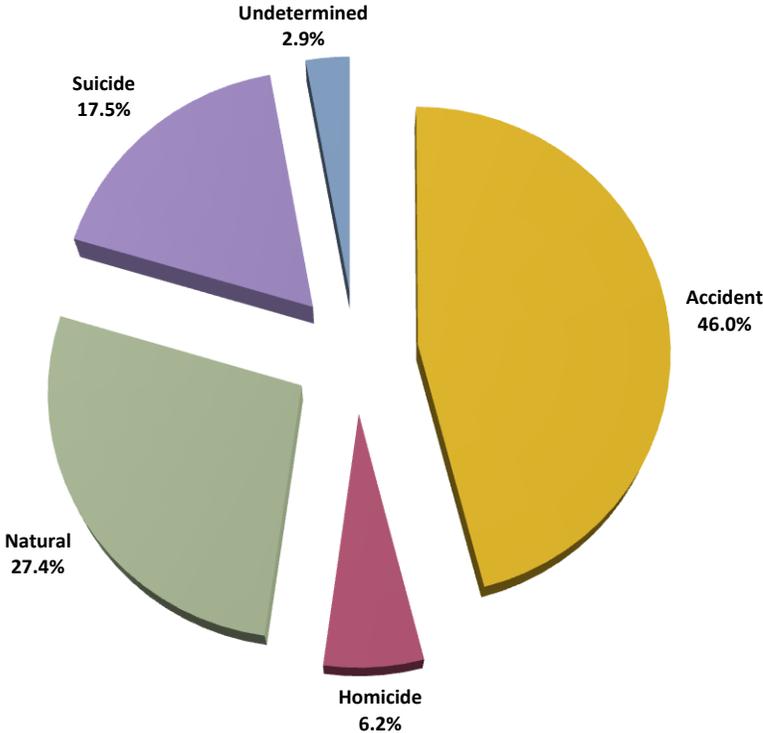


Table 1.1 Number of OCME Cases by District and Manner of Death, 2015

Manner	OCME District				Total
	Central	Northern	Tidewater	Western	
Accident	903	695	576	700	2874
Homicide	131	41	153	63	388
Natural	543	344	348	477	1712
Suicide	321	270	201	305	1097
Undetermined	26	50	65	39	180
TOTAL	1924	1400	1343	1584	6251

Table 1.2 Number of OCME Cases by Autopsy Status and District, 2015

OCME District	Autopsy Performed		Total
	Yes	No	
Central	809	1115	1924
Northern	606	794	1400
Tidewater	631	712	1343
Western	608	976	1584
TOTAL	2654	3597	6251

Table 1.3 Number of OCME Cases by Manner of Death and Autopsy Status, 2015

Autopsy	Manner of Death					Total
	Accident	Homicide	Natural	Suicide	Undetermined	
Yes	823	387	517	761	166	2654
No	2051	1	1195	336	14	3597
% Yes	28.6%	99.7%	30.2%	69.4%	92.2%	42.5%
TOTAL	2874	388	1712	1097	180	6251

Table 1.4 Number and Percentage of OCME Cases by Race/Ethnicity, 2015

Race/Ethnicity	Cases	Percent
Asian	112	1.8%
Black	1319	21.1%
Hispanic	165	2.6%
Native American	5	0.1%
White	4548	72.8%
Other	100	1.6%
Unknown	2	0.0%
TOTAL	6251	100.0%

Figure 1.4 Number of OCME Cases by Manner of Death and Race/Ethnicity, 2015

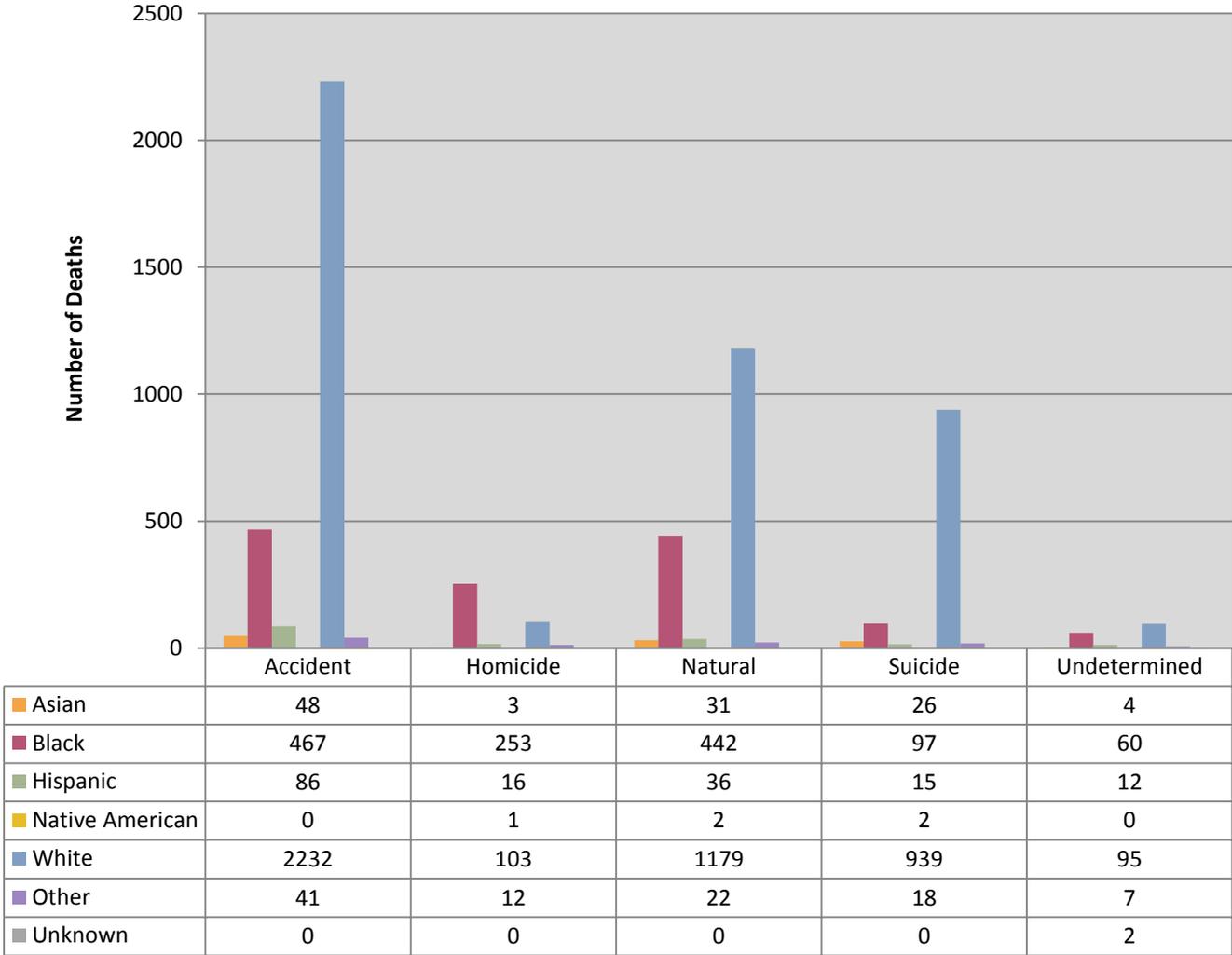


Figure 1.5 Number of OCME Cases by Age Group, 2015

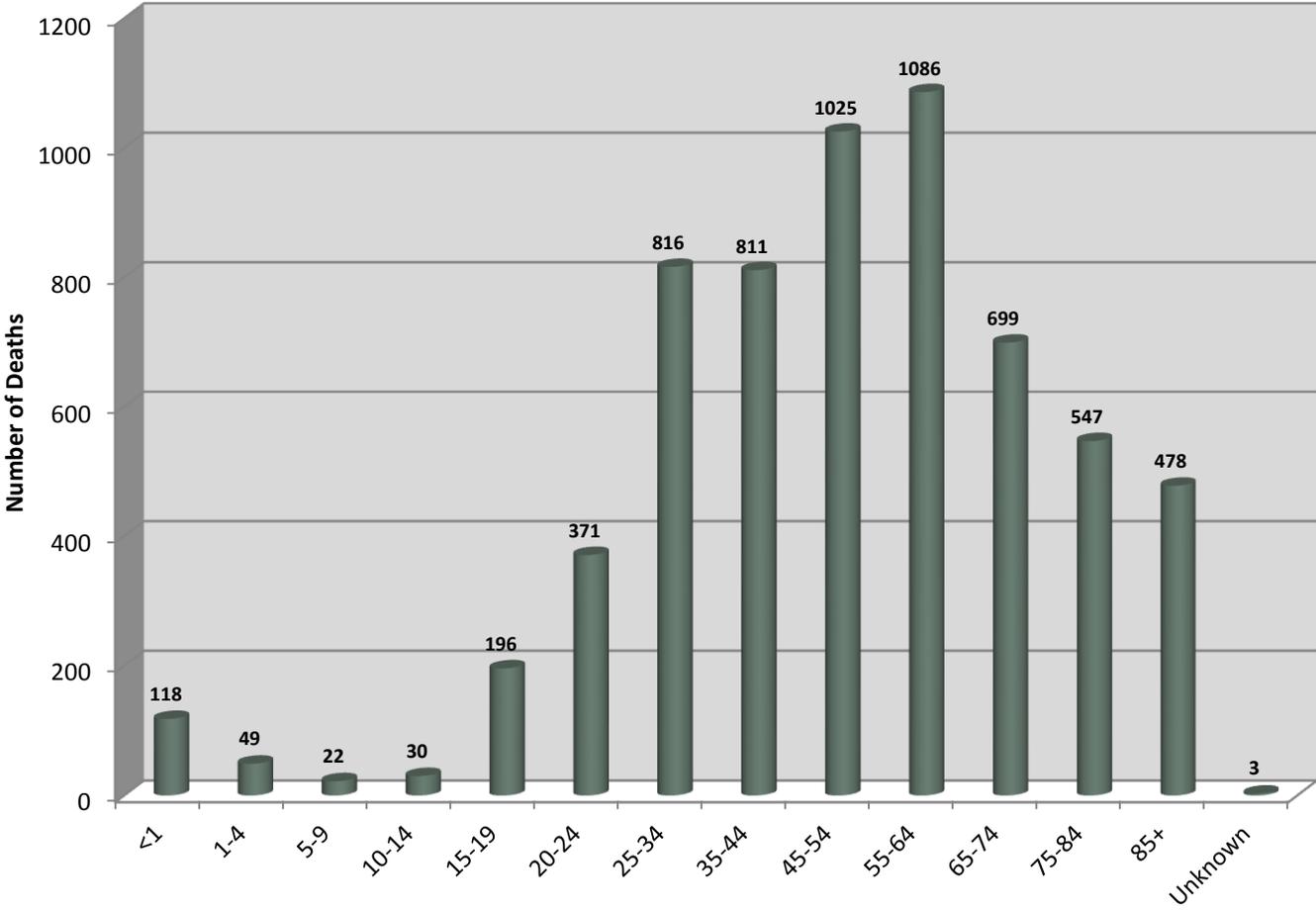


Table 1.5 Number and Percentage of OCME Cases by Gender, 2015

Gender	Cases	Percent
Female	1944	31.1%
Male	4306	68.9%
Unknown	1	0.0%
TOTAL	6251	100.0%

Table 1.6 Number and Percentage of OCME Cases by Manner of Death and Gender, 2015

Gender	Accident		Homicide		Natural		Suicide		Undetermined		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Female	1006	16.1%	83	1.3%	525	8.4%	251	4.0%	79	1.3%	1944	31.1%
Male	1868	29.9%	305	4.9%	1187	19.0%	846	13.5%	100	1.6%	4306	68.9%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	1	0.0%
TOTAL	2874	46.0%	388	6.2%	1712	27.4%	1097	17.5%	180	2.9%	6251	100.0%

Figure 1.6 Number and Rate of OCME Cases by Manner of Death and Gender, 2015

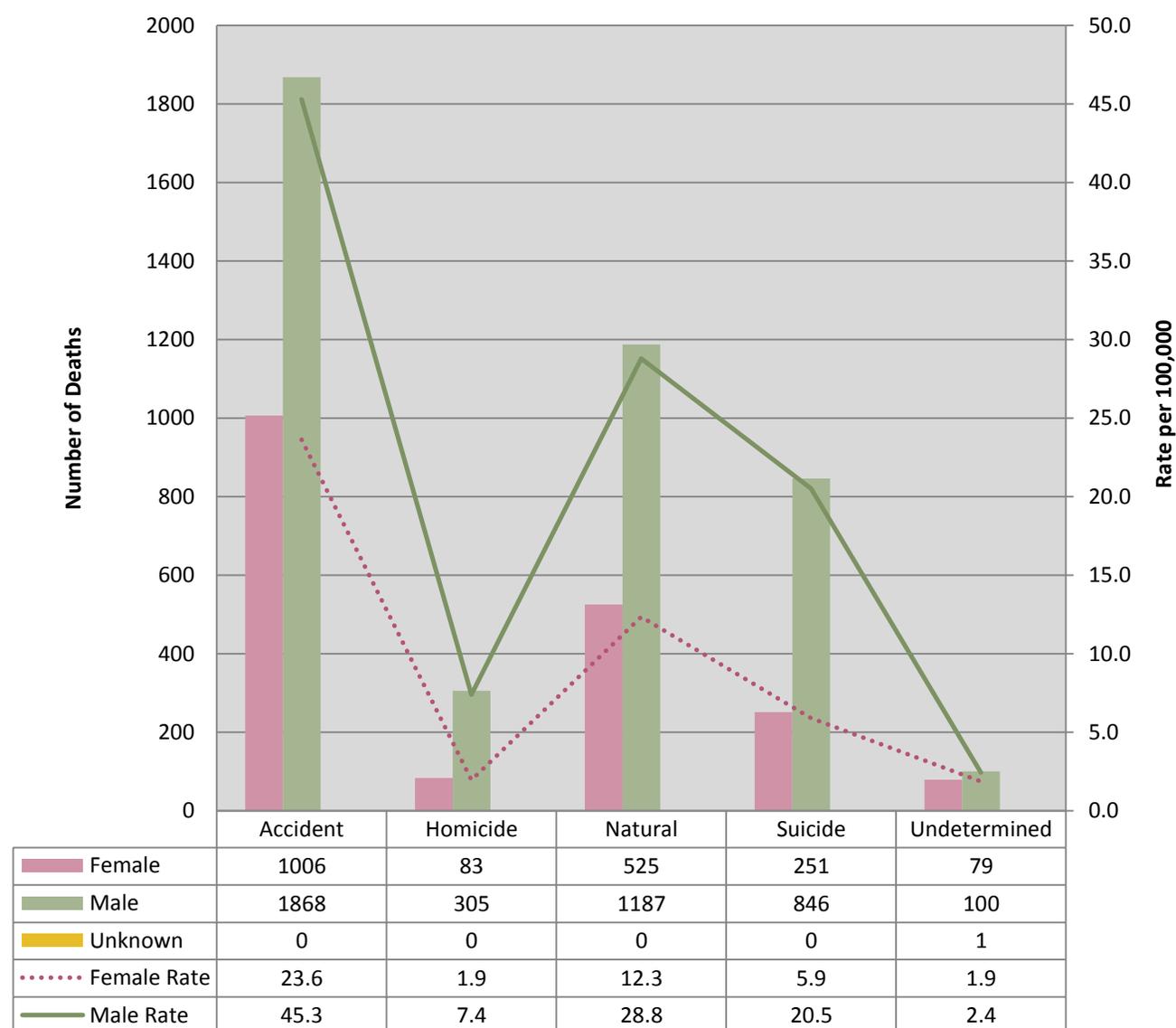


Table 1.7 Number of OCME Cases by Manner of Death, Gender, and Age Group, 2015

Gender	Age Group	Manner of Death					Total
		Accident	Homicide	Natural	Suicide	Undetermined	
FEMALE	<1	11	2	5	0	37	55
	1-4	9	6	2	0	0	17
	5-9	12	0	2	0	0	14
	10-14	8	2	4	3	0	17
	15-19	29	5	6	11	1	52
	20-24	38	14	3	11	3	69
	25-34	122	17	33	35	10	217
	35-44	114	10	54	35	9	222
	45-54	111	8	96	67	9	291
	55-64	105	10	108	52	5	280
	65-74	87	3	90	24	3	207
	75-84	150	6	65	10	1	232
	85+	210	0	57	3	0	270
	Unknown	0	0	0	0	1	1
	Subtotal		1006	83	525	251	79
MALE	<1	13	4	6	0	40	63
	1-4	17	8	4	0	3	32
	5-9	7	0	0	0	1	8
	10-14	8	1	1	3	0	13
	15-19	53	30	15	40	6	144
	20-24	130	67	17	81	7	302
	25-34	302	87	63	133	14	599
	35-44	286	43	122	129	9	589
	45-54	292	32	251	152	7	734
	55-64	254	21	378	146	7	806
	65-74	171	10	206	100	5	492
	75-84	182	2	87	44	0	315
	85+	153	0	37	18	0	208
	Unknown	0	0	0	0	1	1
	Subtotal		1868	305	1187	846	100
UNKNOWN	Unknown	0	0	0	0	1	1
	Subtotal	0	0	0	0	1	1
TOTAL		2874	388	1712	1097	180	6251

Figure 1.7 Number of OCME Cases by Month of Death, 2015



Figure 1.8 Number of OCME Cases by Month and Manner of Death, 2015

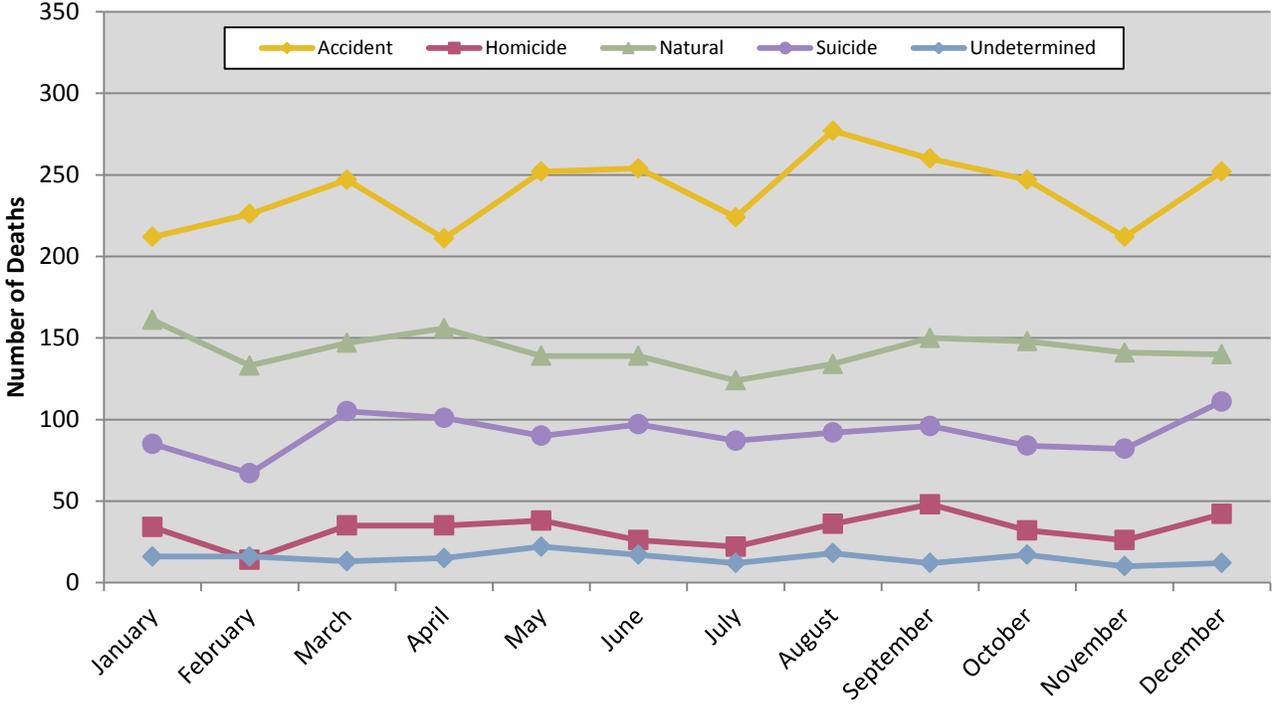


Figure 1.9 Number of OCME Cases by Day of Death, 2015

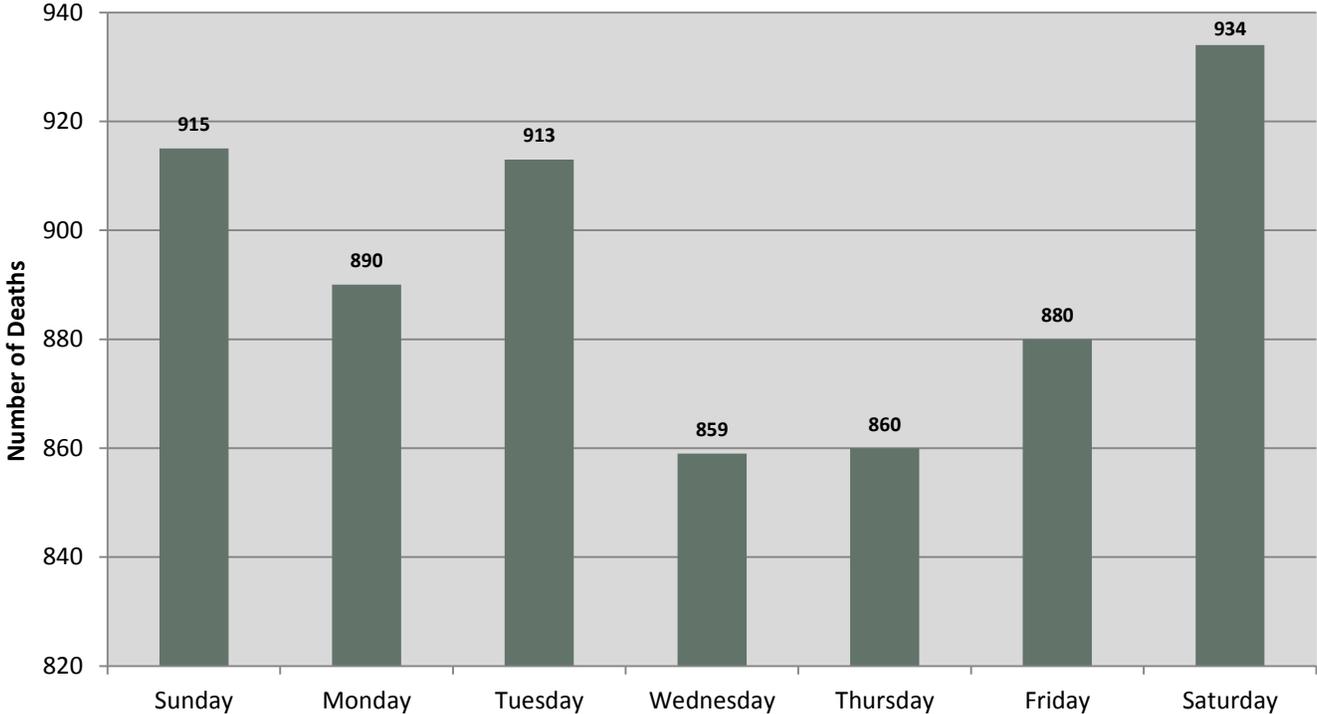


Figure 1.10 Number of OCME Cases by Day and Manner of Death, 2015

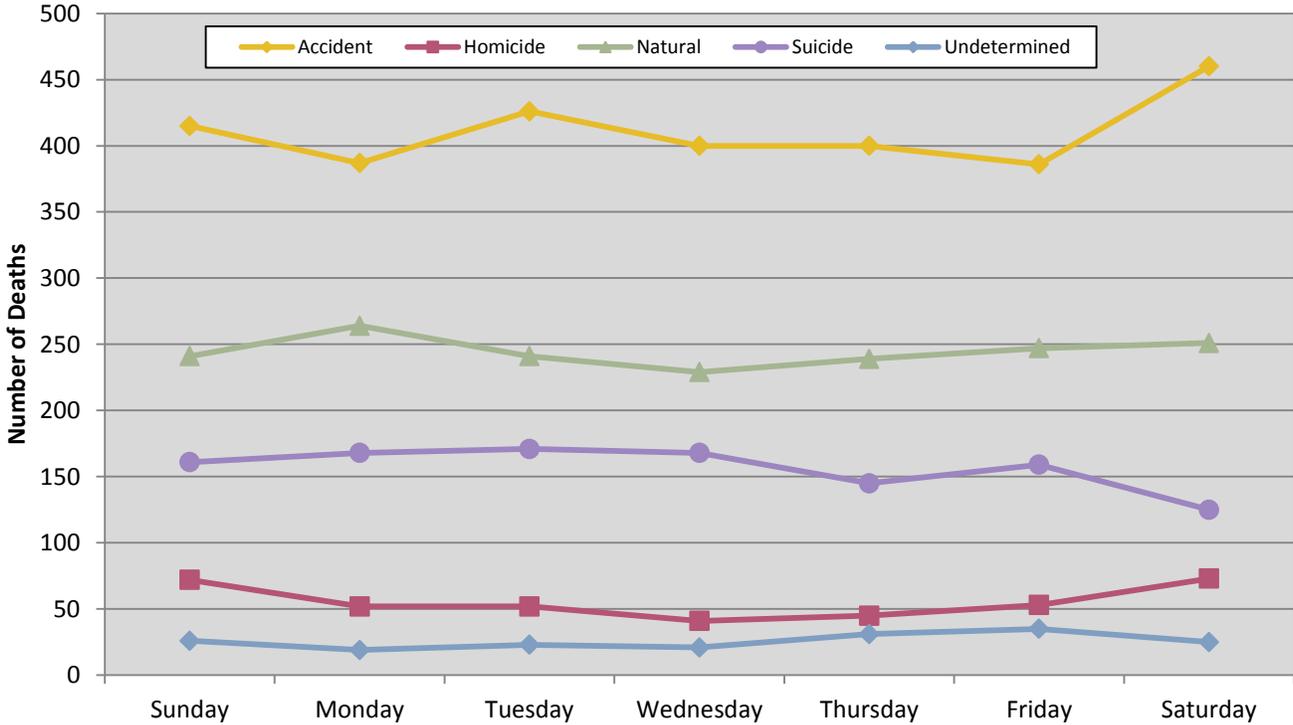


Table 1.8 Number and Rate of OCME Cases by Manner of Death and Locality of Residence, 2015

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	10	30.3	5	15.2	9	27.3	9	27.3	0	0.0	33	100.1
Albemarle County	41	38.8	1	0.9	11	10.4	12	11.4	1	0.9	66	62.4
Alexandria City	29	18.9	3	2.0	15	9.8	11	7.2	3	2.0	61	39.7
Alleghany County	8	51.0	0	0.0	2	12.8	3	19.1	0	0.0	13	82.9
Amelia County	5	38.8	0	0.0	4	31.0	6	46.5	0	0.0	15	116.3
Amherst County	5	15.7	1	3.1	26	81.5	2	6.3	0	0.0	34	106.5
Appomattox County	6	38.9	3	19.5	2	13.0	7	45.4	0	0.0	18	116.8
Arlington County	34	14.8	2	0.9	29	12.7	11	4.8	1	0.4	77	33.6
Augusta County	12	16.1	1	1.3	12	16.1	16	21.5	0	0.0	41	55.2
Bath County	0	0.0	0	0.0	1	22.4	1	22.4	0	0.0	2	44.7
Bedford County	35	45.0	3	3.9	21	27.0	20	25.7	0	0.0	79	101.6
Bland County	4	61.0	0	0.0	2	30.5	1	15.2	0	0.0	7	106.7
Botetourt County	13	39.0	1	3.0	3	9.0	6	18.0	1	3.0	24	72.0
Bristol City	1	5.8	0	0.0	5	29.2	0	0.0	0	0.0	6	35.0
Brunswick County	7	41.9	0	0.0	6	35.9	3	18.0	0	0.0	16	95.8
Buchanan County	18	79.0	1	4.4	6	26.3	5	22.0	2	8.8	32	140.5
Buckingham County	6	35.2	0	0.0	8	47.0	2	11.7	1	5.9	17	99.8
Buena Vista City	3	45.3	0	0.0	2	30.2	0	0.0	1	15.1	6	90.7
Campbell County	29	52.6	1	1.8	19	34.5	14	25.4	2	3.6	65	118.0
Caroline County	22	73.4	3	10.0	10	33.4	3	10.0	1	3.3	39	130.1
Carroll County	10	33.6	0	0.0	14	47.1	8	26.9	2	6.7	34	114.4
Charles City County	3	42.6	0	0.0	2	28.4	2	28.4	1	14.2	8	113.6
Charlotte County	6	49.2	2	16.4	3	24.6	2	16.4	0	0.0	13	106.5
Charlottesville City	15	32.2	2	4.3	6	12.9	3	6.4	0	0.0	26	55.8
Chesapeake City	92	39.1	17	7.2	37	15.7	39	16.6	6	2.5	191	81.1
Chesterfield County	97	28.9	14	4.2	63	18.8	34	10.1	2	0.6	210	62.6
Clarke County	3	20.9	0	0.0	2	13.9	6	41.8	0	0.0	11	76.6
Colonial Heights City	4	22.4	2	11.2	5	28.1	4	22.4	0	0.0	15	84.2

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
Covington City	3	53.0	0	0.0	1	17.7	2	35.3	0	0.0	6	106.0
Craig County	2	38.4	0	0.0	3	57.6	1	19.2	0	0.0	6	115.1
Culpeper County	19	38.4	1	2.0	6	12.1	8	16.2	3	6.1	37	74.9
Cumberland County	7	72.0	0	0.0	2	20.6	0	0.0	0	0.0	9	92.6
Danville City	18	42.8	5	11.9	23	54.7	3	7.1	5	11.9	54	128.3
Dickenson County	11	72.8	0	0.0	5	33.1	3	19.8	0	0.0	19	125.7
Dinwiddie County	7	25.1	3	10.8	9	32.3	10	35.9	0	0.0	29	104.1
Emporia City	2	36.4	0	0.0	1	18.2	0	0.0	0	0.0	3	54.6
Essex County	5	44.9	2	18.0	2	18.0	0	0.0	0	0.0	9	80.9
Fairfax City	5	20.8	0	0.0	1	4.2	5	20.8	0	0.0	11	45.8
Fairfax County	238	20.8	15	1.3	105	9.2	80	7.0	18	1.6	456	39.9
Falls Church City	0	0.0	1	7.2	1	7.2	0	0.0	0	0.0	2	14.4
Fauquier County	42	61.1	1	1.5	15	21.8	8	11.6	1	1.5	67	97.4
Floyd County	12	76.7	0	0.0	6	38.3	4	25.6	0	0.0	22	140.6
Fluvanna County	13	49.6	1	3.8	6	22.9	1	3.8	0	0.0	21	80.0
Franklin City	6	70.7	0	0.0	1	11.8	0	0.0	0	0.0	7	82.4
Franklin County	20	35.5	8	14.2	15	26.7	10	17.8	2	3.6	55	97.8
Frederick County	40	48.1	2	2.4	18	21.6	18	21.6	0	0.0	78	93.8
Fredericksburg City	12	42.7	1	3.6	7	24.9	5	17.8	0	0.0	25	88.9
Galax City	2	28.9	0	0.0	2	28.9	2	28.9	1	14.5	7	101.2
Giles County	10	59.9	1	6.0	7	41.9	1	6.0	1	6.0	20	119.7
Gloucester County	10	26.9	0	0.0	5	13.5	14	37.7	1	2.7	30	80.8
Goochland County	8	36.0	2	9.0	7	31.5	6	27.0	0	0.0	23	103.4
Grayson County	6	37.5	1	6.2	3	18.7	3	18.7	0	0.0	13	81.2
Greene County	5	26.1	0	0.0	3	15.7	1	5.2	0	0.0	9	47.0
Greensville County	2	16.8	2	16.8	19	159.9	0	0.0	0	0.0	23	193.5
Halifax County	14	39.9	1	2.8	11	31.3	7	19.9	1	2.8	34	96.8
Hampton City	45	33.0	22	16.1	28	20.5	13	9.5	7	5.1	115	84.3
Hanover County	34	32.9	2	1.9	15	14.5	12	11.6	0	0.0	63	61.0
Harrisonburg City	7	13.3	0	0.0	4	7.6	3	5.7	0	0.0	14	26.6

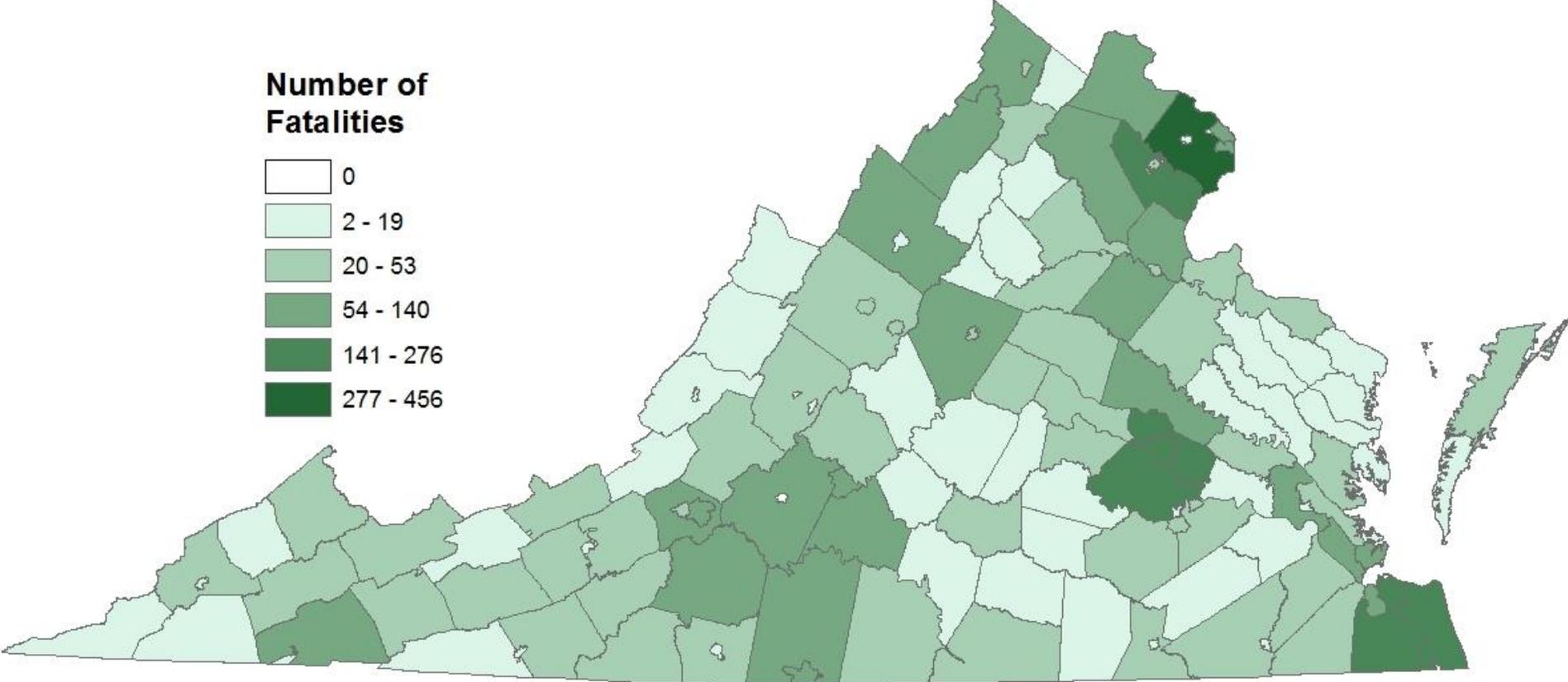
Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Henrico County	108	33.2	12	3.7	46	14.1	41	12.6	4	1.2	211	64.9
Henry County	23	44.3	4	7.7	15	28.9	11	21.2	0	0.0	53	102.2
Highland County	2	90.3	0	0.0	0	0.0	1	45.2	0	0.0	3	135.5
Hopewell City	13	58.1	3	13.4	5	22.3	4	17.9	0	0.0	25	111.7
Isle of Wight County	12	33.0	0	0.0	6	16.5	6	16.5	1	2.8	25	68.8
James City County	33	45.1	4	5.5	14	19.1	10	13.7	2	2.7	63	86.1
King and Queen County	1	14.0	0	0.0	0	0.0	1	14.0	0	0.0	2	27.9
King George County	11	43.1	2	7.8	5	19.6	3	11.8	0	0.0	21	82.3
King William County	7	43.0	1	6.1	2	12.3	5	30.7	0	0.0	15	92.2
Lancaster County	5	45.6	0	0.0	4	36.5	4	36.5	0	0.0	13	118.6
Lee County	5	20.2	0	0.0	6	24.3	5	20.2	0	0.0	16	64.7
Lexington City	1	13.8	0	0.0	1	13.8	1	13.8	0	0.0	3	41.3
Loudoun County	50	13.3	3	0.8	28	7.5	37	9.9	1	0.3	119	31.7
Louisa County	12	34.7	0	0.0	8	23.1	5	14.5	1	2.9	26	75.1
Lunenburg County	6	48.8	0	0.0	2	16.3	4	32.5	0	0.0	12	97.6
Lynchburg City	27	33.8	2	2.5	16	20.0	8	10.0	1	1.3	54	67.7
Madison County	7	53.3	1	7.6	4	30.5	6	45.7	1	7.6	19	144.7
Manassas City	11	26.3	0	0.0	7	16.8	5	12.0	2	4.8	25	59.9
Manassas Park City	0	0.0	0	0.0	1	6.4	2	12.7	0	0.0	3	19.1
Martinsville City	6	44.0	0	0.0	2	14.7	3	22.0	1	7.3	12	87.9
Mathews County	12	135.4	0	0.0	4	45.1	3	33.9	0	0.0	19	214.4
Mecklenburg County	12	38.6	1	3.2	11	35.4	4	12.9	0	0.0	28	90.1
Middlesex County	5	47.1	0	0.0	5	47.1	3	28.3	0	0.0	13	122.6
Montgomery County	16	16.4	3	3.1	15	15.4	10	10.2	1	1.0	45	46.1
Nelson County	5	33.8	0	0.0	4	27.1	2	13.5	0	0.0	11	74.4
New Kent County	13	63.8	0	0.0	4	19.6	4	19.6	0	0.0	21	103.0
Newport News City	53	29.1	18	9.9	40	21.9	20	11.0	9	4.9	140	76.8
Norfolk City	80	32.5	39	15.8	69	28.0	24	9.7	10	4.1	222	90.1
Northampton County	1	8.2	2	16.5	2	16.5	3	24.7	2	16.5	10	82.3
Northumberland County	4	32.7	0	0.0	2	16.4	1	8.2	0	0.0	7	57.2

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
Norton City	2	50.8	0	0.0	0	0.0	0	0.0	0	0.0	2	50.8
Nottoway County	7	44.7	0	0.0	6	38.3	3	19.1	1	6.4	17	108.5
Orange County	13	36.7	0	0.0	8	22.6	11	31.1	0	0.0	32	90.4
Page County	8	33.7	1	4.2	4	16.9	4	16.9	1	4.2	18	75.9
Patrick County	9	49.9	2	11.1	7	38.8	4	22.2	0	0.0	22	121.9
Petersburg City	9	27.7	13	40.0	21	64.7	1	3.1	1	3.1	45	138.6
Pittsylvania County	28	45.0	1	1.6	18	28.9	9	14.5	3	4.8	59	94.9
Poquoson City	2	16.6	0	0.0	2	16.6	0	0.0	0	0.0	4	33.2
Portsmouth City	43	44.7	22	22.9	25	26.0	14	14.6	8	8.3	112	116.4
Powhatan County	12	42.8	2	7.1	12	42.8	6	21.4	0	0.0	32	114.2
Prince Edward County	12	52.3	1	4.4	3	13.1	5	21.8	0	0.0	21	91.5
Prince George County	9	23.8	0	0.0	6	15.8	9	23.8	0	0.0	24	63.4
Prince William County	79	17.5	9	2.0	42	9.3	35	7.7	3	0.7	168	37.2
Pulaski County	16	46.6	0	0.0	12	35.0	4	11.7	2	5.8	34	99.0
Radford City	3	17.2	0	0.0	0	0.0	1	5.7	0	0.0	4	23.0
Rappahannock County	3	40.7	0	0.0	0	0.0	2	27.1	0	0.0	5	67.8
Richmond City	82	37.2	41	18.6	48	21.8	16	7.3	6	2.7	193	87.6
Richmond County	3	33.7	0	0.0	3	33.7	0	0.0	0	0.0	6	67.4
Roanoke City	54	54.1	10	10.0	32	32.0	13	13.0	2	2.0	111	111.1
Roanoke County	35	37.1	1	1.1	19	20.1	16	16.9	1	1.1	72	76.3
Rockbridge County	17	76.0	1	4.5	4	17.9	6	26.8	0	0.0	28	125.3
Rockingham County	35	44.5	1	1.3	22	28.0	19	24.2	1	1.3	78	99.2
Russell County	12	43.0	0	0.0	7	25.1	5	17.9	0	0.0	24	86.0
Salem City	6	23.6	4	15.7	7	27.5	5	19.7	0	0.0	22	86.5
Scott County	4	18.1	0	0.0	9	40.7	4	18.1	0	0.0	17	76.8
Shenandoah County	28	64.8	0	0.0	16	37.0	8	18.5	2	4.6	54	125.0
Smyth County	14	44.5	0	0.0	9	28.6	4	12.7	1	3.2	28	89.0
Southampton County	6	33.1	0	0.0	13	71.8	2	11.0	0	0.0	21	116.0
Spotsylvania County	55	42.2	2	1.5	17	13.0	16	12.3	2	1.5	92	70.5
Stafford County	42	29.6	3	2.1	13	9.2	20	14.1	2	1.4	80	56.3

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
Staunton City	9	36.9	0	0.0	9	36.9	2	8.2	1	4.1	21	86.0
Suffolk City	23	26.1	2	2.3	12	13.6	11	12.5	2	2.3	50	56.7
Surry County	2	29.8	1	14.9	3	44.7	0	0.0	0	0.0	6	89.4
Sussex County	1	8.5	1	8.5	8	68.3	1	8.5	0	0.0	11	93.9
Tazewell County	16	37.3	1	2.3	12	28.0	12	28.0	2	4.7	43	100.2
Virginia Beach City	129	28.5	14	3.1	77	17.0	46	10.2	10	2.2	276	61.0
Warren County	15	38.4	0	0.0	9	23.0	5	12.8	0	0.0	29	74.2
Washington County	21	38.5	1	1.8	18	33.0	13	23.8	1	1.8	54	98.9
Waynesboro City	16	74.4	1	4.7	2	9.3	6	27.9	1	4.7	26	121.0
Westmoreland County	14	79.4	2	11.3	8	45.4	1	5.7	0	0.0	25	141.8
Williamsburg City	1	6.6	0	0.0	3	19.9	0	0.0	0	0.0	4	26.6
Winchester City	14	51.3	1	3.7	7	25.7	5	18.3	5	18.3	32	117.3
Wise County	16	40.3	3	7.6	13	32.7	8	20.1	2	5.0	42	105.7
Wythe County	20	68.7	0	0.0	6	20.6	9	30.9	0	0.0	35	120.2
York County	12	17.7	2	2.9	10	14.7	8	11.8	0	0.0	32	47.2
Subtotal (in-state)	2621	31.3	371	4.4	1566	18.7	1055	12.6	160	1.9	5773	69.0
Out of State	237	ND	16	ND	138	ND	38	ND	18	ND	447	ND
Unknown	16	ND	1	ND	8	ND	4	ND	2	ND	31	ND
Subtotal (out-of-state)	253	ND	17	ND	146	ND	42	ND	20	ND	478	ND
TOTAL	2868	34.2	388	4.6	1710	20.4	1097	13.1	188	2.2	6251	74.6

Note: No denominator is represented by ND

Map 1.1 Number of OCME Cases by Locality of Residence, 2015



Map 1.2 Rates of OCME Cases by Locality of Residence, 2015

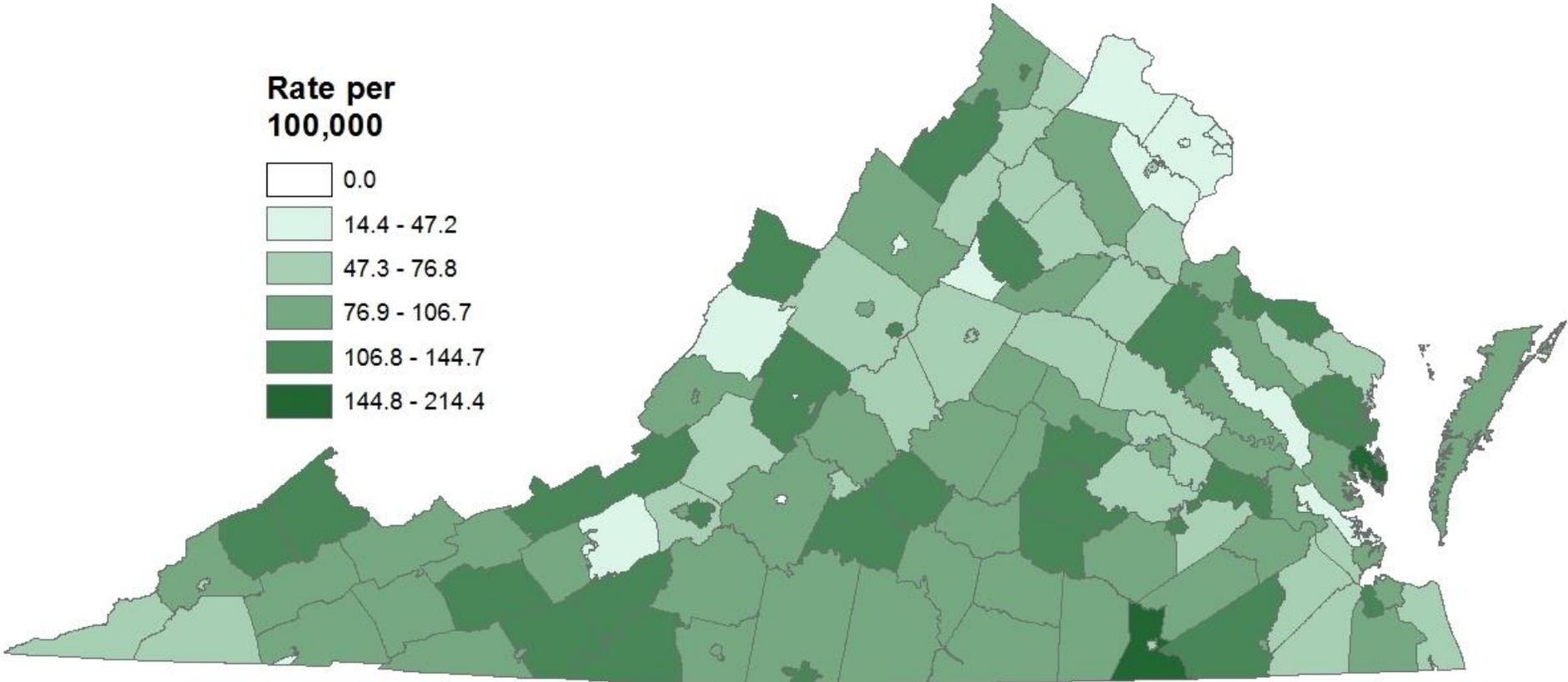


Table 1.9 Number and Rate of OCME Cases by Manner of Death and Locality of Injury, 2015

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	10	30.3	4	12.1	11	33.4	9	27.3	0	0.0	34	103.1
Albemarle County	40	37.8	1	0.9	12	11.4	11	10.4	1	0.9	65	61.5
Alexandria City	31	20.2	3	2.0	23	15.0	10	6.5	4	2.6	71	46.3
Alleghany County	7	44.7	0	0.0	2	12.8	3	19.1	0	0.0	12	76.5
Amelia County	6	46.5	0	0.0	4	31.0	6	46.5	0	0.0	16	124.0
Amherst County	9	28.2	1	3.1	26	81.5	2	6.3	0	0.0	38	119.1
Appomattox County	4	26.0	3	19.5	2	13.0	8	51.9	0	0.0	17	110.3
Arlington County	34	14.8	2	0.9	32	14.0	11	4.8	1	0.4	80	34.9
Augusta County	23	30.9	2	2.7	13	17.5	15	20.2	0	0.0	53	71.3
Bath County	1	22.4	0	0.0	2	44.7	2	44.7	0	0.0	5	111.9
Bedford County	31	39.9	3	3.9	20	25.7	15	19.3	0	0.0	69	88.8
Bland County	3	45.7	0	0.0	3	45.7	2	30.5	1	15.2	9	137.2
Botetourt County	20	60.0	0	0.0	4	12.0	9	27.0	1	3.0	34	102.0
Bristol City	2	11.7	0	0.0	5	29.2	0	0.0	0	0.0	7	40.8
Brunswick County	12	71.9	0	0.0	6	35.9	2	12.0	0	0.0	20	119.8
Buchanan County	15	65.9	1	4.4	6	26.3	5	22.0	2	8.8	29	127.3
Buckingham County	3	17.6	0	0.0	6	35.2	2	11.7	1	5.9	12	70.5
Buena Vista City	2	30.2	0	0.0	2	30.2	0	0.0	1	15.1	5	75.6
Campbell County	23	41.8	1	1.8	20	36.3	12	21.8	2	3.6	58	105.3
Caroline County	19	63.4	4	13.3	11	36.7	4	13.3	0	0.0	38	126.7
Carroll County	14	47.1	0	0.0	15	50.5	8	26.9	2	6.7	39	131.2
Charles City County	4	56.8	0	0.0	2	28.4	2	28.4	1	14.2	9	127.8
Charlotte County	7	57.4	2	16.4	2	16.4	3	24.6	0	0.0	14	114.7
Charlottesville City	18	38.6	2	4.3	9	19.3	5	10.7	0	0.0	34	73.0
Chesapeake City	86	36.5	10	4.2	34	14.4	36	15.3	4	1.7	170	72.2
Chesterfield County	97	28.9	10	3.0	57	17.0	31	9.2	2	0.6	197	58.7
Clarke County	6	41.8	0	0.0	3	20.9	8	55.7	1	7.0	18	125.3
Colonial Heights City	3	16.8	1	5.6	5	28.1	4	22.4	0	0.0	13	73.0

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
Covington City	1	17.7	0	0.0	1	17.7	2	35.3	0	0.0	4	70.7
Craig County	2	38.4	0	0.0	2	38.4	2	38.4	0	0.0	6	115.1
Culpeper County	19	38.4	1	2.0	5	10.1	9	18.2	3	6.1	37	74.9
Cumberland County	6	61.7	0	0.0	2	20.6	0	0.0	0	0.0	8	82.3
Danville City	17	40.4	6	14.3	22	52.3	3	7.1	5	11.9	53	125.9
Dickenson County	11	72.8	0	0.0	4	26.5	4	26.5	0	0.0	19	125.7
Dinwiddie County	12	43.1	1	3.6	8	28.7	7	25.1	0	0.0	28	100.5
Emporia City	2	36.4	1	18.2	2	36.4	0	0.0	0	0.0	5	91.0
Essex County	5	44.9	1	9.0	3	27.0	0	0.0	1	9.0	10	89.8
Fairfax City	6	25.0	0	0.0	0	0.0	7	29.2	0	0.0	13	54.1
Fairfax County	243	21.3	13	1.1	112	9.8	85	7.4	21	1.8	474	41.5
Falls Church City	0	0.0	0	0.0	1	7.2	0	0.0	0	0.0	1	7.2
Fauquier County	50	72.7	1	1.5	16	23.3	11	16.0	1	1.5	79	114.9
Floyd County	10	63.9	0	0.0	6	38.3	3	19.2	0	0.0	19	121.4
Fluvanna County	13	49.6	1	3.8	7	26.7	1	3.8	0	0.0	22	83.9
Franklin City	4	47.1	1	11.8	2	23.6	0	0.0	0	0.0	7	82.4
Franklin County	19	33.8	9	16.0	17	30.2	10	17.8	2	3.6	57	101.3
Frederick County	40	48.1	2	2.4	20	24.0	14	16.8	2	2.4	78	93.8
Fredericksburg City	22	78.2	6	21.3	6	21.3	9	32.0	0	0.0	43	152.9
Galax City	2	28.9	0	0.0	2	28.9	2	28.9	1	14.5	7	101.2
Giles County	10	59.9	0	0.0	7	41.9	1	6.0	0	0.0	18	107.7
Gloucester County	11	29.6	0	0.0	8	21.5	14	37.7	1	2.7	34	91.5
Goochland County	12	53.9	1	4.5	6	27.0	7	31.5	0	0.0	26	116.8
Grayson County	5	31.2	1	6.2	4	25.0	1	6.2	0	0.0	11	68.7
Greene County	5	26.1	0	0.0	3	15.7	1	5.2	0	0.0	9	47.0
Greensville County	5	42.1	2	16.8	32	269.2	0	0.0	0	0.0	39	328.1
Halifax County	15	42.7	1	2.8	11	31.3	7	19.9	1	2.8	35	99.6
Hampton City	35	25.6	14	10.3	27	19.8	15	11.0	7	5.1	98	71.8
Hanover County	32	31.0	3	2.9	15	14.5	13	12.6	0	0.0	63	61.0
Harrisonburg City	9	17.1	1	1.9	5	9.5	5	9.5	1	1.9	21	40.0

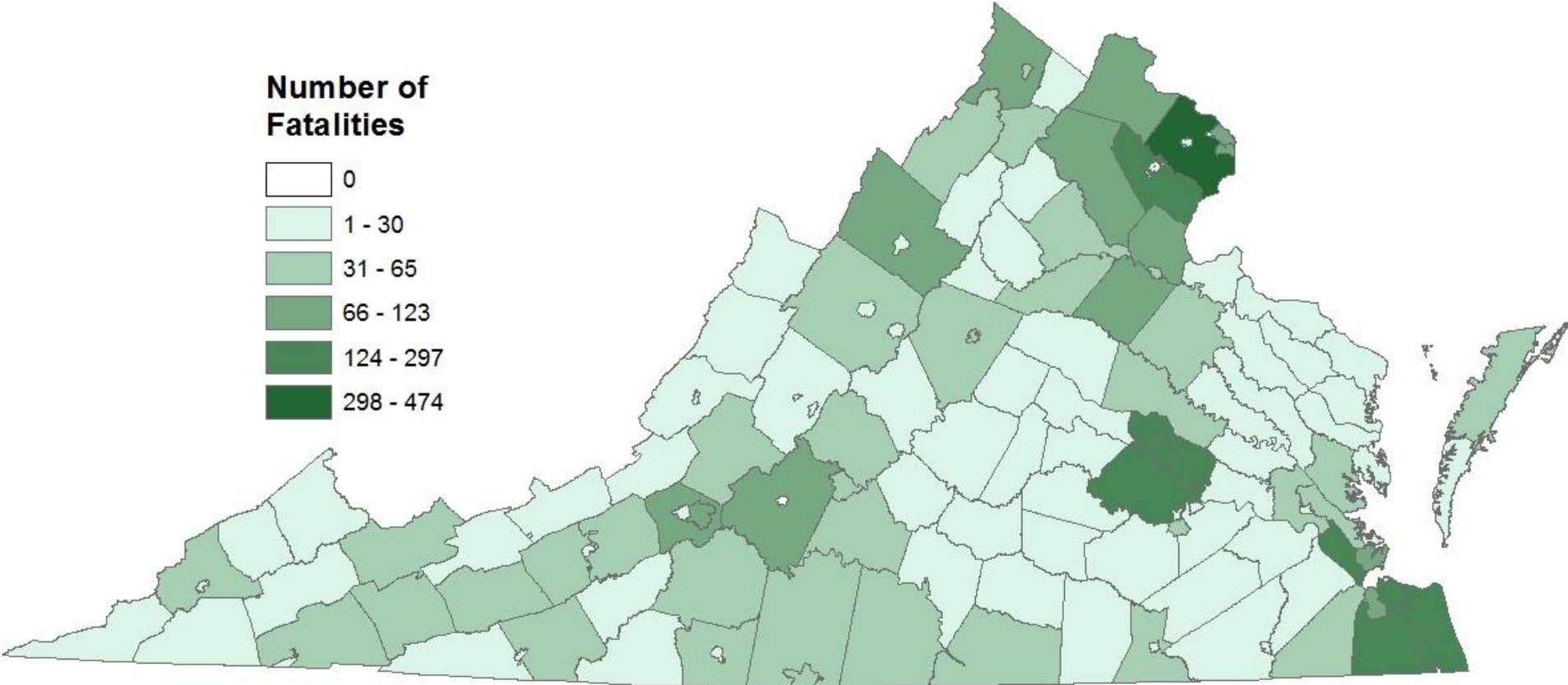
Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Henrico County	109	33.5	12	3.7	49	15.1	36	11.1	5	1.5	211	64.9
Henry County	24	46.3	5	9.6	16	30.8	10	19.3	0	0.0	55	106.0
Highland County	2	90.3	0	0.0	0	0.0	2	90.3	0	0.0	4	180.7
Hopewell City	7	31.3	4	17.9	7	31.3	4	17.9	0	0.0	22	98.3
Isle of Wight County	11	30.3	0	0.0	7	19.3	7	19.3	1	2.8	26	71.6
James City County	27	36.9	1	1.4	14	19.1	11	15.0	2	2.7	55	75.2
King and Queen County	4	55.9	0	0.0	0	0.0	1	14.0	0	0.0	5	69.9
King George County	8	31.4	1	3.9	6	23.5	3	11.8	0	0.0	18	70.5
King William County	7	43.0	1	6.1	2	12.3	5	30.7	0	0.0	15	92.2
Lancaster County	5	45.6	0	0.0	4	36.5	4	36.5	0	0.0	13	118.6
Lee County	6	24.3	0	0.0	7	28.3	7	28.3	0	0.0	20	80.8
Lexington City	2	27.5	0	0.0	1	13.8	2	27.5	0	0.0	5	68.9
Loudoun County	50	13.3	4	1.1	28	7.5	36	9.6	1	0.3	119	31.7
Louisa County	11	31.8	0	0.0	6	17.3	5	14.5	1	2.9	23	66.5
Lunenburg County	5	40.7	0	0.0	2	16.3	3	24.4	0	0.0	10	81.3
Lynchburg City	28	35.1	2	2.5	18	22.6	10	12.5	1	1.3	59	73.9
Madison County	7	53.3	1	7.6	5	38.1	6	45.7	1	7.6	20	152.3
Manassas City	12	28.7	0	0.0	7	16.8	4	9.6	1	2.4	24	57.5
Manassas Park City	1	6.4	0	0.0	1	6.4	1	6.4	0	0.0	3	19.1
Martinsville City	8	58.6	1	7.3	2	14.7	2	14.7	1	7.3	14	102.6
Mathews County	6	67.7	0	0.0	3	33.9	2	22.6	0	0.0	11	124.1
Mecklenburg County	15	48.3	1	3.2	15	48.3	6	19.3	0	0.0	37	119.0
Middlesex County	7	66.0	0	0.0	6	56.6	3	28.3	0	0.0	16	150.9
Montgomery County	21	21.5	2	2.0	15	15.4	10	10.2	1	1.0	49	50.2
Nelson County	9	60.9	0	0.0	6	40.6	2	13.5	0	0.0	17	115.0
New Kent County	15	73.6	0	0.0	4	19.6	4	19.6	0	0.0	23	112.8
Newport News City	64	35.1	26	14.3	37	20.3	22	12.1	7	3.8	156	85.5
Norfolk City	86	34.9	36	14.6	69	28.0	23	9.3	12	4.9	226	91.7
Northampton County	4	32.9	2	16.5	2	16.5	3	24.7	2	16.5	13	107.0
Northumberland County	6	49.1	0	0.0	5	40.9	2	16.4	0	0.0	13	106.3

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
Norton City	1	25.4	0	0.0	0	0.0	0	0.0	0	0.0	1	25.4
Nottoway County	9	57.4	0	0.0	8	51.0	4	25.5	2	12.8	23	146.7
Orange County	16	45.2	0	0.0	9	25.4	10	28.3	0	0.0	35	98.9
Page County	6	25.3	1	4.2	5	21.1	5	21.1	1	4.2	18	75.9
Patrick County	10	55.4	1	5.5	9	49.9	6	33.3	0	0.0	26	144.1
Petersburg City	8	24.6	14	43.1	30	92.4	5	15.4	0	0.0	57	175.5
Pittsylvania County	33	53.1	0	0.0	16	25.7	10	16.1	3	4.8	62	99.7
Poquoson City	4	33.2	0	0.0	2	16.6	0	0.0	0	0.0	6	49.8
Portsmouth City	45	46.8	25	26.0	25	26.0	16	16.6	6	6.2	117	121.6
Powhatan County	7	25.0	1	3.6	13	46.4	6	21.4	0	0.0	27	96.3
Prince Edward County	13	56.6	1	4.4	3	13.1	4	17.4	0	0.0	21	91.5
Prince George County	16	42.3	1	2.6	7	18.5	6	15.8	0	0.0	30	79.2
Prince William County	65	14.4	10	2.2	44	9.7	30	6.6	4	0.9	153	33.9
Pulaski County	18	52.4	0	0.0	10	29.1	8	23.3	1	2.9	37	107.8
Radford City	4	23.0	0	0.0	1	5.7	1	5.7	0	0.0	6	34.5
Rappahannock County	1	13.6	1	13.6	1	13.6	2	27.1	0	0.0	5	67.8
Richmond City	105	47.7	47	21.3	65	29.5	25	11.3	5	2.3	247	112.1
Richmond County	2	22.5	0	0.0	5	56.1	1	11.2	0	0.0	8	89.8
Roanoke City	54	54.1	13	13.0	39	39.0	16	16.0	1	1.0	123	123.1
Roanoke County	41	43.4	1	1.1	23	24.4	14	14.8	0	0.0	79	83.7
Rockbridge County	16	71.6	1	4.5	4	17.9	4	17.9	0	0.0	25	111.8
Rockingham County	37	47.1	0	0.0	23	29.3	21	26.7	1	1.3	82	104.3
Russell County	14	50.2	0	0.0	7	25.1	4	14.3	0	0.0	25	89.6
Salem City	8	31.5	2	7.9	6	23.6	7	27.5	1	3.9	24	94.4
Scott County	6	27.1	0	0.0	9	40.7	4	18.1	0	0.0	19	85.9
Shenandoah County	32	74.1	0	0.0	15	34.7	10	23.2	1	2.3	58	134.3
Smyth County	14	44.5	0	0.0	13	41.3	5	15.9	1	3.2	33	104.9
Southampton County	11	60.7	0	0.0	16	88.4	2	11.0	1	5.5	30	165.7
Spotsylvania County	53	40.6	1	0.8	18	13.8	14	10.7	2	1.5	88	67.4
Stafford County	48	33.8	4	2.8	13	9.2	20	14.1	0	0.0	85	59.9

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
Staunton City	7	28.7	0	0.0	9	36.9	2	8.2	1	4.1	19	77.8
Suffolk City	34	38.6	3	3.4	11	12.5	11	12.5	1	1.1	60	68.1
Surry County	3	44.7	0	0.0	3	44.7	0	0.0	0	0.0	6	89.4
Sussex County	6	51.2	0	0.0	8	68.3	2	17.1	0	0.0	16	136.6
Tazewell County	17	39.6	1	2.3	11	25.6	14	32.6	2	4.7	45	104.9
Virginia Beach City	126	27.8	20	4.4	91	20.1	46	10.2	14	3.1	297	65.6
Warren County	20	51.2	0	0.0	10	25.6	6	15.4	0	0.0	36	92.1
Washington County	23	42.1	1	1.8	17	31.1	12	22.0	1	1.8	54	98.9
Waynesboro City	10	46.5	0	0.0	3	14.0	6	27.9	1	4.7	20	93.1
Westmoreland County	13	73.7	2	11.3	9	51.1	1	5.7	0	0.0	25	141.8
Williamsburg City	1	6.6	0	0.0	9	59.8	4	26.6	0	0.0	14	93.0
Winchester City	19	69.6	1	3.7	7	25.7	7	25.7	4	14.7	38	139.3
Wise County	17	42.8	3	7.6	15	37.8	7	17.6	2	5.0	44	110.8
Wythe County	25	85.9	0	0.0	12	41.2	9	30.9	0	0.0	46	158.0
York County	16	23.6	4	5.9	8	11.8	6	8.8	1	1.5	35	51.6
Subtotal (in-state)	2754	32.9	374	4.5	1699	20.3	1087	13.0	163	1.9	6077	72.5
Out of State	92	ND	10	ND	10	ND	9	ND	12	ND	133	ND
Unknown	28	ND	4	ND	3	ND	1	ND	5	ND	41	ND
Subtotal (out-of-state)	120	ND	14	ND	13	ND	10	ND	17	ND	174	ND
TOTAL	2868	34.2	388	4.6	1710	20.4	1097	13.1	188	2.2	6251	74.6

Note: No denominator is represented by ND

Map 1.3 Number of OCME Cases by Locality of Injury, 2015



Map 1.4 Rate of OCME Cases by Locality of Injury, 2015

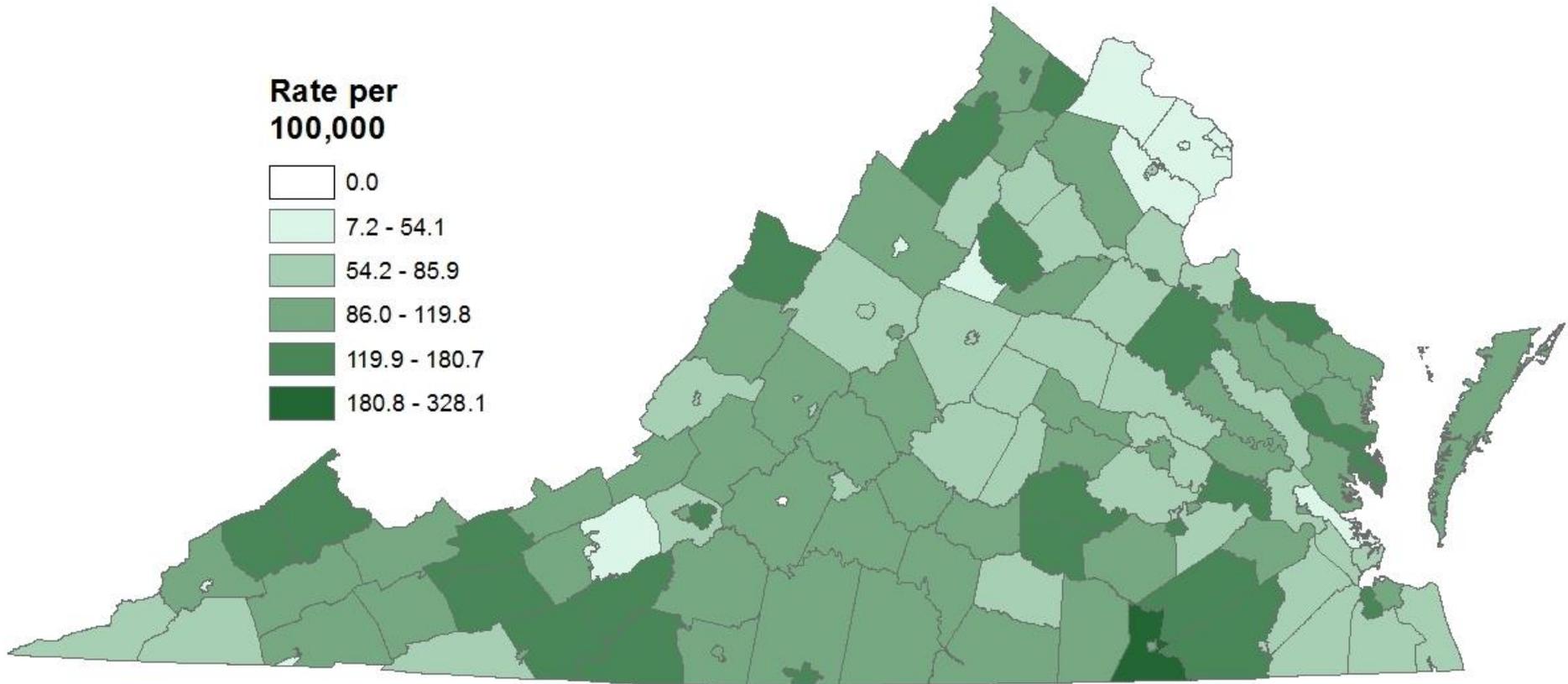


Table 1.10 Number of OCME Cases by Manner of Death and Locality of Death, 2015

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Accomack County	6	3	9	6	0	24
Albemarle County	34	1	13	10	1	59
Alexandria City	29	3	25	10	4	71
Alleghany County	5	0	2	3	0	10
Amelia County	5	0	3	5	0	13
Amherst County	5	0	19	2	0	26
Appomattox County	1	3	2	7	0	13
Arlington County	49	2	33	11	1	96
Augusta County	28	1	12	12	0	53
Bath County	1	0	2	2	0	5
Bedford County	16	3	18	15	0	52
Bland County	3	0	2	2	1	8
Botetourt County	6	0	3	8	0	17
Bristol City	2	0	5	0	0	7
Brunswick County	7	0	4	1	0	12
Buchanan County	14	1	6	5	1	27
Buckingham County	3	0	4	2	0	9
Buena Vista City	1	0	1	0	0	2
Campbell County	15	0	19	10	2	46
Caroline County	10	1	10	4	0	25
Carroll County	9	0	14	8	2	33
Charles City County	4	0	2	2	1	9
Charlotte County	4	2	2	3	0	11
Charlottesville City	72	4	12	14	0	102
Chesapeake City	72	11	32	34	6	155
Chesterfield County	65	8	55	28	0	156
Clarke County	4	0	1	7	1	13
Colonial Heights City	4	1	4	5	0	14
Covington City	1	0	1	2	0	4
Craig County	2	0	2	1	0	5
Culpeper County	11	1	5	8	3	28
Cumberland County	5	0	2	0	0	7
Danville City	15	6	25	4	6	56
Dickenson County	11	0	4	5	1	21
Dinwiddie County	9	2	10	7	0	28
Emporia City	4	2	9	0	0	15
Essex County	4	1	4	0	1	10
Fairfax City	4	0	0	5	0	9
Fairfax County	315	17	115	95	24	566

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Falls Church City	0	0	1	0	0	1
Fauquier County	38	1	16	10	1	66
Floyd County	8	0	6	3	0	17
Fluvanna County	5	1	6	1	0	13
Franklin City	5	0	5	0	1	11
Franklin County	14	9	16	9	2	50
Frederick County	18	2	15	12	2	49
Fredericksburg City	65	7	14	13	1	100
Galax City	6	0	3	2	1	12
Giles County	7	0	7	1	0	15
Gloucester County	13	0	8	14	2	37
Goochland County	9	1	5	7	0	22
Grayson County	3	1	3	1	0	8
Greene County	5	0	3	1	0	9
Greensville County	2	1	21	0	0	24
Halifax County	13	1	12	8	1	35
Hampton City	26	11	27	12	7	83
Hanover County	35	3	16	13	0	67
Harrisonburg City	6	1	3	5	1	16
Henrico County	89	9	48	33	2	181
Henry County	13	2	14	9	0	38
Highland County	1	0	0	2	0	3
Hopewell City	6	3	10	5	0	24
Isle of Wight County	7	1	5	7	1	21
James City County	10	2	11	10	0	33
King and Queen County	3	0	0	1	0	4
King George County	6	1	4	2	0	13
King William County	2	0	2	4	0	8
Lancaster County	5	0	4	4	0	13
Lee County	6	0	7	7	0	20
Lexington City	3	0	1	2	1	7
Loudoun County	42	2	24	33	1	102
Louisa County	11	0	6	5	1	23
Lunenburg County	2	0	2	3	0	7
Lynchburg City	53	4	31	14	1	103
Madison County	6	1	5	6	1	19
Manassas City	17	0	9	4	0	30
Manassas Park City	0	0	0	0	0	0
Martinsville City	11	3	4	3	1	22
Mathews County	3	0	3	1	0	7
Mecklenburg County	14	1	15	5	0	35
Middlesex County	5	0	5	3	0	13

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Montgomery County	17	2	15	9	2	45
Nelson County	5	0	5	2	0	12
New Kent County	10	0	2	3	0	15
Newport News City	92	31	39	27	7	196
Norfolk City	167	48	79	33	19	346
Northampton County	4	3	3	5	2	17
Northumberland County	2	0	5	2	0	9
Norton City	1	0	1	0	0	2
Nottoway County	5	0	3	4	1	13
Orange County	11	0	8	9	0	28
Page County	5	0	5	4	1	15
Patrick County	8	2	9	6	0	25
Petersburg City	15	18	31	4	0	68
Pittsylvania County	23	0	10	8	2	43
Poquoson City	1	0	1	0	0	2
Portsmouth City	43	23	26	15	6	113
Powhatan County	6	1	8	5	0	20
Prince Edward County	10	0	7	3	2	22
Prince George County	8	0	5	5	0	18
Prince William County	35	9	42	28	3	117
Pulaski County	11	0	9	8	2	30
Radford City	0	0	0	1	0	1
Rappahannock County	0	0	1	1	0	2
Richmond City	225	54	91	40	11	421
Richmond County	2	0	4	1	0	7
Roanoke City	178	17	58	27	3	283
Roanoke County	19	0	11	11	0	41
Rockbridge County	9	1	4	4	0	18
Rockingham County	35	0	25	19	1	80
Russell County	13	0	8	4	0	25
Salem City	9	1	8	8	0	26
Scott County	3	0	8	4	0	15
Shenandoah County	18	0	14	10	1	43
Smyth County	14	0	12	5	1	32
Southampton County	7	0	10	2	1	20
Spotsylvania County	33	1	19	13	1	67
Stafford County	28	4	9	17	1	59
Staunton City	7	1	9	1	1	19
Suffolk City	27	2	13	10	1	53
Surry County	3	0	3	0	0	6
Sussex County	3	0	6	2	0	11
Tazewell County	16	1	11	13	3	44

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undet. Total	Total
Virginia Beach City	105	18	85	44	12	264
Warren County	17	1	11	6	0	35
Washington County	24	0	17	12	1	54
Waynesboro City	3	0	3	6	1	13
Westmoreland County	11	2	8	1	0	22
Williamsburg City	5	0	7	4	0	16
Winchester City	76	2	14	11	6	109
Wise County	19	2	14	6	1	42
Wythe County	22	0	12	9	0	43
York County	13	1	14	6	2	36
Subtotal (in-state)	2871	386	1710	1096	178	6241
Out of State	3	2	1	0	1	7
Unknown	0	0	1	1	1	3
Subtotal (out-of-state)	3	2	2	1	2	10
TOTAL	2874	388	1712	1097	180	6251

SECTION 2: MANNER OF DEATH

ACCIDENTAL DEATHS (N=2,874)

Accidents accounted for 46.0% of the deaths investigated by the OCME in 2015, which is the greatest proportion of deaths by any manner.

- The total number of accidental deaths increased 9.1% from 2014
- For the second year in a row, fatal drug overdoses were the most common cause of accidental death (31.0%), followed by accidental motor vehicle deaths (29.8%)
- Seniors 85 years and older had the highest mortality rate due to falls (220.3 per 100,000 persons)
- Of the 66.5% of decedents of accidental death who were tested for ethanol, 30.0% had ethanol detected through toxicology testing. Of those tested, 20.1% had a blood alcohol level of 0.08% BAC or greater; the level of legal intoxication

Figure 2.1 Number and Rate of Accidental Deaths by Year of Death, 1999-2015

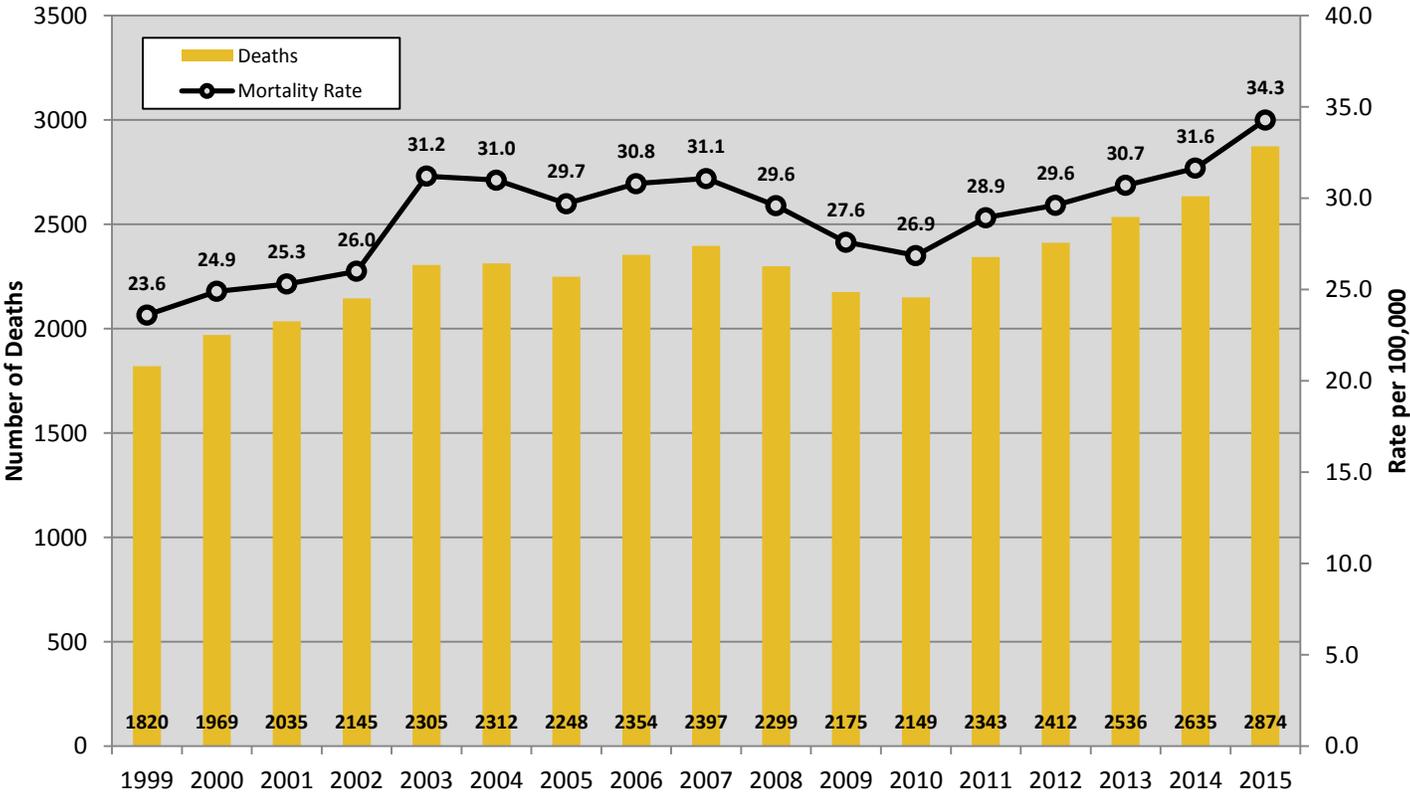


Figure 2.2 Number and Rate of Accidental Deaths by Age Group and Gender, 2015

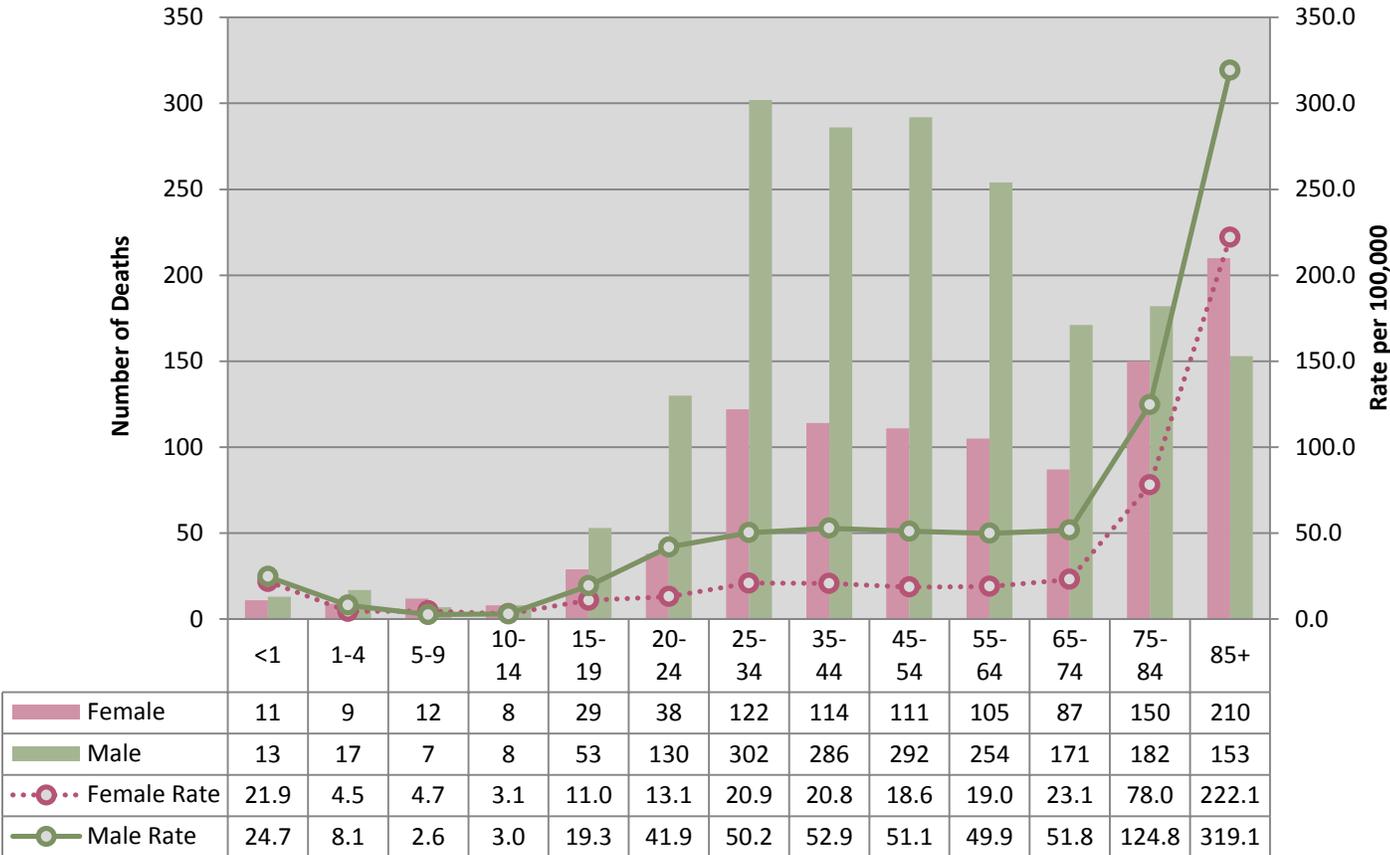


Figure 2.3 Percentage of Accidental Deaths by Race/Ethnicity, 2015

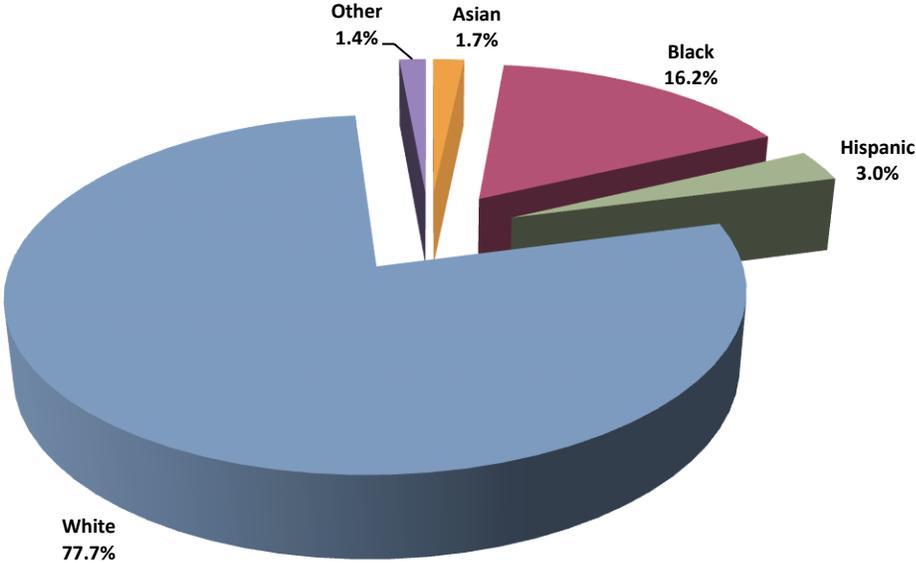
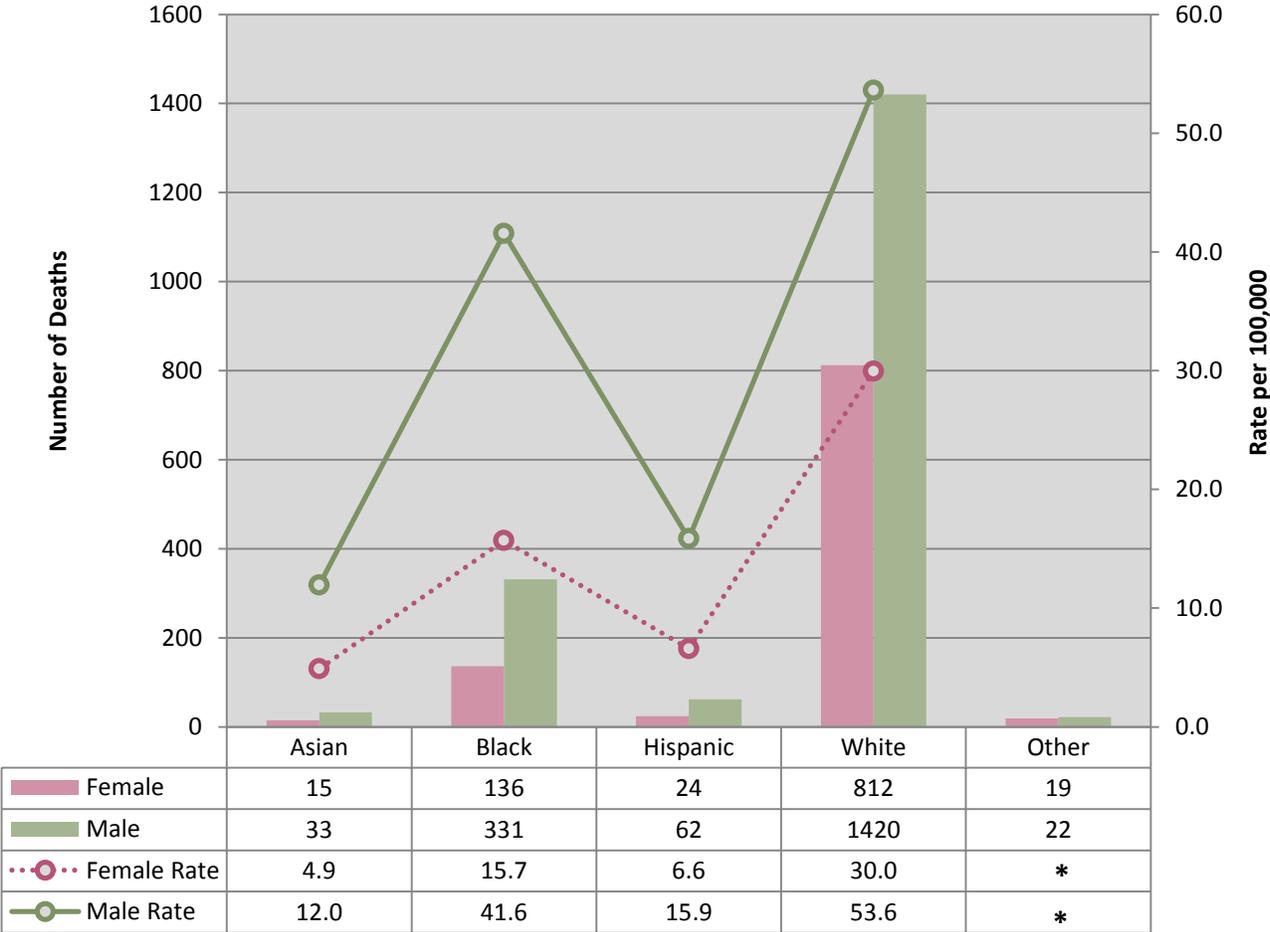


Figure 2.4 Number and Rate of Accidental Deaths by Race/Ethnicity and Gender, 2015



*No rate can be calculated

Table 2.1 Number of Accidental Death Cases by Cause and Method of Death, 2015

Method of Death	Autopsied	Total Cases
Animal/Insect		
Bit, stung, or kicked by an animal/insect	0	2
Asphyxia		
Choked on food/foreign object	2	41
Drowned	44	77
Hanged	2	6
Inhaled toxic agent (carbon monoxide)	3	5
Mechanical/Positional asphyxia	6	15
Oxygen depletion/replacement	0	1
Other asphyxia	3	5
Strangled/Neck compression	2	3
Suffocated/Smothered	10	10
Drug Poisoning		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	502	890
Electrical		
Contacted electrical current	3	5
Exposure		
Exposed to cold	12	27
Exposed to heat	4	10
Fall/Jump		
Fell/Jumped from any height	55	782
Fire		
Thermal burns and/or inhalation of combustion products	39	77
Motor Vehicle Collision		
Aircraft	4	6
All terrain vehicle	0	17
Bicycle	2	22
Bus	2	2
Car	34	399
Construction equipment	2	4
Dump truck	2	3
Farm equipment	0	5
Golf cart	1	1
Lawnmower	0	4
Mo-ped	0	10
Motorcycle	6	78
Multiple	0	1
Pickup truck	9	101
RV	0	1
Skateboard	0	1

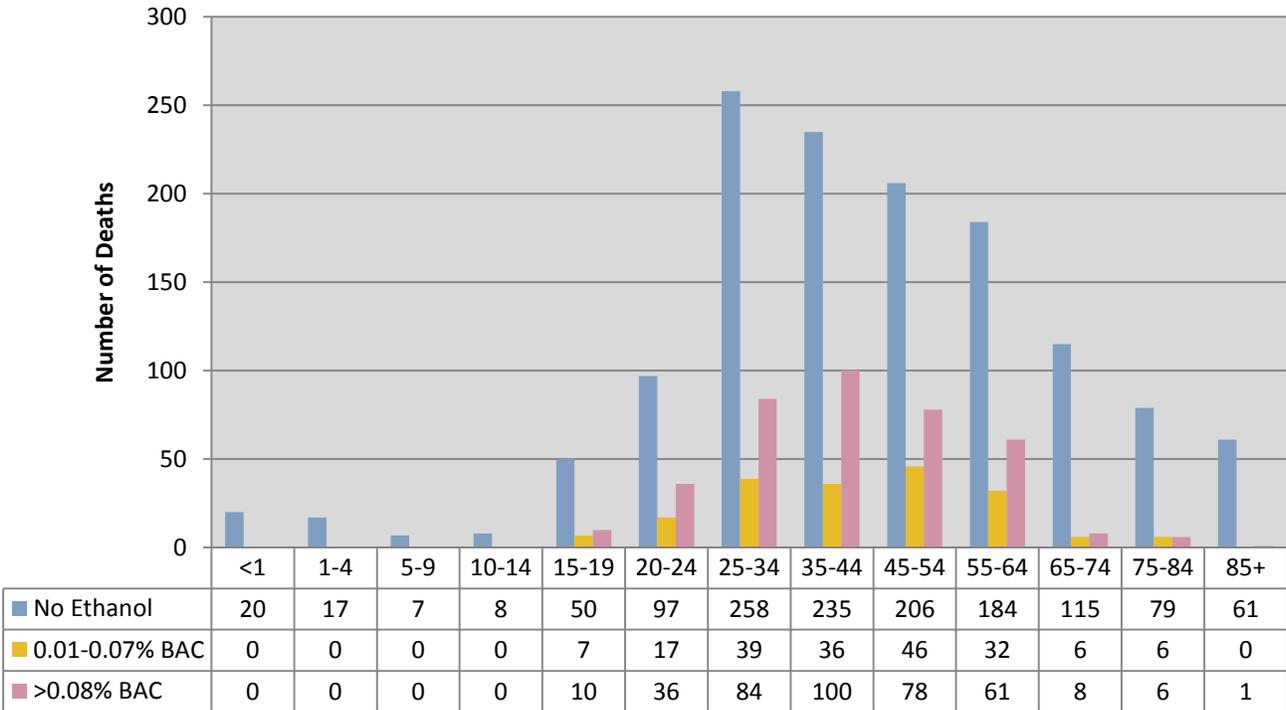
Snow plow	0	1
Sport utility vehicle	7	98
Tractor trailer	9	21
Train	4	11
Truck (other)	3	7
Van	3	27
Unspecified	11	36
Traumatic Injury		
Accidental discharge of firearm		
Handgun	7	8
Rifle	2	2
Shotgun	1	1
Beating/Blows	1	1
Hit/Crushed by falling object	8	24
Sharp force injury	3	4
Other/Undetermined		
Other	13	19
Undetermined	2	3
TOTAL ACCIDENTAL DEATHS	823	2874

Table 2.2 Number and Rate of the Top 5 Accidental Methods of Death by Age Group, 2015

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	1	1.0	0	0.0	3	2.9	3	2.9	8
1-4	9	2.2	1	0.2	0	0.0	5	1.2	5	1.2	20
5-9	7	1.4	0	0.0	1	0.2	1	0.2	8	1.5	17
10-14	1	0.2	0	0.0	0	0.0	2	0.4	11	2.1	14
15-19	8	1.5	18	3.3	2	0.4	0	0.0	51	9.5	79
20-24	4	0.7	78	13.0	6	1.0	1	0.2	76	12.7	165
25-34	5	0.4	251	21.2	7	0.6	4	0.3	143	12.1	410
35-44	4	0.4	242	22.2	13	1.2	3	0.3	114	10.5	376
45-54	12	1.0	175	15.0	43	3.7	11	0.9	131	11.2	372
55-64	9	0.8	109	10.3	63	5.9	15	1.4	133	12.5	329
65-74	6	0.8	11	1.6	109	15.4	15	2.1	94	13.3	235
75-84	9	2.7	4	1.2	224	66.2	11	3.3	60	17.7	308
85+	2	1.4	0	0.0	314	220.3	6	4.2	27	18.9	349
TOTAL	77	0.9	890	10.6	782	9.3	77	0.9	856	10.2	2682

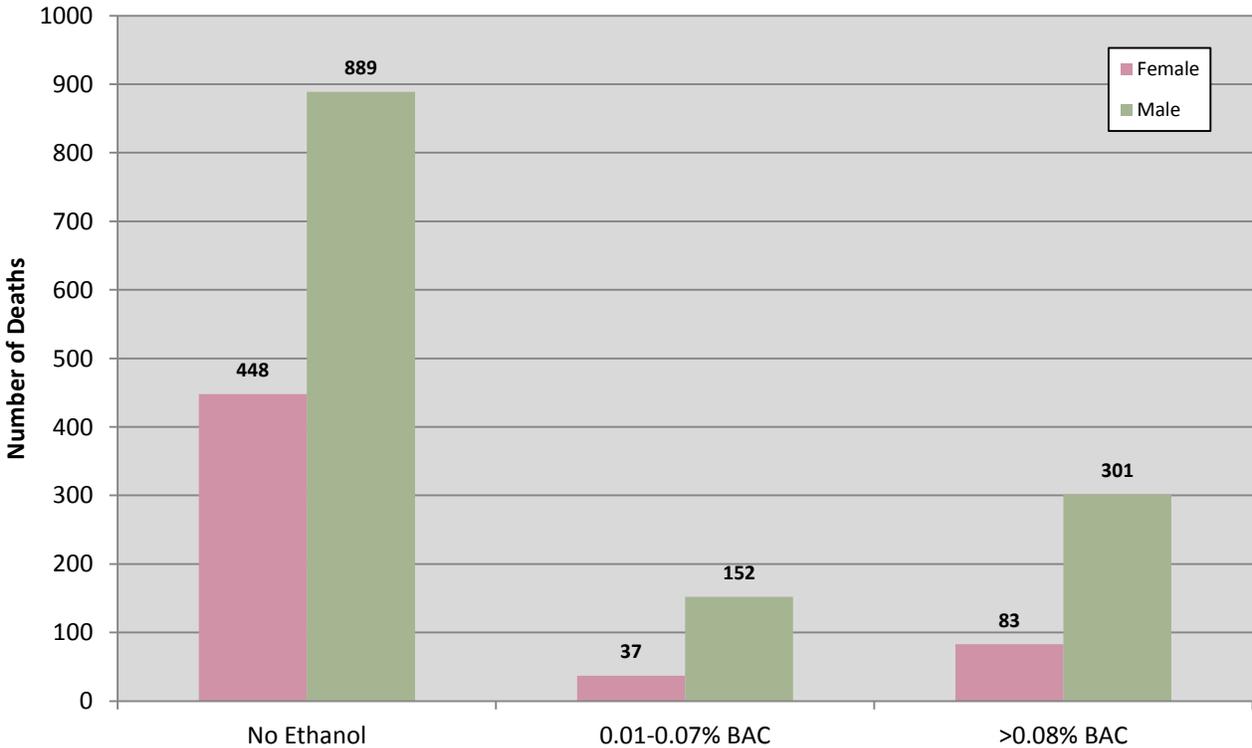
Note: Highlighted pink cells indicate the highest rate among the method of death within the corresponding age group; rates are per 100,000

Figure 2.5 Number of Accidental Deaths by Age Group and Ethanol Level (N=1,910), 2015



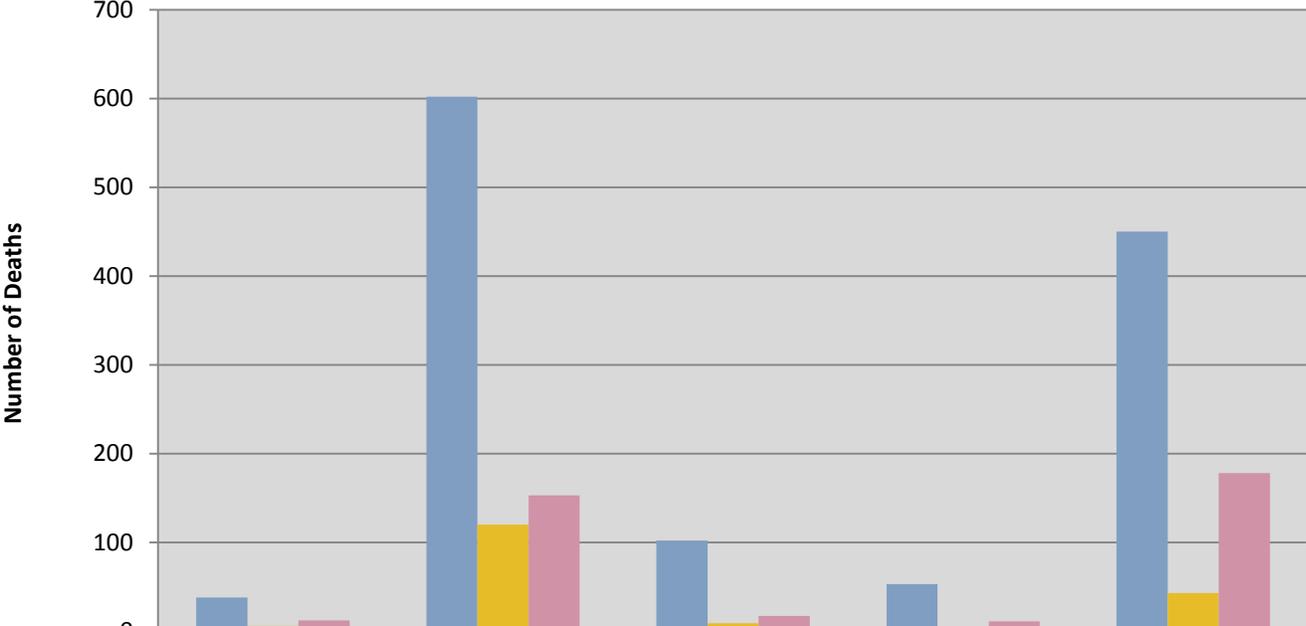
*Note: Of the 2,874 accidental deaths, 33.5% (n=964) did not receive toxicology testing

Figure 2.6 Number of Accidental Deaths by Ethanol Level and Gender (N=1,910), 2015



*Note: Of the 2,874 accidental deaths, 33.5% (n=964) did not receive toxicology testing

Figure 2.7 Number of the Top 5 Accidental Methods of Death by Ethanol Level, 2015



	Drowning (n=56)	Drug Use (n=875)	Fall (n=128)	Fire/Smoke (n=68)	Motor Vehicle (n=671)
No Ethanol	38	602	102	53	450
0.01-0.07% BAC	6	120	9	4	43
>0.08% BAC	12	153	17	11	178

Figure 2.8 Number of Accidental Deaths by Month of Death, 2015

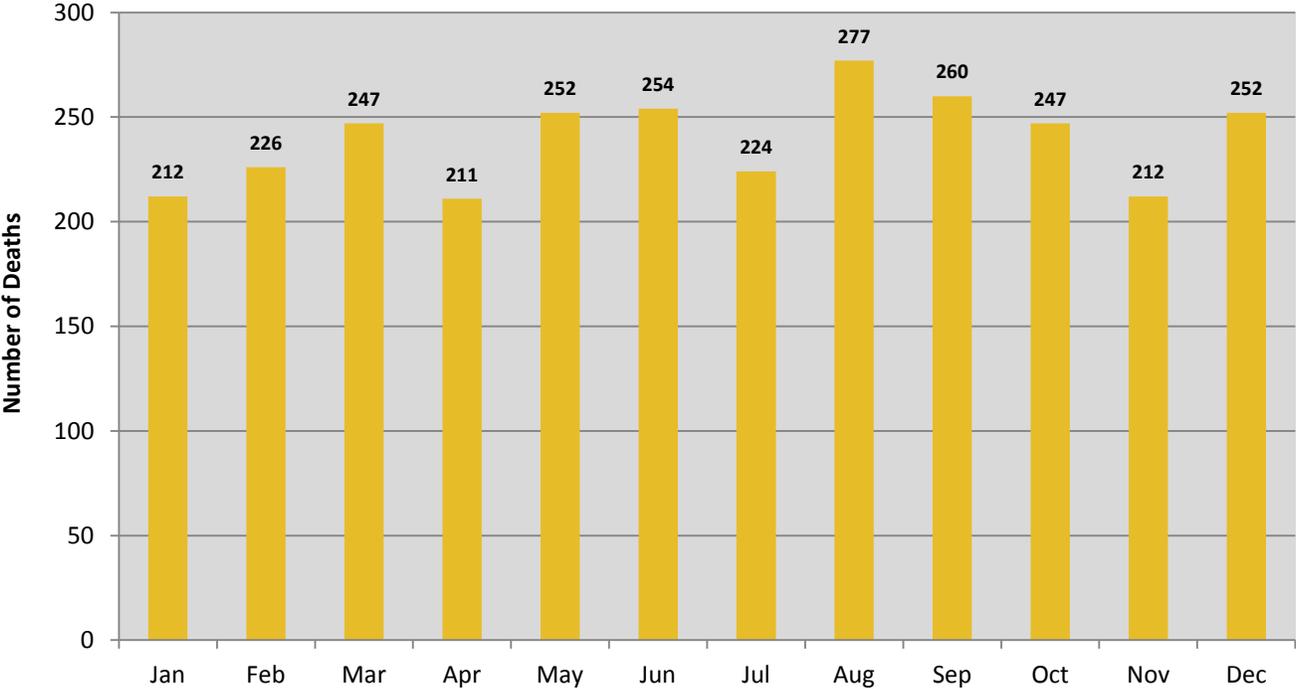


Figure 2.9 Number of Accidental Deaths by Day of Death, 2015

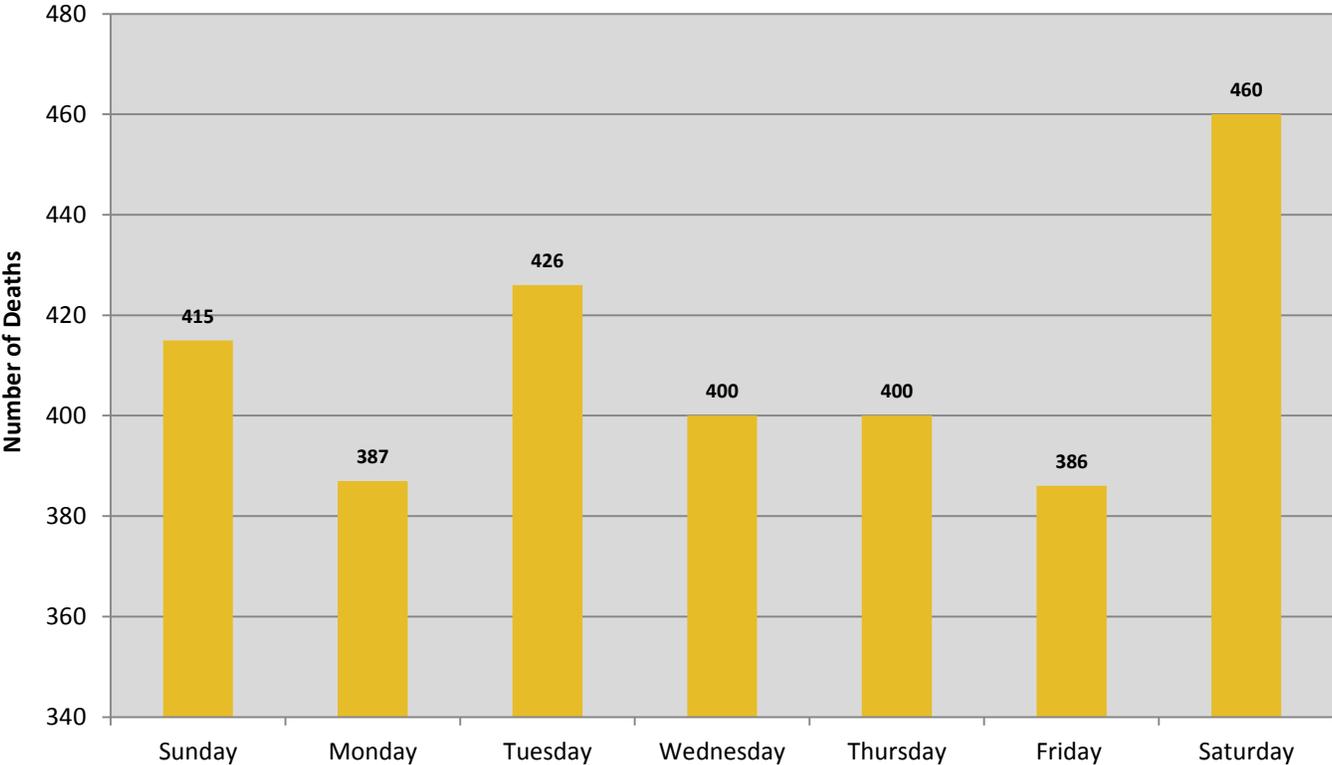


Table 2.3 Number of Accidental Deaths by Locality of Injury and Year of Death, 2006-2015

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Accomack County	22	20	11	19	18	16	15	12	15	10	136
Albemarle County	17	20	33	25	28	34	28	32	44	40	284
Alexandria City	21	21	21	22	14	22	16	21	21	31	188
Alleghany County	10	14	8	5	6	4	7	8	10	7	69
Amelia County	4	7	11	9	4	8	9	5	7	6	66
Amherst County	11	8	16	9	5	18	19	12	12	9	108
Appomattox County	2	6	7	4	3	5	4	4	8	4	45
Arlington County	18	19	30	34	27	24	34	32	31	34	265
Augusta County	26	34	38	33	31	27	33	32	29	23	280
Bath County	2	3	1	4	3	3	6	2	1	1	24
Bedford City	3	5	5	4	4	2	0	2	*	0	22
Bedford County	22	27	16	30	31	24	40	32	24	31	255
Bland County	0	6	2	7	4	7	2	2	3	3	36
Botetourt County	12	12	13	11	11	19	15	12	14	20	127
Bristol City	6	10	3	3	7	5	7	1	6	2	44
Brunswick County	16	7	6	8	13	8	14	15	11	12	94
Buchanan County	21	18	19	11	23	18	20	13	15	15	152
Buckingham County	3	9	6	3	5	5	7	5	15	3	58
Buena Vista City	0	0	1	2	0	1	2	0	1	2	9
Campbell County	32	16	31	12	17	14	25	21	20	23	179
Caroline County	9	14	8	9	13	14	10	17	7	19	111
Carroll County	17	15	19	11	7	13	14	15	19	14	127
Charles City County	4	8	7	7	7	6	5	3	5	4	52
Charlotte County	4	6	6	5	6	9	5	6	4	7	54
Charlottesville City	21	28	11	16	12	9	8	11	13	18	126
Chesapeake City	55	60	48	53	43	58	57	67	59	86	531
Chesterfield County	56	68	92	68	70	74	82	78	89	97	718
Clarke County	5	6	5	8	10	4	8	5	8	6	60
Colonial Heights City	6	3	4	2	2	3	3	5	6	3	31

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Covington City	4	0	2	2	0	1	0	1	3	1	10
Craig County	7	2	2	4	2	2	1	4	3	2	22
Culpeper County	16	24	12	12	14	15	20	23	27	19	166
Cumberland County	1	2	4	3	2	3	4	9	2	6	35
Danville City	16	13	22	20	20	19	16	20	20	17	167
Dickenson County	11	16	13	5	11	13	10	8	10	11	97
Dinwiddie County	12	14	20	12	10	8	9	15	6	12	106
Emporia City	2	8	2	1	3	3	3	4	1	2	27
Essex County	4	7	4	7	5	8	3	2	5	5	46
Fairfax City	3	4	5	11	5	7	11	11	11	6	71
Fairfax County	221	156	144	148	152	195	184	197	210	243	1627
Falls Church City	2	1	0	2	1	6	0	2	4	0	16
Fauquier County	21	31	26	33	32	33	27	30	28	50	290
Floyd County	13	10	5	8	5	10	5	10	8	10	71
Fluvanna County	9	7	14	7	6	5	7	5	6	13	70
Franklin City	2	2	1	1	2	0	1	2	3	4	16
Franklin County	27	22	23	26	21	33	38	17	23	19	222
Frederick County	24	24	26	31	27	29	25	36	36	40	274
Fredericksburg City	22	14	15	6	11	12	21	14	8	22	123
Galax City	0	3	0	0	0	3	4	2	2	2	16
Giles County	9	5	9	9	10	3	10	12	14	10	82
Gloucester County	21	10	16	10	20	15	12	16	13	11	123
Goochland County	6	15	10	14	8	8	13	5	6	12	91
Grayson County	13	5	2	6	5	5	6	7	5	5	46
Greene County	4	14	5	4	7	2	9	5	7	5	58
Greensville County	10	3	2	5	6	2	5	3	9	5	40
Halifax County	15	22	27	14	20	16	9	9	23	15	155
Hampton City	31	27	28	25	35	38	24	38	29	35	279
Hanover County	21	27	26	13	18	30	26	36	42	32	250
Harrisonburg City	11	1	3	5	4	8	6	10	10	9	56
Henrico County	89	65	77	73	70	58	72	95	88	109	707

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Henry County	34	15	34	22	26	31	31	23	28	24	233
Highland County	1	2	2	2	2	1	0	1	2	2	14
Hopewell City	5	7	6	7	7	6	6	3	7	7	56
Isle of Wight County	16	16	14	12	13	7	11	11	15	11	110
James City County	17	9	24	16	13	19	11	27	16	27	162
King and Queen County	5	7	5	8	2	1	3	4	4	4	38
King George County	5	7	8	10	2	8	10	13	16	8	82
King William County	3	6	5	9	2	6	6	8	5	7	54
Lancaster County	9	9	6	2	2	8	2	6	2	5	42
Lee County	11	16	10	13	8	15	11	11	7	6	97
Lexington City	3	2	1	2	4	1	2	2	1	2	17
Loudoun County	23	36	27	29	32	36	52	55	64	50	381
Louisa County	16	24	17	21	14	11	13	17	7	11	135
Lunenburg County	6	11	9	5	2	1	6	7	5	5	51
Lynchburg City	13	24	24	16	25	21	34	25	26	28	222
Madison County	3	9	6	3	5	4	6	5	5	7	50
Manassas	8	8	6	12	4	6	16	4	11	12	79
Manassas Park	Unknown	1	0	1	3	4	0	0	3	1	13
Martinsville City	8	3	8	6	7	7	6	10	8	8	63
Mathews County	8	4	1	4	2	2	3	6	3	6	31
Mecklenburg County	18	17	11	16	10	13	13	15	16	15	126
Middlesex County	3	7	6	6	6	1	4	4	6	7	47
Montgomery County	15	24	27	24	30	28	23	26	23	21	226
Nelson County	6	11	6	11	6	9	9	9	11	9	81
New Kent County	15	7	7	8	12	11	9	6	11	15	86
Newport News City	52	35	36	53	40	45	33	43	54	64	403
Norfolk City	59	79	59	67	49	73	71	89	68	86	641
Northampton County	6	7	10	9	5	3	2	5	12	4	57
Northumberland County	2	3	8	4	6	9	8	7	7	6	58
Norton City	3	0	1	1	2	0	1	2	0	1	8
Nottoway County	6	7	3	14	6	7	5	7	8	9	66

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Orange County	6	14	13	10	14	16	9	19	25	16	136
Page County	4	10	4	7	8	14	12	10	7	6	78
Patrick County	5	7	11	8	8	5	9	12	9	10	79
Petersburg City	16	22	14	14	13	3	11	10	12	8	107
Pittsylvania County	28	30	37	29	25	27	34	22	30	33	267
Poquoson City	5	1	1	3	1	2	0	2	1	4	15
Portsmouth City	29	20	18	29	23	28	19	33	30	45	245
Powhatan County	14	6	7	5	3	7	12	12	9	7	68
Prince Edward County	9	14	5	14	11	4	9	10	5	13	85
Prince George County	9	12	12	10	12	11	11	13	13	16	110
Prince William County	69	56	65	63	72	78	92	79	88	65	658
Pulaski County	16	23	19	15	19	19	14	18	25	18	170
Radford City	2	5	9	3	8	3	8	2	6	4	48
Rappahannock County	0	4	2	3	6	4	5	4	2	1	31
Richmond City	127	134	85	69	67	88	77	79	89	105	793
Richmond County	2	2	6	2	4	4	5	3	5	2	33
Roanoke City	37	30	32	41	36	39	40	57	49	54	378
Roanoke County	27	22	23	19	17	26	27	28	36	41	239
Rockbridge County	12	14	10	13	7	10	14	7	13	16	104
Rockingham County	30	21	19	16	18	16	25	22	37	37	210
Russell County	19	19	15	11	16	20	14	12	9	14	130
Salem City	13	7	8	8	8	4	12	12	12	8	79
Scott County	6	8	11	9	5	8	9	10	7	6	73
Shenandoah County	14	5	24	13	12	15	17	15	23	32	156
Smyth County	13	10	11	7	12	10	9	12	10	14	95
Southampton County	10	15	10	10	11	6	8	17	9	11	97
Spotsylvania County	29	39	31	29	43	36	34	39	38	53	342
Stafford County	18	44	25	24	21	23	33	33	26	48	277
Staunton City	7	6	8	7	5	8	3	4	10	7	58
Suffolk City	16	37	26	17	30	25	25	30	27	34	251
Surry County	2	7	4	1	6	2	1	4	2	3	30

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Sussex County	13	15	17	11	12	5	2	3	8	6	79
Tazewell County	36	11	16	19	25	30	23	14	20	17	175
Virginia Beach City	101	106	102	110	77	112	111	119	116	126	979
Warren County	6	12	17	9	25	23	15	20	20	20	161
Washington County	18	20	22	14	21	28	16	10	21	23	175
Waynesboro City	7	2	7	6	7	3	13	8	5	10	61
Westmoreland County	13	9	11	6	11	10	7	7	5	13	79
Williamsburg City	6	5	3	6	2	9	5	6	6	1	43
Winchester City	15	2	4	10	7	7	16	17	19	19	101
Wise County	31	28	15	22	22	23	19	23	14	17	183
Wythe County	11	14	24	12	13	9	17	14	21	25	149
York County	14	17	14	7	15	17	8	16	18	16	128
<i>Subtotal (in-state)</i>	<i>2316</i>	<i>2322</i>	<i>2227</i>	<i>2105</i>	<i>2081</i>	<i>2275</i>	<i>2333</i>	<i>2456</i>	<i>2547</i>	<i>2754</i>	<i>21094</i>
Out of State	29	57	52	53	58	55	63	69	66	92	565
Unknown	8	18	20	17	10	13	16	11	22	28	155
<i>Subtotal (out-of-state)</i>	<i>37</i>	<i>75</i>	<i>72</i>	<i>70</i>	<i>68</i>	<i>68</i>	<i>79</i>	<i>80</i>	<i>88</i>	<i>120</i>	<i>720</i>
TOTAL	2353	2397	2299	2175	2149	2343	2412	2536	2635	2874	21814

HOMICIDE DEATHS (N=388)

The number of homicides in 2015 increased compared to 2014 (8.1%). As previous years have shown, homicides most frequently occurred among males (78.6%) and among blacks (65.2%). Males aged 20-24 years demonstrate the highest homicide rate with 21.6 deaths per 100,000 persons.

- Over seventy-three percent of all homicides were committed using a firearm, with handguns (the most common type) used in 84.9% of all firearm-related homicides
- Over sixty-two percent of all homicides in the Commonwealth were committed using a handgun
- Of the 94.3% of homicide victims tested for ethanol, 34.2% had ethanol present. Furthermore, 19.9% of those tested had a blood alcohol of 0.08% BAC or greater
- Richmond City had both the largest number of homicides by locality of residence and locality of injury (n=41 and n=47, respectively). Petersburg City had both the highest homicide rate by locality of residence and the highest homicide rate by location of injury (40.0 and 43.1 per 100,000, respectively).

Figure 2.10 Number and Rate of Homicide Deaths by Year of Death, 1999-2015

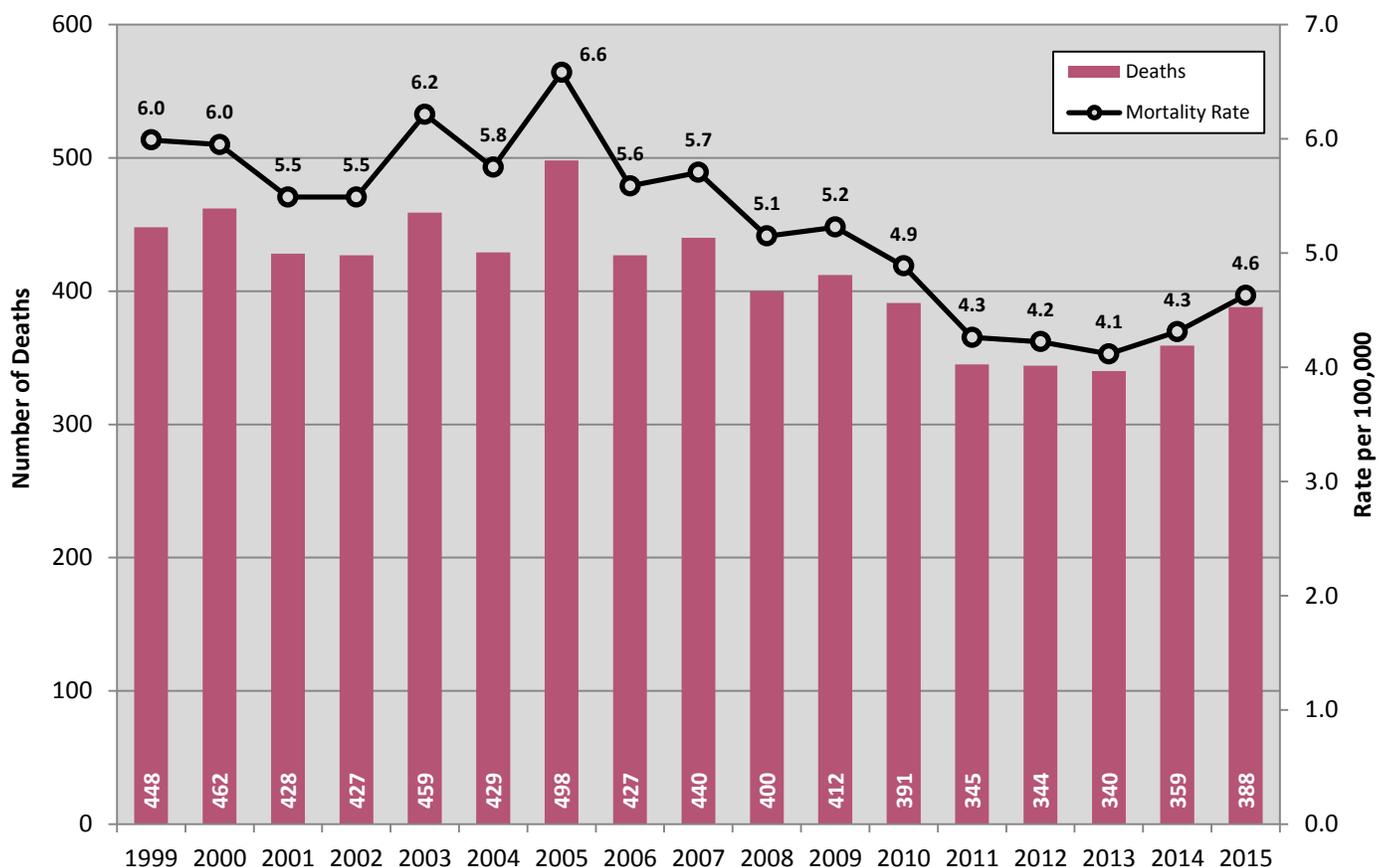


Figure 2.11 Number and Rate of Homicide Deaths by Age Group and Gender, 2015

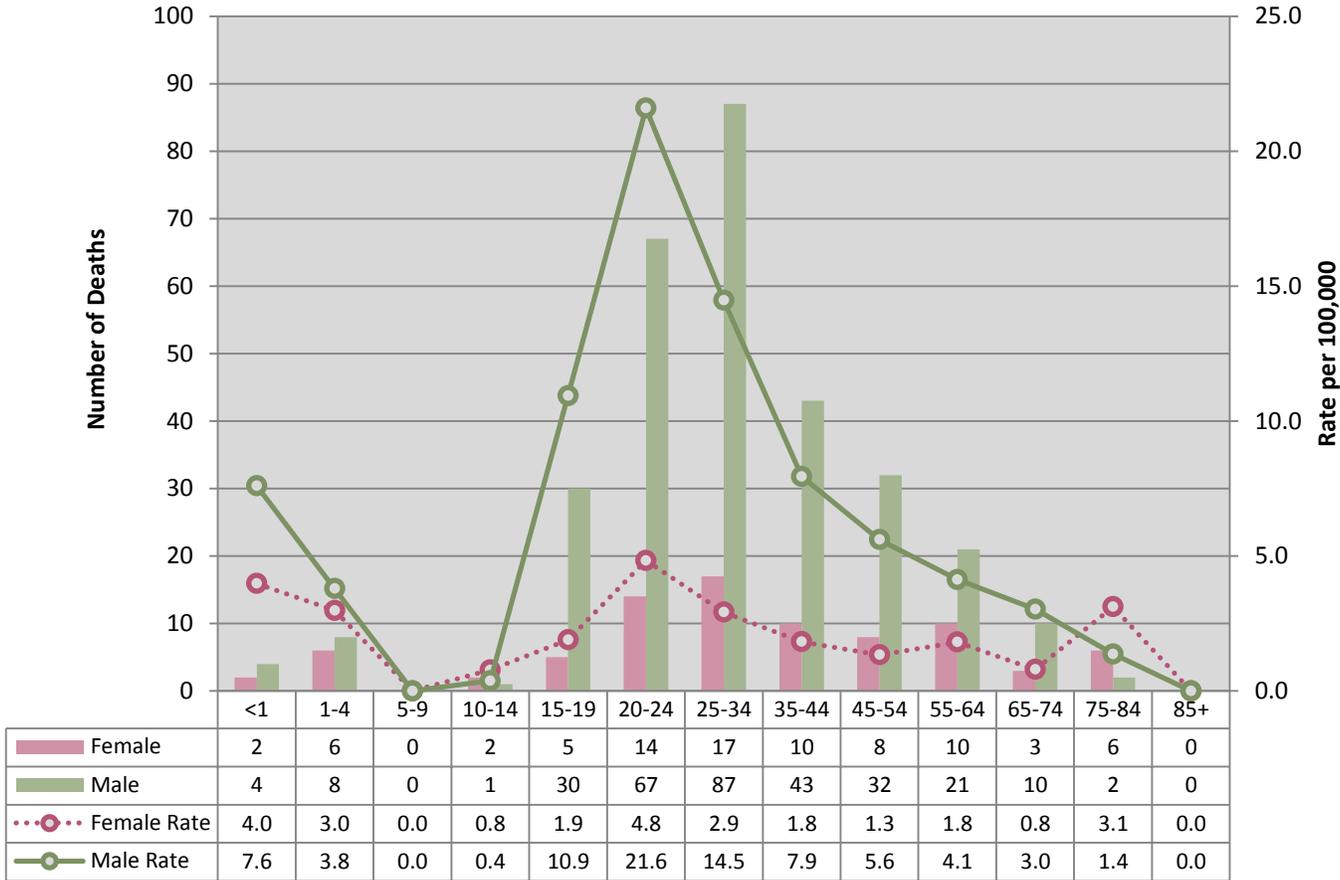


Figure 2.12 Percentage of Homicide Deaths by Race/Ethnicity, 2015

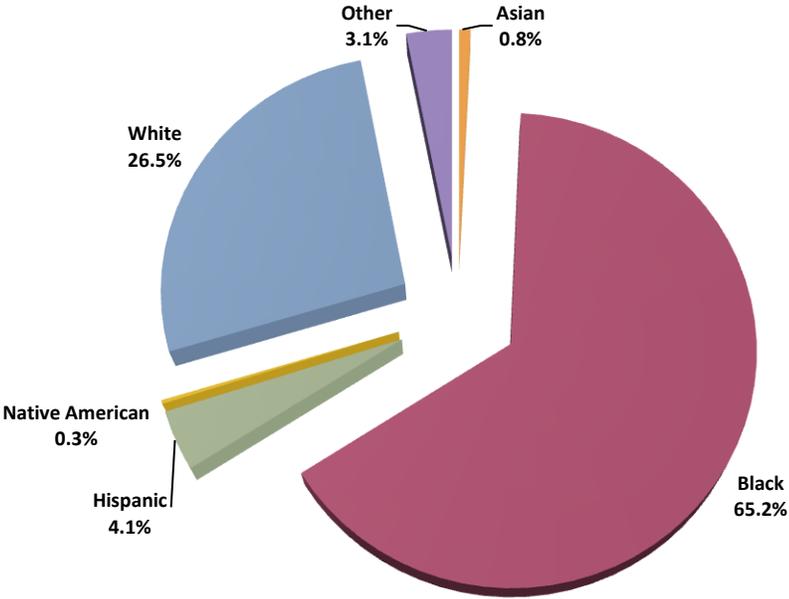
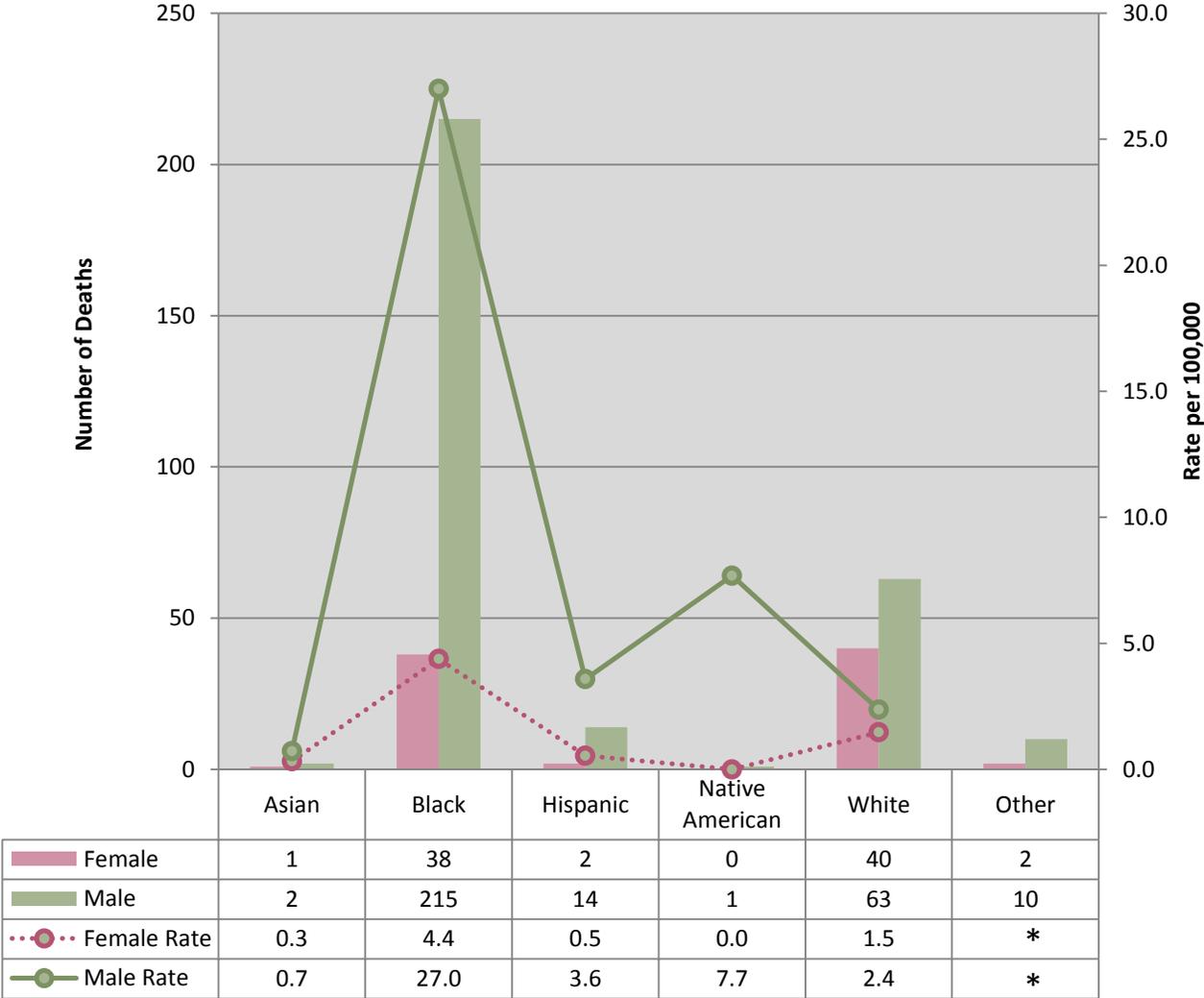


Figure 2.13 Number and Rate of Homicide Deaths by Race/Ethnicity and Gender, 2015



*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Asians, Hispanics, and Native Americans)

Table 2.4 Number of Homicide Deaths by Cause and Method of Death, 2015

Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned	1	1
Strangled by assailant(s)	6	6
Suffocated by plastic bag	1	1
Fall/Jump/Push		
Fell/Jumped/Pushed from any height	2	2
Fire		
Thermal and/or inhalational Injuries	1	1
Judicial Execution		
Lethal Injection	1	1
Motor Vehicle Collision		
Struck by a vehicle	2	2
Traumatic Injury		
Beaten by assailant(s)	31	32
Electrocuted	1	1
Shot by assailant(s)		
Handgun	242	242
Multiple	2	2
Rifle	9	9
Shotgun	7	7
Unspecified/Unknown	25	25
Stabbed by assailant(s)	52	52
Other/Unknown		
Dehydration and/or starvation	1	1
Other	3	3
TOTAL HOMICIDE DEATHS	387	388

Figure 2.14 Number of the Top 5 Homicide Deaths by Method, 2015

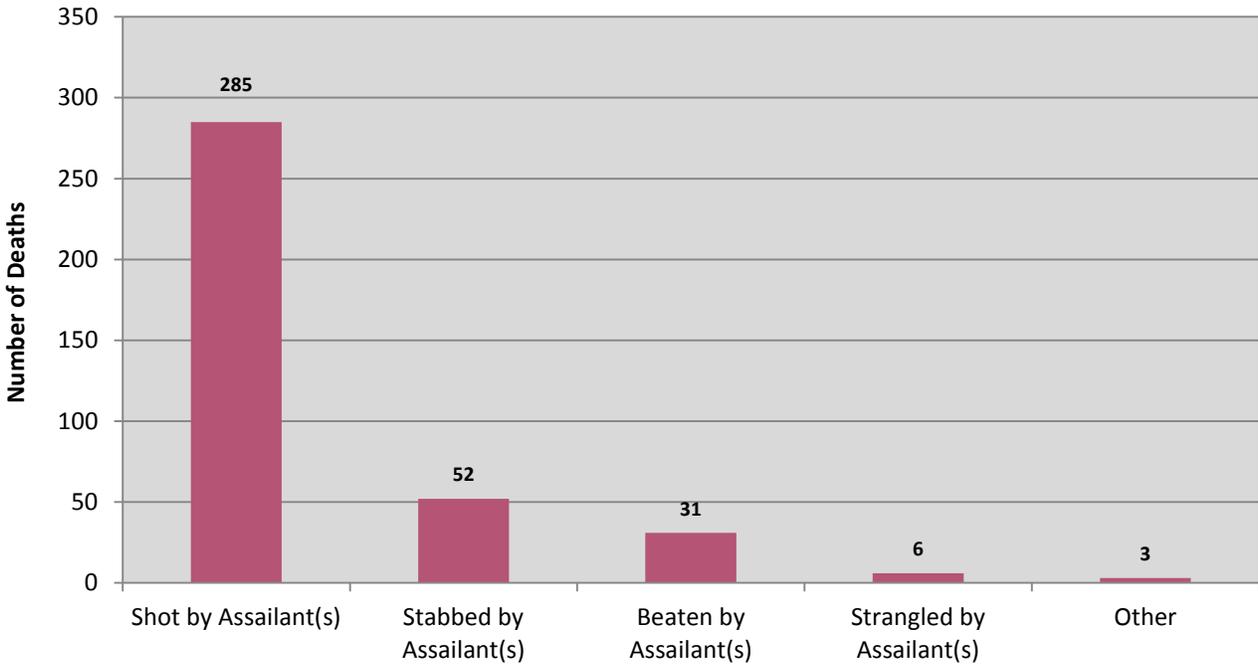
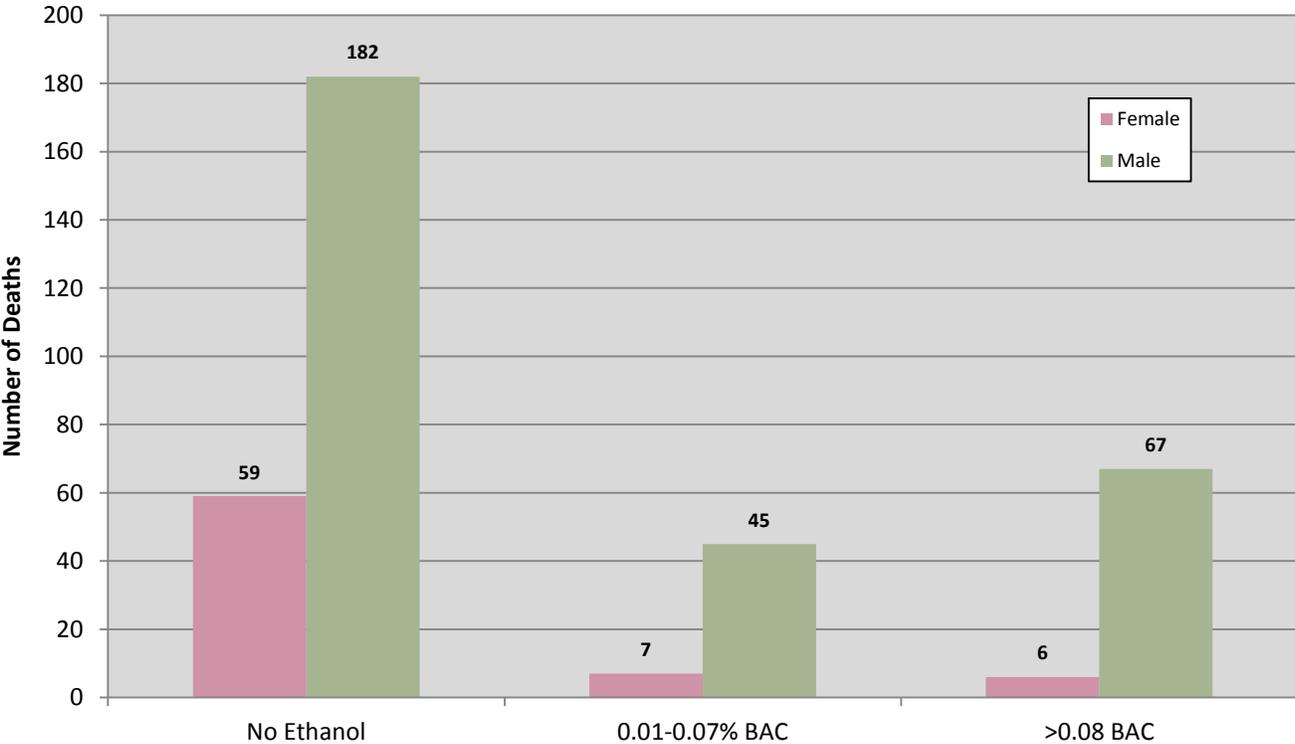
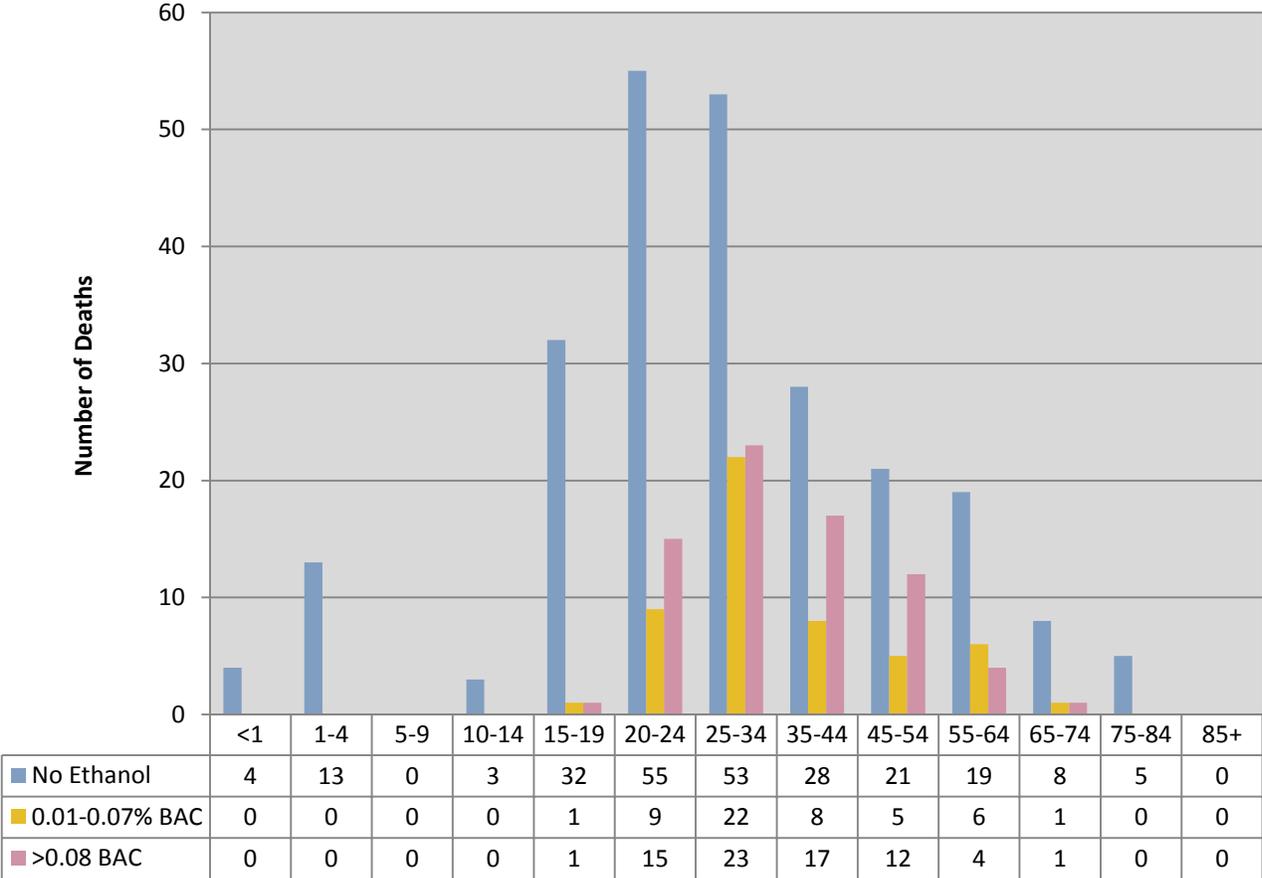


Figure 2.15 Number of Homicide Deaths by Ethanol Level and Gender (N=366), 2015



*Note: Of the 388 homicide deaths, 5.7% (n=22) did not receive toxicology testing

Figure 2.16 Number of Homicide Deaths by Age Group and Ethanol Level (N=366), 2015



*Note: Of the 388 homicide deaths, 5.7% (n=22) did not receive toxicology testing

Table 2.5 Number of Homicide Deaths by Method of Death and Ethanol Level (N=366), 2015

Method of Death	No Ethanol	0.01-0.07% BAC	>0.08% BAC
Asphyxia			
Drowned	0	1	0
Strangled by assailant(s)	4	1	0
Suffocated by plastic bag	1	0	0
Fall/Jump/Push			
Fell/Jumped/Pushed from any height	2	0	0
Fire			
Thermal and/or inhalational Injuries	1	0	0
Judicial Execution			
Lethal Injection	1	0	0
Motor Vehicle Collision			
Struck by a vehicle	0	0	1
Traumatic Injury			
Beaten by assailant(s)	22	3	2
Electrocuted	0	1	0
Shot by assailant(s)			
Handgun	153	32	45
Multiple	1	0	1
Rifle	4	2	2
Shotgun	5	2	0
Unspecified/Unknown	18	3	4
Stabbed by assailant(s)	26	7	18
Other/Unknown			
Dehydration and/or starvation	1	0	0
Other	2	0	0
TOTAL HOMICIDE DEATHS	241	52	73

*Note: Of the 388 homicide deaths, 5.7% (n=22) did not receive toxicology testing

Figure 2.17 Number of Homicide Deaths by Month of Death, 2015

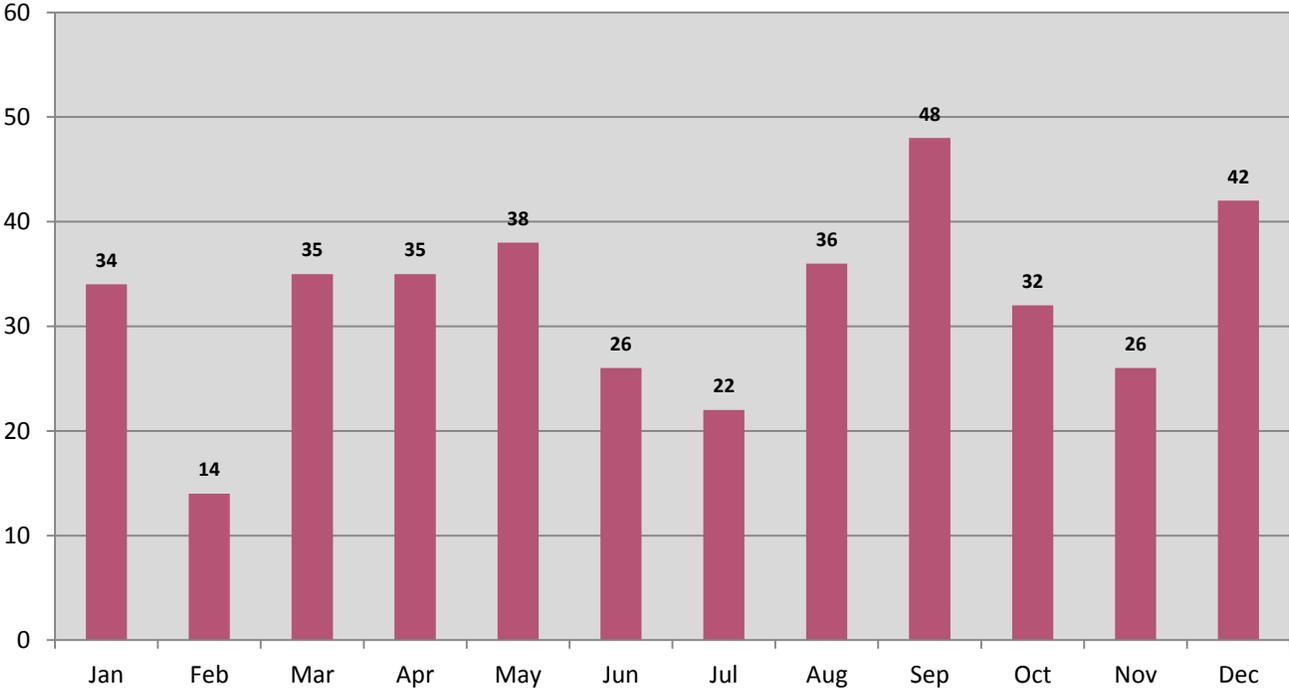


Figure 2.18 Number of Homicide Deaths by Day of Death, 2015

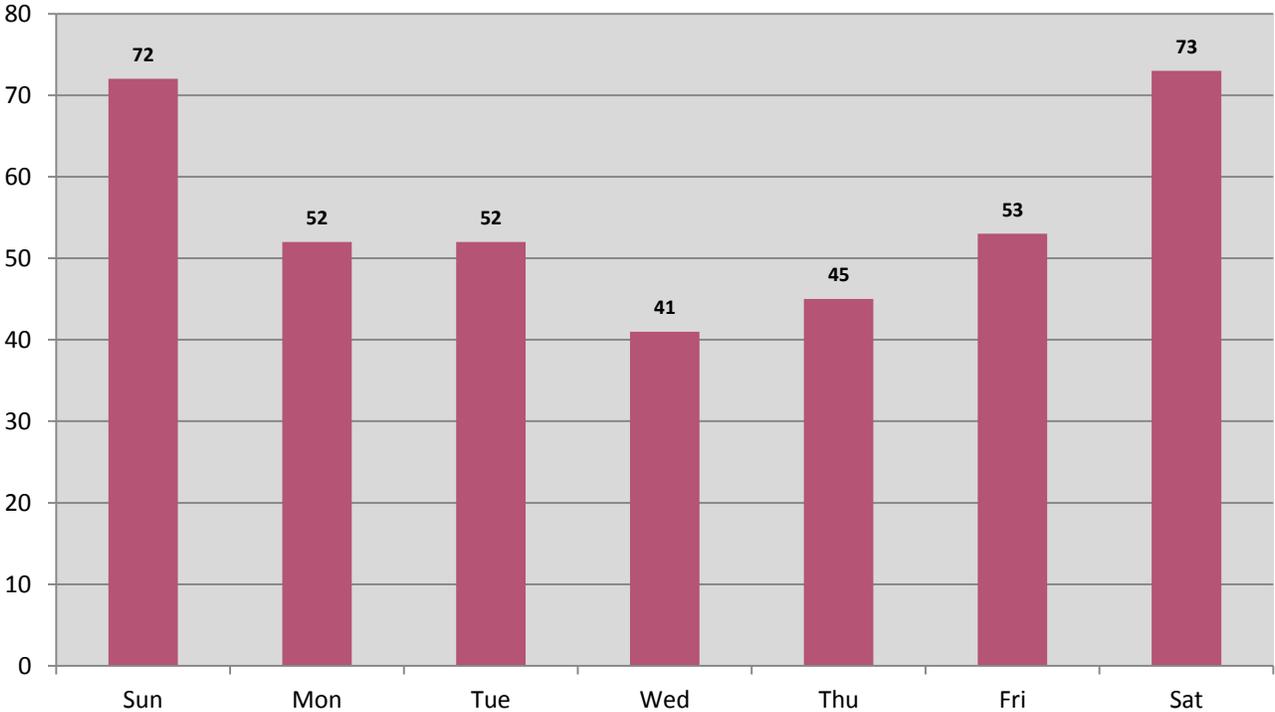


Table 2.6 Number and Rate of Homicide Deaths by Locality of Residence, 2015

Locality of Residence	Deaths	Rate
Accomack County	5	15.2
Albemarle County	1	0.9
Alexandria City	3	2.0
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	1	3.1
Appomattox County	3	19.5
Arlington County	2	0.9
Augusta County	1	1.3
Bath County	0	0.0
Bedford County	3	3.9
Bland County	0	0.0
Botetourt County	1	3.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	1	4.4
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	1	1.8
Caroline County	3	10.0
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	2	16.4
Charlottesville City	2	4.3
Chesapeake City	17	7.2
Chesterfield County	14	4.2
Clarke County	0	0.0
Colonial Heights City	2	11.2
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	1	2.0
Cumberland County	0	0.0
Danville City	5	11.9
Dickenson County	0	0.0
Dinwiddie County	3	10.8
Emporia City	0	0.0
Essex County	2	18.0
Fairfax City	0	0.0
Fairfax County	15	1.3
Falls Church City	1	7.2
Fauquier County	1	1.5

Locality of Residence	Deaths	Rate
Floyd County	0	0.0
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	8	14.2
Frederick County	2	2.4
Fredericksburg City	1	3.6
Galax City	0	0.0
Giles County	1	6.0
Gloucester County	0	0.0
Goochland County	2	9.0
Grayson County	1	6.2
Greene County	0	0.0
Greensville County	2	16.8
Halifax County	1	2.8
Hampton City	22	16.1
Hanover County	2	1.9
Harrisonburg City	0	0.0
Henrico County	12	3.7
Henry County	4	7.7
Highland County	0	0.0
Hopewell City	3	13.4
Isle of Wight County	0	0.0
James City County	4	5.5
King and Queen County	0	0.0
King George County	2	7.8
King William County	1	6.1
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	3	0.8
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	2	2.5
Madison County	1	7.6
Manassas	0	0.0
Manassas Park	0	0.0
Martinsville City	0	0.0
Mathews County	0	0.0
Mecklenburg County	1	3.2
Middlesex County	0	0.0
Montgomery County	3	3.1

Locality of Residence	Deaths	Rate
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	18	9.9
Norfolk City	39	15.8
Northampton County	2	16.5
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	0	0.0
Page County	1	4.2
Patrick County	2	11.1
Petersburg City	13	40.0
Pittsylvania County	1	1.6
Poquoson City	0	0.0
Portsmouth City	22	22.9
Powhatan County	2	7.1
Prince Edward County	1	4.4
Prince George County	0	0.0
Prince William County	9	2.0
Pulaski County	0	0.0
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	41	18.6
Richmond County	0	0.0
Roanoke City	10	10.0
Roanoke County	1	1.1
Rockbridge County	1	4.5
Rockingham County	1	1.3
Russell County	0	0.0

Locality of Residence	Deaths	Rate
Salem City	4	15.7
Scott County	0	0.0
Shenandoah County	0	0.0
Smyth County	0	0.0
Southampton County	0	0.0
Spotsylvania County	2	1.5
Stafford County	3	2.1
Staunton City	0	0.0
Suffolk City	2	2.3
Surry County	1	14.9
Sussex County	1	8.5
Tazewell County	1	2.3
Virginia Beach City	14	3.1
Warren County	0	0.0
Washington County	1	1.8
Waynesboro City	1	4.7
Westmoreland County	2	11.3
Williamsburg City	0	0.0
Winchester City	1	3.7
Wise County	3	7.6
Wythe County	0	0.0
York County	2	2.9
<i>Subtotal (in-state)</i>	371	4.4
Out of State	16	ND
Unknown	1	ND
<i>Subtotal (out-of-state)</i>	17	ND
TOTAL	388	4.6

*No denominator is represented by ND

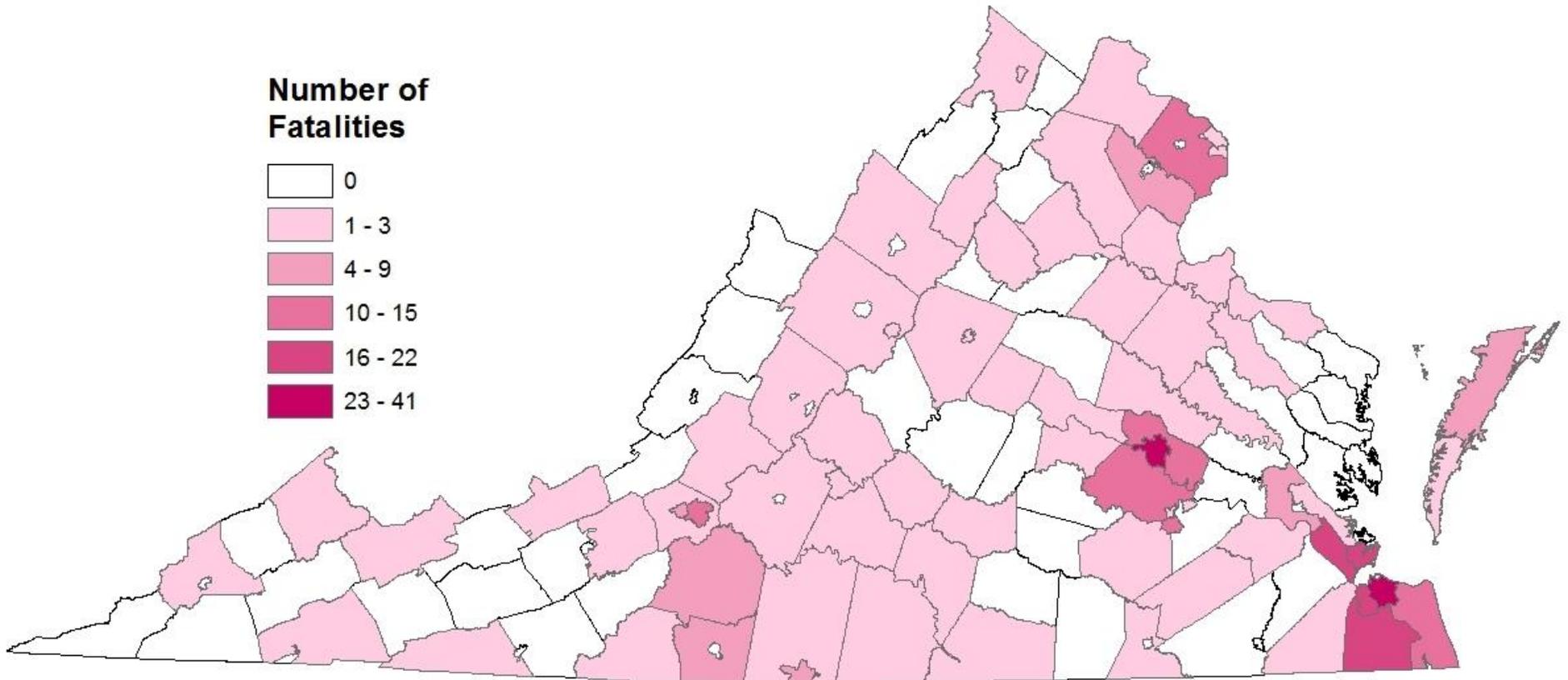
Table 2.7 Top 10 Localities with the Largest Number of Residential Homicides, 2015

Rank #	Locality of Residence	Homicides
1	Richmond City	41
2	Norfolk City	39
3	Portsmouth City	22
	Hampton City	22
5	Newport News City	18
6	Chesapeake City	17
7	Fairfax County	15
8	Chesterfield County	14
	Virginia Beach City	14
10	Petersburg City	13

Table 2.8 Top 10 Localities with the Highest Rate of Residential Homicides, 2015

Rank #	Locality of Residence	Homicide Rate
1	Petersburg City	40.0
2	Portsmouth City	22.9
3	Appomattox County	19.5
4	Richmond City	18.6
5	Essex County	18.0
6	Greensville County	16.8
7	Northampton County	16.5
8	Charlotte County	16.4
9	Hampton City	16.1
10	Norfolk City	15.8

Map 2.1 Number of Homicides by Locality of Residence, 2015



Map 2.2 Homicide Rates by Locality of Residence, 2015

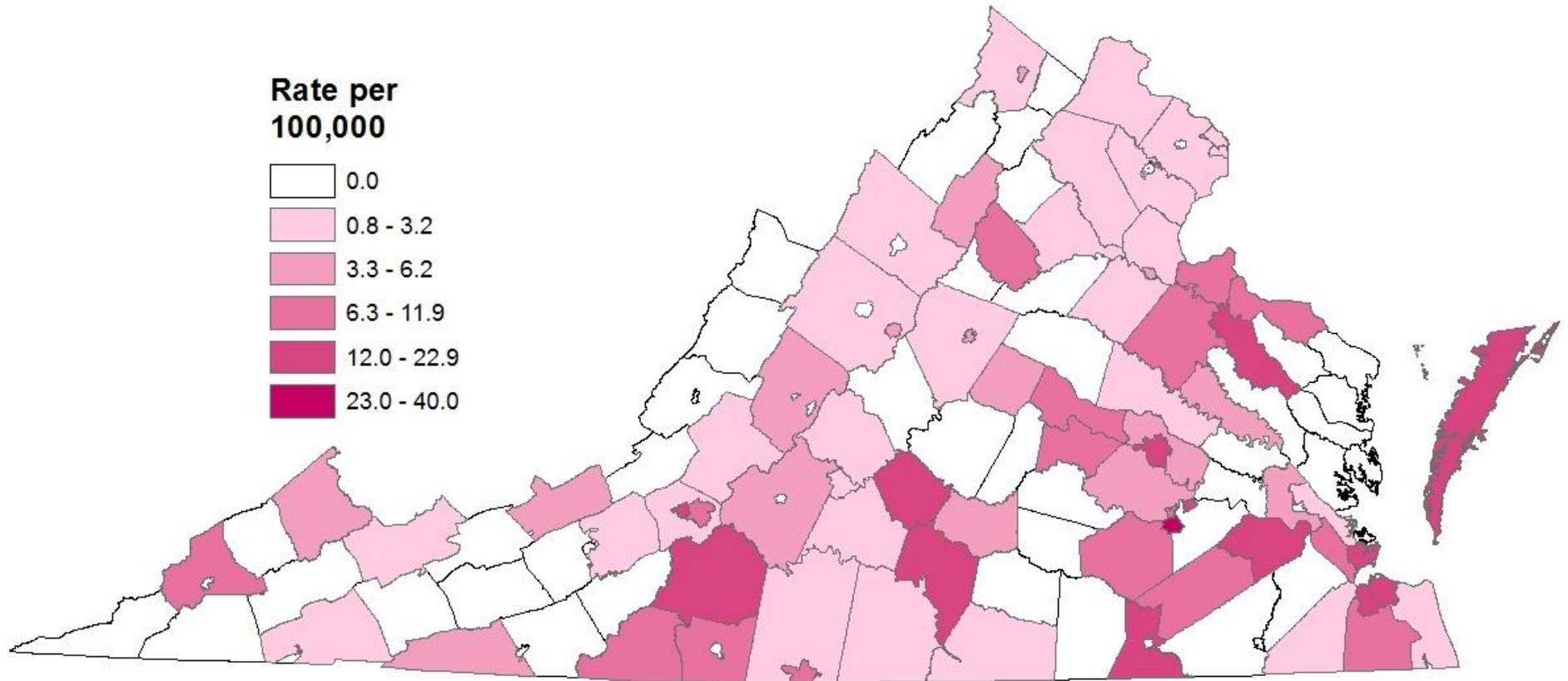


Table 2.9 Number and Rate of Homicide Deaths by Locality of Injury, 2015

Locality of Injury	Deaths	Rate
Accomack County	4	12.1
Albemarle County	1	0.9
Alexandria City	3	2.0
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	1	3.1
Appomattox County	3	19.5
Arlington County	2	0.9
Augusta County	2	2.7
Bath County	0	0.0
Bedford County	3	3.9
Bland County	0	0.0
Botetourt County	0	0.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	1	4.4
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	1	1.8
Caroline County	4	13.3
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	2	16.4
Charlottesville City	2	4.3
Chesapeake City	10	4.2
Chesterfield County	10	3.0
Clarke County	0	0.0
Colonial Heights City	1	5.6
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	1	2.0
Cumberland County	0	0.0
Danville City	6	14.3
Dickenson County	0	0.0
Dinwiddie County	1	3.6
Emporia City	1	18.2
Essex County	1	9.0
Fairfax City	0	0.0
Fairfax County	13	1.1
Falls Church City	0	0.0

Locality of Injury	Deaths	Rate
Fauquier County	1	1.5
Floyd County	0	0.0
Fluvanna County	1	3.8
Franklin City	1	11.8
Franklin County	9	16.0
Frederick County	2	2.4
Fredericksburg City	6	21.3
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	0	0.0
Goochland County	1	4.5
Grayson County	1	6.2
Greene County	0	0.0
Greensville County	2	16.8
Halifax County	1	2.8
Hampton City	14	10.3
Hanover County	3	2.9
Harrisonburg City	1	1.9
Henrico County	12	3.7
Henry County	5	9.6
Highland County	0	0.0
Hopewell City	4	17.9
Isle of Wight County	0	0.0
James City County	1	1.4
King and Queen County	0	0.0
King George County	1	3.9
King William County	1	6.1
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	4	1.1
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	2	2.5
Madison County	1	7.6
Manassas	0	0.0
Manassas Park	0	0.0
Martinsville City	1	7.3
Mathews County	0	0.0
Mecklenburg County	1	3.2

Locality of Injury	Deaths	Rate
Middlesex County	0	0.0
Montgomery County	2	2.0
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	26	14.3
Norfolk City	36	14.6
Northampton County	2	16.5
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	0	0.0
Page County	1	4.2
Patrick County	1	5.5
Petersburg City	14	43.1
Pittsylvania County	0	0.0
Poquoson City	0	0.0
Portsmouth City	25	26.0
Powhatan County	1	3.6
Prince Edward County	1	4.4
Prince George County	1	2.6
Prince William County	10	2.2
Pulaski County	0	0.0
Radford City	0	0.0
Rappahannock County	1	13.6
Richmond City	47	21.3
Richmond County	0	0.0
Roanoke City	13	13.0
Roanoke County	1	1.1
Rockbridge County	1	4.5

Locality of Injury	Deaths	Rate
Rockingham County	0	0.0
Russell County	0	0.0
Salem City	2	7.9
Scott County	0	0.0
Shenandoah County	0	0.0
Smyth County	0	0.0
Southampton County	0	0.0
Spotsylvania County	1	0.8
Stafford County	4	2.8
Staunton City	0	0.0
Suffolk City	3	3.4
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	1	2.3
Virginia Beach City	20	4.4
Warren County	0	0.0
Washington County	1	1.8
Waynesboro City	0	0.0
Westmoreland County	2	11.3
Williamsburg City	0	0.0
Winchester City	1	3.7
Wise County	3	7.6
Wythe County	0	0.0
York County	4	5.9
<i>Subtotal (in-state)</i>	374	4.5
Out of State	10	ND
Unknown	4	ND
<i>Subtotal (out-of-state)</i>	14	ND
TOTAL	388	4.6

Note: No denominator is represented by ND.

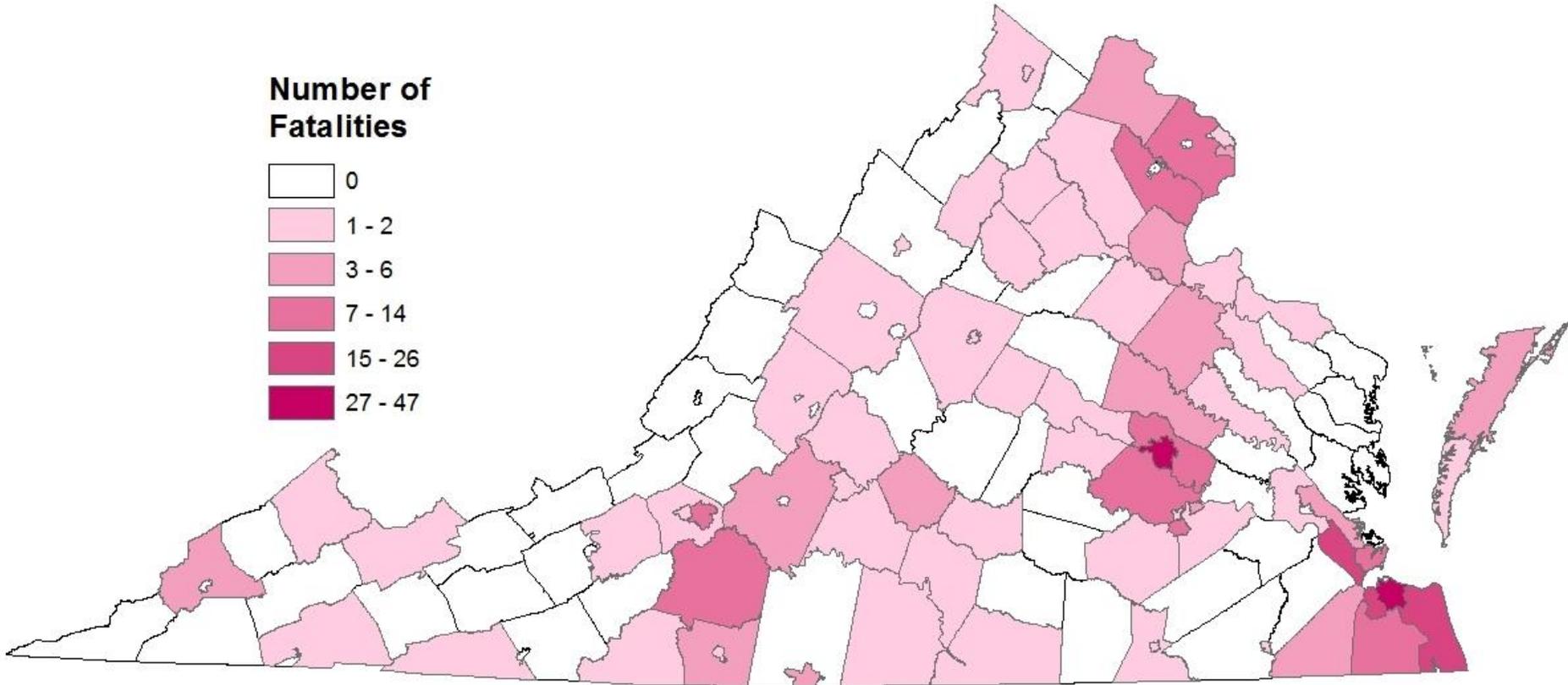
Table 2.10 Top 10 Localities with the Largest Number of Homicides by Locality of Injury, 2015

Rank #	Locality of Injury	Homicides
1	Richmond City	47
2	Norfolk City	36
3	Newport News City	26
4	Portsmouth City	25
5	Virginia Beach City	20
6	Hampton City	14
8	Petersburg City	14
	Fairfax County	13
10	Roanoke City	13
	Henrico County	12

Table 2.11 Top 10 Locations City/Counties with the Highest Rate of Homicides by Locality of Injury, 2015

Rank #	Locality of Injury	Homicide Rate
1	Petersburg City	43.1
2	Portsmouth City	26.0
3	Fredericksburg City	21.3
	Richmond City	21.3
5	Appomattox County	19.5
6	Emporia City	18.2
7	Hopewell City	17.9
8	Greensville County	16.8
9	Northampton County	16.5
10	Charlotte County	16.4

Map 2.3 Number of Homicides by Locality of Injury, 2015



Map 2.4 Homicide Rates by Locality of Injury, 2015

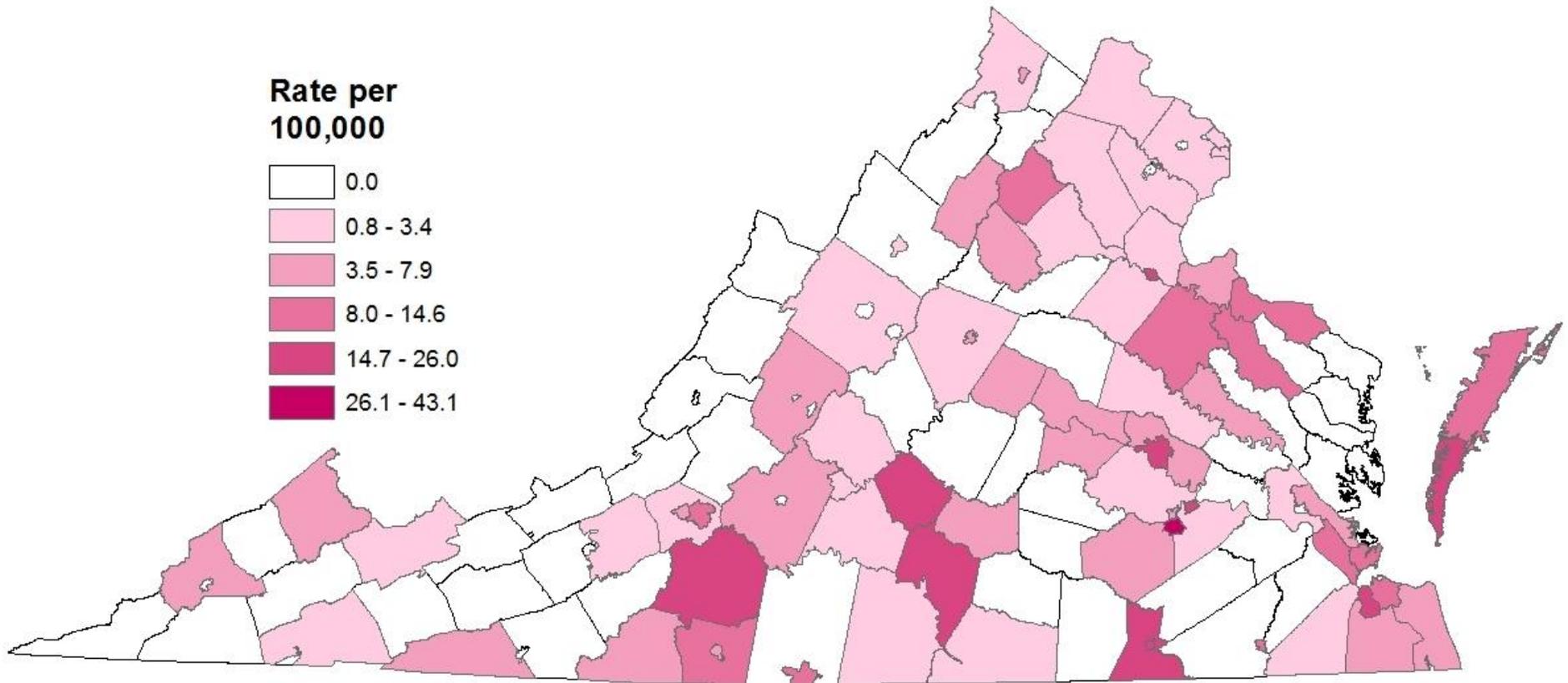


Table 2.12 Number of Homicide Deaths by Locality of Death and Year of Death, 2006-2015

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Accomack County	5	4	2	2	2	4	1	3	4	3	30
Albemarle County	1	0	1	0	3	0	3	2	2	1	13
Alexandria City	4	7	4	4	2	0	2	6	4	3	36
Alleghany County	0	3	1	0	2	2	1	2	0	0	11
Amelia County	0	0	0	0	0	0	0	0	0	0	0
Amherst County	0	1	1	1	0	1	0	1	2	0	7
Appomattox County	0	1	1	0	7	1	0	0	1	3	14
Arlington County	3	3	4	2	0	0	5	0	1	2	20
Augusta County	3	1	1	1	3	3	2	0	4	1	19
Bath County	0	0	0	2	0	0	0	0	0	0	2
Bedford City	0	0	0	0	0	0	0	0	--	--	0
Bedford County	1	2	0	0	2	0	0	0	4	3	12
Bland County	0	0	0	1	1	0	0	0	0	0	2
Botetourt County	0	0	0	0	0	0	0	1	0	0	1
Bristol City	4	0	0	0	1	1	1	0	0	0	7
Brunswick County	3	1	2	0	0	0	1	0	0	0	7
Buchanan County	1	0	2	6	3	6	1	0	1	1	21
Buckingham County	1	1	0	0	0	1	0	0	2	0	5
Buena Vista City	0	0	0	0	0	0	0	1	0	0	1
Campbell County	2	2	2	5	2	1	3	3	0	0	20
Caroline County	5	4	0	0	0	0	0	0	0	1	10
Carroll County	1	4	1	1	1	0	0	3	1	0	12
Charles City County	0	0	1	0	1	0	0	0	0	0	2
Charlotte County	0	0	1	1	0	1	1	1	0	2	7
Charlottesville City	5	6	12	3	5	3	4	6	8	4	56
Chesapeake City	7	7	7	10	9	10	9	8	8	11	86
Chesterfield County	5	6	9	3	6	11	9	9	9	8	75
Clarke County	0	0	1	1	0	0	0	0	0	0	2

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Colonial Heights City	0	0	0	0	0	2	0	0	1	1	4
Covington City	0	0	0	0	1	0	0	1	0	0	2
Craig County	0	0	1	0	0	0	0	0	0	0	1
Culpeper County	1	1	0	0	0	3	1	2	6	1	15
Cumberland County	0	1	0	2	0	0	1	0	0	0	4
Danville City	5	5	8	10	7	7	5	5	3	6	61
Dickenson County	0	1	1	1	2	2	0	1	1	0	9
Dinwiddie County	5	1	1	0	2	0	3	4	0	2	18
Emporia City	1	2	2	1	2	1	1	0	1	2	13
Essex County	0	0	0	0	1	1	0	1	1	1	5
Fairfax City	1	0	1	0	0	0	0	0	0	0	2
Fairfax County	29	20	28	24	19	16	19	10	16	17	198
Falls Church City	0	0	0	1	0	0	1	1	0	0	3
Fauquier County	2	4	1	2	1	1	3	2	1	1	18
Floyd County	0	0	2	1	0	1	0	0	0	0	4
Fluvanna County	0	0	1	0	0	0	0	0	0	1	2
Franklin City	0	0	0	2	1	0	0	0	1	0	4
Franklin County	2	1	0	4	4	2	0	4	2	9	28
Frederick County	7	0	1	2	1	1	2	2	2	2	20
Fredericksburg City	0	2	3	4	3	3	3	4	1	7	30
Galax City	1	2	0	1	0	0	0	0	0	0	4
Giles County	1	0	0	0	0	0	0	0	1	0	2
Gloucester County	0	1	1	0	1	2	3	0	0	0	8
Goochland County	1	0	2	0	1	0	0	1	1	1	7
Grayson County	0	0	7	0	0	0	0	1	0	1	9
Greene County	0	1	0	0	0	3	0	0	0	0	4
Greensville County	5	0	5	4	3	2	0	2	0	1	22
Halifax County	1	3	5	0	2	2	0	0	0	1	14
Hampton City	14	6	4	7	9	3	7	20	7	11	88
Hanover County	2	0	1	0	2	2	5	0	1	3	16
Harrisonburg City	4	0	0	0	1	2	1	1	0	1	10

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Henrico County	10	6	15	7	9	9	9	6	6	9	86
Henry County	7	3	3	5	6	4	5	1	3	2	39
Highland County	0	0	0	0	0	0	0	0	0	0	0
Hopewell City	4	2	4	2	2	1	2	2	5	3	27
Isle of Wight County	1	0	0	1	0	1	2	1	1	1	8
James City County	1	0	1	0	0	1	1	2	0	2	8
King and Queen County	0	0	0	0	0	0	1	0	0	0	1
King George County	0	0	0	1	0	0	0	0	1	1	3
King William County	0	1	0	0	0	0	0	0	0	0	1
Lancaster County	2	0	1	0	2	1	1	0	0	0	7
Lee County	0	1	2	1	4	4	0	2	0	0	14
Lexington City	0	0	0	0	0	0	0	0	0	0	0
Loudoun County	4	1	3	4	1	2	2	5	4	2	28
Louisa County	0	4	1	1	3	0	1	0	1	0	11
Lunenburg County	1	1	2	1	0	0	0	1	0	0	6
Lynchburg City	2	1	5	0	4	5	3	1	8	4	33
Madison County	0	0	1	0	1	3	1	1	0	1	8
Manassas	1	2	5	2	0	3	1	0	2	0	16
Manassas Park	0	0	0	0	0	0	0	1	0	0	1
Martinsville City	0	2	3	0	4	3	1	2	2	3	20
Mathews County	0	0	0	1	0	0	0	0	0	0	1
Mecklenburg County	0	1	4	3	2	1	0	2	1	1	15
Middlesex County	1	0	0	0	0	1	0	1	2	0	5
Montgomery County	3	31	2	8	2	1	0	2	2	2	53
Nelson County	0	1	0	1	1	1	0	1	0	0	5
New Kent County	0	0	1	1	0	0	0	0	0	0	2
Newport News City	20	31	23	31	30	21	29	18	26	31	260
Norfolk City	34	75	41	63	47	40	56	38	48	48	490
Northampton County	2	3	0	0	2	1	1	4	0	3	16
Northumberland County	0	1	0	0	0	0	1	0	0	0	2
Norton City	0	0	0	0	0	0	0	0	0	0	0

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Nottoway County	0	1	0	0	0	0	2	0	1	0	4
Orange County	2	0	1	0	1	0	1	0	2	0	7
Page County	1	0	0	0	1	0	1	0	3	0	6
Patrick County	0	1	0	0	0	0	0	0	1	2	4
Petersburg City	10	8	4	11	11	8	5	6	12	18	93
Pittsylvania County	2	3	3	2	4	4	1	0	2	0	21
Poquoson City	0	0	0	0	0	0	0	0	0	0	0
Portsmouth City	18	11	14	16	13	13	8	7	7	23	130
Powhatan County	0	0	3	1	1	3	0	0	0	1	9
Prince Edward County	0	1	1	7	1	1	1	3	0	0	15
Prince George County	0	0	0	1	2	0	0	1	1	0	5
Prince William County	12	11	10	9	9	7	1	5	4	9	77
Pulaski County	1	0	2	1	2	0	1	1	4	0	12
Radford City	1	0	0	0	1	0	1	0	0	0	3
Rappahannock County	1	0	0	0	1	0	0	0	0	0	2
Richmond City	85	76	47	58	56	50	55	56	55	54	592
Richmond County	0	0	1	0	0	0	0	0	0	0	1
Roanoke City	13	12	23	14	14	15	12	18	7	17	145
Roanoke County	1	2	0	1	4	0	1	0	1	0	10
Rockbridge County	0	1	0	0	1	1	0	0	0	1	4
Rockingham County	1	1	1	2	0	1	0	0	4	0	10
Russell County	2	0	1	1	0	2	0	2	3	0	11
Salem City	0	1	1	0	1	0	1	0	0	1	5
Scott County	0	2	1	0	1	1	1	0	0	0	6
Shenandoah County	0	0	0	1	0	0	1	1	3	0	6
Smyth County	0	0	1	0	0	2	1	0	0	0	4
Southampton County	1	3	0	2	1	0	0	0	0	0	7
Spotsylvania County	4	4	0	3	5	2	1	3	1	1	24
Stafford County	1	2	3	4	1	2	1	3	1	4	22
Staunton City	0	0	1	2	0	0	0	1	1	1	6
Suffolk City	8	2	5	5	3	3	2	6	2	2	38

Locality of Death	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTAL
Surry County	0	0	1	0	2	0	0	0	0	0	3
Sussex County	1	0	1	0	0	0	1	2	0	0	5
Tazewell County	0	3	2	5	3	0	2	0	1	1	17
Virginia Beach City	20	16	18	16	13	14	14	17	17	18	163
Warren County	2	0	0	1	0	0	0	0	1	1	5
Washington County	0	0	2	1	2	2	1	2	4	0	14
Waynesboro City	0	1	0	0	1	0	0	0	0	0	2
Westmoreland County	2	1	1	0	0	0	1	0	0	2	7
Williamsburg City	1	0	0	0	0	0	0	0	0	0	1
Winchester City	2	2	2	0	0	2	1	1	1	2	13
Wise County	0	2	0	2	0	0	4	0	2	2	12
Wythe County	1	0	2	0	0	1	0	0	0	0	4
York County	3	1	1	0	0	3	0	4	4	1	17
<i>Subtotal (in-state)</i>	422	439	398	408	388	341	337	338	354	386	3811
Out of State	1	1	2	4	3	4	7	1	4	2	29
Unknown	4	0	0	0	0	0	0	1	1	0	6
<i>Subtotal (out-of-state)</i>	5	1	2	4	3	4	7	2	5	2	35
TOTAL	427	440	400	412	391	345	344	340	359	388	3846

NATURAL DEATHS (N=1,712)

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 27.4% of all deaths investigated by the OCME in 2015
- The number of natural deaths accepted by OCME decreased in 2015 compared with 2014 (a decrease of 119 deaths or 6.5%).

Figure 2.19 Number and Rate of Natural Deaths by Year of Death, 1999-2015

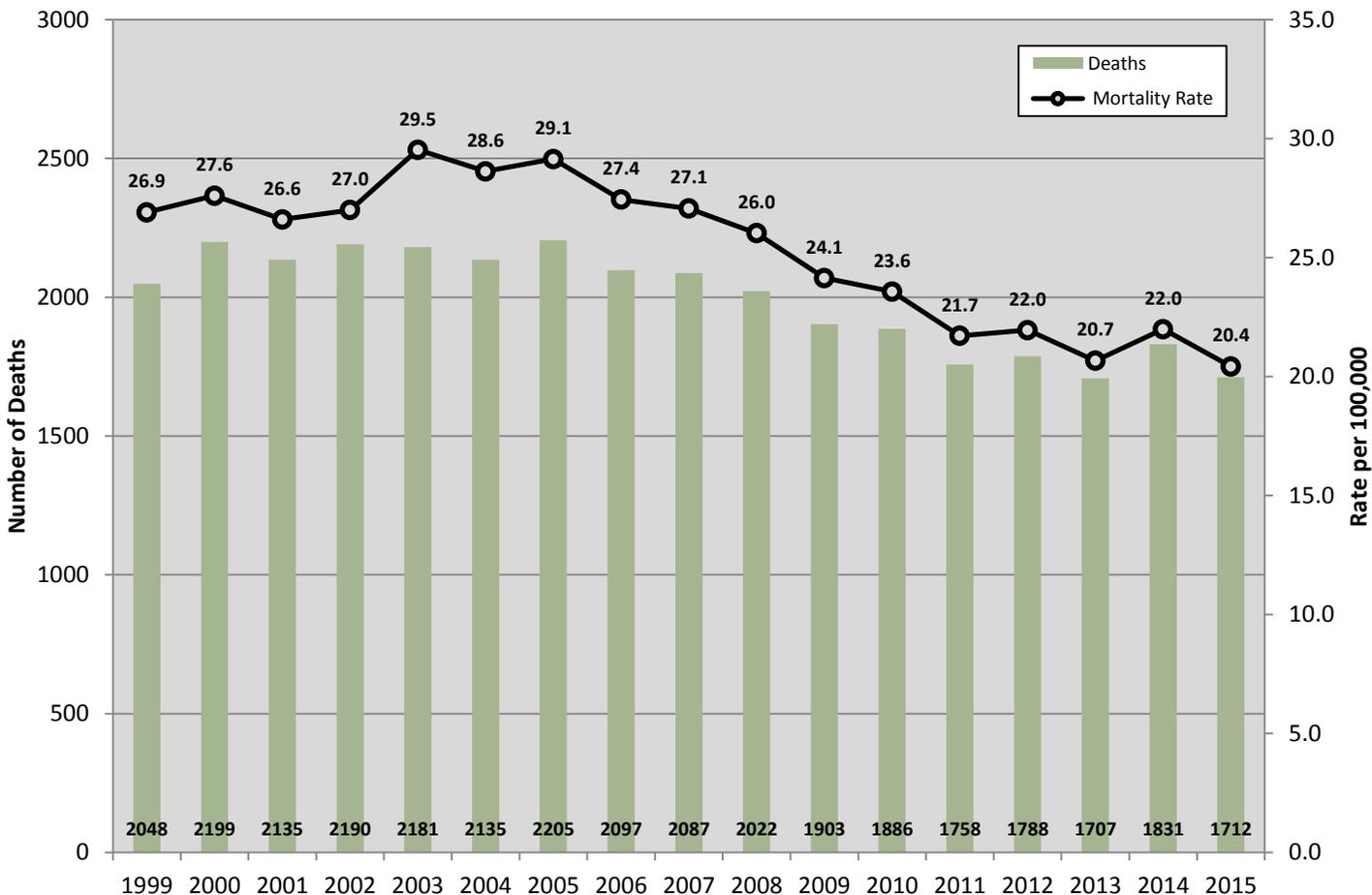


Figure 2.20 Number of Natural Deaths by Age Group and Gender, 2015

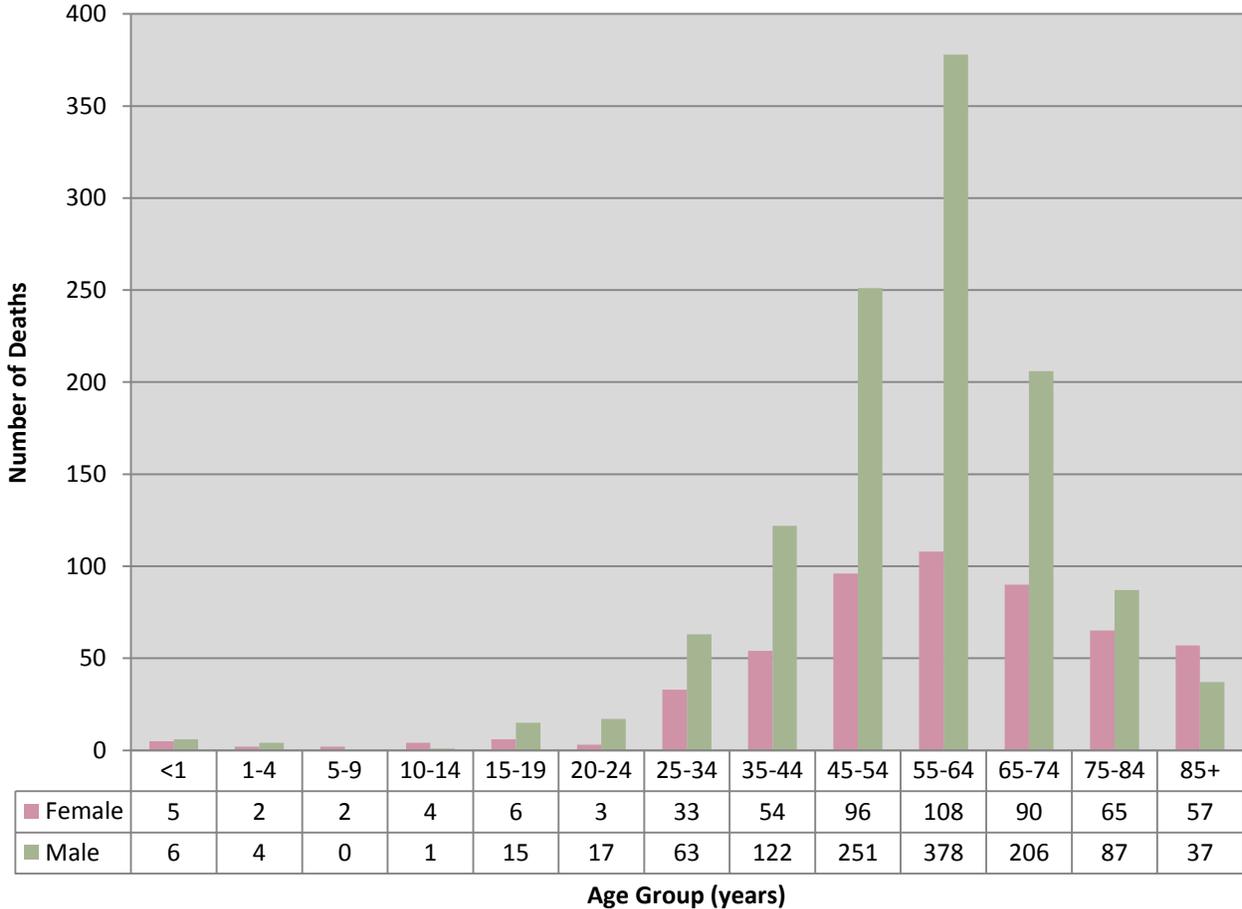


Table 2.13 Number of Natural Deaths by Cause and Method of Death, 2015

Method and Cause of Death	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Acute coronary insufficiency	2	123
Arrhythmogenic right ventricular dysplasia	3	3
Atherosclerosis	48	514
Atherosclerosis and hypertension	105	184
Cardiac dysrhythmia of undetermined etiology	23	30
Cardiomyopathy not otherwise specified	14	14
Congenital defect	2	2
Hypertension	44	211
Other cardiac disease/disorder	21	29
Valvular	7	8
Vascular dissection/rupture	9	10
Central Nervous System Diseases/Disorders		
Central nervous system malignancy	1	2
Degenerative disease	4	10
Other CNS disease/disorder	10	16
Seizure disorder	8	14
Vascular disease	14	29
Gastrointestinal Diseases/Disorders		
Cirrhosis	9	21
GI hemorrhage	0	18
GI malignancy	10	20
Hepatitis	3	8
Other GI disease/disorder	12	20
Genitourinal Diseases/Disorders		
Genitourinal malignancy	7	9
Other GU disease/disorder	1	4
Renal disease	4	5
Other Natural Diseases/Disorders		
Other malignancy	4	8
Other natural disease/disorder	4	9
Perinatal and Pediatric Diseases/Disorders		
Fetal complications	0	1
Other perinatal or pediatric disorder	2	2
Sudden Infant Death Syndrome (SIDS)	2	2
Pulmonary Disease/Disorders		
Asthma	2	5
COPD	4	33
Emboli	21	27
Pneumonia	36	56

Pulmonary malignancy	13	26
Other pulmonary disease/disorder	5	6
Systemic Diseases/Disorders		
AIDS/HIV	0	3
Blood disorders	2	6
Chronic alcoholism	29	123
Chronic drug abuse	2	6
Diabetes	8	42
Metastatic malignancy of unknown primary	0	1
Obesity	5	20
Other infectious disease	6	7
Other systemic disease/disorder	3	10
Sepsis	8	15
TOTAL NATURAL DEATHS	517	1712

SUICIDE DEATHS (N=1,097)

In general, suicide deaths have been slowly increasing since 1999; however, in 2015, there was a slight decrease in the number of deaths when compared to 2014 (decrease of 4.2%). The largest number of victims were male (77.1%), white (85.6%), and aged 45-54 years of age (20.0%). 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 (37.5 and 27.4 per 100,000 persons, respectively).

- Whites committed suicide at a rate 8.8 times that of Hispanics, 3.9 times that of Asians, 3.0 times that of Blacks, and 2.3 times that of Native Americans
- Males were 3.5 times more likely to commit suicide than females
- Firearms (specifically handguns), hangings, and drug use were the 3 most commonly used methods in suicides, with these deaths representing 57.2%, 21.3%, and 11.0% of all suicides, respectively
- Of the 42.1% of suicide decedents tested for toxicology, ethanol was present in 31.0%. Furthermore, of those tested for ethanol, 21.6% of suicides had a blood ethanol of 0.08% BAC or greater

Figure 2.21 Number and Rate of Suicide Deaths by Year of Death, 1999-2015

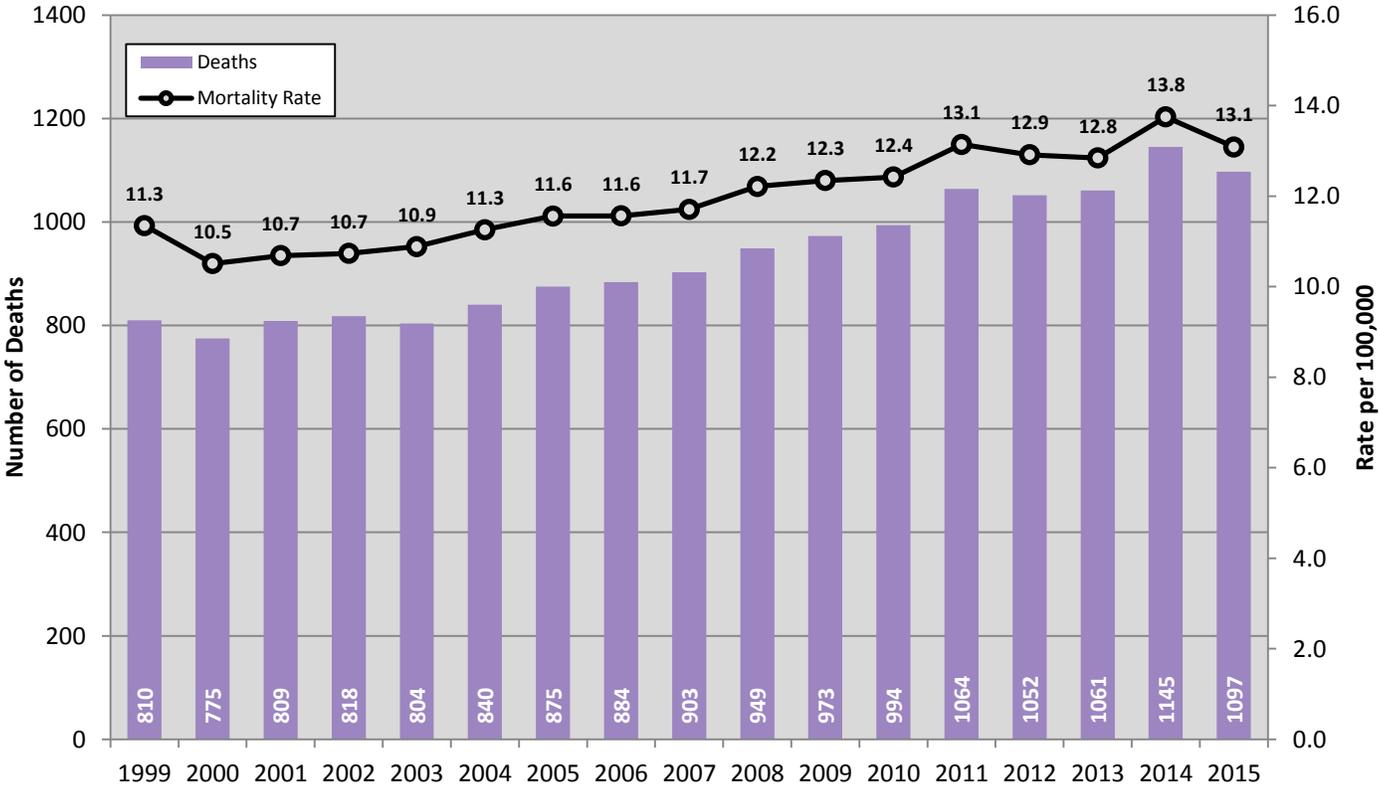


Figure 2.22 Number and Rate of Suicide Deaths by Age Group and Gender, 2015

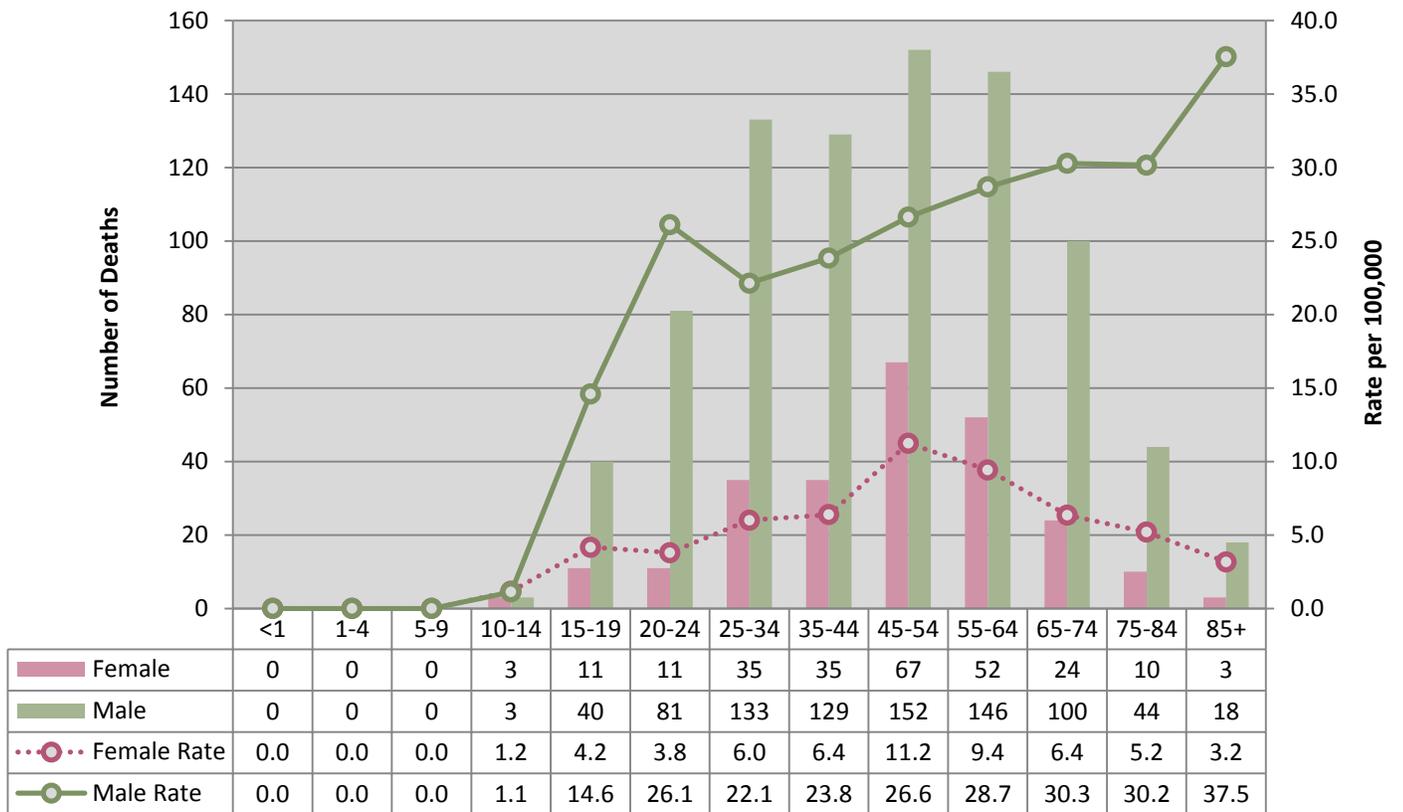


Figure 2.23 Percentage of Suicide Deaths by Race/Ethnicity, 2015

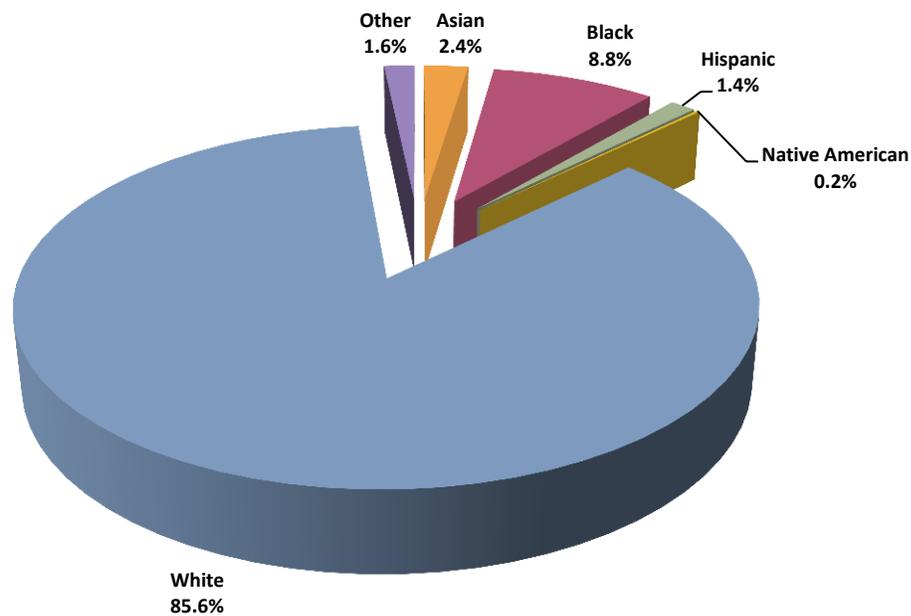
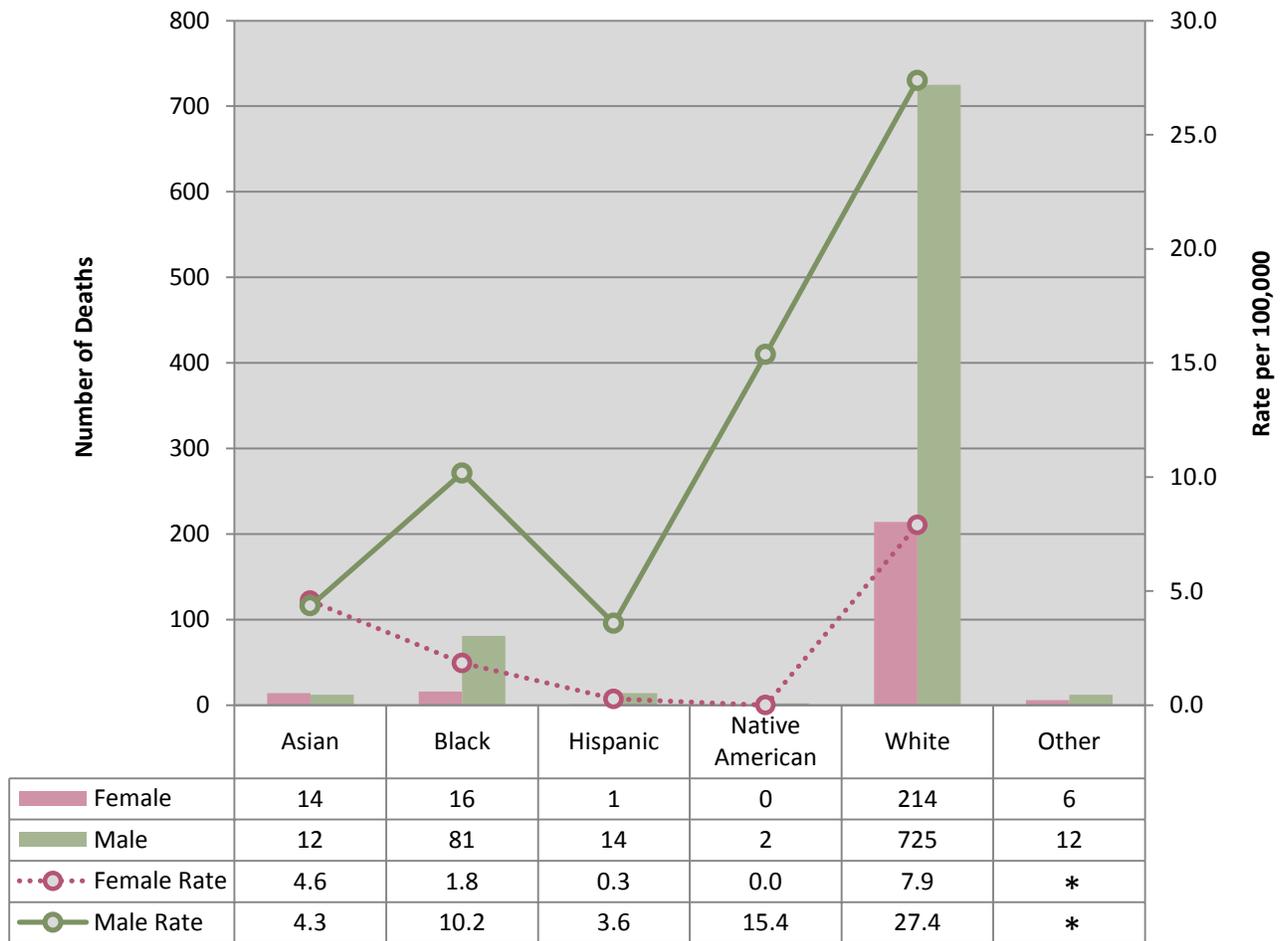


Figure 2.24 Number and Rate of Suicide Deaths by Race/Ethnicity and Gender, 2015



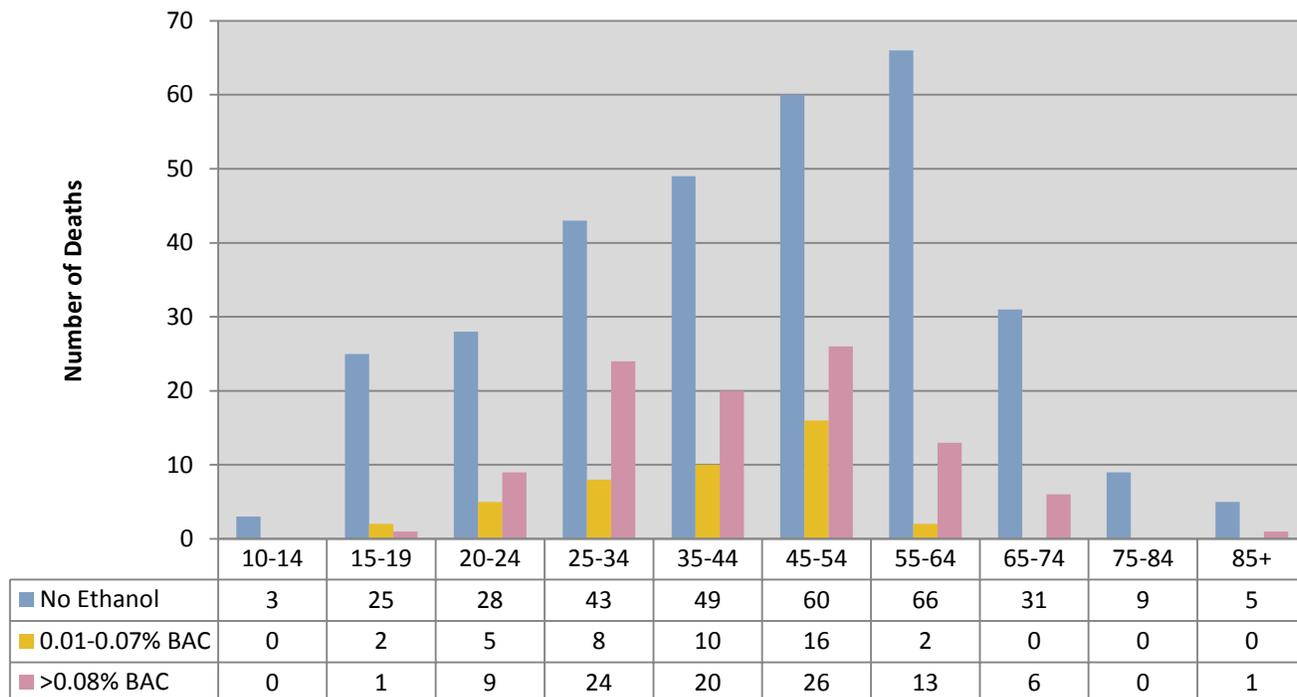
*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Hispanics and Native Americans)

Table 2.14 Number of Suicide Deaths by Cause and Method of Death, 2015

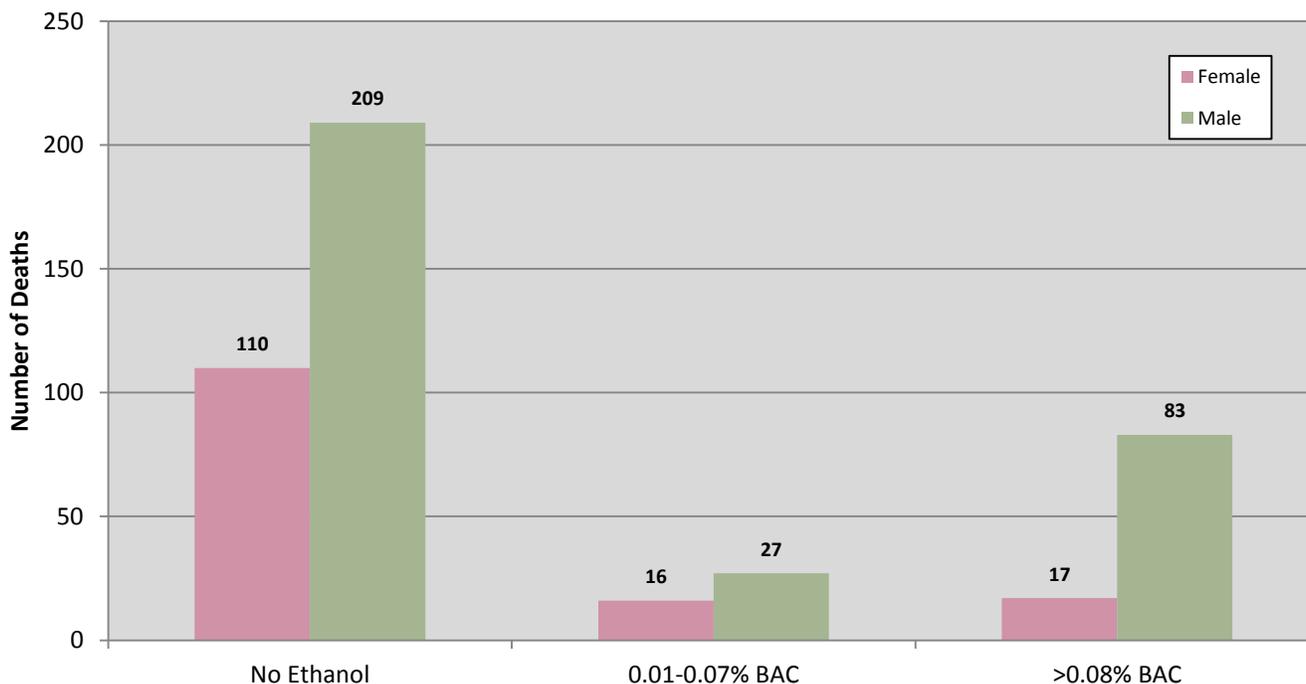
Method of Death	Autopsied	Total Cases
Asphyxia		
Carbon monoxide (CO) poisoning-motor vehicle exhaust	1	15
Carbon monoxide (CO) poisoning-other	1	3
Drowned	10	19
Hanged	44	234
Helium asphyxia	0	8
Oxygen depletion or replacement	0	1
Plastic bag asphyxia	1	6
Strangled/Neck compression	1	1
Suffocated/Smothered	1	2
Drug Use		
Ingested ethylene glycol	0	1
Ingested and/or injected illicit, prescription, and/or other type of drug	60	116
Other poisoning (e.g. heavy metals, detergent suicide)	0	4
Jump/Fall		
Jumped/Fell from height	4	14
Other		
Other	0	1
Traumatic Injury		
Cut/Stabbed self	6	19
Thermal burns and/or inhalation of combustible material	5	9
Shot self with firearm		
Handgun	501	504
Rifle	52	52
Shotgun	71	71
Unknown	0	1
Vehicular		
Car	1	2
Pickup truck	0	1
Sport utility vehicle	1	1
Tractor Trailer	0	3
Train	1	8
Van	0	1
TOTAL SUICIDE DEATHS	761	1097

Figure 2.25 Number of Suicide Deaths by Age Group and Ethanol Level (N=462), 2015



*Note: Of the 1,097 suicides, 57.9% (n=635) did not receive toxicology

Figure 2.26 Number of Suicide Deaths by Gender and Ethanol Level (N=462), 2015



*Note: Of the 1,097 suicides, 57.9% (n=635) did not receive toxicology testing

Table 2.15 Number of Suicide Deaths by Manner of Death and Ethanol Level (N=462), 2015

Method of Death	No Ethanol	0.01-0.07% BAC	>0.08% BAC
Asphyxia			
Carbon monoxide (CO) poisoning-motor vehicle exhaust	12	3	0
Carbon monoxide (CO) poisoning-other	2	1	0
Drowned	7	4	0
Hanged	56	7	23
Helium asphyxia	3	1	0
Oxygen depletion or replacement	0	0	0
Plastic bag asphyxia	3	0	1
Strangled/Neck compression	1	0	0
Suffocated/Smothered	0	1	0
Drug Use			
Ingested ethylene glycol	1	0	0
Ingested and/or injected illicit, prescription, and/or other type of drug	91	13	9
Other poisoning (e.g. heavy metals, detergent suicide)	2	0	0
Jump/Fall			
Jumped/Fell from height	5	1	1
Other			
Other	1	0	0
Traumatic Injury			
Cut/Stabbed self	8	1	2
Thermal burns and/or inhalation of combustible material	6	1	1
Shot self with firearm			
Handgun	88	9	53
Rifle	11	0	3
Shotgun	13	1	3
Unknown	0	0	0
Vehicular			
Car	2	0	0
Pickup truck	0	0	1
Sport utility vehicle	1	0	0
Tractor Trailer	3	0	0
Train	2	0	3
Van	1	0	0
TOTAL SUICIDE DEATHS	319	43	100

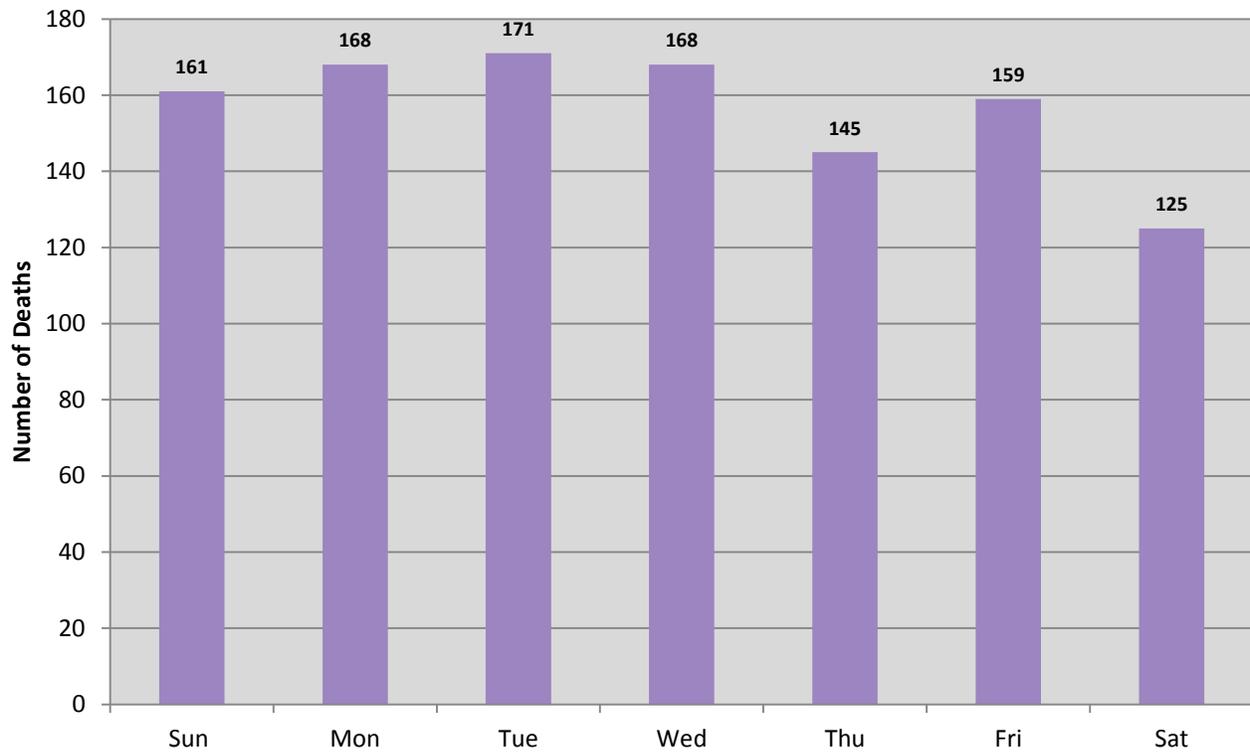
Figure 2.27 Number of Suicide Deaths by Month of Death, 2015**Figure 2.28 Number of Suicide Deaths by Day of the Week, 2015**

Table 2.16 Number and Rate of Suicide Deaths by Locality of Residence, 2015

Locality of Residence	Deaths	Rate
Accomack County	9	27.3
Albemarle County	12	11.4
Alexandria City	11	7.2
Alleghany County	3	19.1
Amelia County	6	46.5
Amherst County	2	6.3
Appomattox County	7	45.4
Arlington County	11	4.8
Augusta County	16	21.5
Bath County	1	22.4
Bedford County	20	25.7
Bland County	1	15.2
Botetourt County	6	18.0
Bristol City	0	0.0
Brunswick County	3	18.0
Buchanan County	5	22.0
Buckingham County	2	11.7
Buena Vista City	0	0.0
Campbell County	14	25.4
Caroline County	3	10.0
Carroll County	8	26.9
Charles City County	2	28.4
Charlotte County	2	16.4
Charlottesville City	3	6.4
Chesapeake City	39	16.6
Chesterfield County	34	10.1
Clarke County	6	41.8
Colonial Heights City	4	22.4
Covington City	2	35.3
Craig County	1	19.2
Culpeper County	8	16.2
Cumberland County	0	0.0
Danville City	3	7.1
Dickenson County	3	19.8
Dinwiddie County	10	35.9
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	5	20.8
Fairfax County	80	7.0
Falls Church City	0	0.0
Fauquier County	8	11.6

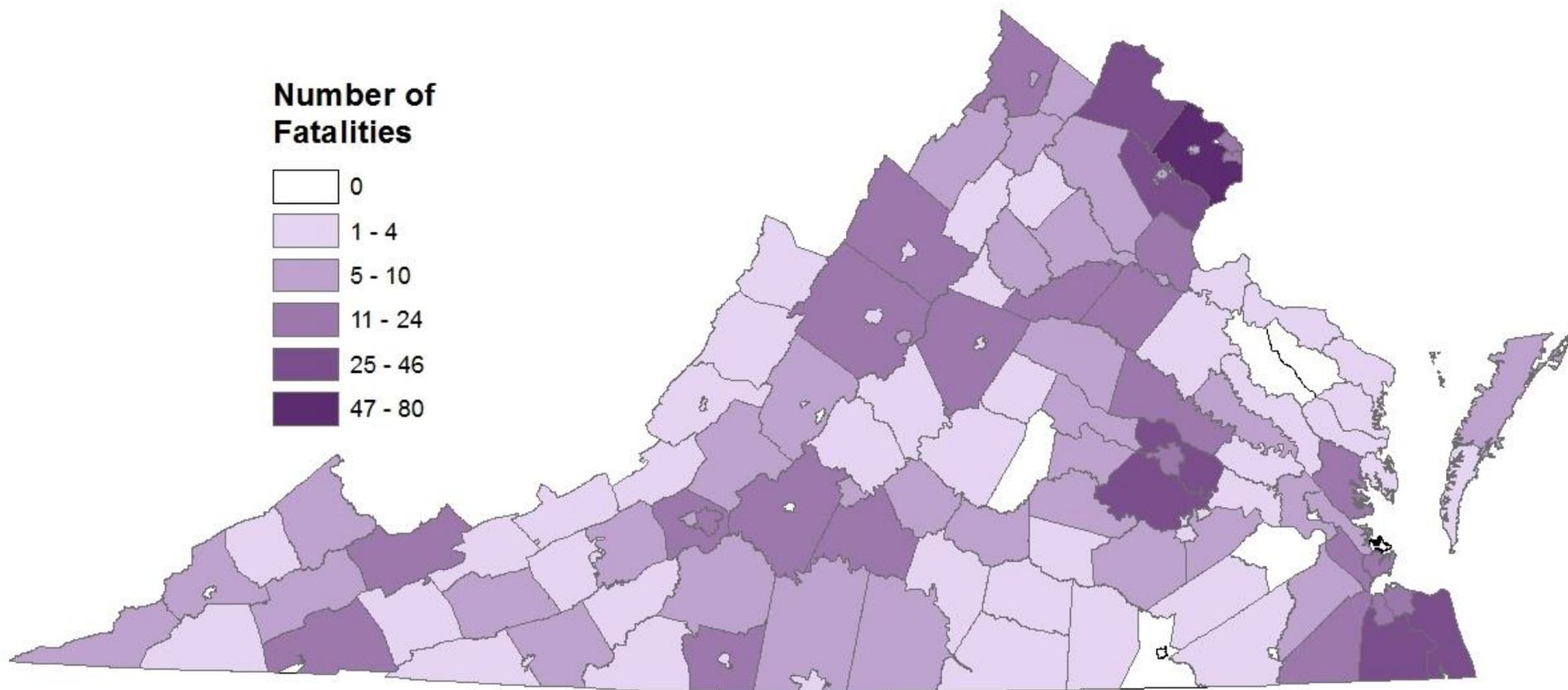
Locality of Residence	Deaths	Rate
Floyd County	4	25.6
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	10	17.8
Frederick County	18	21.6
Fredericksburg City	5	17.8
Galax City	2	28.9
Giles County	1	6.0
Gloucester County	14	37.7
Goochland County	6	27.0
Grayson County	3	18.7
Greene County	1	5.2
Greensville County	0	0.0
Halifax County	7	19.9
Hampton City	13	9.5
Hanover County	12	11.6
Harrisonburg City	3	5.7
Henrico County	41	12.6
Henry County	11	21.2
Highland County	1	45.2
Hopewell City	4	17.9
Isle of Wight County	6	16.5
James City County	10	13.7
King and Queen County	1	14.0
King George County	3	11.8
King William County	5	30.7
Lancaster County	4	36.5
Lee County	5	20.2
Lexington City	1	13.8
Loudoun County	37	9.9
Louisa County	5	14.5
Lunenburg County	4	32.5
Lynchburg City	8	10.0
Madison County	6	45.7
Manassas	5	12.0
Manassas Park	2	12.7
Martinsville City	3	22.0
Mathews County	3	33.9
Mecklenburg County	4	12.9
Middlesex County	3	28.3
Montgomery County	10	10.2

Locality of Residence	Deaths	Rate
Nelson County	2	13.5
New Kent County	4	19.6
Newport News City	20	11.0
Norfolk City	24	9.7
Northampton County	3	24.7
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	3	19.1
Orange County	11	31.1
Page County	4	16.9
Patrick County	4	22.2
Petersburg City	1	3.1
Pittsylvania County	9	14.5
Poquoson City	0	0.0
Portsmouth City	14	14.6
Powhatan County	6	21.4
Prince Edward County	5	21.8
Prince George County	9	23.8
Prince William County	35	7.7
Pulaski County	4	11.7
Radford City	1	5.7
Rappahannock County	2	27.1
Richmond City	16	7.3
Richmond County	0	0.0
Roanoke City	13	13.0
Roanoke County	16	16.9
Rockbridge County	6	26.8
Rockingham County	19	24.2
Russell County	5	17.9

Locality of Residence	Deaths	Rate
Salem City	5	19.7
Scott County	4	18.1
Shenandoah County	8	18.5
Smyth County	4	12.7
Southampton County	2	11.0
Spotsylvania County	16	12.3
Stafford County	20	14.1
Staunton City	2	8.2
Suffolk City	11	12.5
Surry County	0	0.0
Sussex County	1	8.5
Tazewell County	12	28.0
Virginia Beach City	46	10.2
Warren County	5	12.8
Washington County	13	23.8
Waynesboro City	6	27.9
Westmoreland County	1	5.7
Williamsburg City	0	0.0
Winchester City	5	18.3
Wise County	8	20.1
Wythe County	9	30.9
York County	8	11.8
<i>Subtotal (in-state)</i>	1055	12.6
Out of State	38	ND
Unknown	4	ND
<i>Subtotal (out-of-state)</i>	42	ND
TOTAL	1097	13.1

Note: No denominator is represented by ND

Map 2.5 Number of Suicides by Locality of Residence, 2015



Map 2.6 Suicide Rates by Locality of Residence, 2015

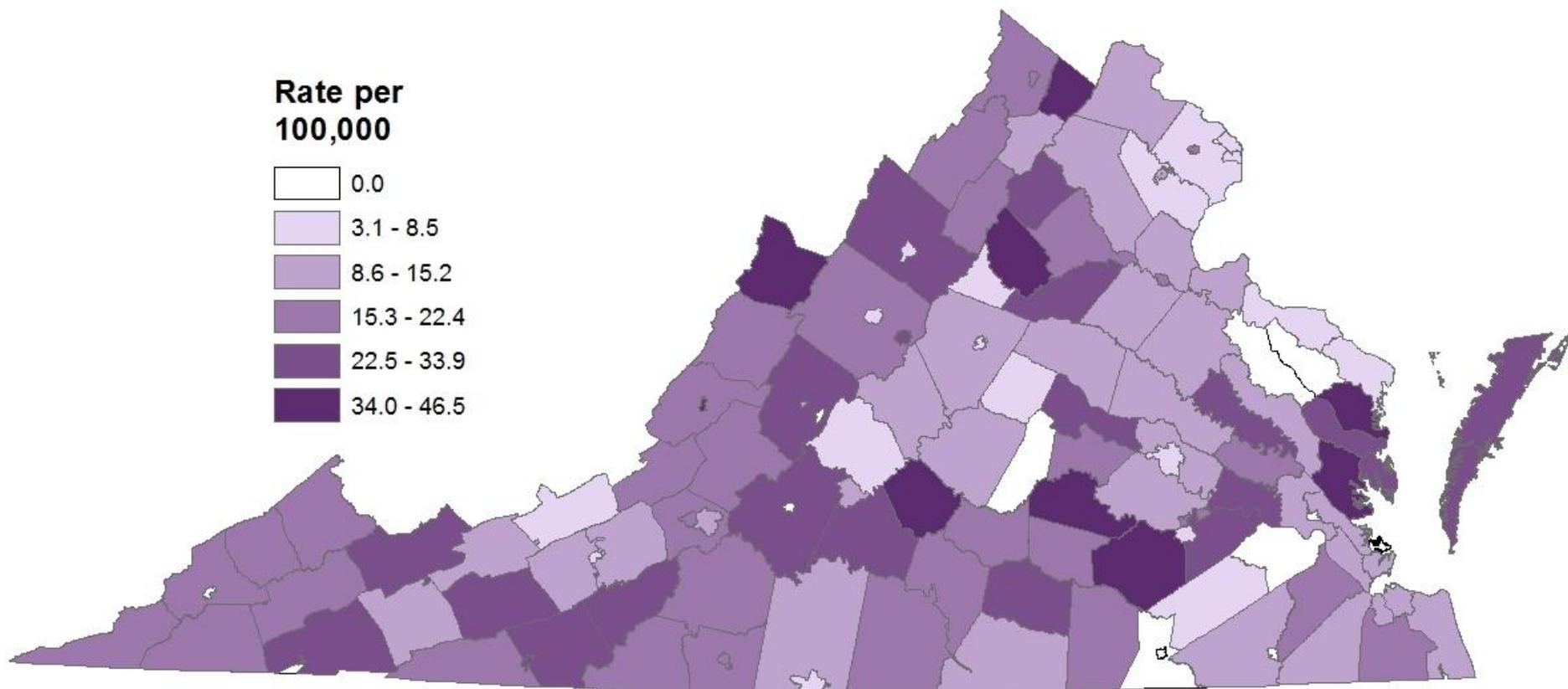


Table 2.17 Number of Suicide Deaths by Locality of Injury and Year of Death, 2006-2015

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Accomack County	4	2	1	4	6	6	1	4	4	9	37
Albemarle County	2	6	8	13	6	11	10	12	15	11	92
Alexandria City	12	11	13	14	14	14	10	16	15	10	117
Alleghany County	3	2	0	4	6	5	4	1	2	3	27
Amelia County	2	1	1	3	1	4	6	1	5	6	28
Amherst County	4	6	6	7	7	4	7	2	10	2	51
Appomattox County	2	0	0	3	3	2	2	1	2	8	21
Arlington County	14	12	28	10	21	16	16	18	18	11	150
Augusta County	12	11	13	16	11	14	16	20	20	15	136
Bath County	1	0	1	0	0	1	1	2	2	2	9
Bedford City	1	1	1	2	2	0	1	3	0	0	10
Bedford County	7	6	9	14	14	13	8	10	10	15	99
Bland County	2	1	0	3	1	1	1	1	3	2	13
Botetourt County	3	4	3	5	2	6	5	7	1	9	42
Bristol City	4	4	1	2	3	3	1	1	5	0	20
Brunswick County	2	2	1	1	3	1	1	2	2	2	15
Buchanan County	5	6	7	7	10	1	5	4	3	5	48
Buckingham County	3	3	5	1	3	2	2	4	2	2	24
Buena Vista City	0	0	1	1	1	0	0	1	0	0	4
Campbell County	6	3	7	6	6	10	9	13	8	12	74
Caroline County	3	6	3	3	5	2	2	8	12	4	45
Carroll County	6	8	6	10	9	7	6	8	6	8	68
Charles City County	0	0	2	2	2	3	7	1	2	2	21
Charlotte County	3	2	1	3	2	3	1	3	1	3	19
Charlottesville City	11	7	5	4	3	1	7	5	6	5	43
Chesapeake City	19	20	18	25	25	24	26	26	31	36	231
Chesterfield County	29	25	32	32	34	40	39	46	49	31	328
Clarke County	2	1	3	3	3	5	0	1	3	8	27
Colonial Heights City	1	2	3	1	2	1	6	2	6	4	27

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Covington City	2	2	1	0	0	2	2	2	1	2	12
Craig County	0	1	2	4	0	2	1	4	0	2	16
Culpeper County	6	10	2	11	5	7	9	5	9	9	67
Cumberland County	0	1	2	2	0	3	1	3	1	0	13
Danville City	7	3	4	8	7	6	4	5	9	3	49
Dickenson County	2	5	5	8	7	5	7	7	7	4	55
Dinwiddie County	3	3	1	1	7	3	2	1	3	7	28
Emporia City	3	0	2	1	1	0	0	0	0	0	4
Essex County	0	1	3	2	3	2	3	2	5	0	21
Fairfax City	2	2	1	6	4	2	2	4	3	7	31
Fairfax County	85	87	88	104	87	90	98	109	107	85	855
Falls Church City	0	1	3	0	1	0	2	1	0	0	8
Fauquier County	7	4	8	9	14	14	13	16	9	11	98
Floyd County	2	2	1	3	4	4	5	5	6	3	33
Fluvanna County	2	3	4	2	2	3	5	6	2	1	28
Franklin City	0	0	0	0	1	0	1	1	2	0	5
Franklin County	5	8	6	7	3	10	11	12	6	10	73
Frederick County	9	7	7	8	8	14	19	12	20	14	109
Fredericksburg City	6	4	5	2	4	5	3	2	3	9	37
Galax City	1	1	2	1	3	3	1	0	1	2	14
Giles County	2	3	3	5	3	4	2	3	2	1	26
Gloucester County	7	6	9	4	8	12	9	4	4	14	70
Goochland County	2	5	2	4	2	0	1	6	4	7	31
Grayson County	3	2	5	2	2	8	5	2	4	1	31
Greene County	4	2	2	3	4	3	1	1	2	1	19
Greensville County	2	0	0	2	2	4	1	4	1	0	14
Halifax County	8	4	4	5	5	4	6	3	6	7	44
Hampton City	13	16	18	16	9	7	13	17	18	15	129
Hanover County	12	15	17	11	6	15	23	21	16	13	137
Harrisonburg City	2	4	4	6	6	2	1	4	6	5	38
Henrico County	37	25	25	39	30	42	31	41	36	36	305

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Henry County	11	12	19	13	16	10	9	9	10	10	108
Highland County	0	0	0	0	1	1	1	2	1	2	8
Hopewell City	1	2	2	3	3	2	3	4	5	4	28
Isle of Wight County	5	1	0	3	2	4	6	4	5	7	32
James City County	5	4	9	7	9	6	10	4	12	11	72
King and Queen County	2	4	2	1	1	1	3	0	1	1	14
King George County	3	2	2	3	6	3	4	8	5	3	36
King William County	1	1	1	4	0	2	7	2	3	5	25
Lancaster County	0	3	4	1	2	2	4	2	2	4	24
Lee County	5	4	7	5	2	5	9	4	5	7	48
Lexington City	0	1	0	0	0	0	1	1	1	2	6
Loudoun County	20	23	13	24	20	35	35	34	34	36	254
Louisa County	5	8	2	5	9	7	3	3	2	5	44
Lunenburg County	6	1	1	3	1	2	3	2	2	3	18
Lynchburg City	8	6	13	5	9	10	6	4	7	10	70
Madison County	2	4	3	1	3	1	4	1	4	6	27
Manassas	2	3	9	3	1	5	5	4	7	4	41
Manassas Park	0	1	0	0	1	0	0	2	3	1	8
Martinsville City	0	4	0	1	1	4	1	3	2	2	18
Mathews County	1	0	2	0	1	2	1	1	3	2	12
Mecklenburg County	4	6	7	5	8	4	4	4	3	6	47
Middlesex County	0	1	1	5	1	3	3	4	0	3	21
Montgomery County	11	22	8	5	9	14	8	7	11	10	94
Nelson County	2	1	3	4	4	3	3	4	3	2	27
New Kent County	3	2	2	3	1	6	5	3	5	4	31
Newport News City	11	15	18	14	20	23	29	19	25	22	185
Norfolk City	27	33	29	22	29	28	29	30	34	23	257
Northampton County	0	4	1	0	1	5	0	2	3	3	19
Northumberland County	1	3	2	0	4	3	0	0	1	2	15
Norton City	0	0	2	1	0	1	1	0	0	0	5
Nottoway County	1	0	4	4	3	3	2	1	5	4	26

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Orange County	6	4	5	2	4	5	12	6	9	10	57
Page County	6	5	7	3	4	8	4	5	11	5	52
Patrick County	3	4	4	4	7	4	5	9	5	6	48
Petersburg City	1	4	7	3	4	3	4	2	6	5	38
Pittsylvania County	13	9	6	13	9	9	12	16	5	10	89
Poquoson City	1	1	1	0	0	0	0	2	1	0	5
Portsmouth City	8	14	10	11	16	8	20	9	13	16	117
Powhatan County	5	1	4	2	8	6	5	4	6	6	42
Prince Edward County	3	3	1	5	3	3	4	3	4	4	30
Prince George County	6	7	7	7	5	4	2	5	8	6	51
Prince William County	32	28	35	41	41	28	33	37	38	30	311
Pulaski County	11	10	2	6	9	9	6	7	1	8	58
Radford City	1	0	2	0	2	1	1	5	2	1	14
Rappahannock County	0	4	3	1	3	2	5	0	2	2	22
Richmond City	32	25	22	35	21	32	25	27	23	25	235
Richmond County	1	1	4	0	2	1	1	1	0	1	11
Roanoke City	10	15	19	13	18	19	25	16	21	16	162
Roanoke County	11	7	19	9	20	14	13	12	17	14	125
Rockbridge County	5	4	6	5	5	6	3	3	7	4	43
Rockingham County	9	10	9	4	12	10	9	10	10	21	95
Russell County	5	4	10	7	5	6	6	6	4	4	52
Salem City	4	7	5	0	2	6	6	6	9	7	48
Scott County	3	12	5	4	5	6	5	4	2	4	47
Shenandoah County	7	5	8	8	5	9	7	7	8	10	67
Smyth County	3	11	5	3	3	6	7	10	6	5	56
Southampton County	4	1	4	3	4	2	2	2	1	2	21
Spotsylvania County	13	18	17	10	22	11	13	15	14	14	134
Stafford County	6	14	15	15	5	9	13	19	11	20	121
Staunton City	4	7	1	6	4	4	1	3	3	2	31
Suffolk City	11	1	10	6	5	14	12	12	14	11	85
Surry County	0	1	0	4	1	0	2	1	0	0	9

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Sussex County	1	2	1	4	4	1	1	4	0	2	19
Tazewell County	11	4	4	12	6	6	8	5	5	14	64
Virginia Beach City	61	49	45	59	63	65	51	49	71	46	498
Warren County	3	12	8	6	5	7	8	7	8	6	67
Washington County	6	10	11	13	10	10	11	9	8	12	94
Waynesboro City	6	3	3	4	2	3	2	4	0	6	27
Westmoreland County	4	2	4	2	2	5	5	3	4	1	28
Williamsburg City	10	2	1	1	8	6	1	0	6	4	29
Winchester City	6	1	7	2	6	5	3	3	9	7	43
Wise County	9	13	8	4	5	9	3	3	8	7	60
Wythe County	4	4	8	5	2	7	4	3	5	9	47
York County	3	8	11	6	11	15	8	7	8	6	80
<i>Subtotal (in-state)</i>	882	897	945	968	989	1055	1049	1055	1133	1087	9178
Out of State	2	6	3	4	4	9	3	6	10	9	54
Unknown	0	0	1	1	1	0	0	0	2	1	6
<i>Subtotal (out-of-state)</i>	2	6	4	5	5	9	3	6	12	10	60
TOTAL	884	903	949	973	994	1064	1052	1061	1145	1097	9238

UNDETERMINED DEATHS (N=180)

Undetermined deaths are those in which the manner of death cannot be determined. In 2015, the number of undetermined deaths decreased by 12.6% compared to 2014. Generally, undetermined deaths have increased since 2006 mainly due to the transition in nomenclature 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.

- Over forty percent of the cases assigned an undetermined manner had a determined cause of death
- Nearly thirty-three 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, 1999-2015

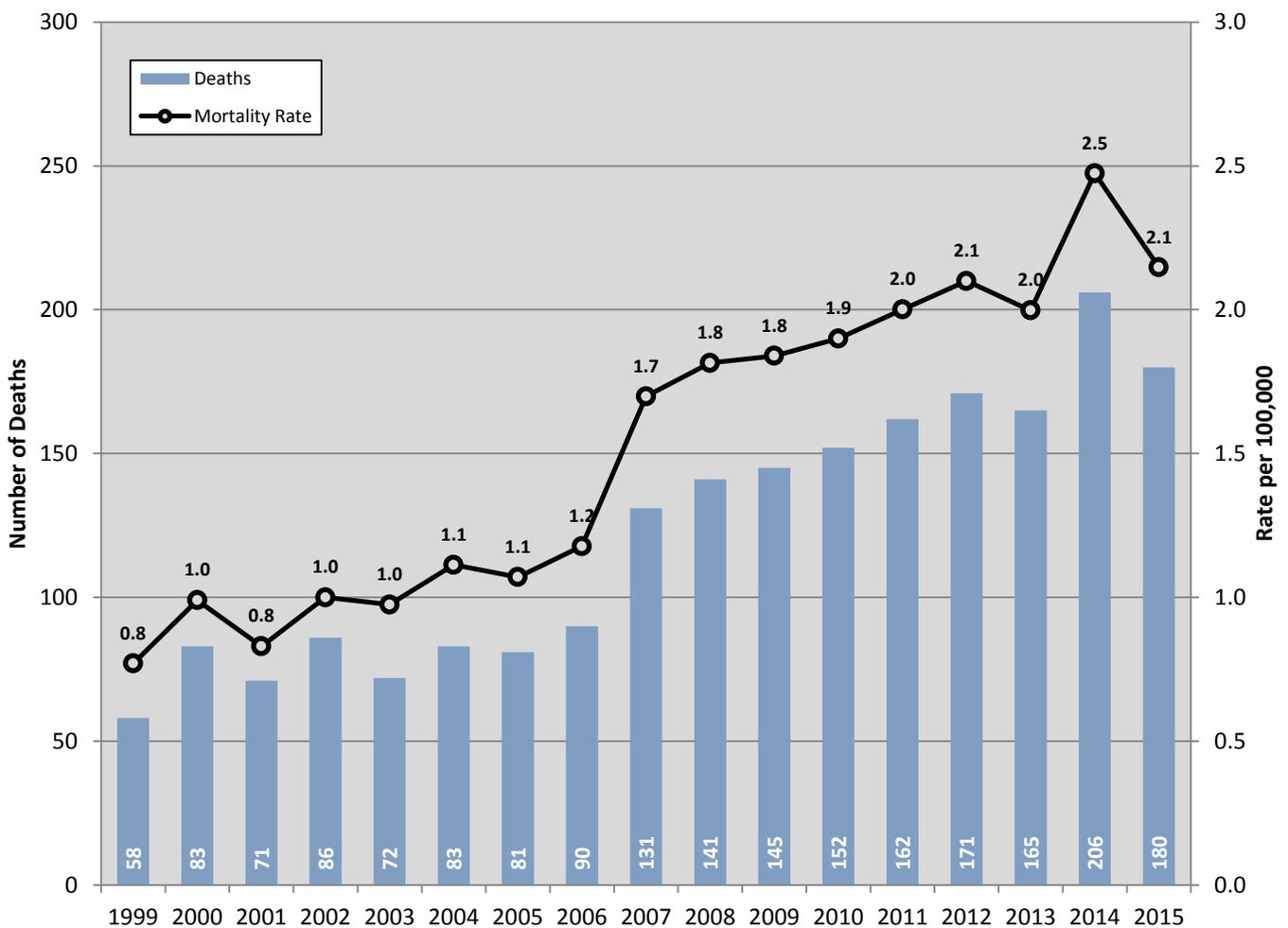
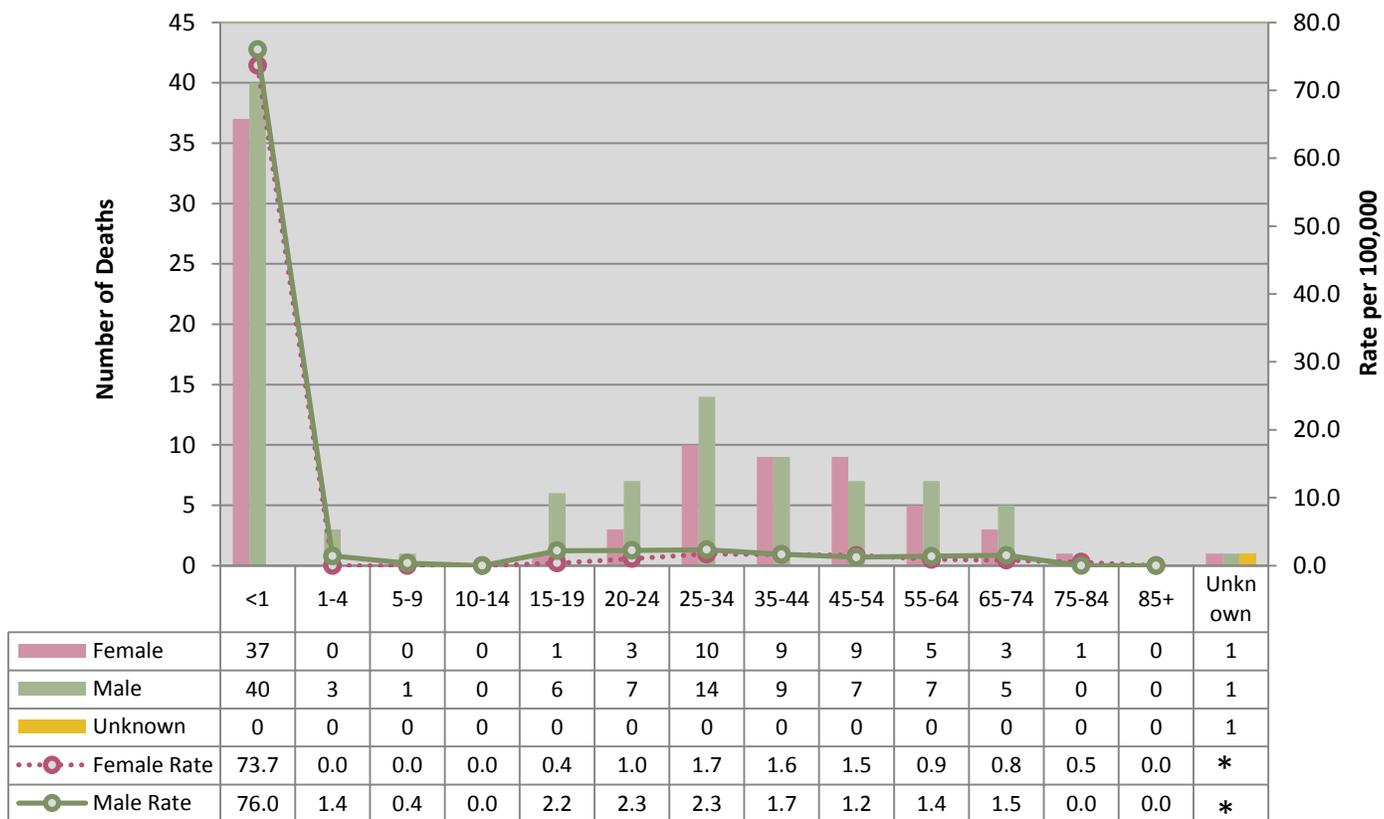


Figure 2.30 Number and Rate of Undetermined Deaths by Age Group and Gender, 2015



*No rate can be calculated

Figure 2.31 Percentage of Undetermined Deaths by Race/Ethnicity, 2015

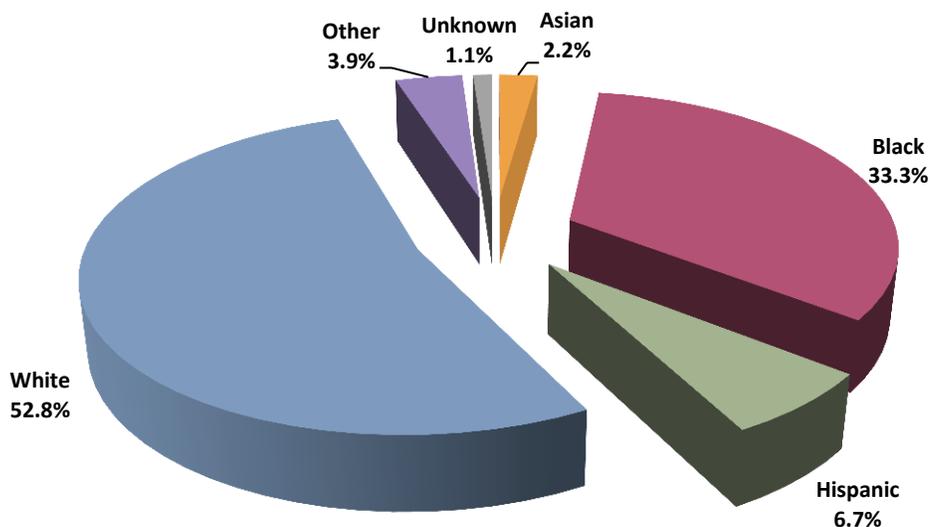


Table 2.18 Number of Undetermined Deaths by Cause of Death, 2015

Undetermined Manner of Death with Cause of Death Determined	Autopsied	Total Cases
Asphyxia		
Drowned	5	5
Hanged	2	2
Oxygen depletion/replacement	0	1
Drug Use		
Ingested and/or injected illicit, prescription, and/or OTC medication	11	17
Fire		
Thermal burns and/or inhalation of combustion products	4	4
Jump/Fall		
Jumped/Fell from height	1	4
Motor Vehicle		
Car	2	2
Train	0	1
Unknown	1	1
Traumatic Injury		
Gunshot wound		
Handgun	15	15
Rifle	1	1
Sharp force injury	1	1
Other/Unknown traumatic causes	9	9
Other		
Other	10	10
<i>Subtotal (Undetermined Manner with Determined Cause of Death)</i>	62	73
Undetermined Manner of Death and Undetermined Cause of Death		
Skeletal/Mummified remains	10	10
Sudden Unexpected Infant Death (SUID)	59	59
Undetermined after autopsy and/or toxicology	35	38
<i>Subtotal (Undetermined Manner and Undetermined Cause of Death)</i>	104	107
TOTAL UNDETERMINED DEATHS	166	180

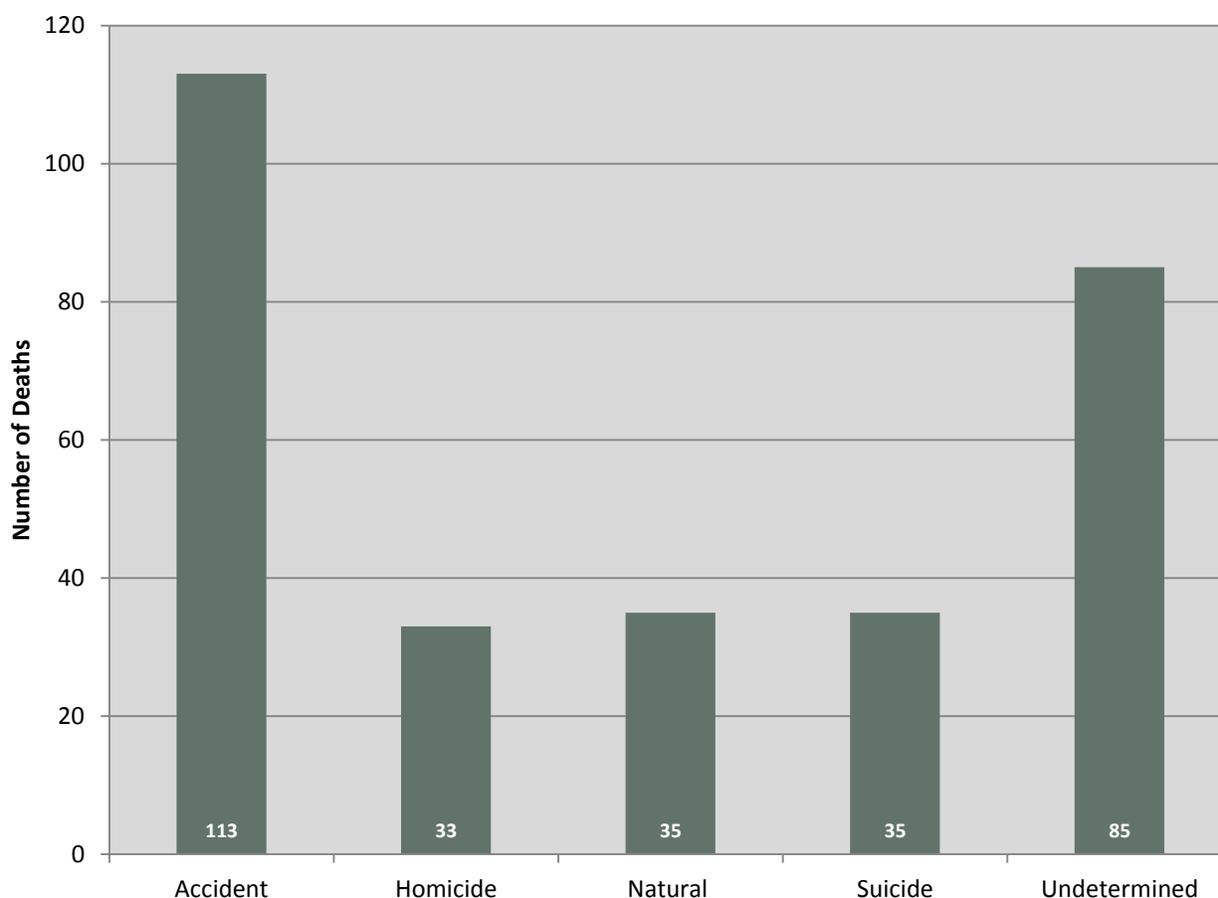
SECTION 3: DEATHS OF CHILDREN (N=301)

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

The OCME investigated 301 deaths of children, representing 4.8% of all OCME deaths in 2015.

- Males represented 59.1% of all child cases
- Infants under one year of age had the largest percentage of cases (39.2%)
- The leading causes of death were sudden unexpected infant death (SUID) cases (19.9%), blunt force trauma do to motor vehicle accidents (15.9%), and gunshot wounds (13.6%)

Figure 3.1 Number of Child Deaths by Manner, 2015



*The manner of death is classified as undetermined in all SUID cases

Figure 3.2 Number of Child Deaths by Age and Gender, 2015

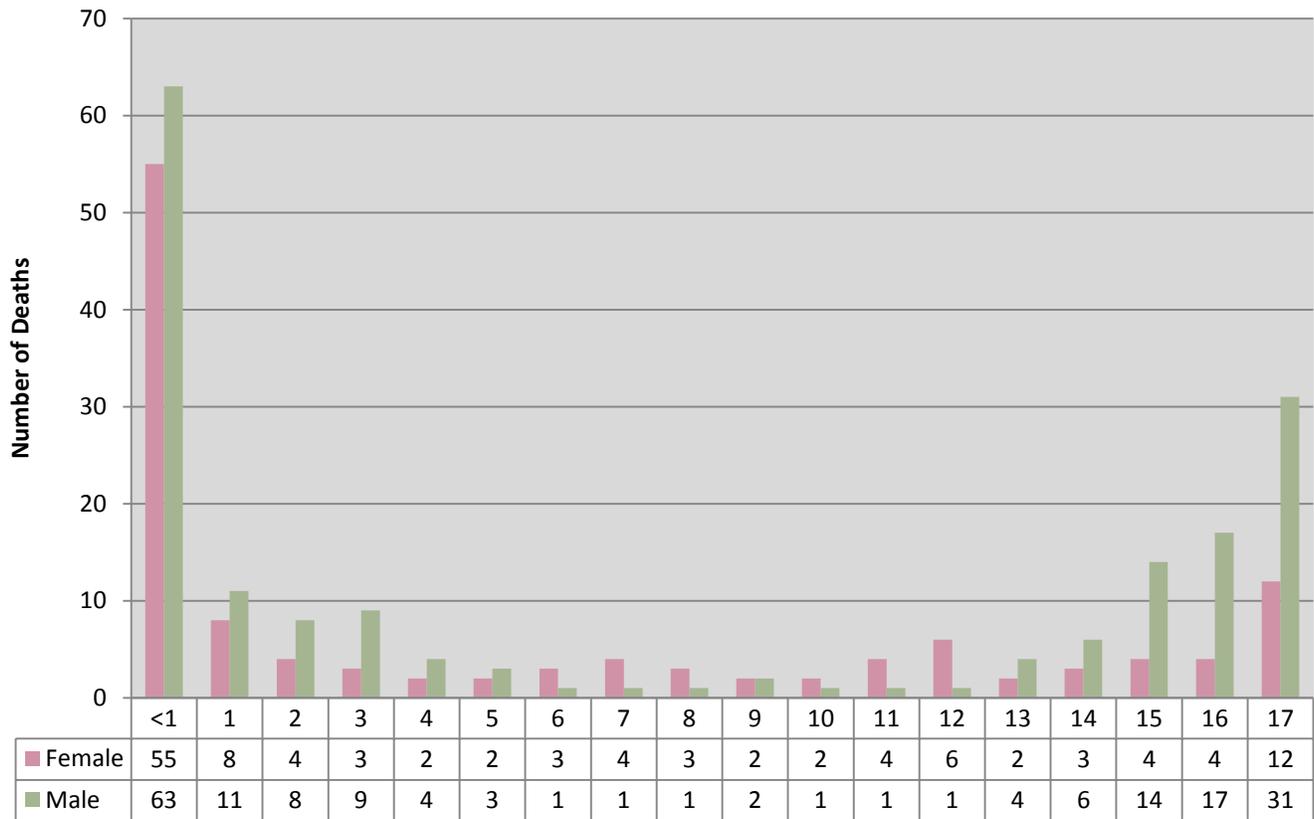


Figure 3.3 Percentage of Child Deaths by Race/Ethnicity, 2015

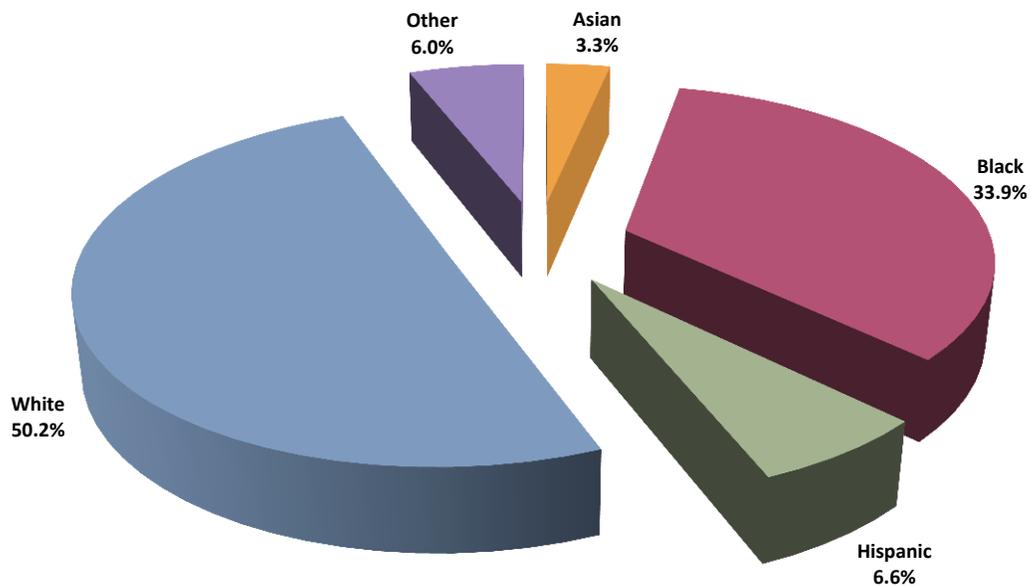
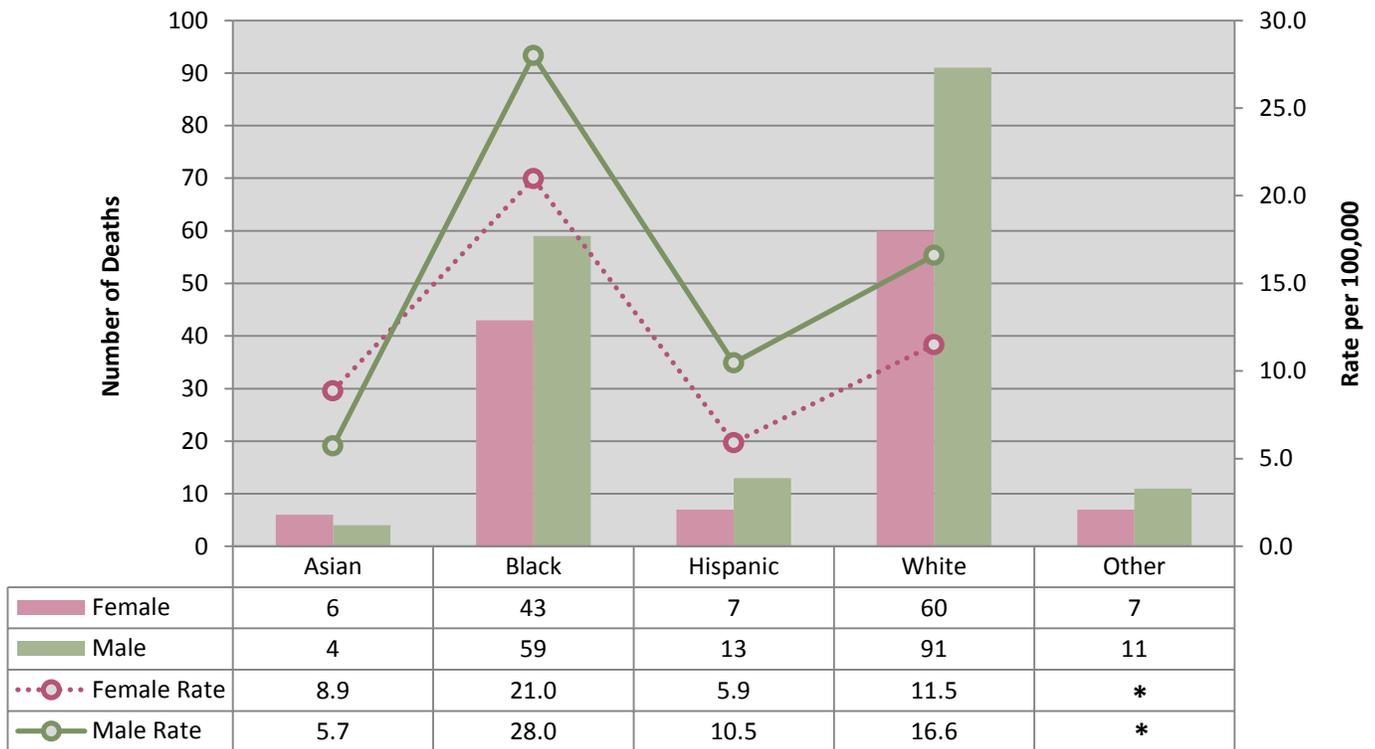


Figure 3.4 Number and Rate of Child Deaths by Gender and Race/Ethnicity, 2015



*No rate can be calculated

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

Figure 3.5 Number of Child Deaths by Manner and Race/Ethnicity, 2015

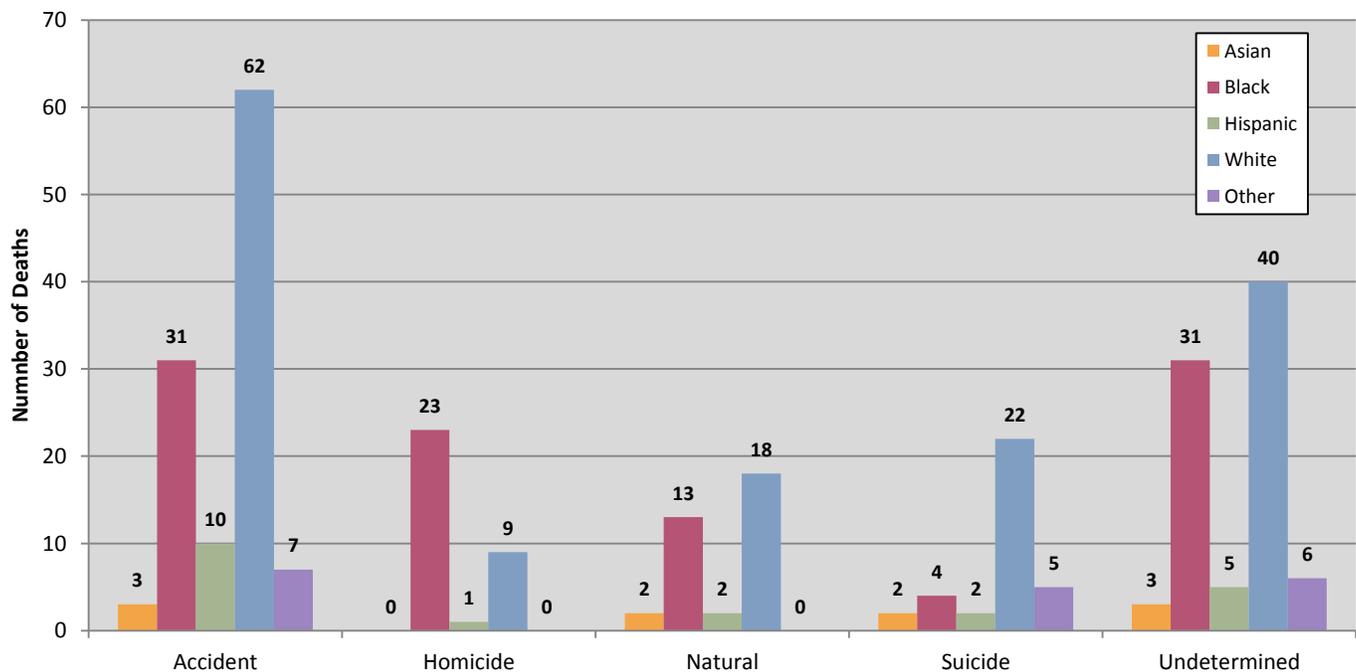


Table 3.1 Number of Child Deaths by Cause of Death, 2015

NATURAL CHILD DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Cardiac arrhythmia not otherwise specified	2	2
Cardiomyopathy not otherwise specified	2	2
Congenital defect	1	1
Hypertension	1	1
Other cardiac disease/disorder	8	8
Congenital defect		
Valvular	1	1
Central Nervous System Diseases/Disorders		
Other CNS disease/disorder	1	1
Perinatal and Pediatric Diseases/Disorders		
Fetal complications	0	1
Other perinatal or pediatric disorder	1	1
Sudden infant death syndrome (SIDS)	2	2
Pulmonary Diseases/Disorders		
Asthma	2	2
Other pulmonary diseases/disorders	2	3
Pneumonia	6	6
Systemic Diseases/Disorders		
Other infectious disease	3	4
Other systemic diseases/disorders	1	1
Sepsis	1	1
Other Natural Death/Disorder		
Other natural death/disorder	1	1
Subtotal of Natural Child Deaths		38
UNNATURAL CHILD DEATHS		Autopsied
Asphyxia		Total Cases
Choked (aspiration of food or foreign object)	0	2
Drowned	12	26
Hanged	7	16
Mechanical/Positional asphyxia	4	4
Strangled/Neck compression	1	1
Suffocated/Smothered	10	10
Other asphyxia	3	3
Drug Use		
Prescription drug poisoning	3	3
Fall/Jump		
Fall/Jump from height	2	2
Fire Injuries		
Thermal burns and/or inhalation of combustion products	10	12

Gunshot Wound		
Handgun	34	34
Rifle	2	2
Shotgun	5	5
Motor Vehicle		
Aircraft	1	1
All terrain vehicle	0	3
Car	2	27
Motorcycle	0	1
Pickup truck	0	1
Sport utility vehicle	1	12
Train	1	1
Unknown	1	1
Van	1	1
Traumatic Injury		
Beatings	12	12
Sharp force injuries	2	2
Other Unnatural Deaths		
Other	5	5
<i>Subtotal of Unnatural Child Deaths</i>	119	187
UNDETERMINED CHILD DEATHS	Autopsied	Total Cases
Undetermined After Autopsy and/or Investigation		
Sudden unexpected infant death (SUID)	60	60
Undetermined after autopsy and/or toxicology	16	16
<i>Subtotal of Undetermined Child Deaths</i>	76	76
TOTAL CHILD DEATHS	230	301

ACCIDENTAL CHILD DEATHS (N=113)

The number of accidental child deaths decreased by 5.0% between 2014 and 2015.

- The largest number of accidental deaths occurred among males (57.5%), whites (54.9%), and children aged 15-17 years (24.8%)
- Black males had the highest rate of accidental death (8.1 deaths per 100,000 persons aged 0-17 years), followed by white males (6.6 deaths per 100,000 persons aged 0-17 years)
- Motor vehicle accidents were the leading method of death (41.6%), followed by accidental drownings (21.2%)

Figure 3.6 Number and Rate of Accidental Child Deaths by Year, 2003-2015

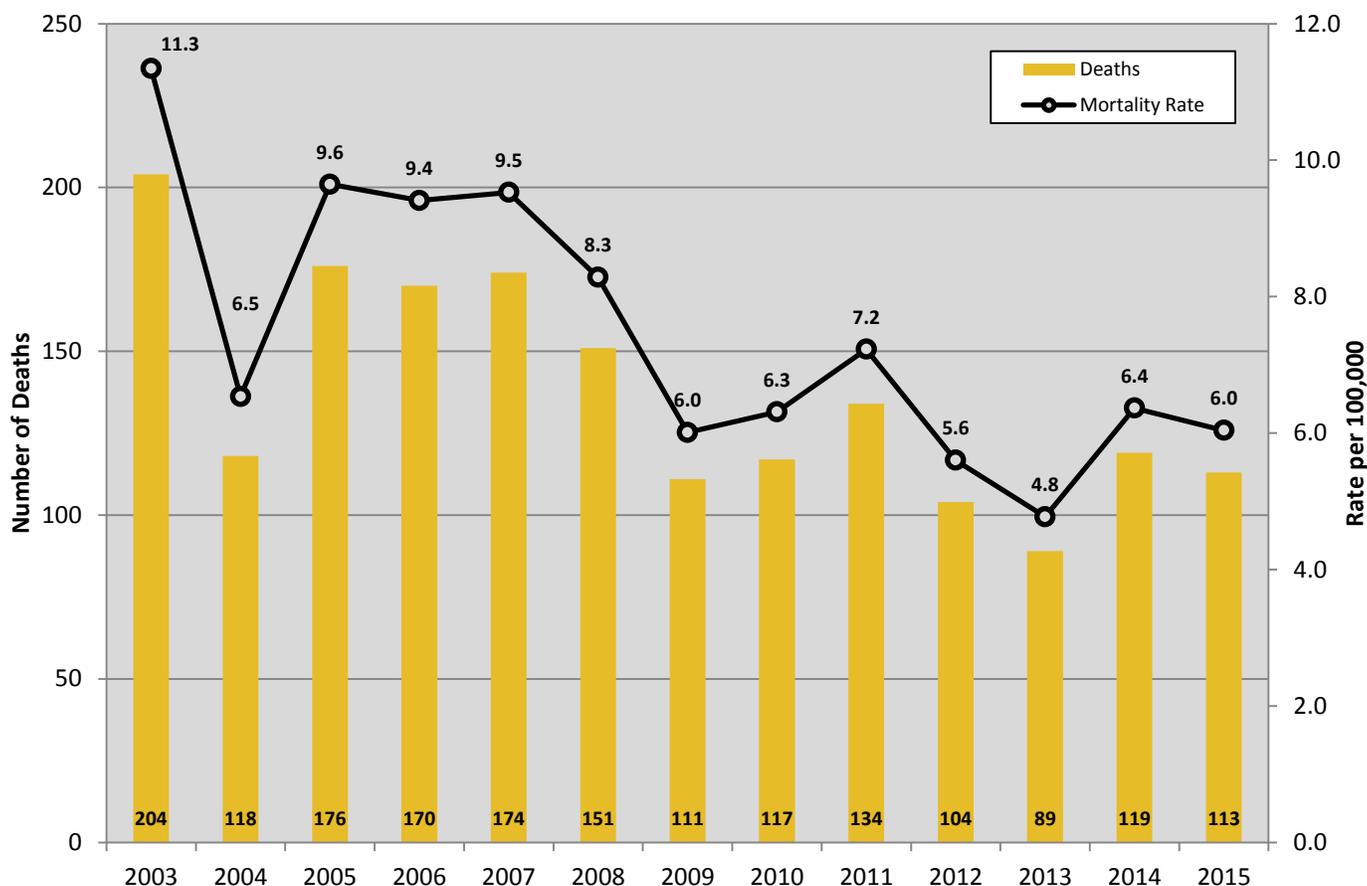


Figure 3.7 Number and Rate of Accidental Child Deaths by Age Group and Gender, 2015

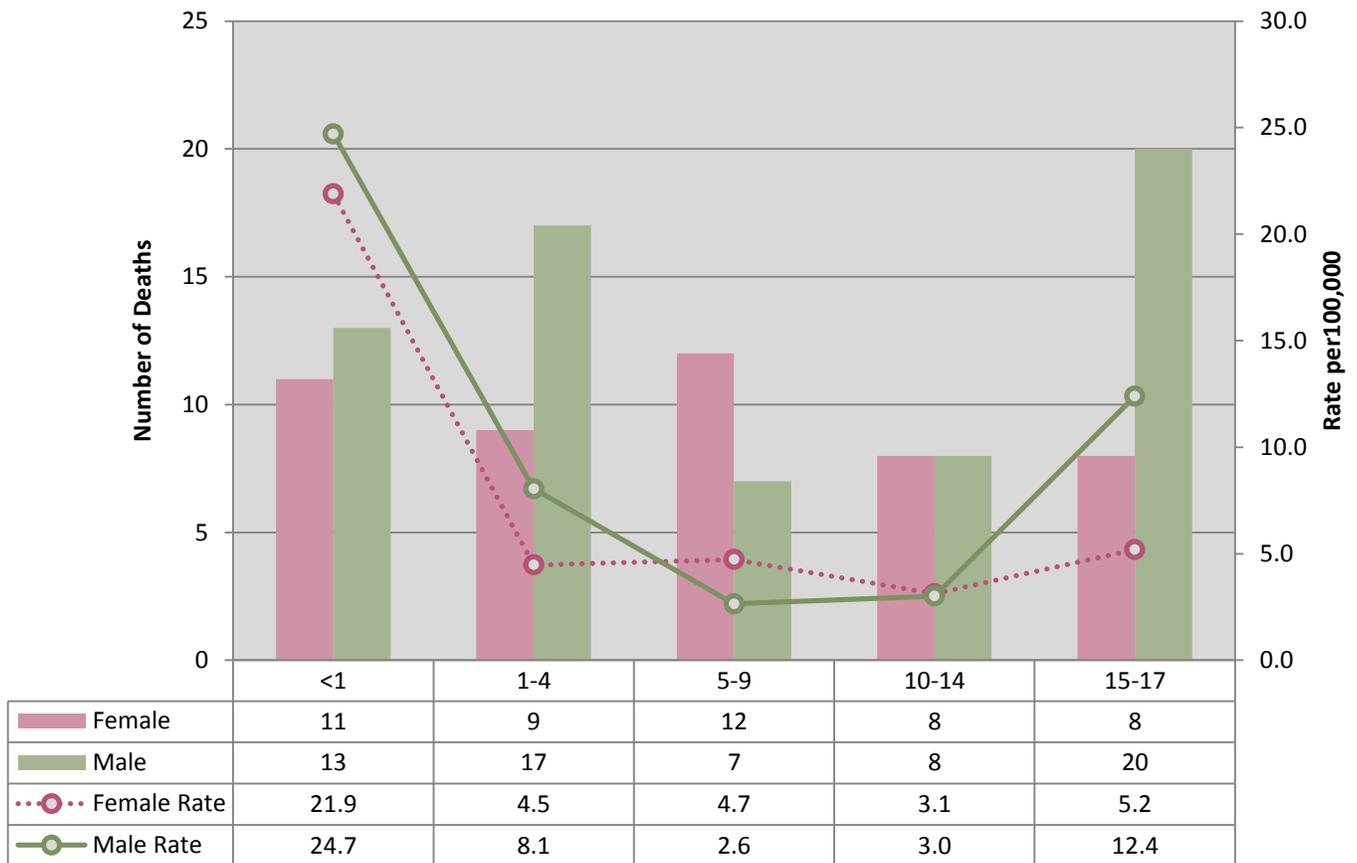


Figure 3.8 Percentage of Accidental Child Deaths by Race/Ethnicity, 2015

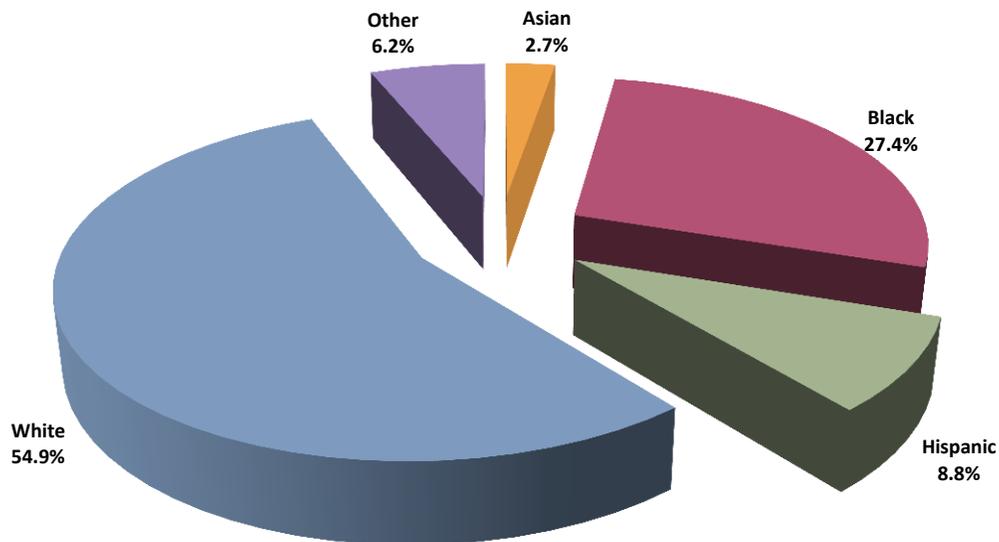
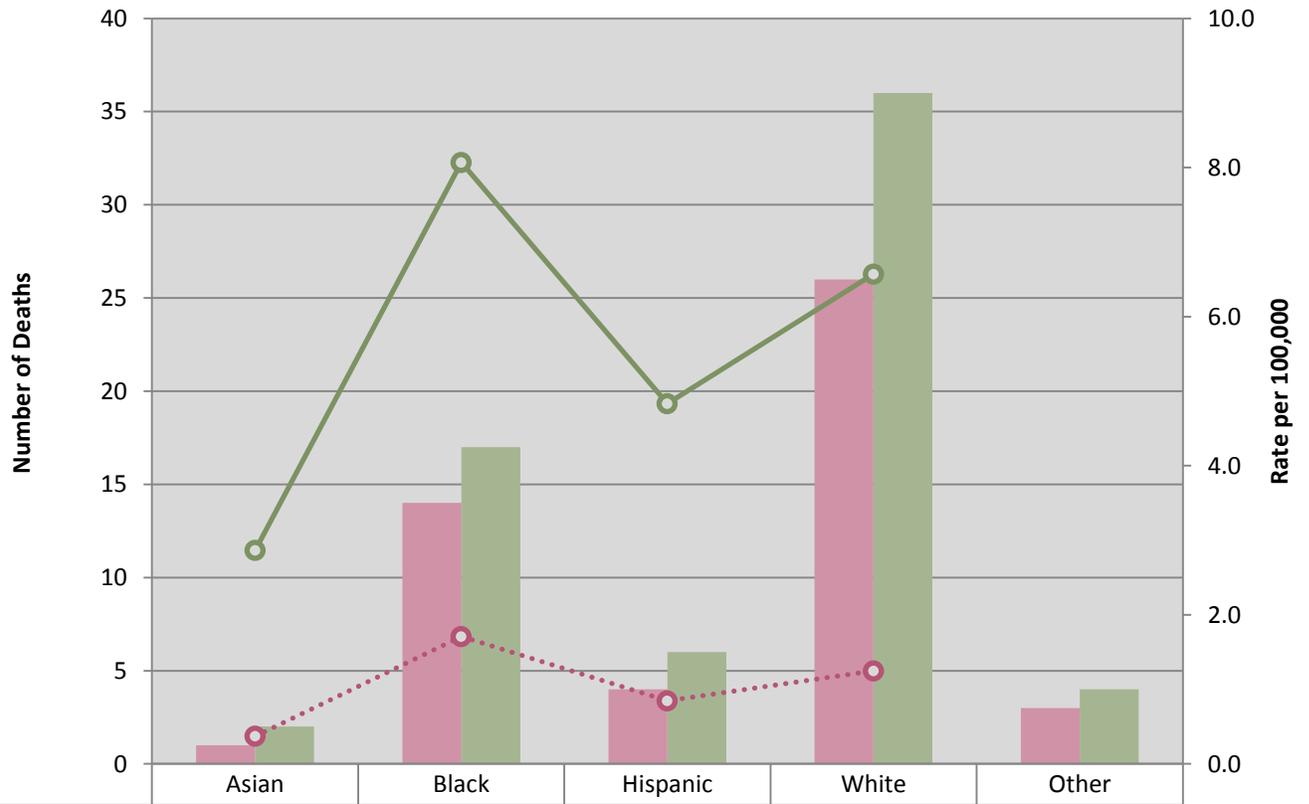


Figure 3.9 Number and Rate of Accidental Child Deaths by Gender and Race/Ethnicity, 2015



	Asian	Black	Hispanic	White	Other
Female	1	14	4	26	3
Male	2	17	6	36	4
Female Rate	1.5	6.8	3.4	5.0	*
Male Rate	2.9	8.1	4.8	6.6	*

*No rate can be calculated

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

Figure 3.10 Number of Accidental Child Deaths by Month of Death, 2015

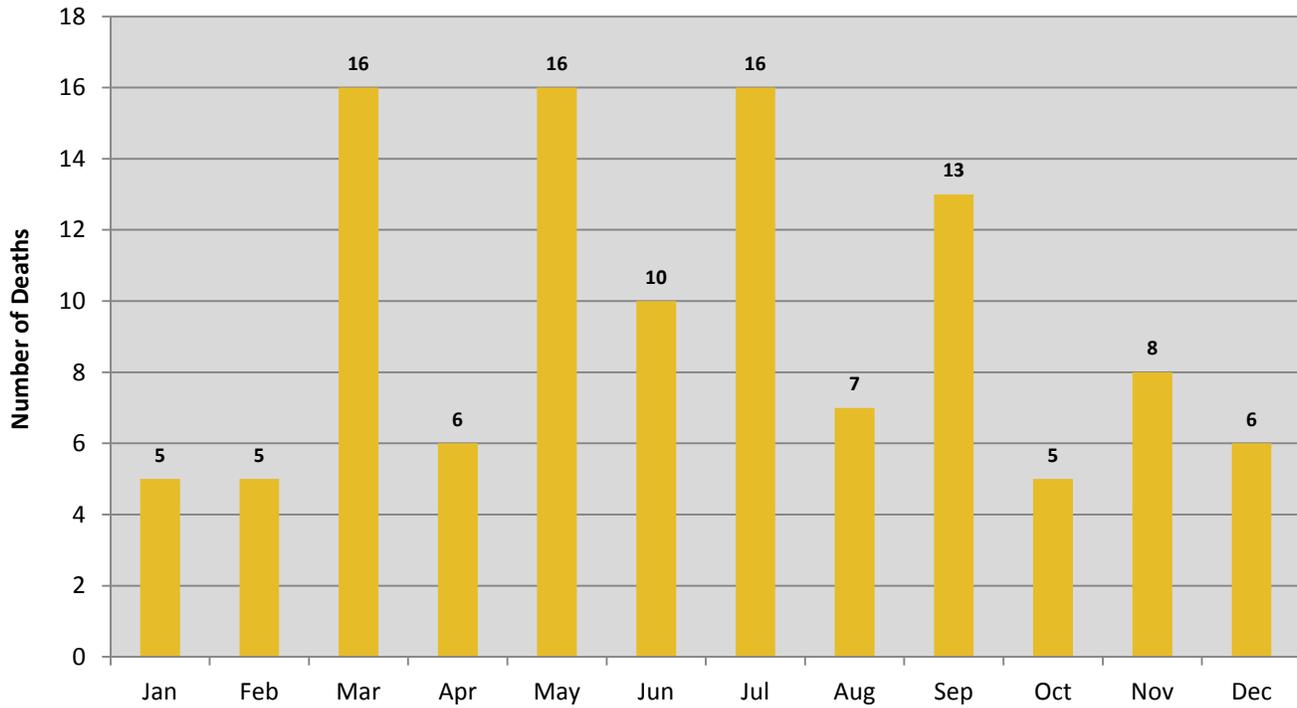


Figure 3.11 Number of Accidental Child Deaths by Day of Week, 2015

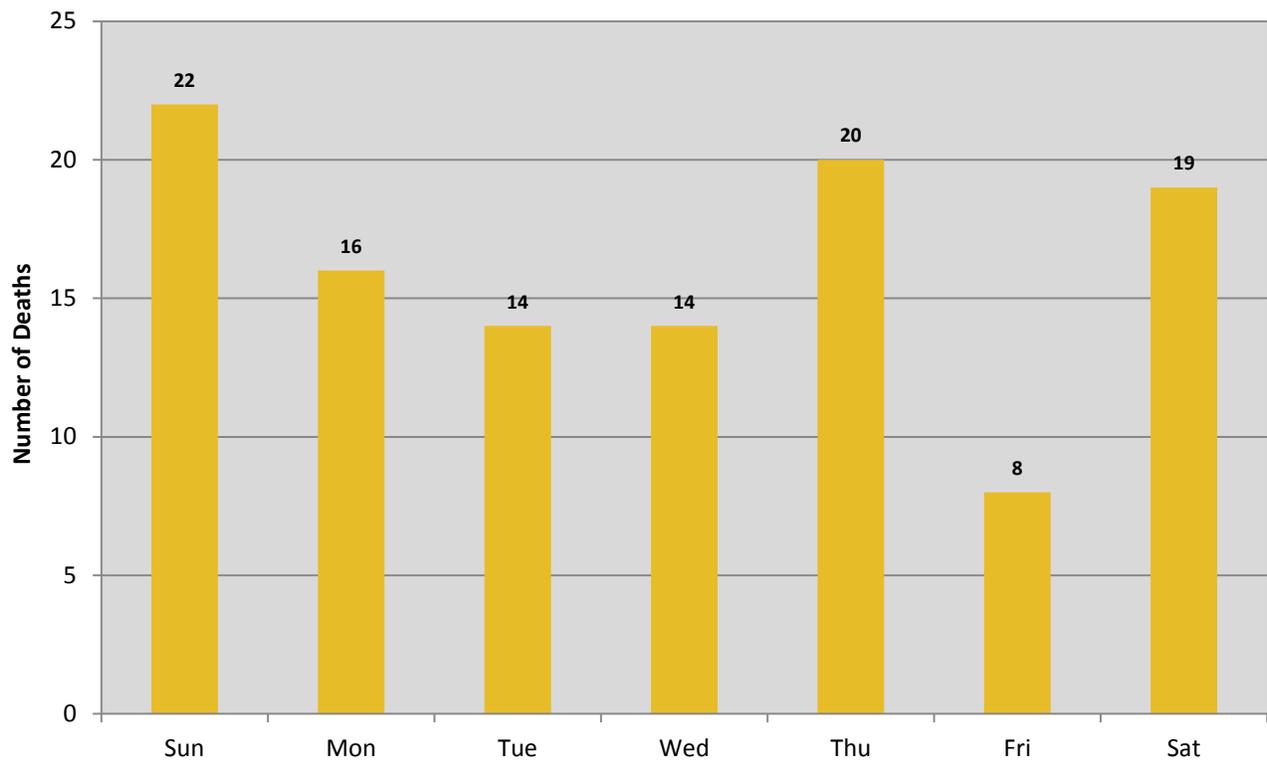


Table 3.2 Number of Accidental Child Deaths by Cause and Method of Death, 2015

Method of Death	Autopsied	Total Cases
Asphyxia		
Choked (aspiration of food or foreign object)	0	2
Drowned	10	24
Hanged	2	3
Mechanical/Positional asphyxia	4	4
Strangled/Neck compression	1	1
Suffocated/Smothered	10	10
Other asphyxia	3	3
Drug Use		
Prescription drug poisoning	3	3
Fall/Jump		
Fall/Jump from height	2	2
Fire Injuries		
Thermal burns and/or inhalation of combustion products	9	11
Gunshot Wound		
Handgun	2	2
Shotgun	1	1
Motor Vehicle		
Aircraft	1	1
All terrain vehicle	0	3
Car	2	27
Motorcycle	0	1
Pickup truck	0	1
Sport utility vehicle	1	12
Train	1	1
Van	1	1
TOTAL ACCIDENTAL CHILD DEATHS	53	113

CHILD HOMICIDE DEATHS (N=33)

The number of child homicide deaths in 2015 decreased by 26.7% when compared to 2014. Homicides represented 11.0% of all child deaths.

- Homicides in children occurred most frequently among males (66.7%) and among blacks (69.7%).
- Black males had the highest rate of child homicides with 6.6 deaths per 100,000 persons aged 0-17 years
- Gunshot wounds were the most common method of death in child homicides in 2015 (48.5%).

Figure 3.12 Number and Rate of Child Homicide Deaths by Year, 1999-2015

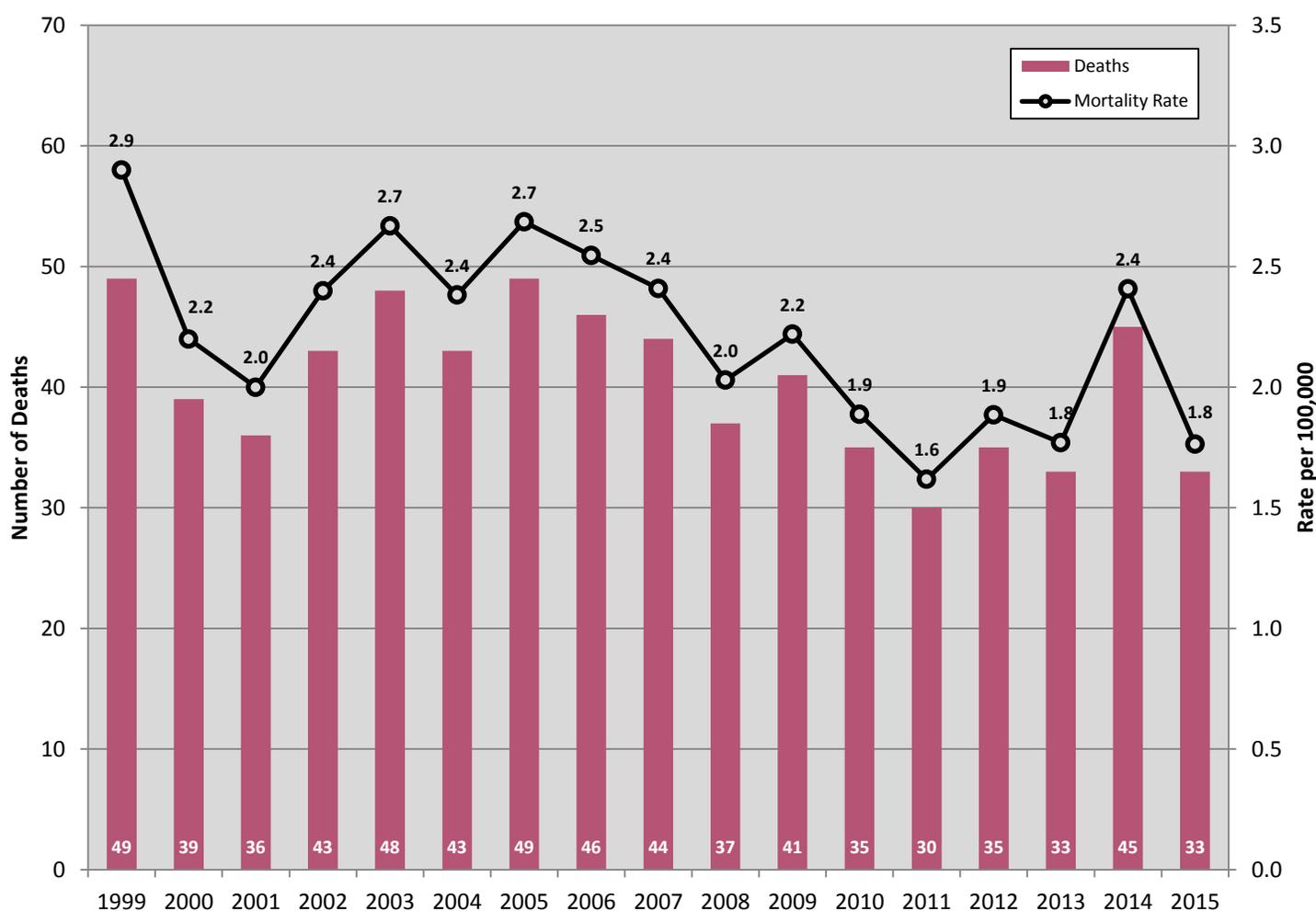


Figure 3.13 Number of Child Homicide Deaths by Age and Gender, 2015

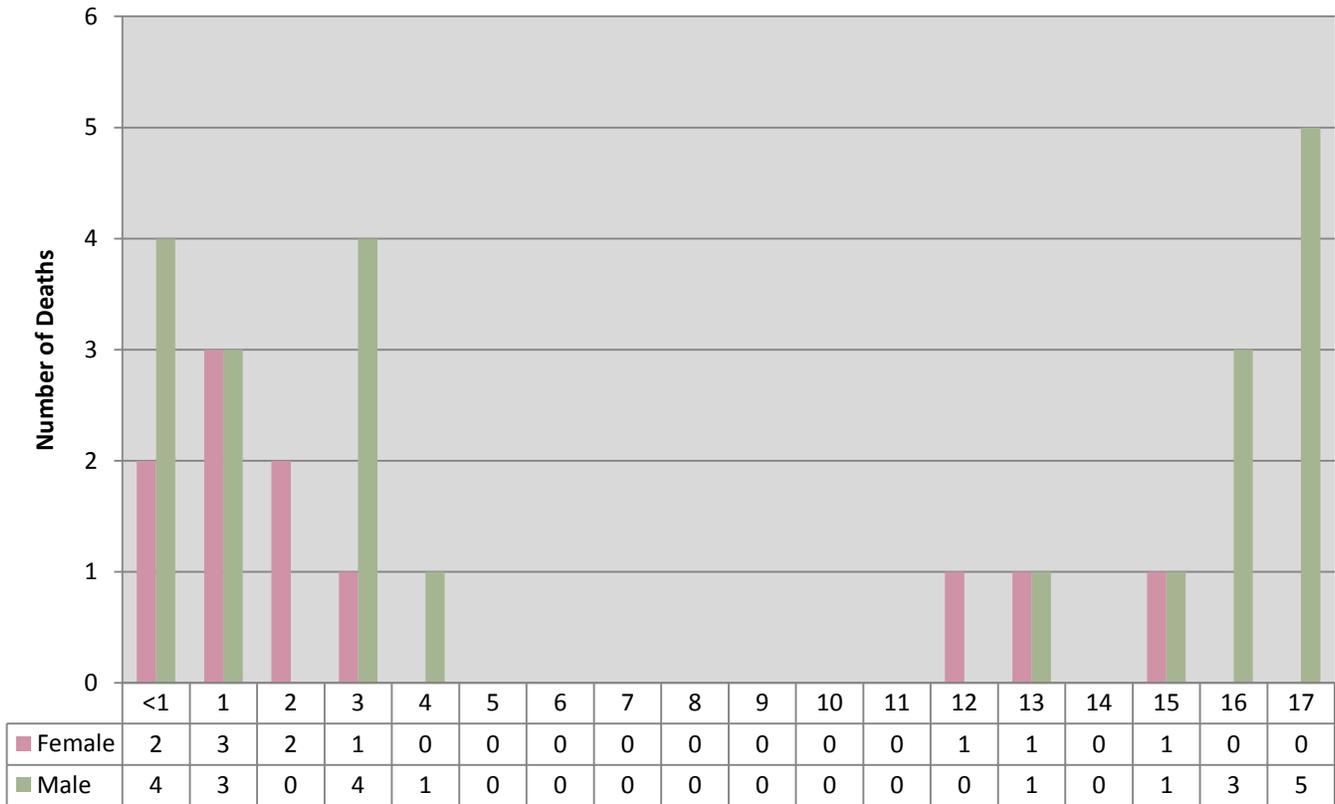


Figure 3.14 Percentage of Child Homicide Deaths by Race/Ethnicity, 2015

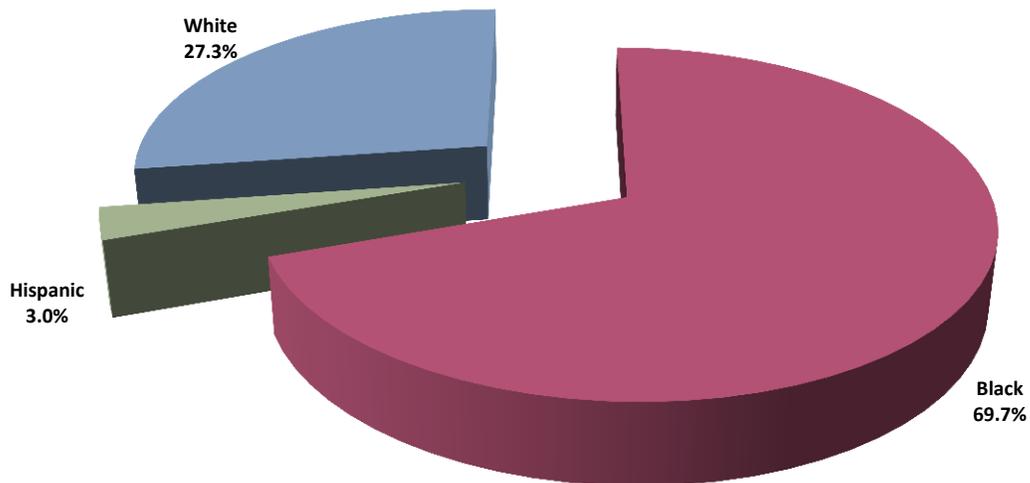
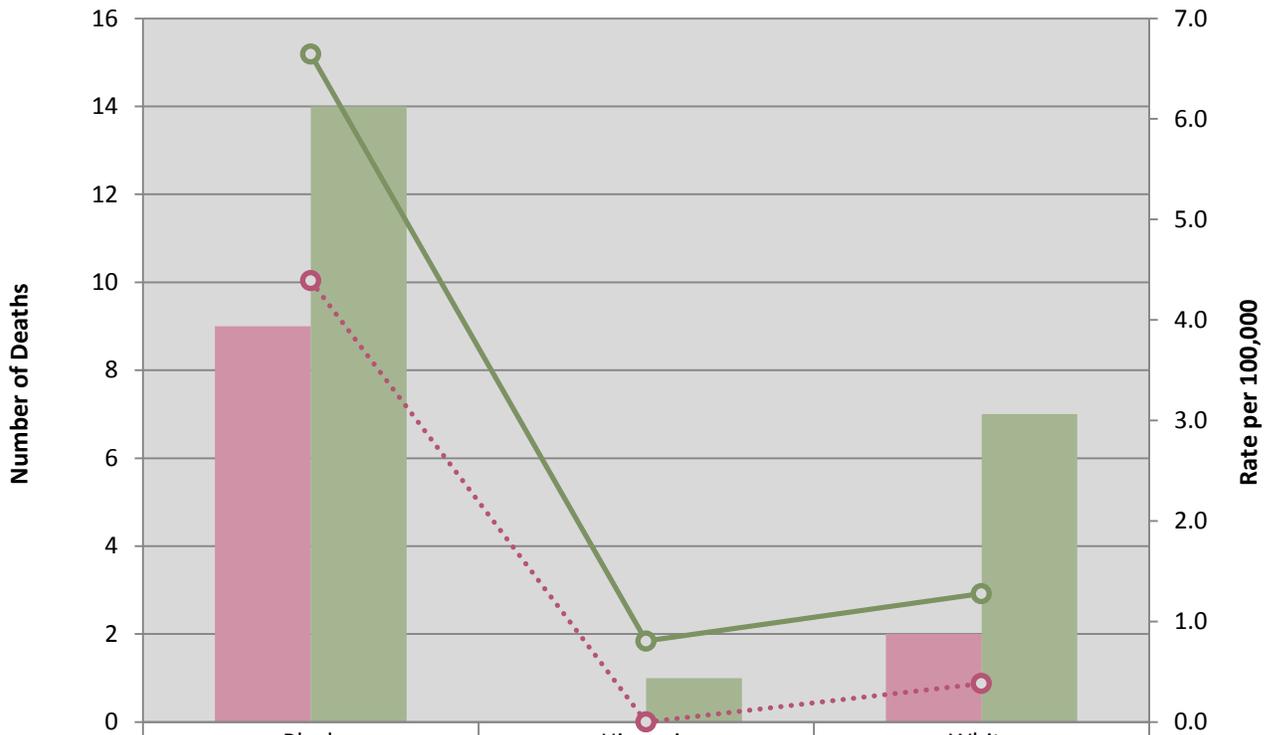


Figure 3.15 Number and Rate of Child Homicide Deaths by Gender and Race/Ethnicity, 2015



	Black	Hispanic	White
Female	9	0	2
Male	14	1	7
Female Rate	4.4	0.0	0.4
Male Rate	6.6	0.8	1.3

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

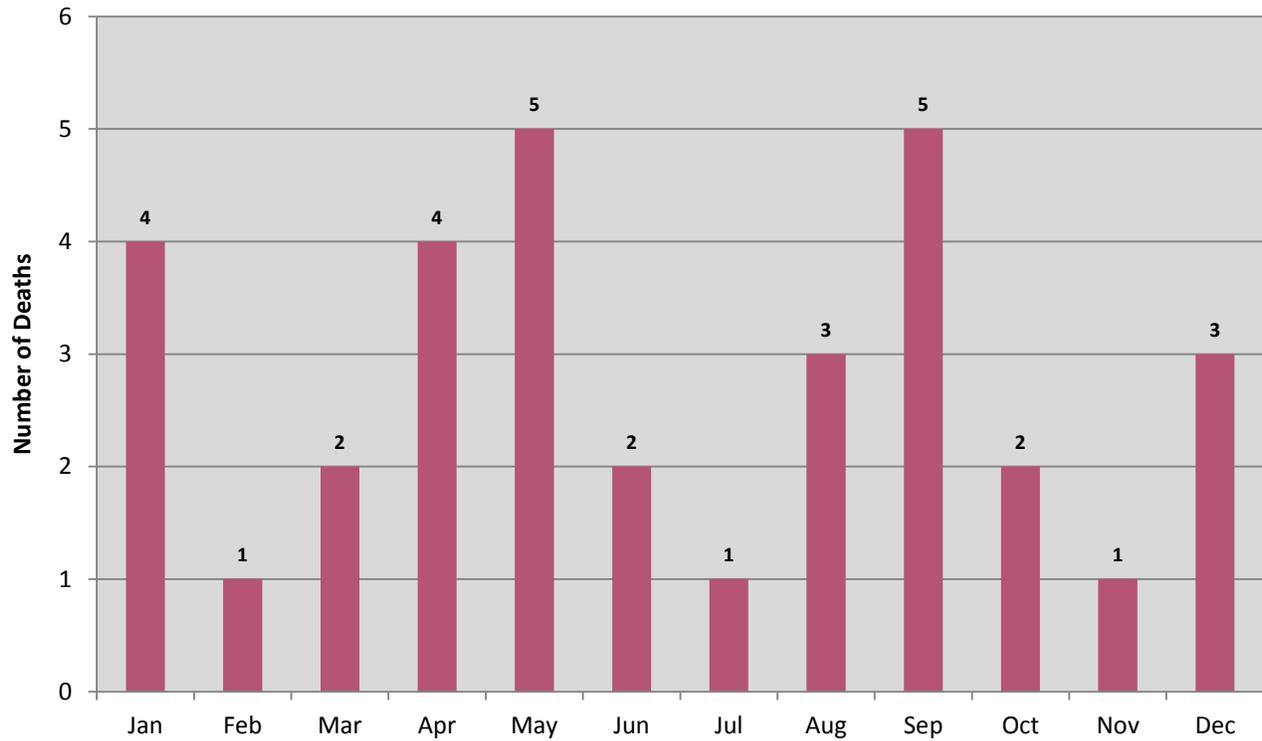
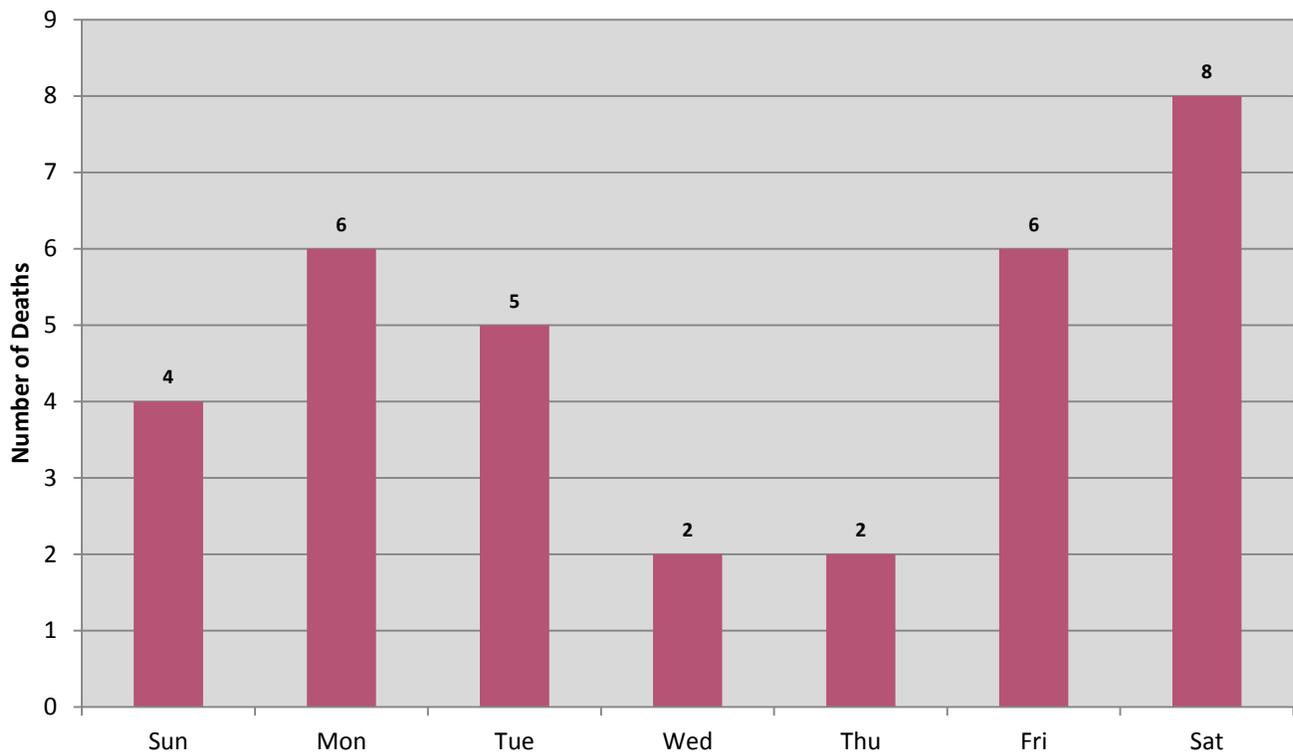
Figure 3.16 Number of Child Homicide Deaths by Month of Death, 2015**Figure 3.17 Number of Child Homicide Deaths by Day of the Week, 2015**

Table 3.3 Number of Child Homicide Deaths by Cause and Method of Death, 2015

Method of Death	Autopsied	Total Cases
Traumatic Injury		
Beaten by assailant(s)	12	12
Shot by assailant(s) with firearm		
Handgun	16	16
Shotgun	1	1
Other traumatic injury	4	4
TOTAL CHILD HOMICIDE DEATHS	33	33

NATURAL CHILD DEATHS (N=35)

Both Infants and children 15-17 years had the largest numbers of natural deaths; each group representing 31.4% (62.9% combined) of all natural deaths of children that fell under the OCME's jurisdiction.

- Cardiovascular diseases and disorders were the most common category of natural deaths among children

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 3.18 Number of Natural Child Deaths by Age Group and Gender, 2015

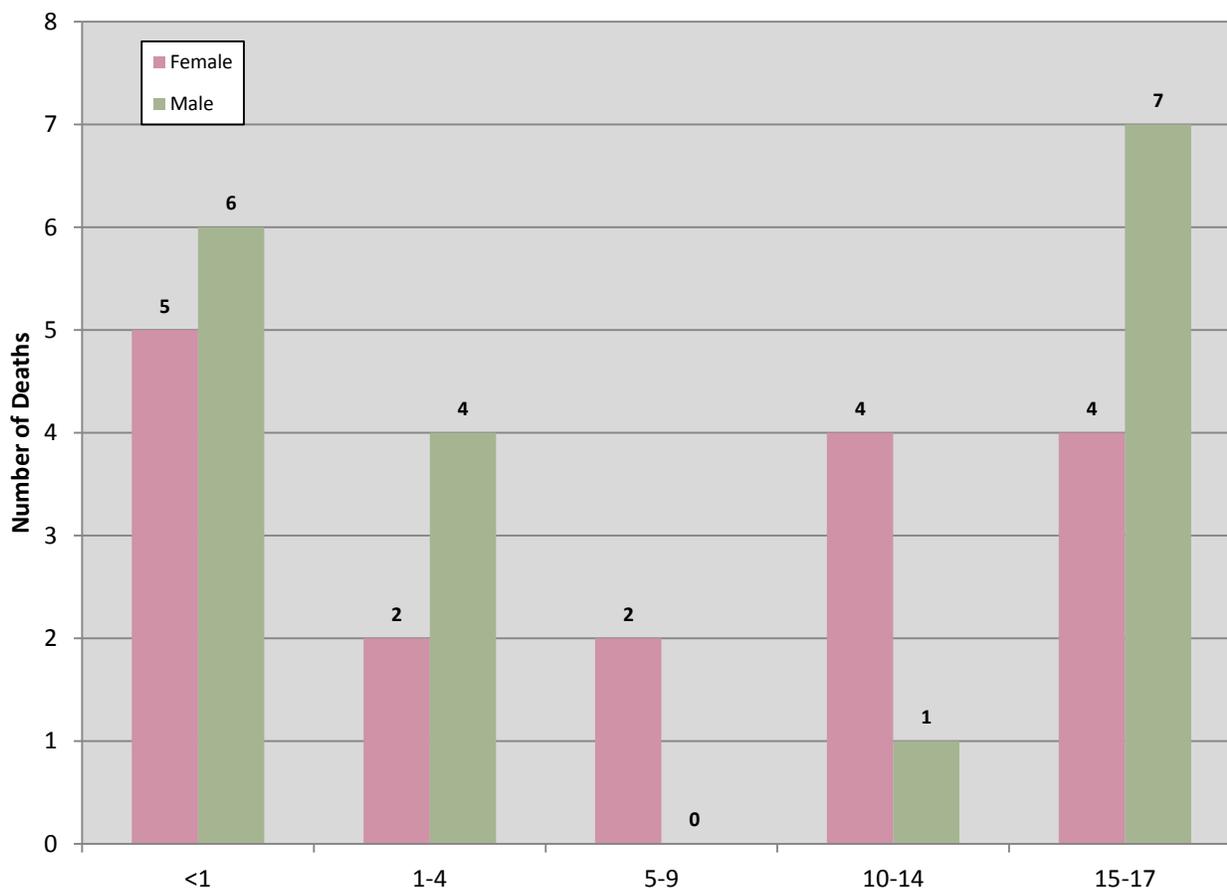


Figure 3.19 Percentage of Natural Child Deaths by Race/Ethnicity, 2015

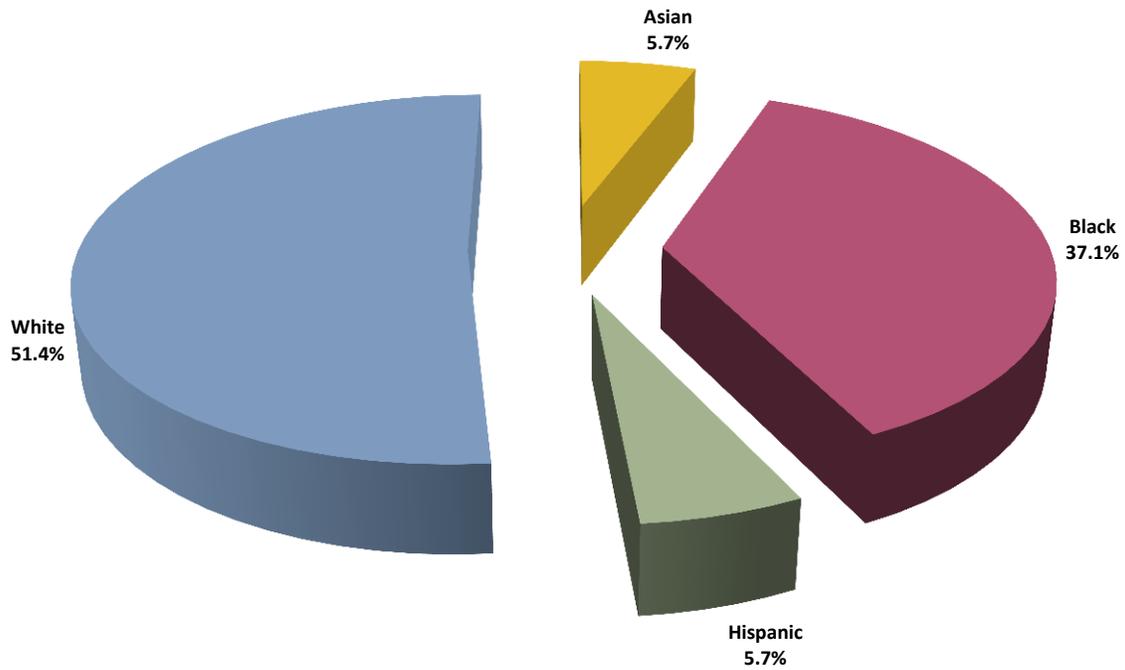


Figure 3.20 Number of OCME SIDS Cases by Year of Death, 2003-2015

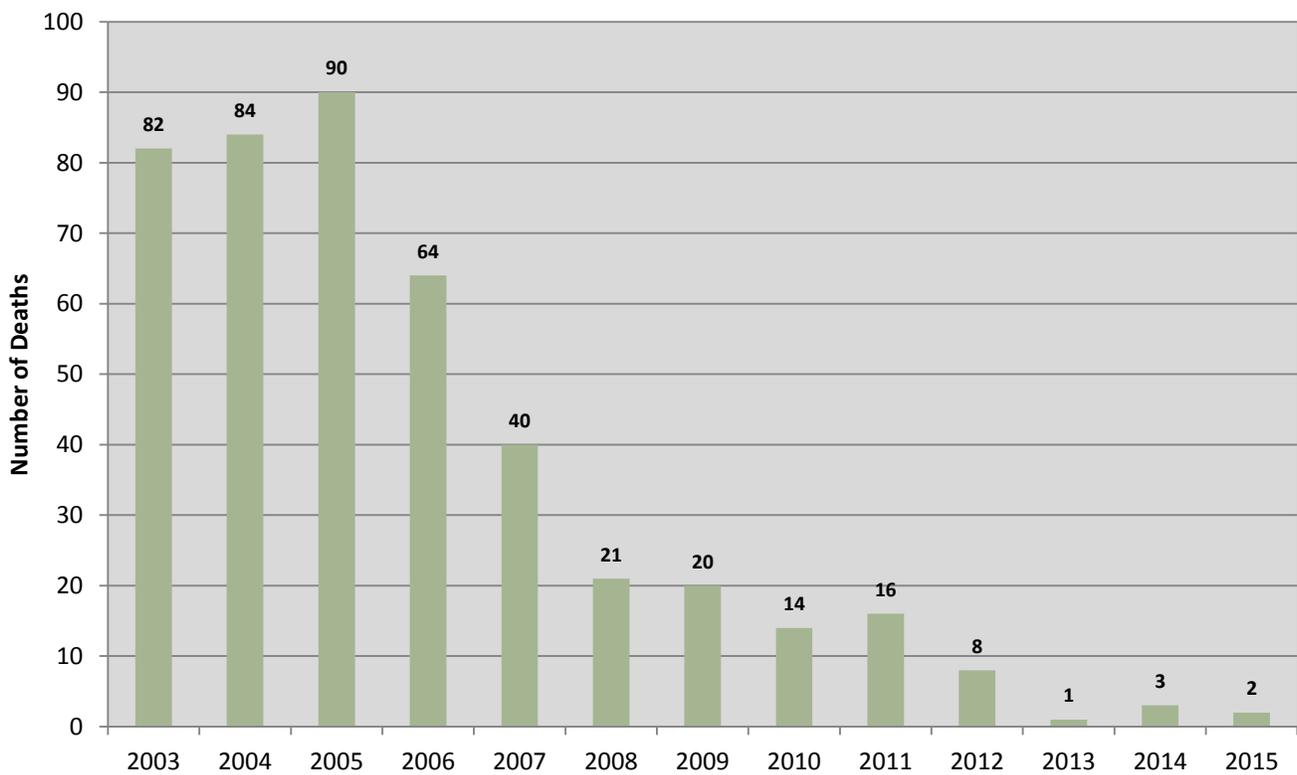


Table 3.4 Number of Natural Child Deaths by Cause and Method of Death, 2015

NATURAL CHILD DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Other cardiac disease/disorder	8	8
Cardiomyopathy no otherwise specified	2	2
Hypertension	1	1
Congenital defect	1	1
Cardiac arrhythmia not otherwise specified	2	2
Valvular	1	1
Central Nervous System Diseases/Disorders		
Other central nervous system disease/disorder	1	1
Other Natural Disease/Disorder		
Other natural disease/disorder	2	2
Perinatal and Pediatric Diseases/Disorders		
Fetal complications	0	1
Sudden Infant Death Syndrome (SIDS)	2	2
Other perinatal or pediatric disorder	1	1
Pulmonary Diseases/Disorders		
Asthma	2	2
Pneumonia	5	5
Other pulmonary diseases/disorders	1	2
Systemic Diseases/Disorders		
Other infectious disease	3	4
TOTAL NATURAL CHILD DEATHS	32	35

CHILD SUICIDE DEATHS (N=35)

The number of child suicide deaths in 2015 decreased by 10.3% when compared to 2014.

- Child suicides are very similar to adult suicides as they occur more frequently in males (71.4%) and whites (62.9%)
- White males have the highest rate of child suicide (3.1 deaths per 100,000 persons aged 0-17 years)
- The most common methods of child suicides were gunshot wounds (57.1%) and hangings (37.1%)

Figure 3.21 Number and Rate of Child Suicide Deaths by Year, 1999-2015

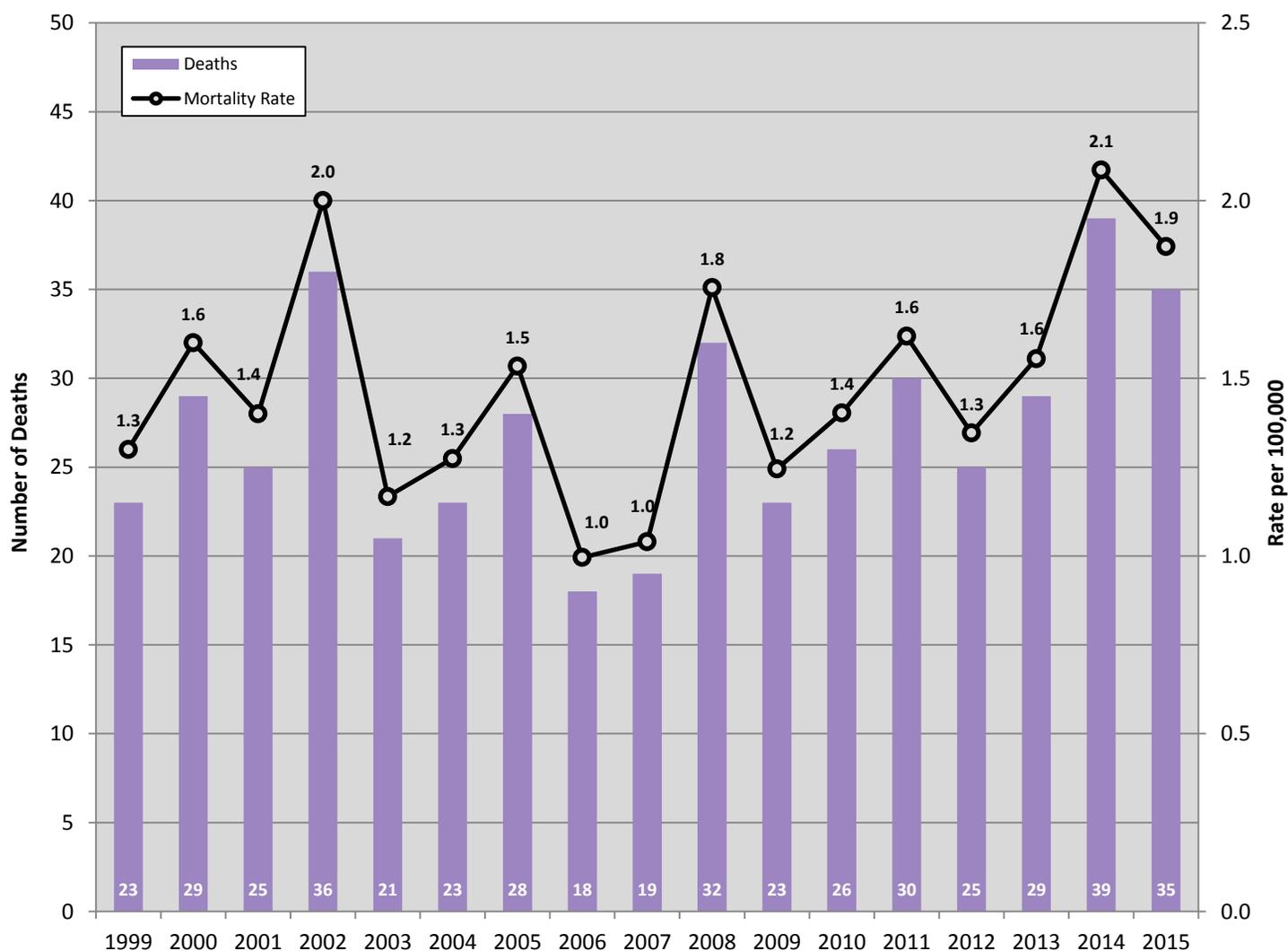


Figure 3.22 Number of Child Suicide Deaths by Age and Gender, 2015

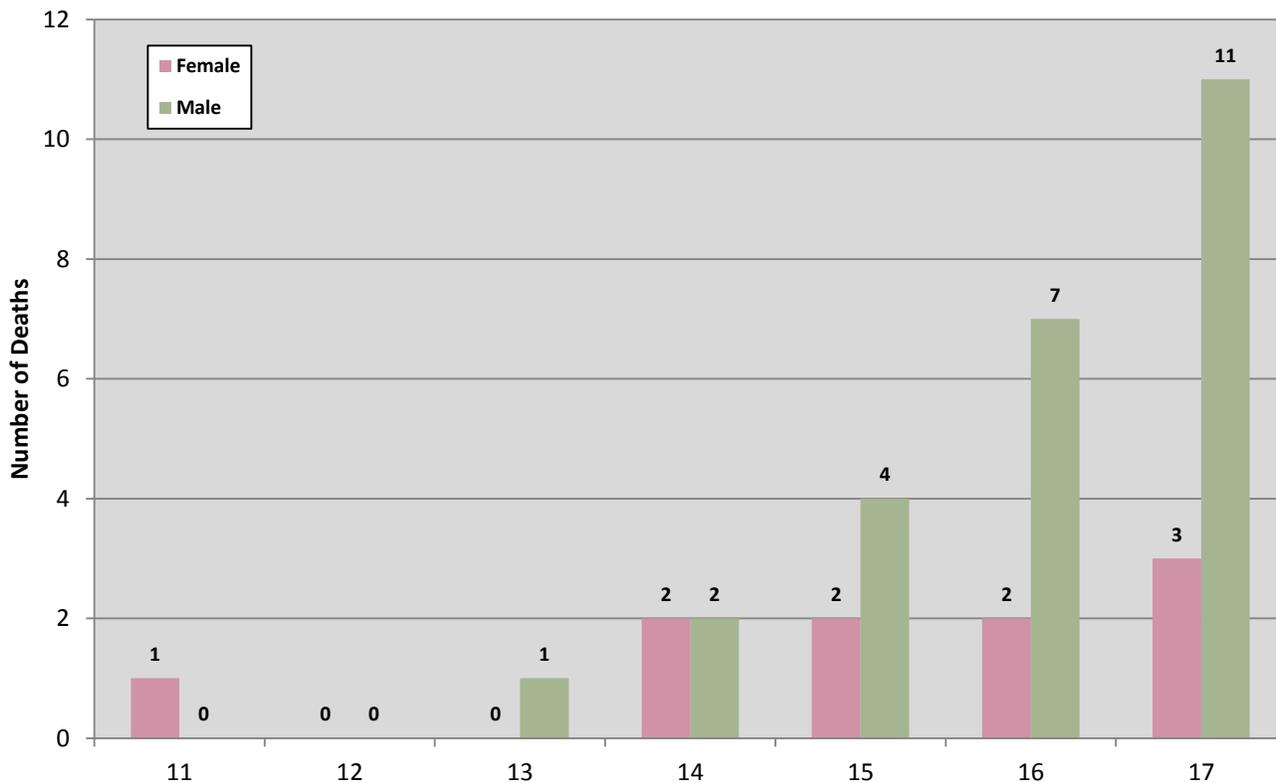


Figure 3.23 Percentage of Child Suicide Deaths by Race/Ethnicity, 2015

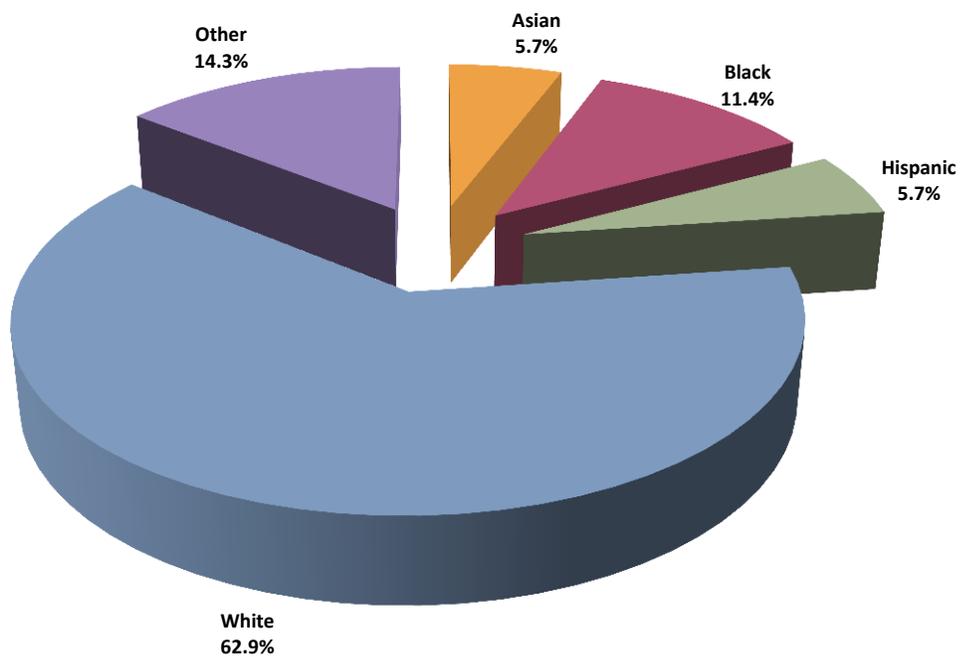
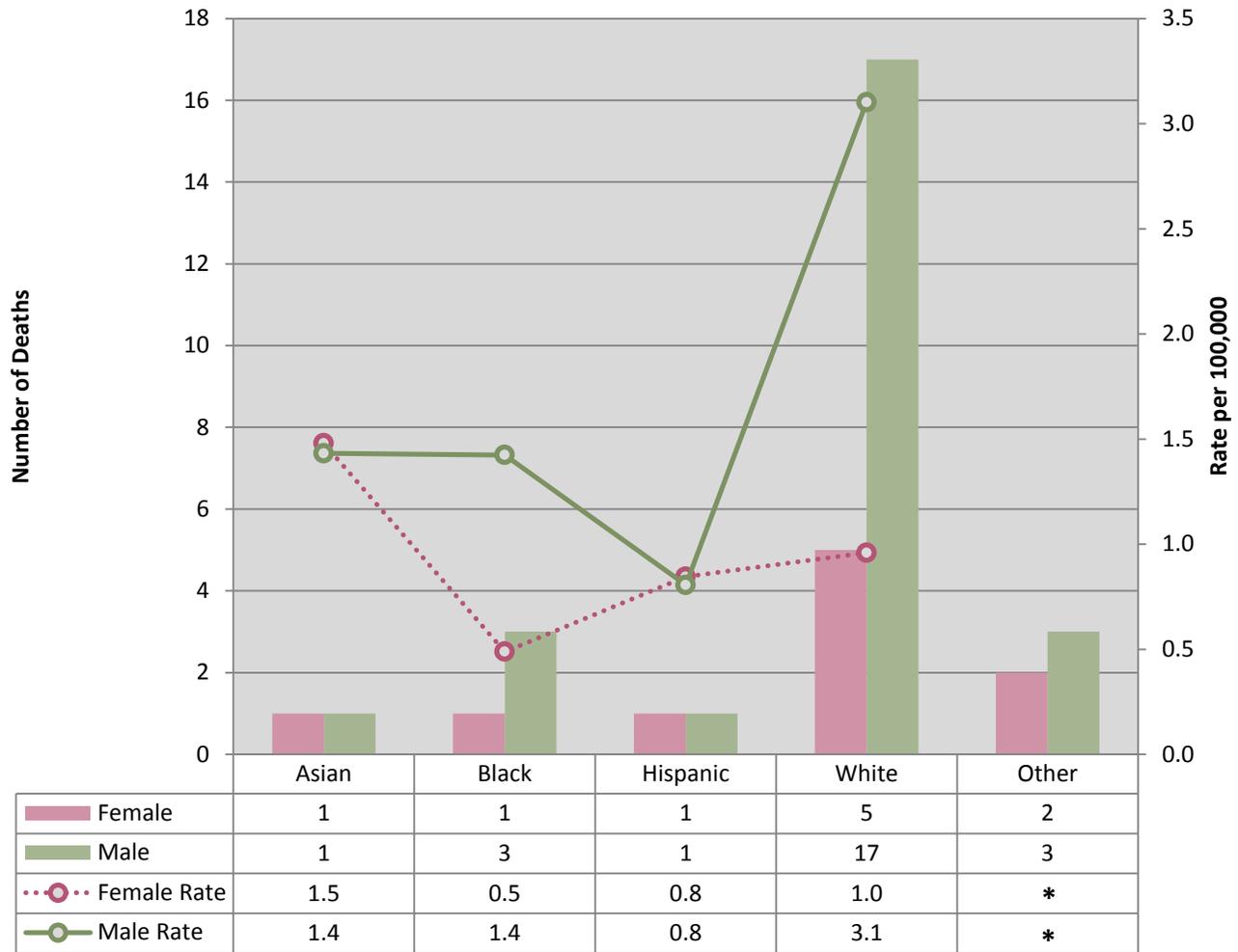


Figure 3.24 Number and Rate of Child Suicide Deaths by Gender and Race/Ethnicity, 2015



*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (all but Whites)

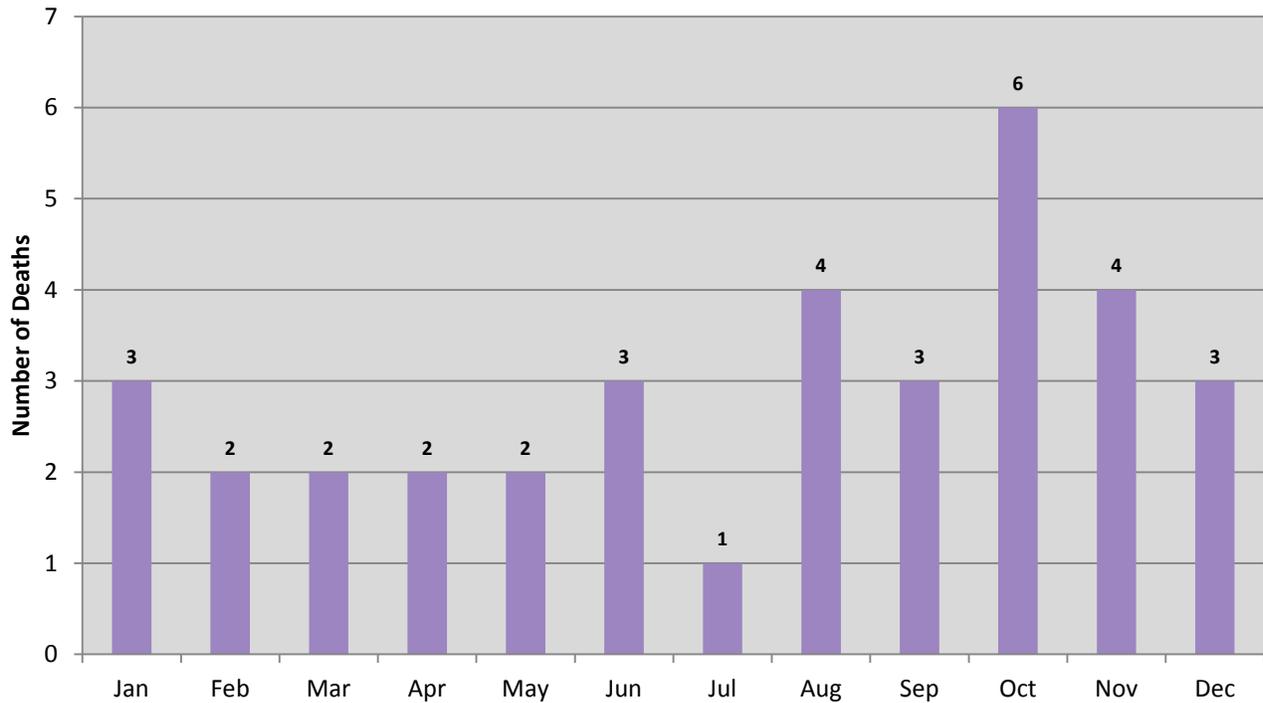
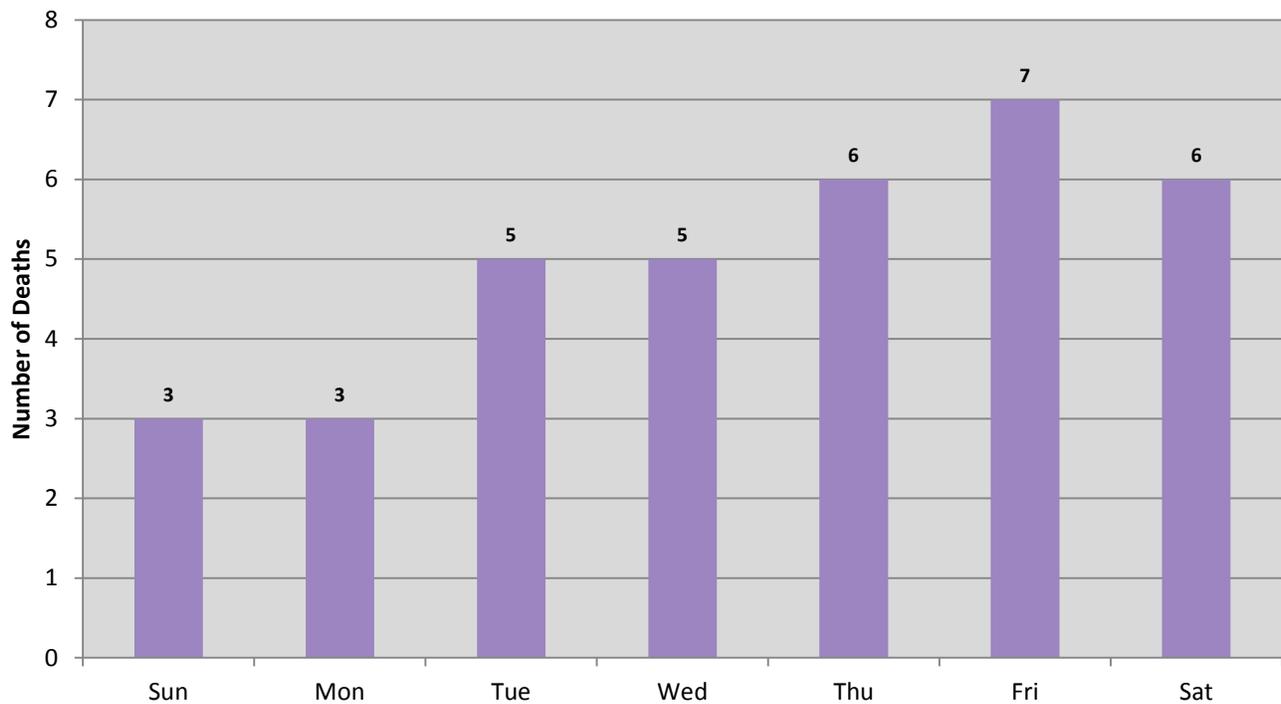
Figure 3.25 Number of Child Suicide Deaths by Month, 2015**Figure 3.26 Number of Child Suicide Deaths by Day of the Week, 2015**

Table 3.5 Number of Child Suicide Deaths by Cause and Method of Death, 2015

Method of Death	Autopsied	Total Cases
Asphyxia		
Hanged	5	13
Fire Injuries		
Thermal burns and/or inhalation of combustion products	1	1
Traumatic Injury		
Gunshot Wound		
Handgun	15	15
Rifle	2	2
Shotgun	3	3
Stab wounds to self	1	1
TOTAL CHILD SUICIDE DEATHS	27	35

UNDETERMINED CHILD DEATHS (N=85)

A total of 85 undetermined deaths of children occurred in 2015, representing 28.2% of all child deaths.

- Infants accounted for 90.6% of undetermined deaths
- Sudden unexpected infant death (SUID) deaths of infants <1 year of age represented 69.4% of all undetermined child deaths

Figure 3.27 Number and Rate of Undetermined Child Deaths by Year, 2006-2015

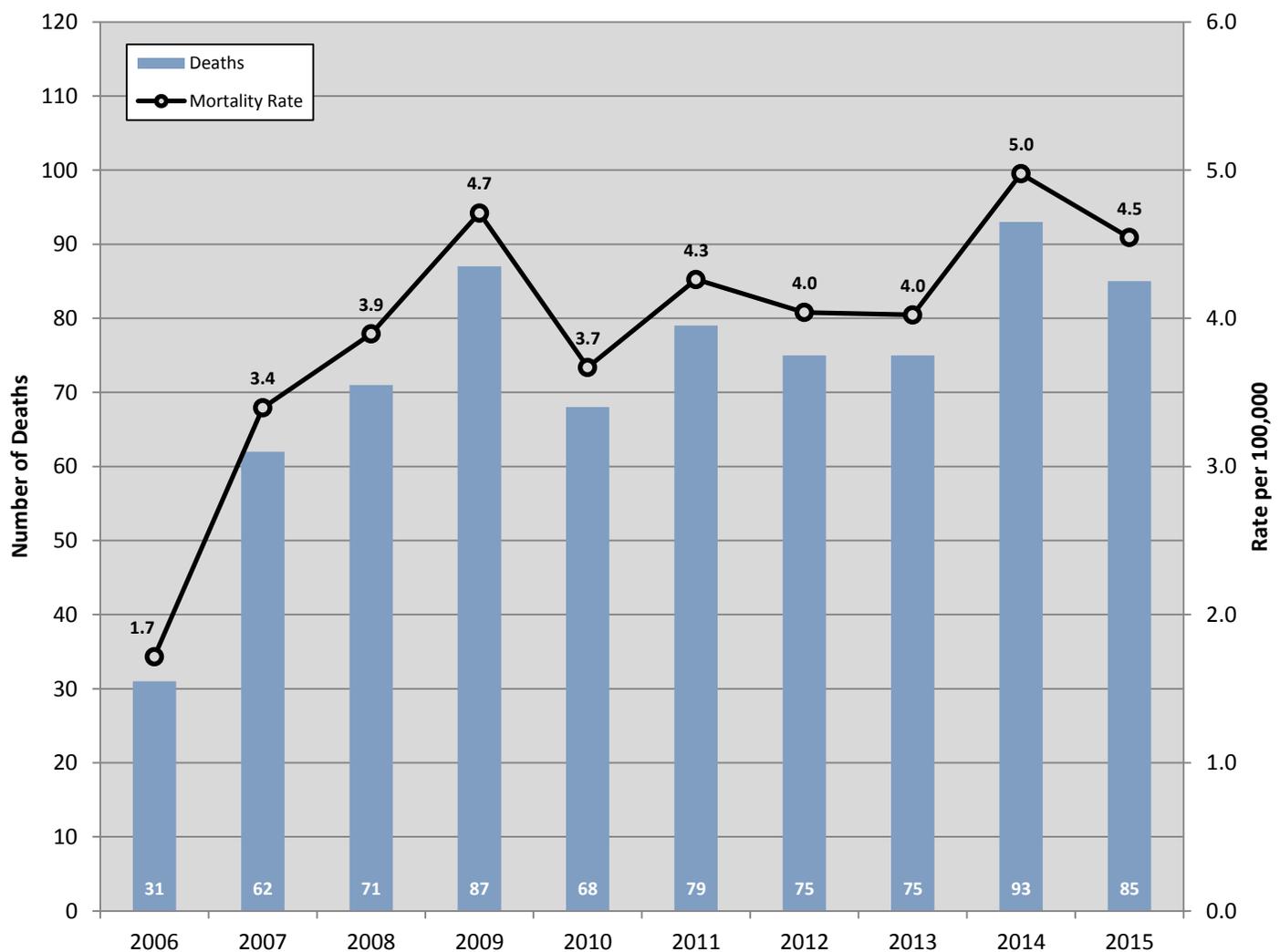


Figure 3.28 Number of Undetermined Child Deaths by Age and Gender, 2015

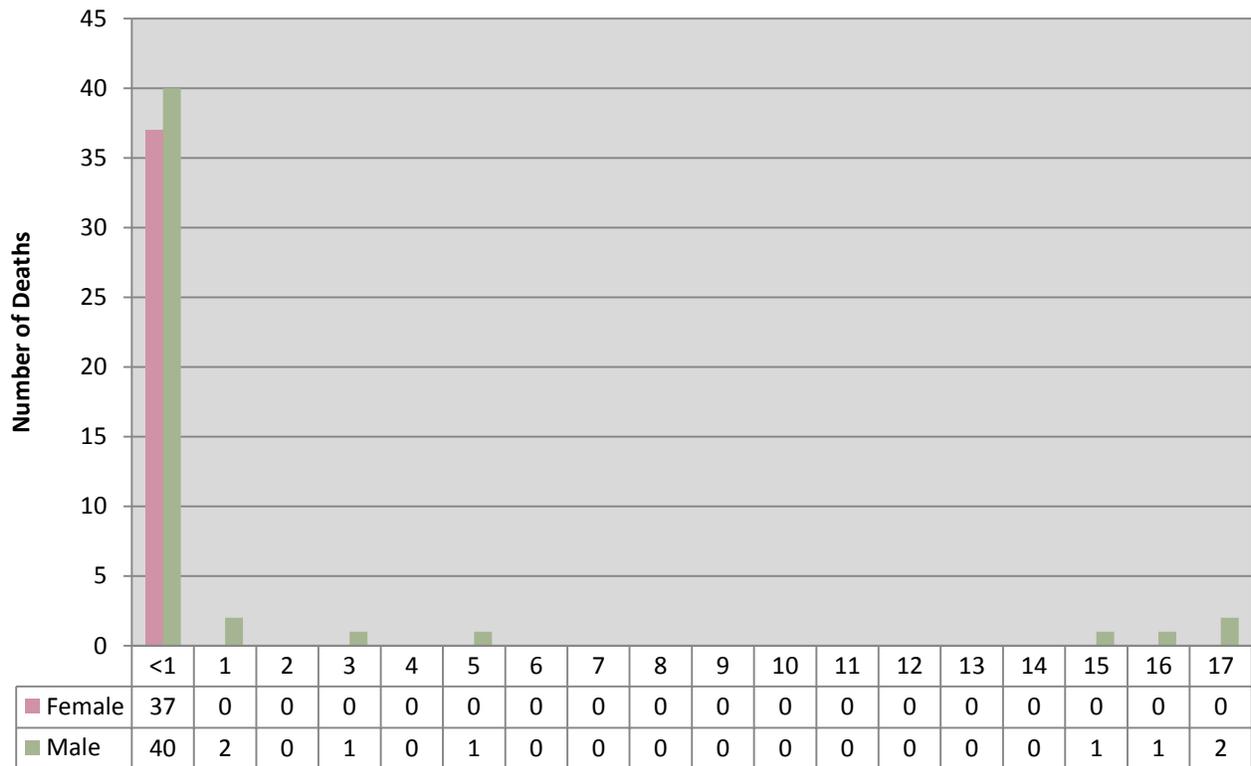


Figure 3.29 Percentage of Undetermined Child Deaths by Race/Ethnicity, 2015

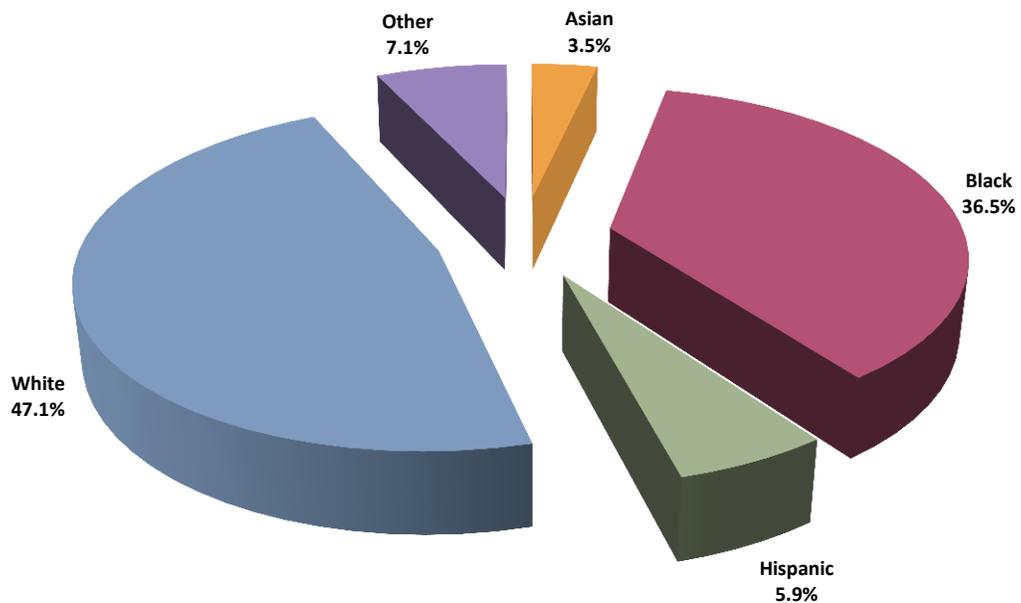
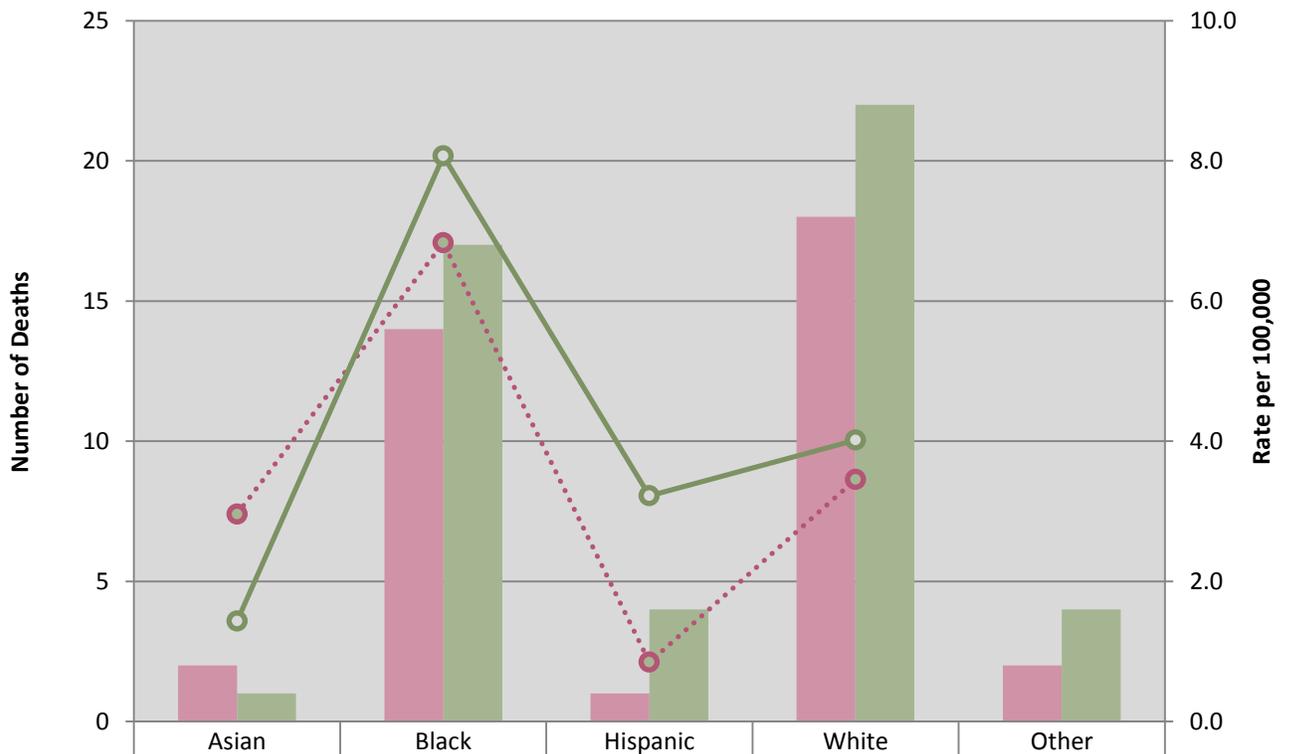


Figure 3.30 Number and Rate of Undetermined Child Deaths by Gender and Race/Ethnicity, 2015



*No rate can be calculated

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

Table 3.6 Number of Undetermined Child Deaths by Cause and Method of Death, 2015

Determined Cause and Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned	2	2
Motor Vehicle		
Unknown	1	1
Traumatic Injury		
Gunshot wound		
Handgun	1	1
Stabbed	1	1
Other traumatic injury	3	3
Other Unnatural		
Other	2	2
<i>Subtotal for Determined Cause and Method of Death</i>	10	10
Undetermined Manner and Cause of Death		
Sudden Unexpected Infant Death (SUID)	59	59
Other or undetermined after autopsy and/or toxicology	16	16
<i>Subtotal for Undetermined Manner and Cause of Death</i>	75	75
TOTAL UNDETERMINED CHILD DEATHS	85	85

SECTION 4: MOTOR VEHICLE FATALITIES (N=879)

The OCME investigated 879 motor vehicle collision-related deaths in 2015; an increase of 8.8% when compared to 2014.

- The vast majority of cases were accidents (97.4%) and victims were most often male (69.5%)
- Of the 690 motor vehicle fatalities tested for ethanol, 26.5% (n=183) had a blood alcohol content greater than or equal to 0.08% BAC; of these 183 decedents who were at or above the legal limit of alcohol, 71.0% were drivers
- Persons aged 25-34 years old had more deaths (17.1%) due to motor vehicle incidents than any other age group
- Twenty-seven children under the age of 15 years died in motor vehicle-related incidents

Figure 4.1 Number and Rate of Motor Vehicle Deaths by Year, 2003-2015

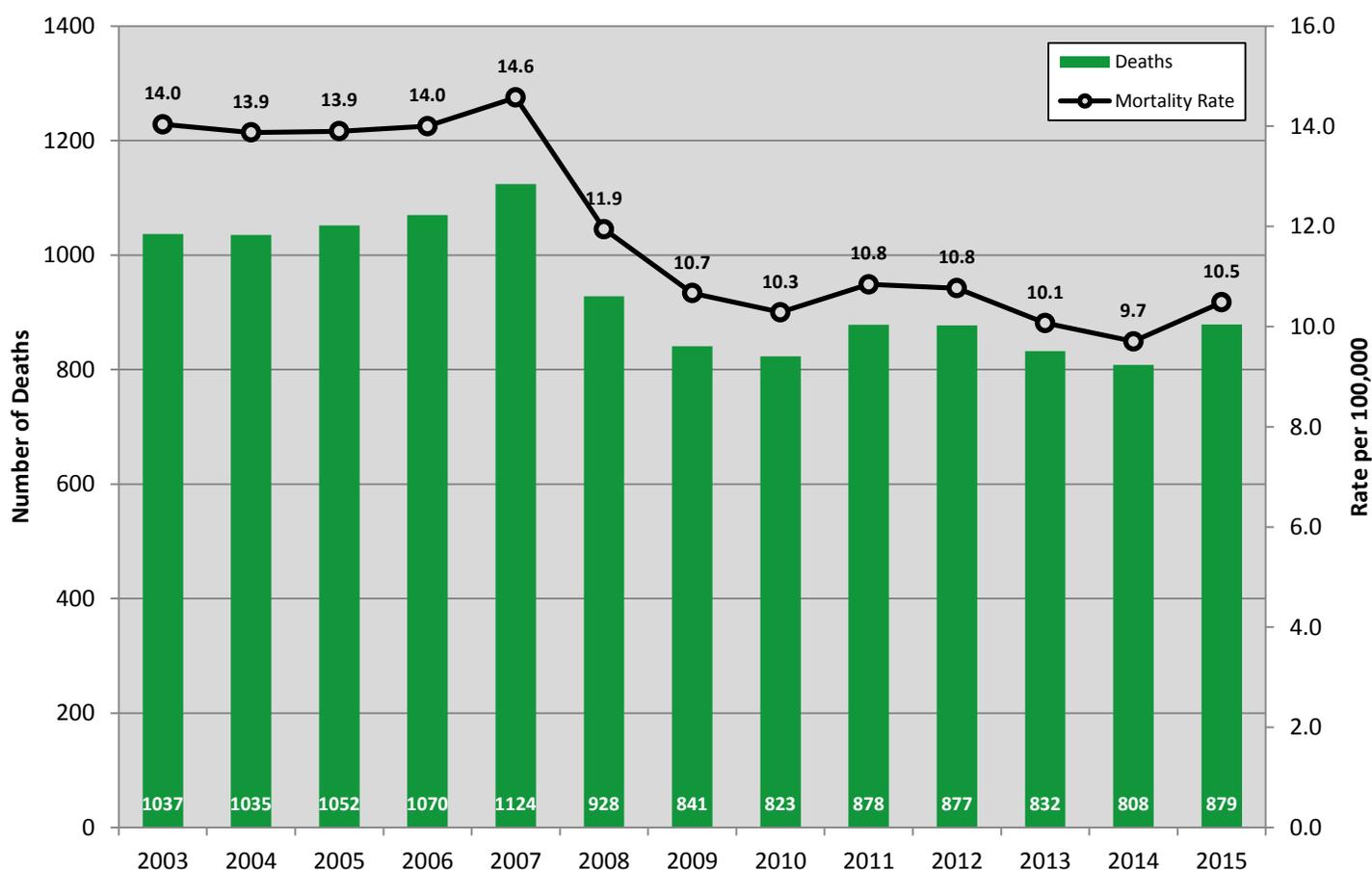


Figure 4.2 Percentage of Motor Vehicle Deaths by Manner, 2015

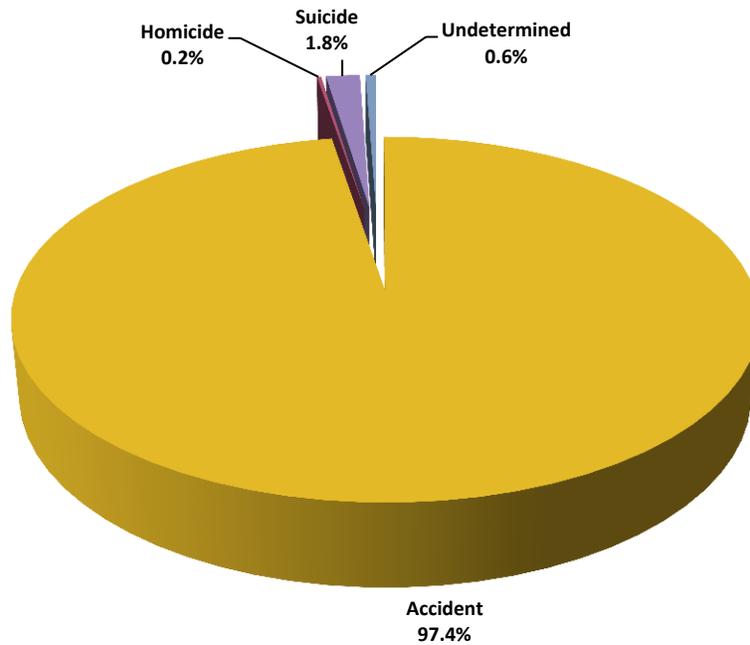


Figure 4.3 Number and Rate of Motor Vehicle Deaths by Age Group and Gender, 2015

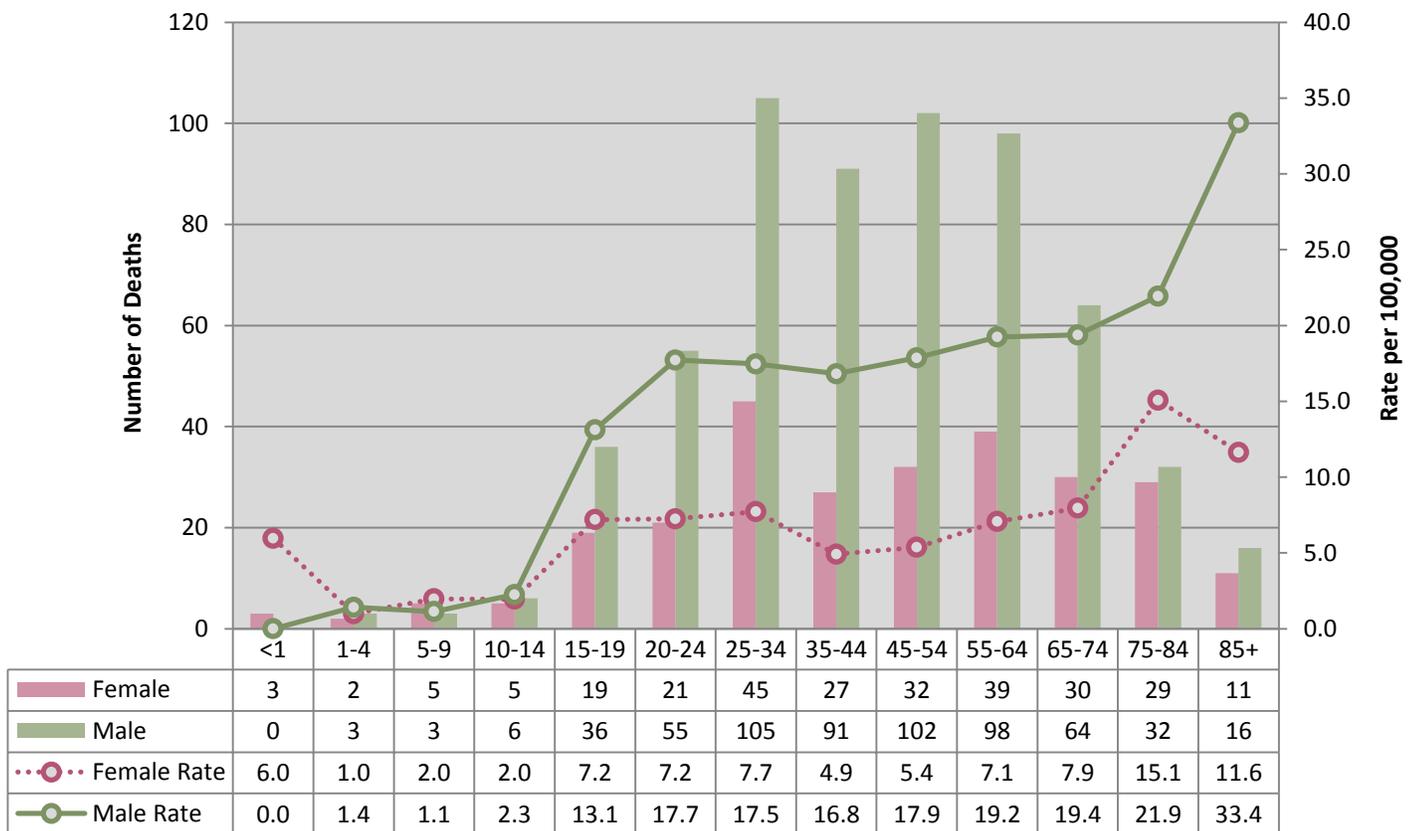


Figure 4.4 Percentage of Motor Vehicle Deaths by Race/Ethnicity, 2015

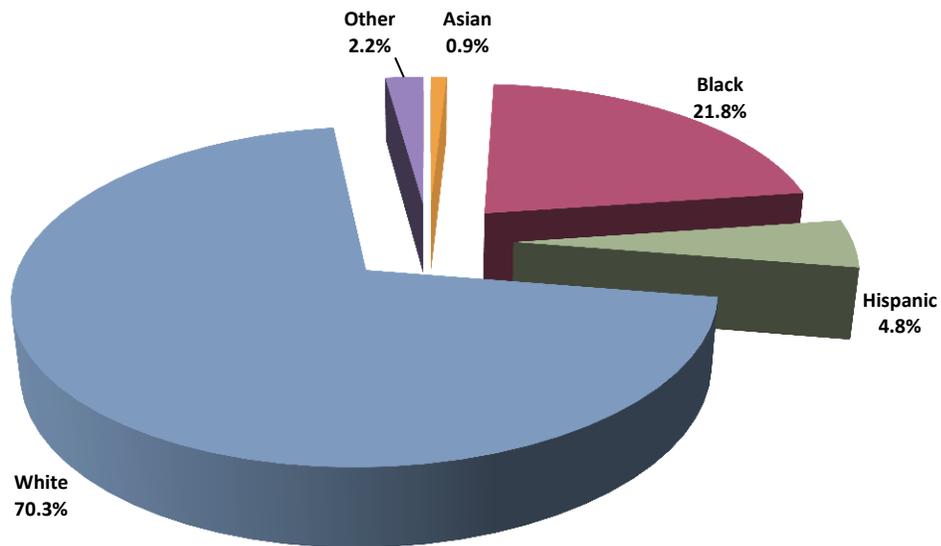
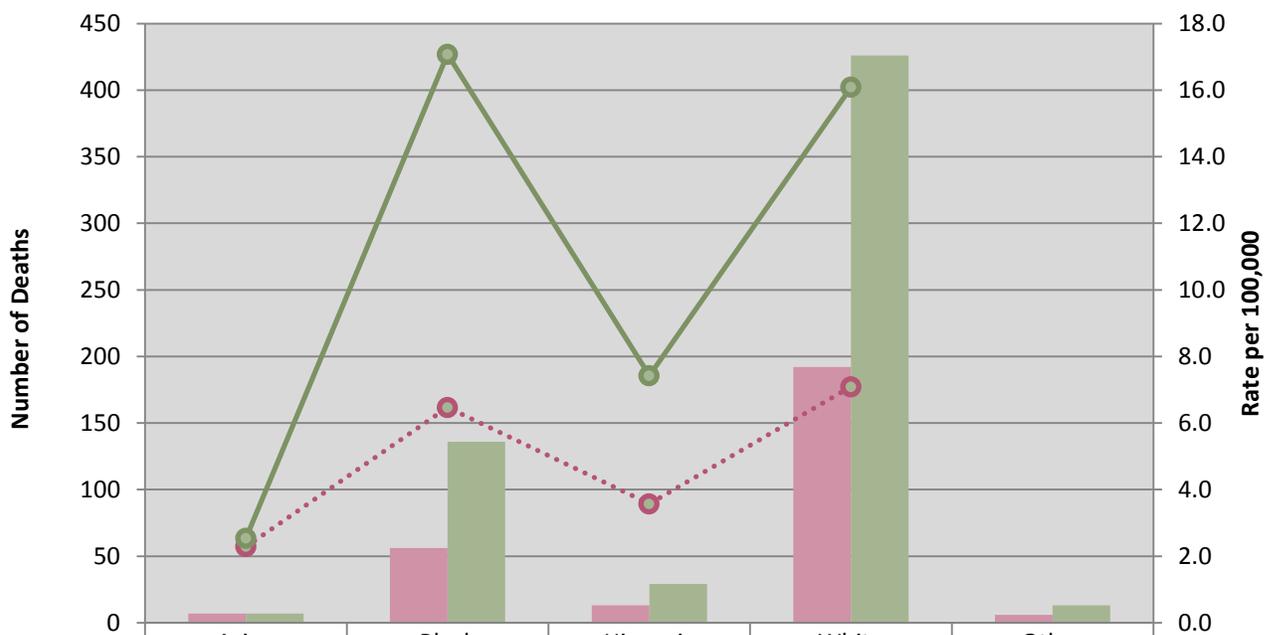


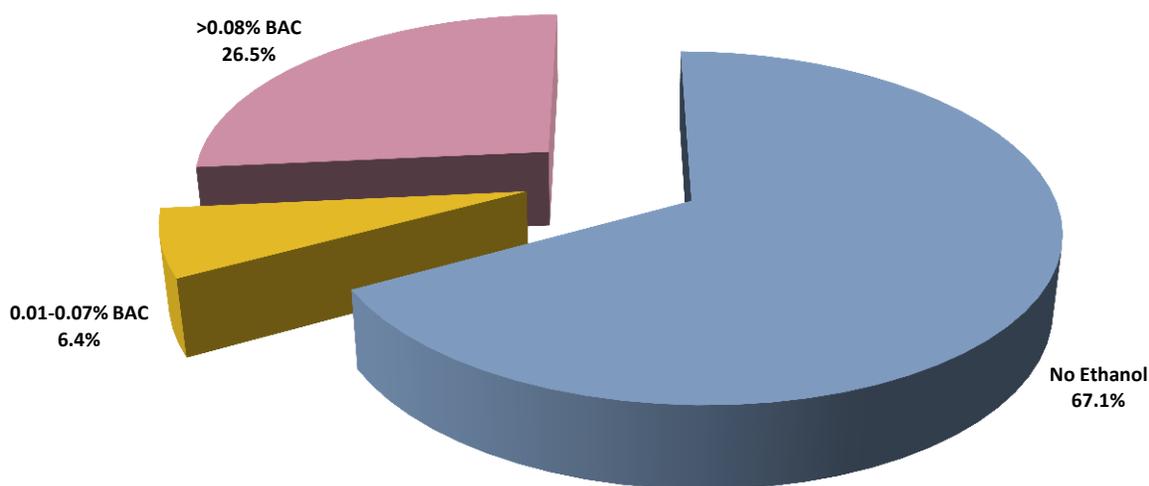
Figure 4.5 Number and Rate of Motor Vehicle Deaths by Race/Ethnicity and Gender, 2015



	Asian	Black	Hispanic	White	Other
Female	7	56	13	192	6
Male	7	136	29	426	13
Female Rate	2.3	6.5	3.6	7.1	*
Male Rate	2.5	17.1	7.4	16.1	*

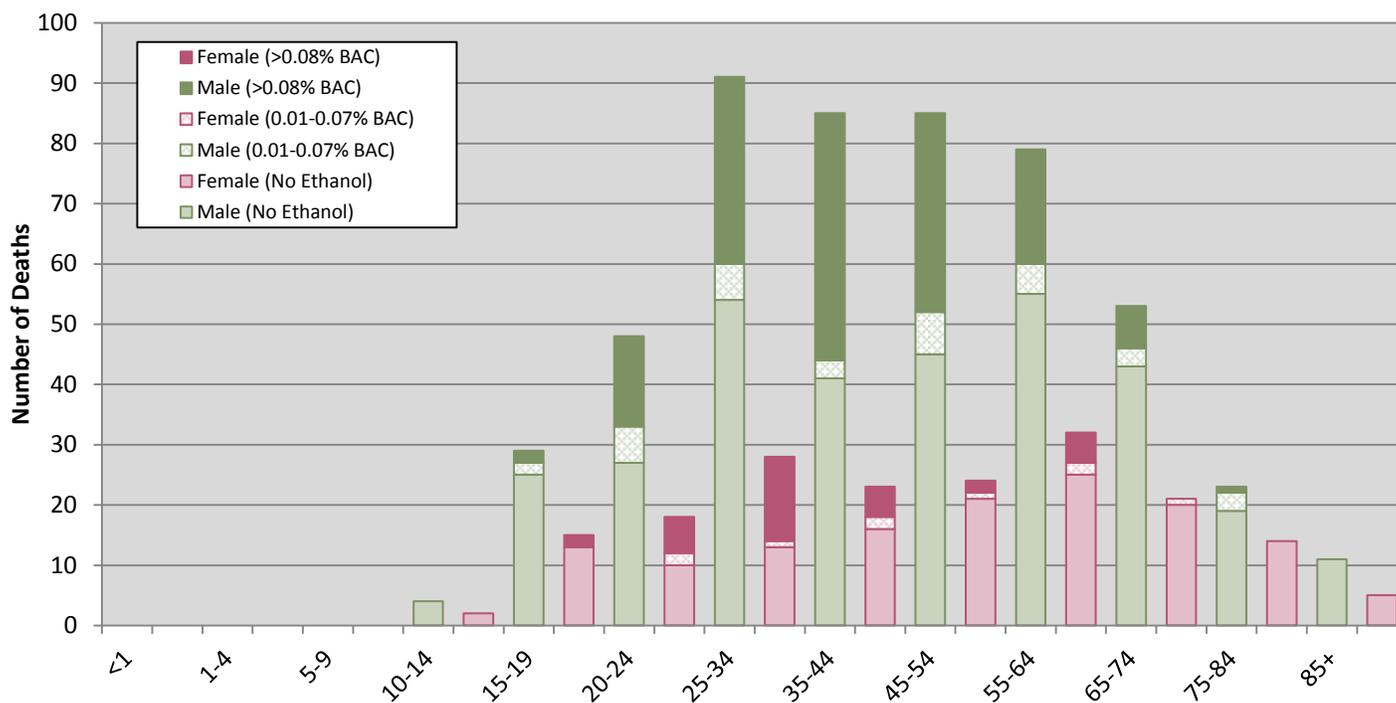
*No rate can be calculated

Figure 4.6 Percentage of Motor Vehicle Deaths by Ethanol Amount (N=690), 2015

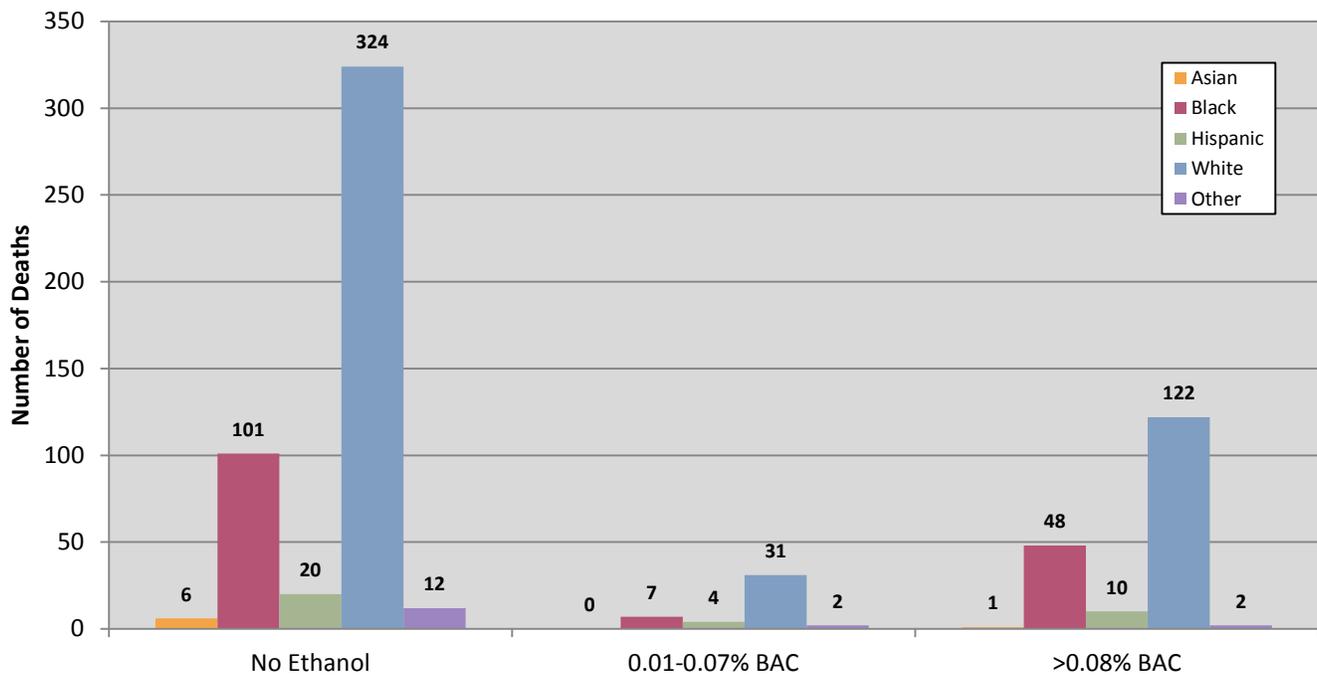


*Note: Of the 879 motor vehicle deaths, 21.5% (n=189) did not receive toxicology testing

Figure 4.7 Number of Motor Vehicle Deaths by Age Group, Gender, and Ethanol Amount (N=690), 2015



*Note: Of the 879 motor vehicle deaths, 21.5% (n=189) did not receive toxicology testing

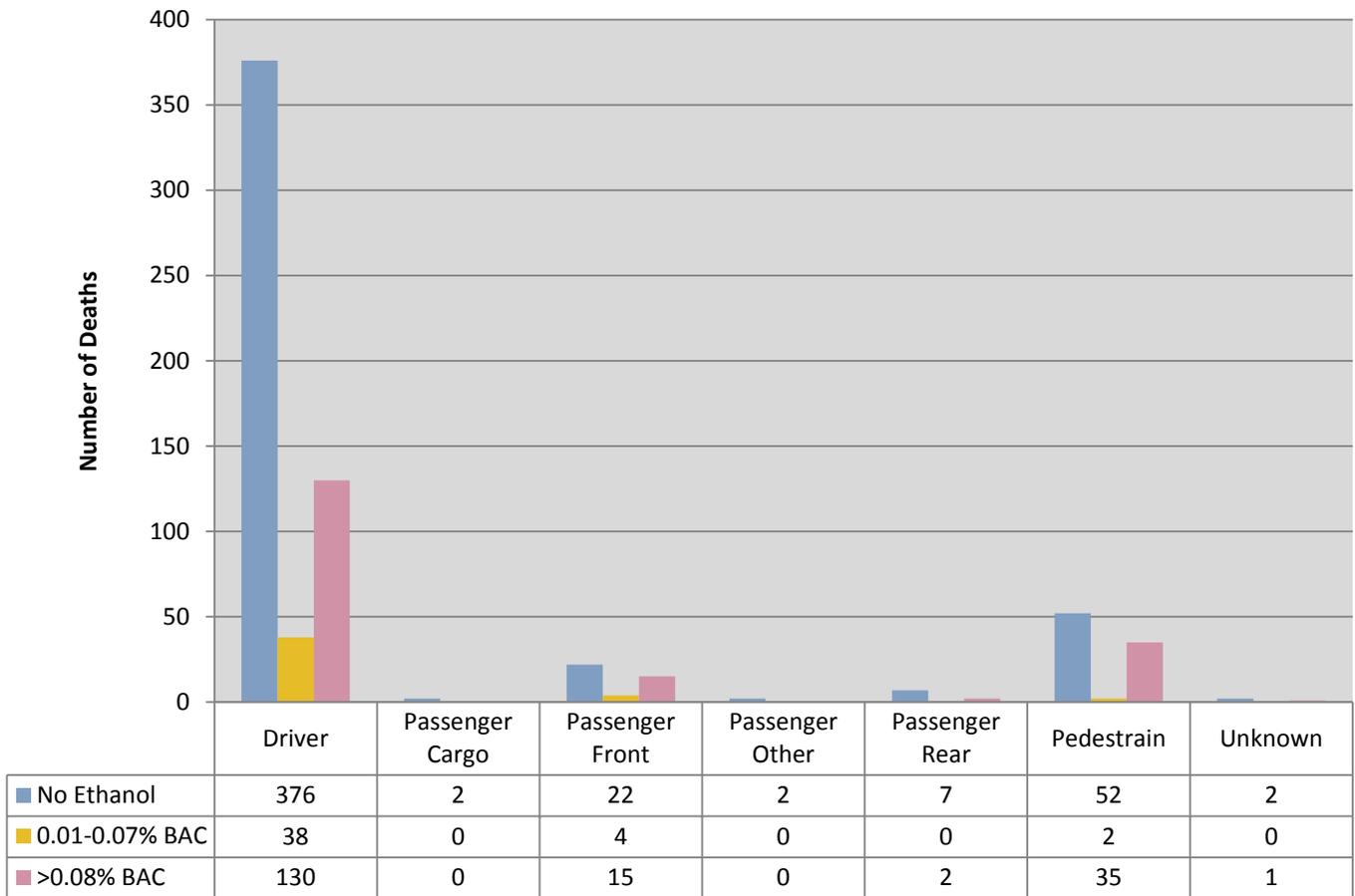
Figure 4.8 Number of Motor Vehicle Deaths by Ethanol Level and Race/Ethnicity (N=690), 2015

*Note: Of the 879 motor vehicle deaths, 21.5% (n=189) did not receive toxicology testing

Table 4.1 Number of Motor Vehicle Deaths by Age Group and Position during Collision, 2015

Age Group (years)	Driver	Passenger Cargo	Passenger Front	Passenger Other	Passenger Rear	Pedestrian	Unknown	TOTAL
<1	1	0	1	0	1	0	0	3
1-4	0	0	0	0	4	1	0	5
5-9	0	0	0	2	6	0	0	8
10-14	3	1	2	0	3	2	0	11
15-19	37	0	10	0	2	5	1	55
20-24	48	3	12	0	5	7	1	76
25-34	107	1	16	2	6	18	0	150
35-44	86	0	9	1	3	17	2	118
45-54	93	0	7	0	3	23	8	134
55-64	94	1	8	1	5	25	3	137
65-74	70	0	10	0	0	12	2	94
75-84	43	0	12	0	3	3	0	61
85+	17	0	5	0	1	4	0	27
TOTAL	599	6	92	6	42	117	17	879

Figure 4.9 Number of Motor Vehicle Deaths by Position during Collision and Ethanol Level (N=690), 2015



*Note: Of the 879 motor vehicle deaths, 21.5% (n=189) did not receive toxicology testing

Table 4.2 Number of Motor Vehicle Deaths by Position during Collision, Vehicle Type, and Ethanol Level, 2015

Position During Collision	Vehicle Type	No Ethanol	0.01-0.07% BAC	>0.08% BAC	Total
Driver	Aircraft	2	0	0	2
	All Terrain Vehicle	6	5	4	15
	Bicycle	11	2	3	16
	Bus	1	0	0	1
	Car	181	16	60	257
	Construction Heavy Equipment	1	0	1	2
	Dump Truck	1	0	0	1
	Farm Equipment	3	0	0	3
	Golf Cart	1	0	0	1
	Lawnmower	1	0	0	1
	Mo-Ped	3	1	5	9
	Motorcycle	53	4	9	66
	Pickup Truck	37	3	25	65
	Pickup Truck	1	0	0	1
	Sport Utility Vehicle	41	4	14	59
	Tractor Trailer	16	1	1	18
	Truck Other	3	0	1	4
	Unknown	3	0	2	5
	Van	11	2	5	18
	Subtotal		376	38	130
Passenger Cargo	Sport Utility Vehicle	1	0	0	1
	Truck Other	1	0	0	1
	Subtotal	2	0	0	2
Passenger Front	Car	18	2	8	28
	Motorcycle	0	0	1	1
	Pickup Truck	3	0	4	7
	Sport Utility Vehicle	1	2	1	4
	Truck Other	0	0	1	1
	Subtotal	22	4	15	41
Passenger Other	Pickup Truck	1	0	0	1
	Sport Utility Vehicle	1	0	0	1
	Subtotal	2	0	0	2
Passenger Rear	Car	2	0	1	3
	Motorcycle	1	0	0	1
	Sport Utility Vehicle	4	0	0	4
	Van	0	0	1	1
	Subtotal	7	0	2	9

	Bus	1	0	0	1
	Car	16	1	13	30
	Construction Heavy Equipment	2	0	0	2
	Dump Truck	2	0	0	2
	Motorcycle	0	0	1	1
	Multiple	0	0	1	1
	Pickup Truck	5	0	2	7
	Snow Plow	1	0	0	1
	Sport Utility Vehicle	7	0	1	8
	Tractor Trailer	4	0	1	5
	Train	6	1	10	17
	Truck Other	1	0	0	1
	Unknown	5	0	6	11
	Van	2	0	0	2
	Subtotal	52	2	35	89
Unknown	Pickup Truck	1	0	0	1
	Unknown	1	0	1	2
	Subtotal	2	0	1	3

*Note: Of the 879 motor vehicle deaths, 21.5% (n=189) did not receive toxicology testing

Figure 4.10 Number of OCME Motor Vehicle Fatalities by Month of Death, 2015

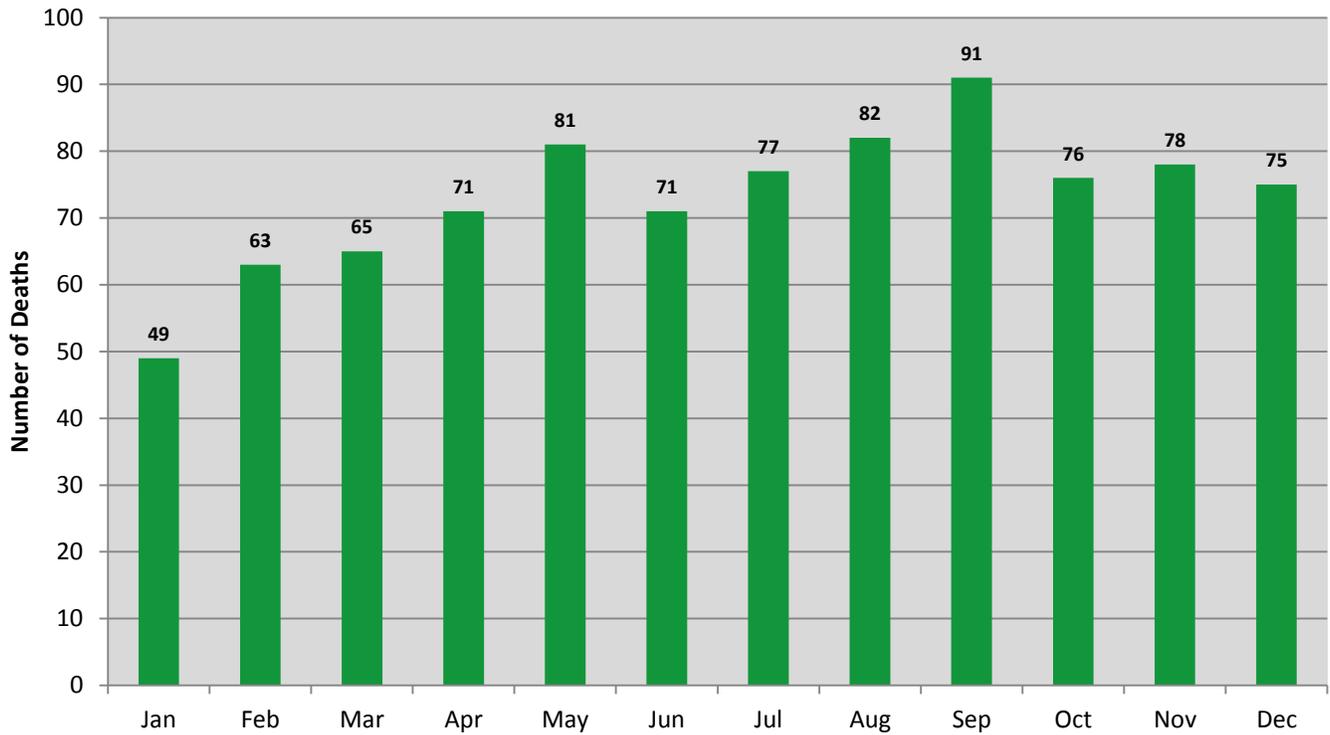


Figure 4.11 Number of OCME Motor Vehicle Fatalities by Day of Week, 2015

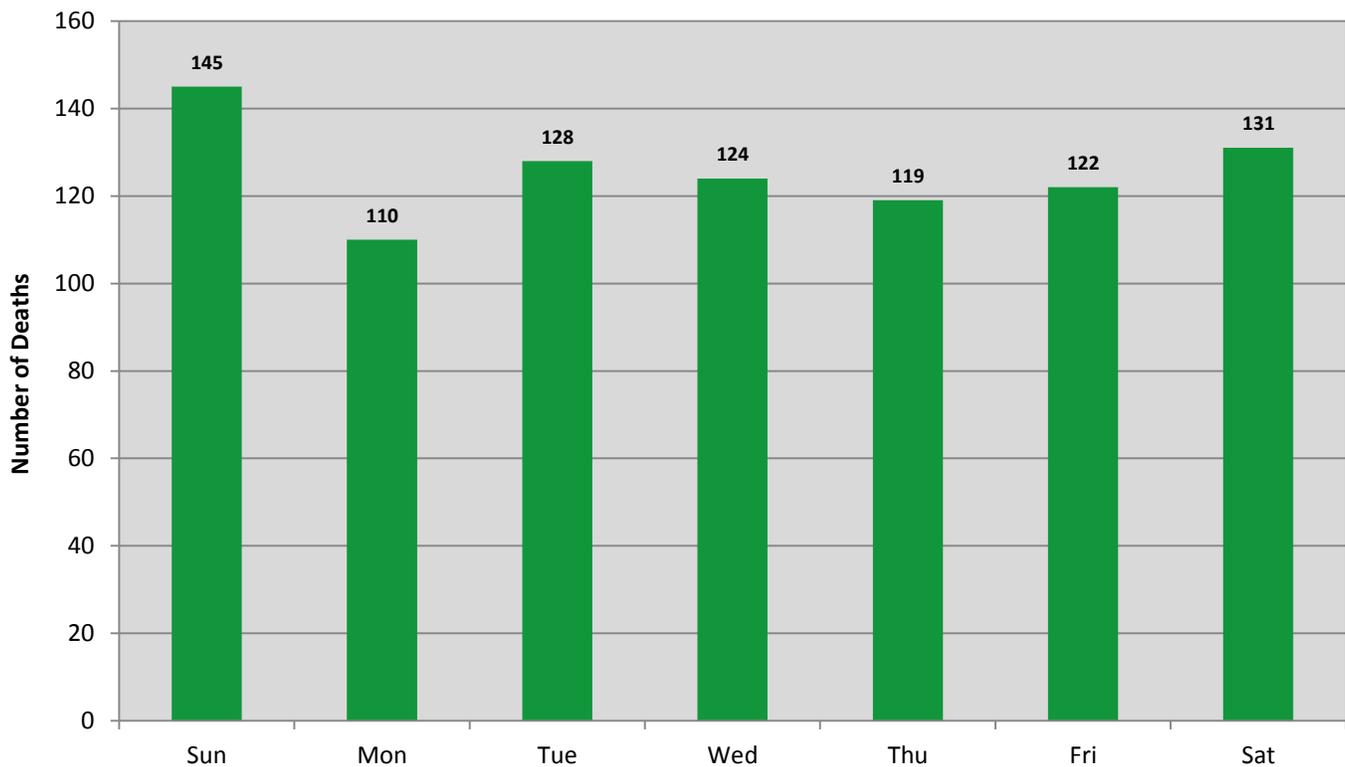


Table 4.3 Number and Rate of Motor Vehicle Deaths by Locality of Residence, 2015

Locality of Residence	Deaths	Rate
Accomack County	3	9.1
Albemarle County	14	13.2
Alexandria City	3	2.0
Alleghany County	5	31.9
Amelia County	2	15.5
Amherst County	3	9.4
Appomattox County	4	26.0
Arlington County	5	2.2
Augusta County	3	4.0
Bath County	0	0.0
Bedford County	12	15.4
Bland County	1	15.2
Botetourt County	0	0.0
Bristol City	0	0.0
Brunswick County	3	18.0
Buchanan County	9	39.5
Buckingham County	4	23.5
Buena Vista City	1	15.1
Campbell County	11	20.0
Caroline County	11	36.7
Carroll County	3	10.1
Charles City County	2	28.4
Charlotte County	3	24.6
Charlottesville City	4	8.6
Chesapeake City	19	8.1
Chesterfield County	31	9.2
Clarke County	1	7.0
Colonial Heights City	2	11.2
Covington City	1	17.7
Craig County	2	38.4
Culpeper County	5	10.1
Cumberland County	2	20.6
Danville City	5	11.9
Dickenson County	6	39.7
Dinwiddie County	3	10.8
Emporia City	1	18.2
Essex County	4	35.9
Fairfax City	1	4.2
Fairfax County	45	3.9
Falls Church City	0	0.0
Fauquier County	10	14.5

Locality of Residence	Deaths	Rate
Floyd County	6	38.3
Fluvanna County	10	38.1
Franklin City	1	11.8
Franklin County	7	12.4
Frederick County	6	7.2
Fredericksburg City	0	0.0
Galax City	1	14.5
Giles County	1	6.0
Gloucester County	4	10.8
Goochland County	3	13.5
Grayson County	3	18.7
Greene County	1	5.2
Greensville County	0	0.0
Halifax County	7	19.9
Hampton City	11	8.1
Hanover County	14	13.6
Harrisonburg City	2	3.8
Henrico County	21	6.5
Henry County	11	21.2
Highland County	0	0.0
Hopewell City	7	31.3
Isle of Wight County	1	2.8
James City County	10	13.7
King and Queen County	0	0.0
King George County	4	15.7
King William County	1	6.1
Lancaster County	2	18.2
Lee County	3	12.1
Lexington City	0	0.0
Loudoun County	13	3.5
Louisa County	6	17.3
Lunenburg County	3	24.4
Lynchburg City	3	3.8
Madison County	3	22.8
Manassas City	6	14.4
Manassas Park City	0	0.0
Martinsville City	0	0.0
Mathews County	3	33.9
Mecklenburg County	7	22.5
Middlesex County	1	9.4
Montgomery County	4	4.1

Locality of Residence	Deaths	Rate
Nelson County	5	33.8
New Kent County	6	29.4
Newport News City	11	6.0
Norfolk City	21	8.5
Northampton County	1	8.2
Northumberland County	0	0.0
Norton City	1	25.4
Nottoway County	5	31.9
Orange County	7	19.8
Page County	4	16.9
Patrick County	2	11.1
Petersburg City	4	12.3
Pittsylvania County	15	24.1
Poquoson City	2	16.6
Portsmouth City	12	12.5
Powhatan County	7	25.0
Prince Edward County	6	26.1
Prince George County	6	15.8
Prince William County	21	4.6
Pulaski County	3	8.7
Radford City	0	0.0
Rappahannock County	1	13.6
Richmond City	18	8.2
Richmond County	1	11.2
Roanoke City	9	9.0
Roanoke County	9	9.5
Rockbridge County	9	40.3
Rockingham County	12	15.3
Russell County	7	25.1
Salem City	2	7.9
Scott County	0	0.0
Shenandoah County	7	16.2
Smyth County	5	15.9
Southampton County	3	16.6
Spotsylvania County	12	9.2
Stafford County	16	11.3
Staunton City	4	16.4
Suffolk City	6	6.8
Surry County	1	14.9
Sussex County	1	8.5
Tazewell County	2	4.7
Virginia Beach City	25	5.5
Warren County	2	5.1

Locality of Residence	Deaths	Rate
Washington County	5	9.2
Waynesboro City	6	27.9
Westmoreland County	6	34.0
Williamsburg City	1	6.6
Winchester City	5	18.3
Wise County	1	2.5
Wythe County	9	30.9
York County	3	4.4
<i>Subtotal (in-state)</i>	757	9.0
Out of State	116	ND
Unknown	6	ND
<i>Subtotal (out-of-state)</i>	122	ND
TOTAL	879	10.5

Note: No denominator is represented by ND

Map 4.1 Number of Motor Vehicle Fatalities by Locality of Residence, 2015

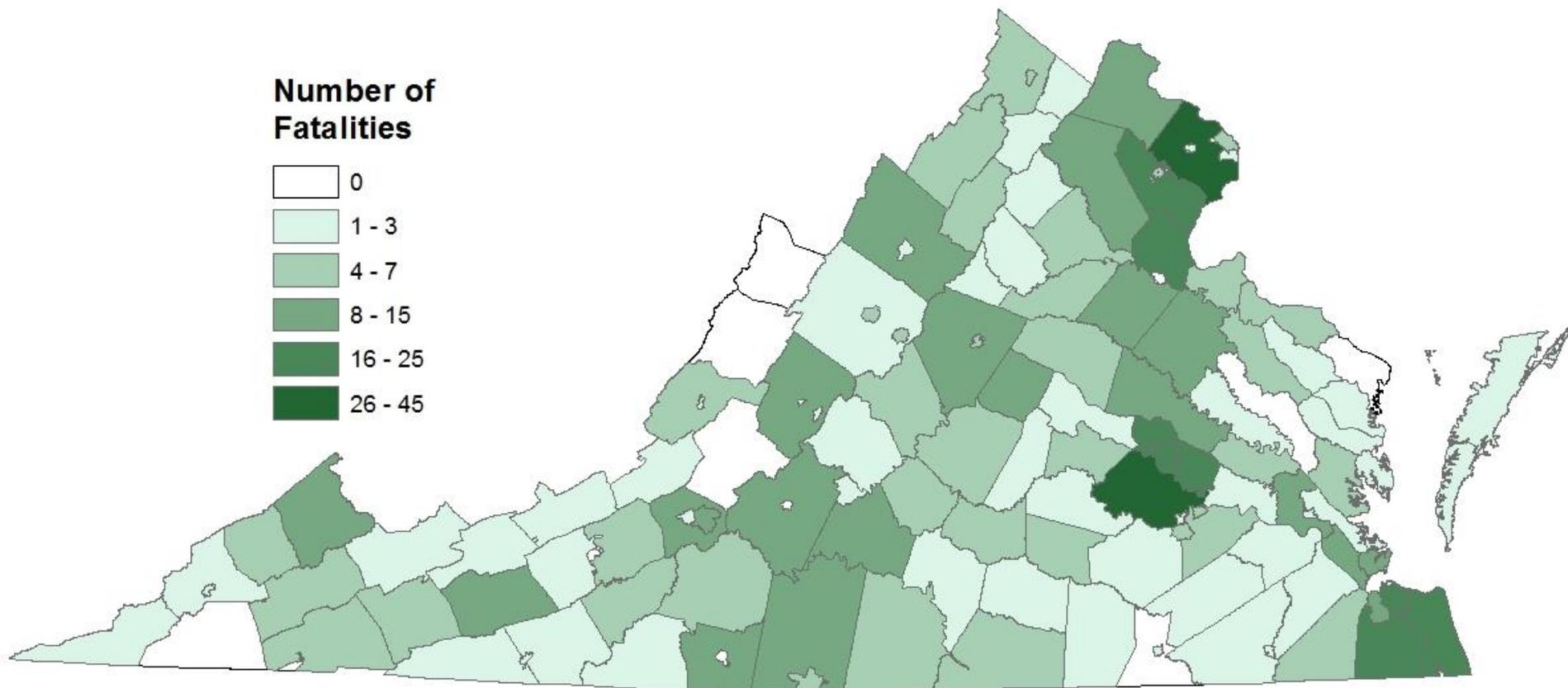


Table 4.4 Number and Rate of Motor Vehicle Deaths by Locality of Injury, 2015

Locality of Injury	Deaths	Rate
Accomack County	5	15.2
Albemarle County	17	16.1
Alexandria City	4	2.6
Alleghany County	3	19.1
Amelia County	3	23.3
Amherst County	6	18.8
Appomattox County	2	13.0
Arlington County	5	2.2
Augusta County	11	14.8
Bath County	0	0.0
Bedford County	8	10.3
Bland County	1	15.2
Botetourt County	7	21.0
Bristol City	0	0.0
Brunswick County	7	41.9
Buchanan County	6	26.3
Buckingham County	3	17.6
Buena Vista City	0	0.0
Campbell County	7	12.7
Caroline County	10	33.4
Carroll County	8	26.9
Charles City County	3	42.6
Charlotte County	5	41.0
Charlottesville City	2	4.3
Chesapeake City	17	7.2
Chesterfield County	34	10.1
Clarke County	5	34.8
Colonial Heights City	0	0.0
Covington City	0	0.0
Craig County	2	38.4
Culpeper County	7	14.2
Cumberland County	1	10.3
Danville City	4	9.5
Dickenson County	5	33.1
Dinwiddie County	10	35.9
Emporia City	1	18.2
Essex County	4	35.9
Fairfax City	2	8.3
Fairfax County	42	3.7
Falls Church City	0	0.0
Fauquier County	22	32.0

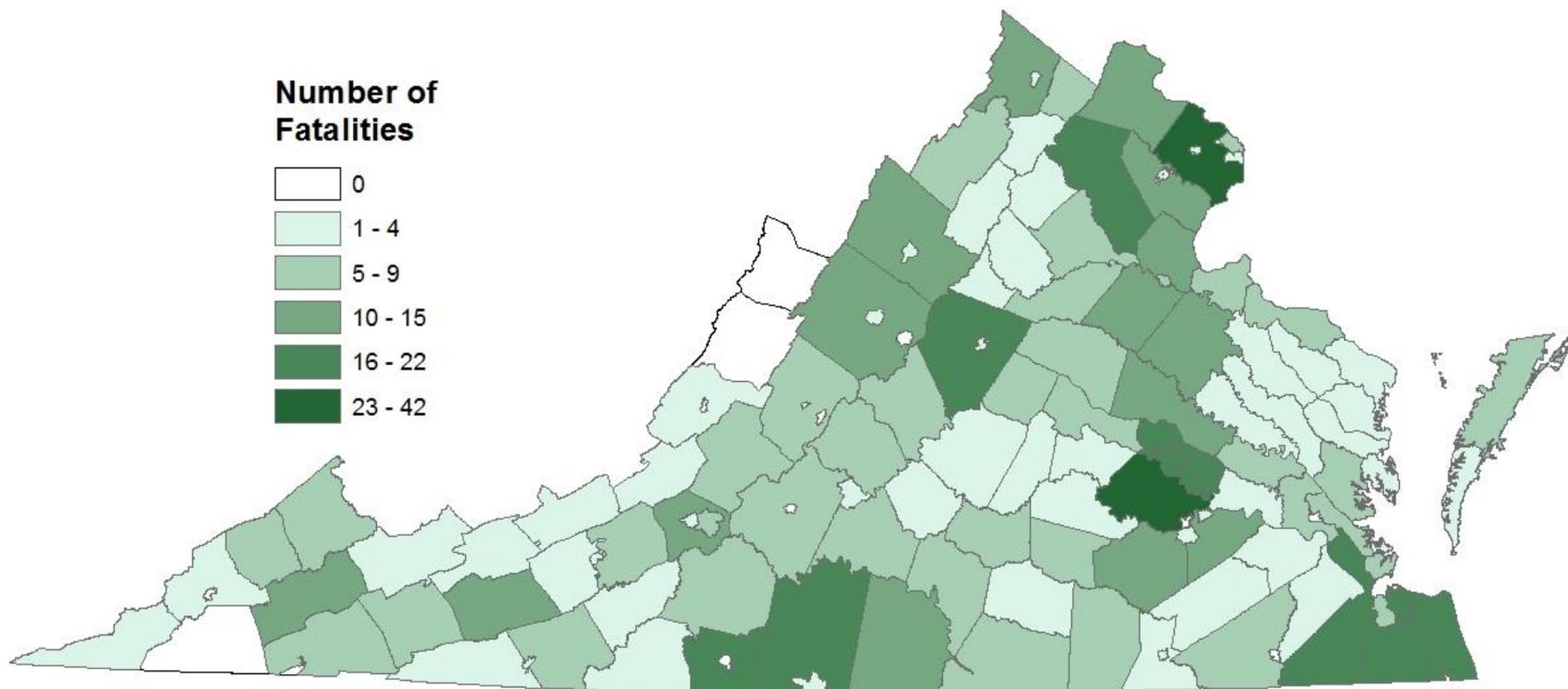
Locality of Injury	Deaths	Rate
Floyd County	4	25.6
Fluvanna County	9	34.3
Franklin City	0	0.0
Franklin County	8	14.2
Frederick County	14	16.8
Fredericksburg City	5	17.8
Galax City	1	14.5
Giles County	3	18.0
Gloucester County	5	13.5
Goochland County	8	36.0
Grayson County	3	18.7
Greene County	1	5.2
Greensville County	2	16.8
Halifax County	10	28.5
Hampton City	8	5.9
Hanover County	14	13.6
Harrisonburg City	2	3.8
Henrico County	19	5.8
Henry County	16	30.8
Highland County	0	0.0
Hopewell City	2	8.9
Isle of Wight County	4	11.0
James City County	9	12.3
King and Queen County	3	41.9
King George County	5	19.6
King William County	1	6.1
Lancaster County	2	18.2
Lee County	4	16.2
Lexington City	1	13.8
Loudoun County	15	4.0
Louisa County	6	17.3
Lunenburg County	1	8.1
Lynchburg City	3	3.8
Madison County	3	22.8
Manassas City	2	4.8
Manassas Park City	0	0.0
Martinsville City	0	0.0
Mathews County	1	11.3
Mecklenburg County	7	22.5
Middlesex County	2	18.9
Montgomery County	7	7.2

Locality of Injury	Deaths	Rate
Nelson County	7	47.3
New Kent County	8	39.2
Newport News City	19	10.4
Norfolk City	20	8.1
Northampton County	3	24.7
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	6	38.3
Orange County	8	22.6
Page County	3	12.6
Patrick County	2	11.1
Petersburg City	1	3.1
Pittsylvania County	20	32.2
Poquoson City	2	16.6
Portsmouth City	7	7.3
Powhatan County	4	14.3
Prince Edward County	7	30.5
Prince George County	12	31.7
Prince William County	15	3.3
Pulaski County	3	8.7
Radford City	1	5.7
Rappahannock County	1	13.6
Richmond City	21	9.5
Richmond County	1	11.2
Roanoke City	6	6.0
Roanoke County	11	11.7
Rockbridge County	8	35.8
Rockingham County	14	17.8
Russell County	10	35.9
Salem City	1	3.9

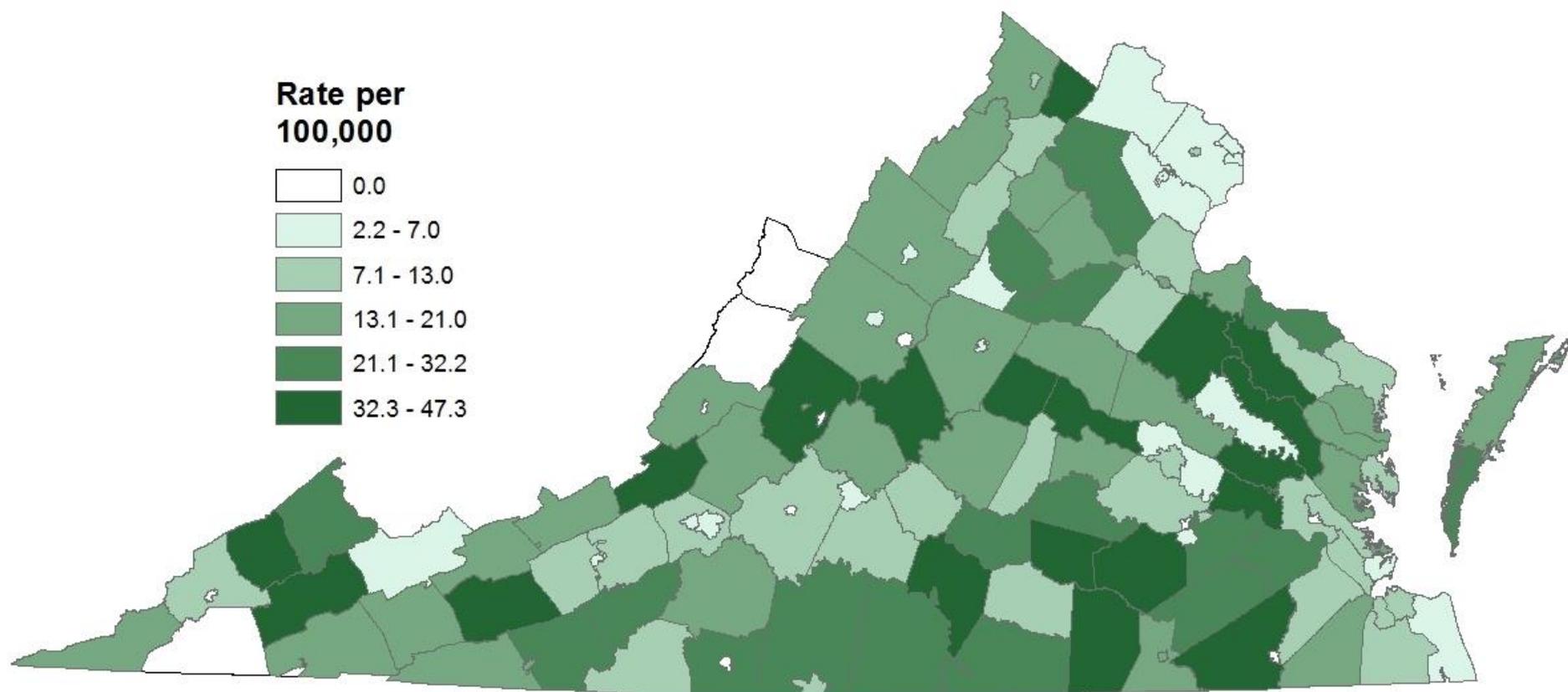
Locality of Injury	Deaths	Rate
Scott County	0	0.0
Shenandoah County	9	20.8
Smyth County	6	19.1
Southampton County	6	33.1
Spotsylvania County	11	8.4
Stafford County	14	9.9
Staunton City	1	4.1
Suffolk City	16	18.1
Surry County	2	29.8
Sussex County	3	25.6
Tazewell County	3	7.0
Virginia Beach City	19	4.2
Warren County	4	10.2
Washington County	8	14.7
Waynesboro City	0	0.0
Westmoreland County	5	28.4
Williamsburg City	0	0.0
Winchester City	2	7.3
Wise County	3	7.6
Wythe County	13	44.6
York County	5	7.4
Subtotal (in-state)	841	10.0
Out of State	29	ND
Unknown	9	ND
Subtotal (out-of-state)	38	ND
TOTAL	879	10.5

Note: No denominator is represented by ND

Map 4.3 Number of Motor Vehicle Fatalities by Locality of Injury, 2015



Map 4.4 Rate of Motor Vehicle Fatalities by Locality of Injury, 2015



SECTION 5: DRUG/POISON DEATHS (N=1,028)

TOTAL DRUG/POISON DEATHS (N=1,028)

The number of drug/poisoning deaths in 2015 increased by 3.4% compared to 2014.

- The 2015 rate of drug/poison deaths that occurred in Virginia was 12.3 per 100,000 persons
- The majority were accidents (86.6%), male (64.0%), whites (80.6%), and 25-34 year olds (26.6%)
- In 2015, there were larger numbers of drug/poison deaths in the more urban OCME regions (Central, Northern, and Tidewater) compared to the rural Western OCME region of the state. Prior to 2013, the Western OCME managed about 1/3 of all drug deaths in the state which were mostly due to opioid prescription drugs, but in 2015, roughly 1/5 of all drug deaths occurred in the Western OCME region.

Figure 5.1 Number and Rate of Fatal Drug/Poison Overdoses by Year of Death, 1999-2015

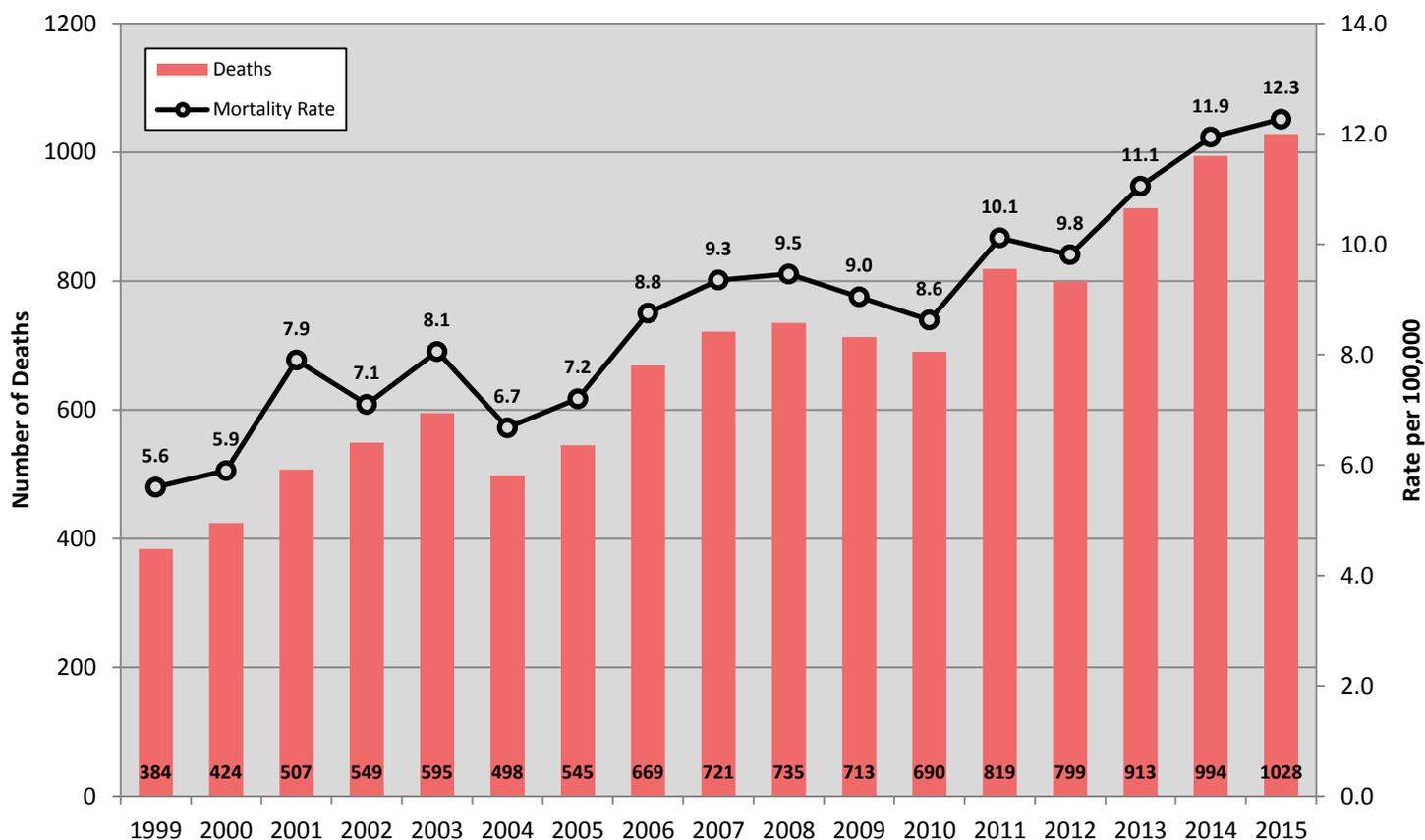


Table 5.1 Number and Percentage of Fatal Drug/Poison Overdoses by OCME District, 2015

OCME District	OCME Cases	Percentage
Central	293	28.5%
Northern	261	25.4%
Tidewater	254	24.7%
Western	220	21.4%
TOTAL	1028	100.0%

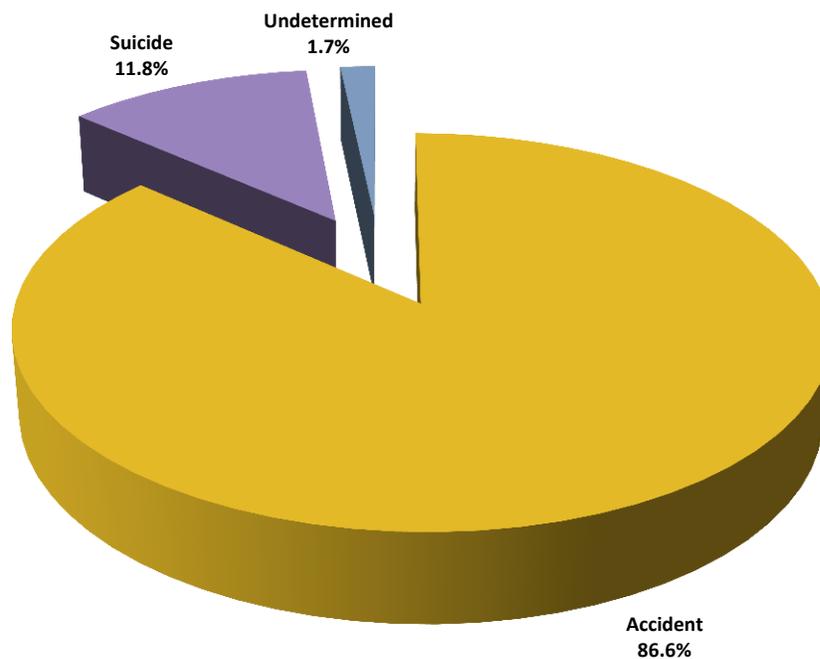
Figure 5.2 Percentage of Fatal Drug/Poison Overdoses by Manner of Death, 2015

Figure 5.3 Number and Rate of Fatal Drug/Poison Overdoses by Age Group and Gender, 2015

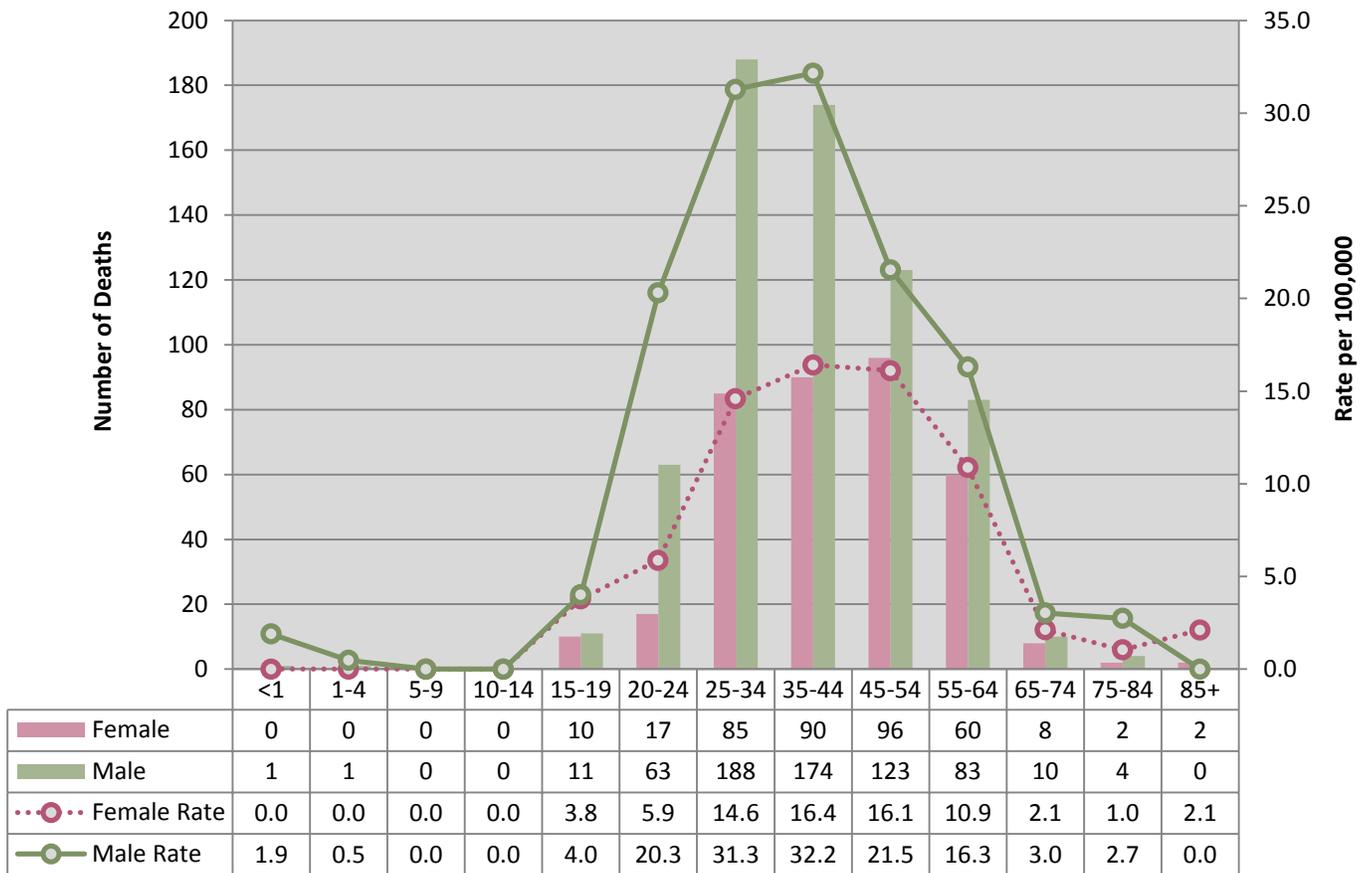


Table 5.2 Number of Fatal Drug/Poison Overdoses by Age Group and Manner of Death, 2015

Age Group (years)	Accident	Suicide	Undetermined	Total
<1	1	0	0	1
1-4	1	0	0	1
5-9	0	0	0	0
10-14	0	0	0	0
15-19	18	2	1	21
20-24	78	2	0	80
25-34	251	17	5	273
35-44	242	19	3	264
45-54	175	39	5	219
55-64	109	33	1	143
65-74	11	5	2	18
75-84	4	2	0	6
85+	0	2	0	2
Total	890	121	17	1028

Figure 5.4 Percentage of Fatal Drug/Poison Overdoses by Race/Ethnicity, 2015

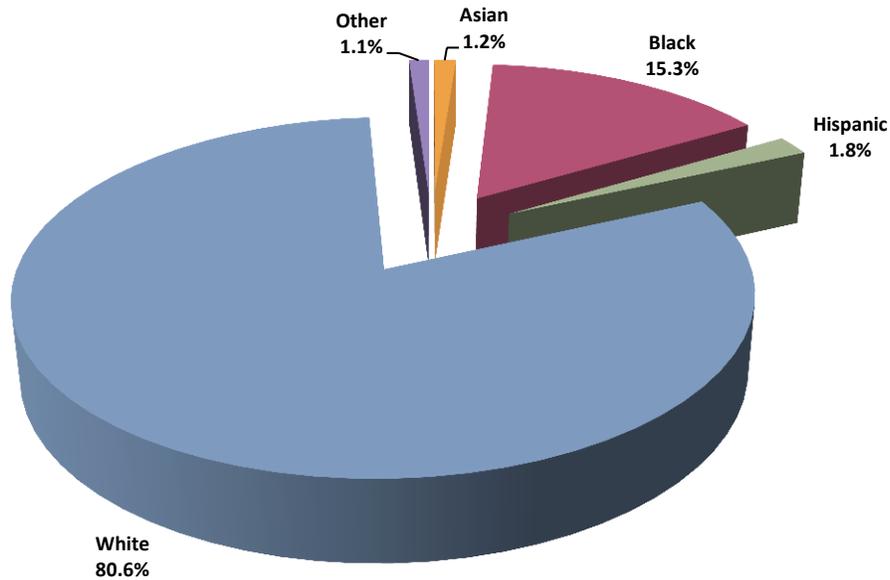
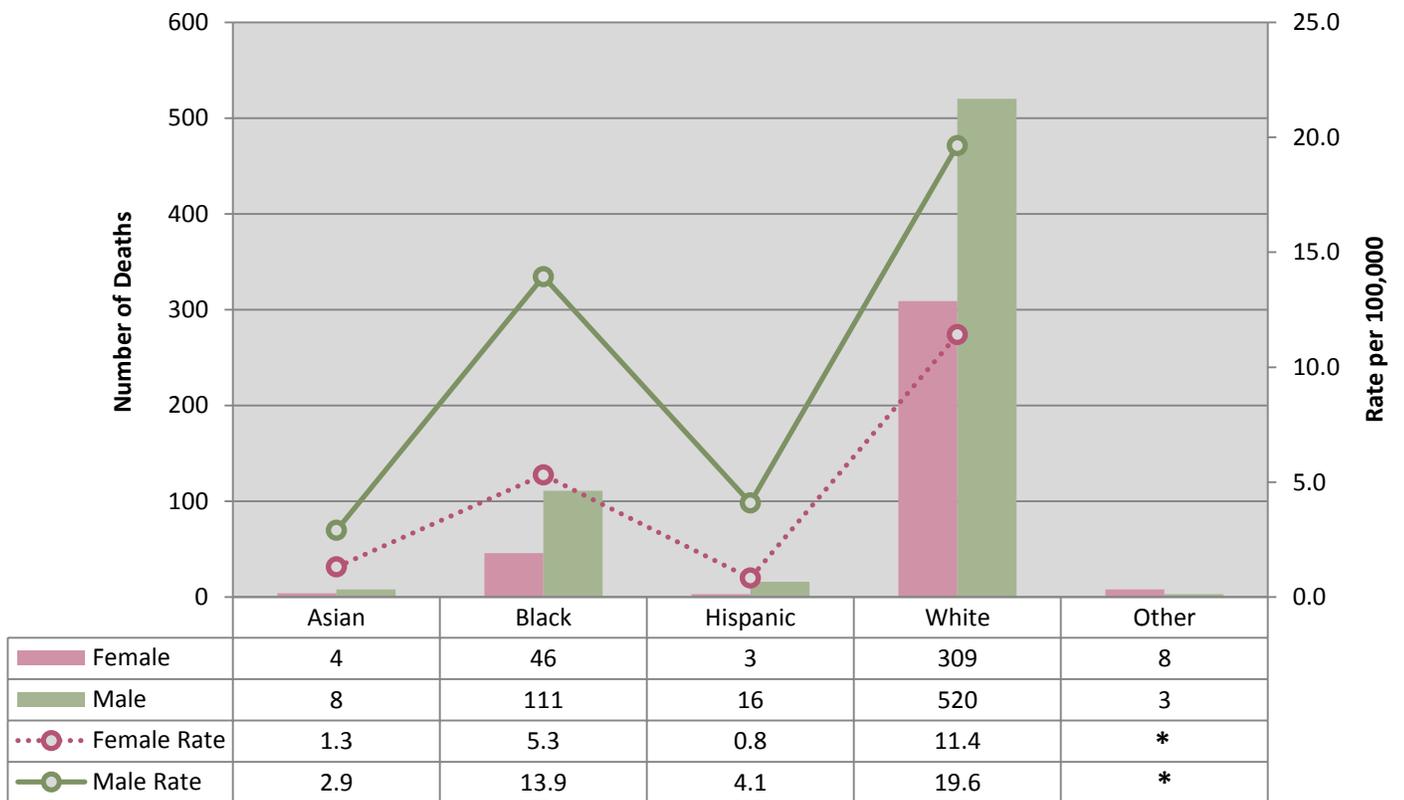


Figure 5.5 Number and Rate of Fatal Drug/Poison Overdoses by Race/Ethnicity and Gender, 2015



*No rate can be calculated

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

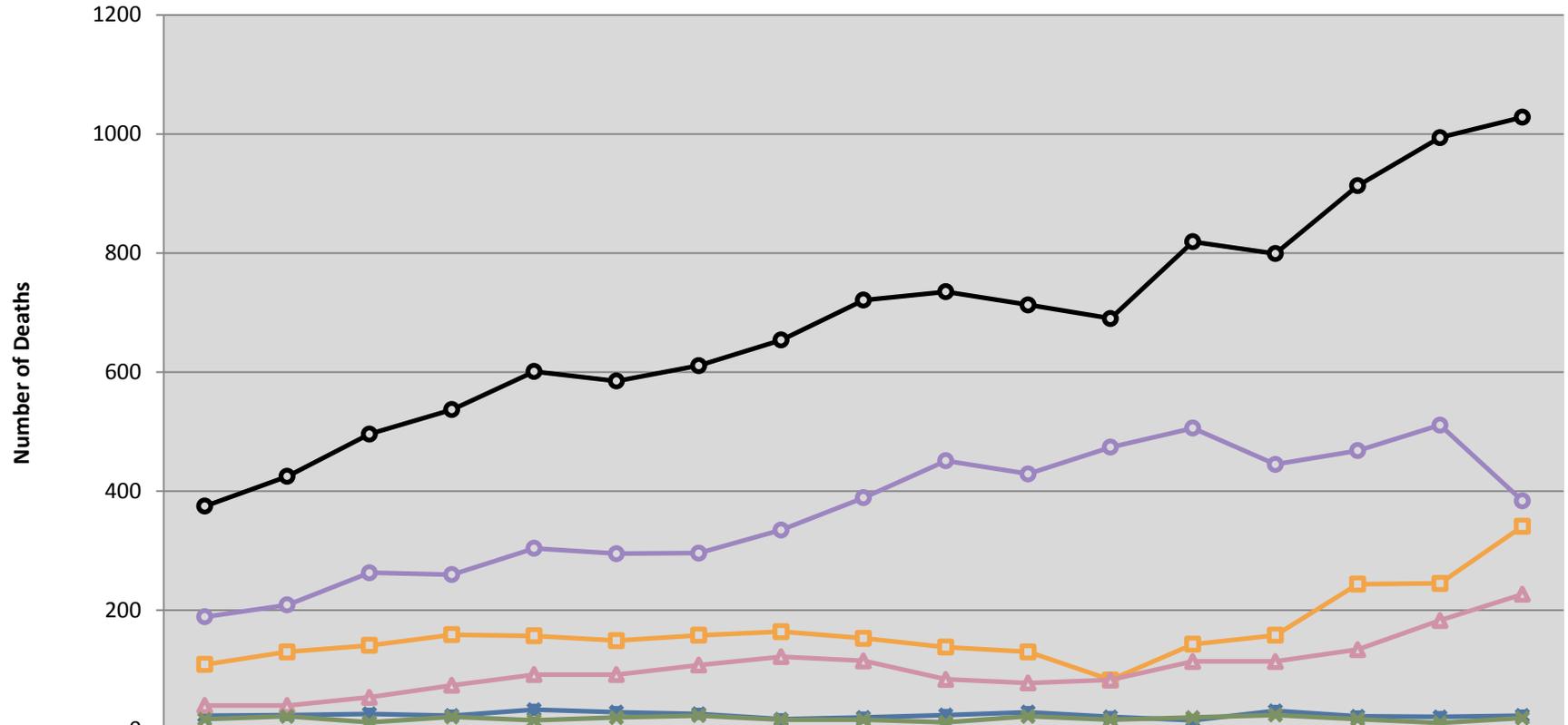
Table 5.3 Number of Fatal Drug/Poison Overdoses by OCME District and Cause of Death, 2015

Cause of Death	Central	Northern	Tidewater	Western	Total
Prescription drug poisoning	90	86	84	124	384
Illegal (street) drug poisoning	130	82	80	49	341
Mixed drug category	46	79	69	33	227
Ethanol poisoning	12	5	1	5	23
Drug type not specified	8	1	12	1	22
OTC poisoning	7	3	4	5	19
Other poisons (heavy metals, etc.)	0	3	1	2	6
Inhalant poisoning	0	2	2	1	5
Ethylene glycol poisoning	0	0	1	0	1
Total	293	261	254	220	1028

Table 5.4 Number of Fatal Drug/Poison Overdoses Manner and Cause of Death, 2015

Cause of Death	Accident	Suicide	Undetermined	Total
Prescription drug poisoning	285	87	12	384
Illegal (street) drug poisoning	337	2	2	341
Mixed drug category	211	16	0	227
Ethanol poisoning	23	0	0	23
Drug type not specified	19	2	1	22
OTC poisoning	10	9	0	19
Other poisons (heavy metals, etc.)	0	4	2	6
Inhalant poisoning	5	0	0	5
Ethylene glycol poisoning	0	1	0	1
Total	890	121	17	1028

Figure 5.6 Number of Fatal Drug/Poison Overdoses by Drug Category and Year of Death, 1999-2015



	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
—■— Ethanol	23	24	26	23	33	29	26	17	20	24	29	21	15	31	22	21	23
—■— Illegal	109	130	141	159	157	149	158	164	153	138	130	83	143	158	244	245	341
—▲— Mixed	40	40	54	74	92	92	108	122	115	84	78	83	114	114	134	183	227
—×— OTC	17	22	12	21	15	20	23	16	16	12	22	16	20	24	17	11	19
—○— Prescription	189	209	263	260	304	295	296	335	389	451	429	474	506	445	468	511	384
—○— All Drug Deaths	375	425	496	537	601	585	611	654	721	735	713	690	819	799	913	994	1028

*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, 2015

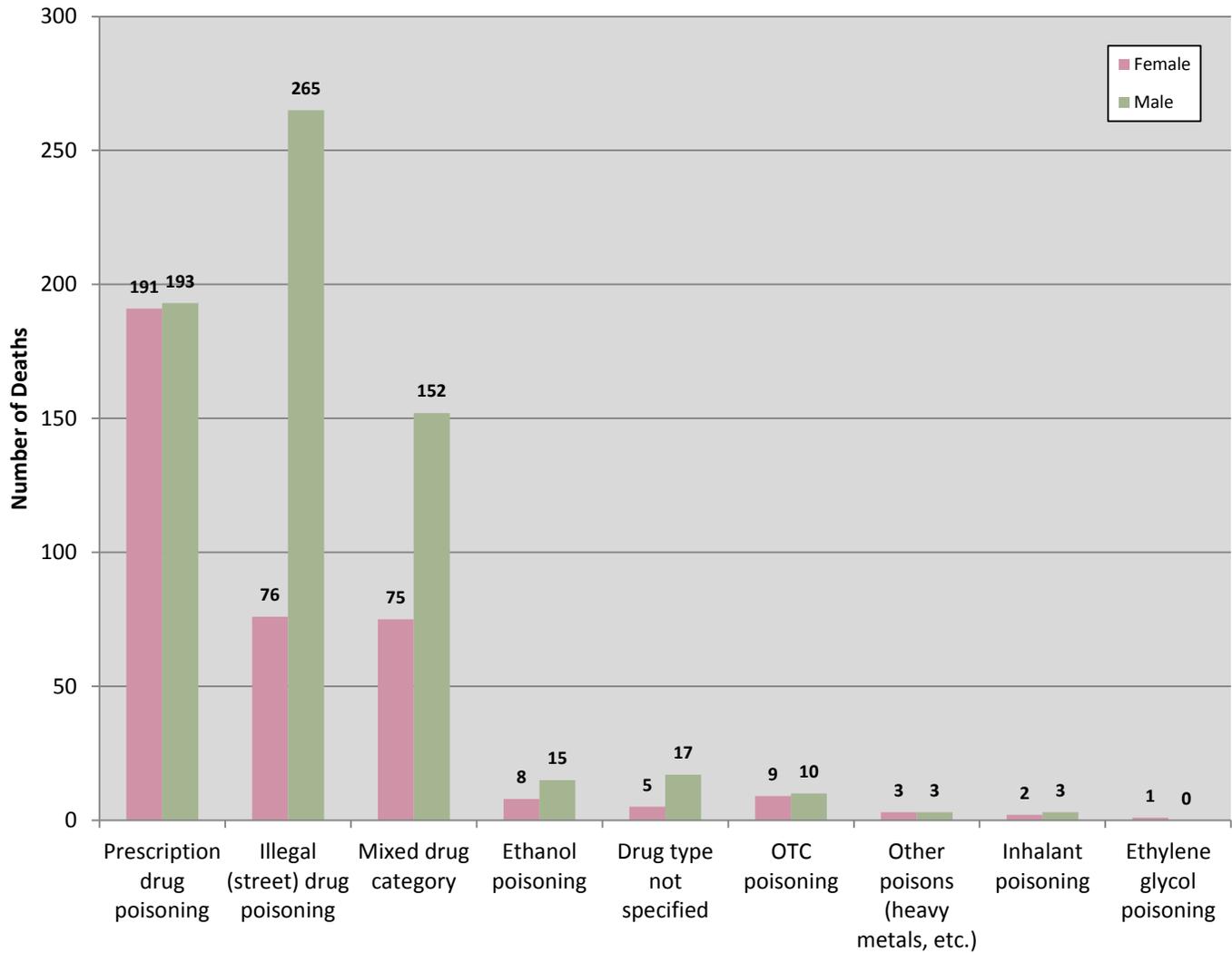
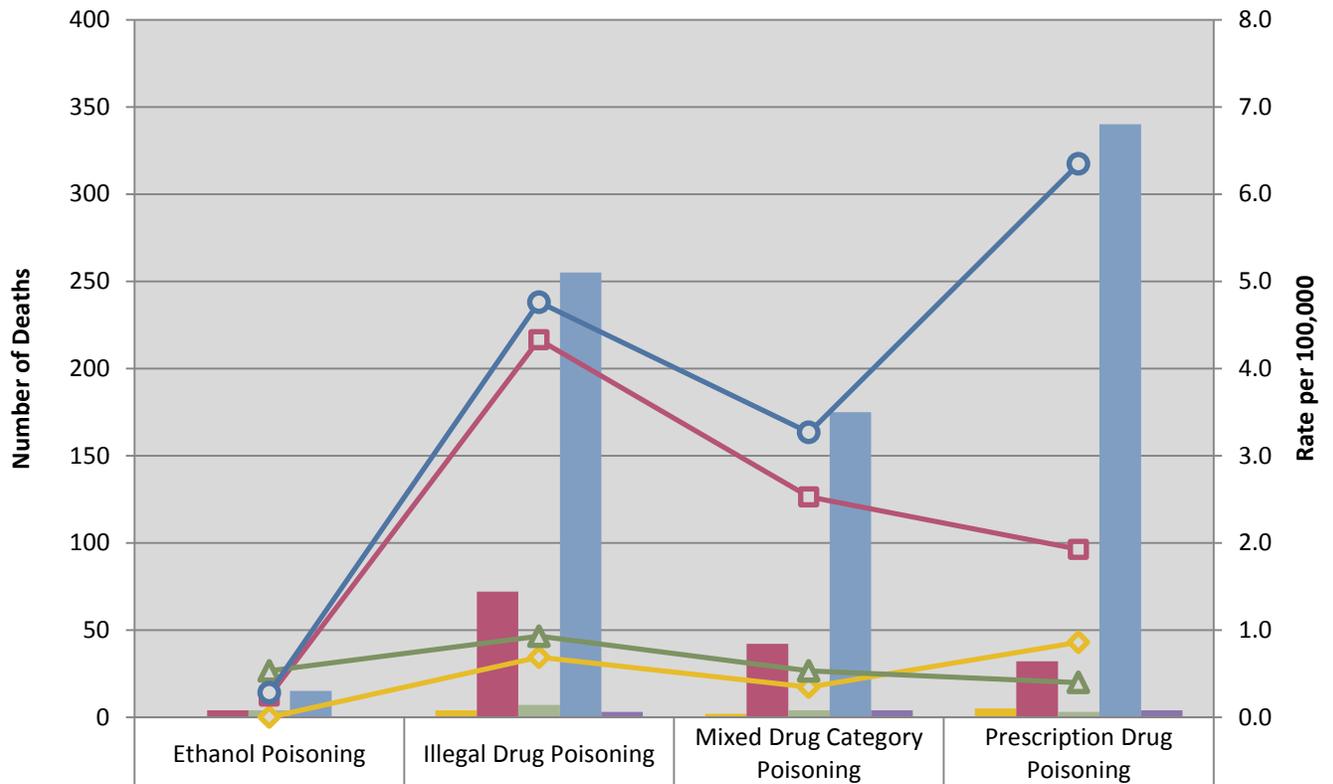
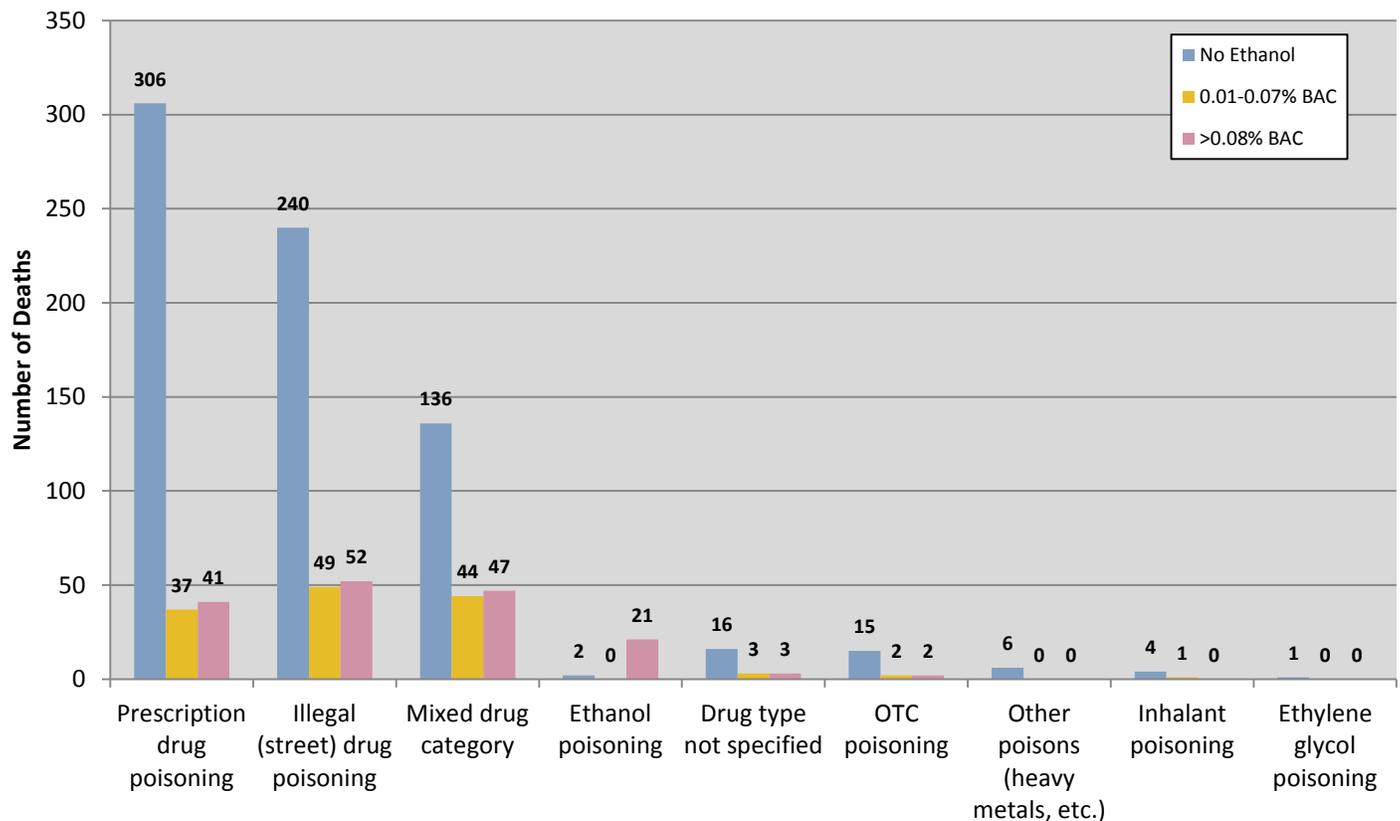


Figure 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Drug Category and Race/Ethnicity, 2015



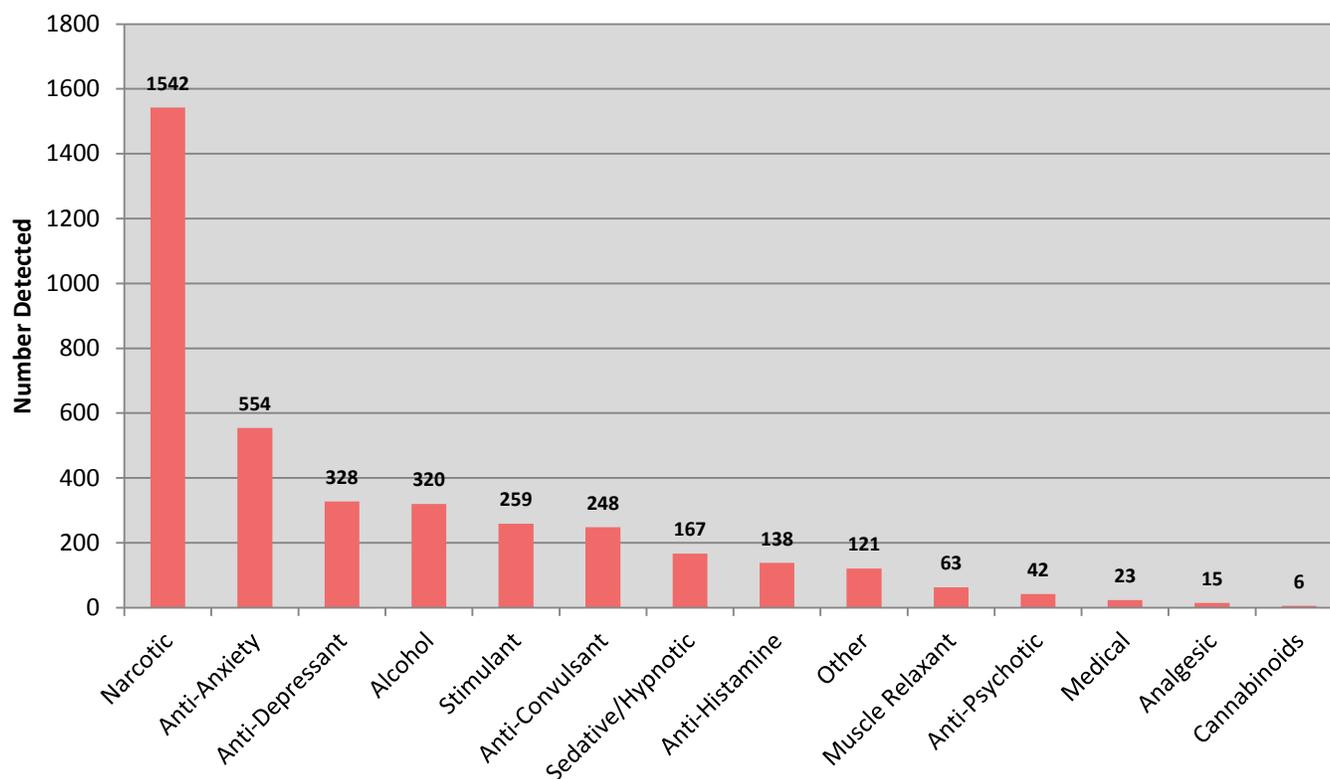
	Ethanol Poisoning	Illegal Drug Poisoning	Mixed Drug Category Poisoning	Prescription Drug Poisoning
Asian	0	4	2	5
Black	4	72	42	32
Hispanic	4	7	4	3
White	15	255	175	340
Other	0	3	4	4
Asian Rate	0.0	0.7	0.3	0.9
Black Rate	0.2	4.3	2.5	1.9
Hispanic Rate	0.5	0.9	0.5	0.4
White Rate	0.3	4.8	3.3	6.3

Figure 5.9 Number of Fatal Drug/Poison Overdoses by Drug Category and Ethanol Level, 2015

*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, 2015

Cause of Death	Caused Death	Contributed to Death	Did Not Cause Death	Total
Prescription drug poisoning	43	10	331	384
Illegal (street) drug poisoning	44	19	278	341
Mixed drug category	67	5	155	227
Ethanol poisoning	19	0	4	23
Drug type not specified	4	0	18	22
OTC poisoning	1	2	16	19
Other poisons (heavy metals, etc.)	0	0	6	6
Inhalant poisoning	0	0	5	5
Ethylene glycol poisoning	0	0	1	1
Total	178	36	814	1028

Figure 5.10 Number of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolites Detected, 2015**Table 5.6 Number and Percentage of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolite Detected, 2015**

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Alcohol			8.4%
	Acetone	5	0.1%
	Ethanol	302	7.9%
	Isopropanol	10	0.3%
	Methanol	3	0.1%
Analgesic			0.4%
	Acetaminophen	6	0.2%
	Ketamine	5	0.1%
	Naproxen	1	0.0%
	Pseudoephedrine	1	0.0%
	Tapentadol	2	0.1%
Anti-Anxiety			14.5%
	Alprazolam	230	6.0%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Buspirone	6	0.2%
	Chlordiazepoxide	8	0.2%
	Diazepam	101	2.6%
	Etizolam	5	0.1%
	Flurazepam	1	0.0%
	Lorazepam	26	0.7%
	Meprobamate	11	0.3%
	Nordiazepam (Diazepam Metabolite)	114	3.0%
	Oxazepam	52	1.4%
Anti-Convulsant			6.5%
	Carbamazepine	5	0.1%
	Clonazepam	132	3.5%
	Gabapentin	59	1.5%
	Lamotrigine	12	0.3%
	Levetiracetam	3	0.1%
	Midazolam	13	0.3%
	Oxcarbazepine	1	0.0%
	Pentobarbital	2	0.1%
	Phenobarbital	4	0.1%
	Phenytoin	1	0.0%
	Topiramate	13	0.3%
	Valproic Acid	3	0.1%
Anti-Depressant			8.6%
	Amitriptyline	34	0.9%
	Bupropion	23	0.6%
	Citalopram	64	1.7%
	Desipramine	1	0.0%
	Doxepin	6	0.2%
	Duloxetine	1	0.0%
	Fluoxetine	36	0.9%
	Fluvoxamine	2	0.1%
	Imipramine	1	0.0%
	Mirtazapine	14	0.4%
	Nortriptyline	38	1.0%
	Paroxetine	19	0.5%
	Sertraline	26	0.7%
	Trazodone	49	1.3%
	Venlafaxine	14	0.4%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Anti-Histamine			3.6%
	Brompheniramine	1	0.0%
	Chlorpheniramine	13	0.3%
	Diphenhydramine	95	2.5%
	Doxylamine	19	0.5%
	Meclizine	8	0.2%
	Orphenadrine	2	0.1%
Anti-Psychotic			1.1%
	Chlorpromazine	3	0.1%
	Clozapine	1	0.0%
	Hydroxizine	6	0.2%
	Olanzapine	7	0.2%
	Quetiapine	25	0.7%
Cannabinoids			0.2%
	Tetrahydrocannabinol Carboxylic Acid (THC)	6	0.2%
Medical			0.6%
	Amlodipine	1	0.0%
	Benzotropine	2	0.1%
	Diltiazem	2	0.1%
	Flecainide	1	0.0%
	Glimepiride	1	0.0%
	Loperamide	3	0.1%
	Metformin	1	0.0%
	Metoclopramide	3	0.1%
	Metoprolol	2	0.1%
	Ondansetron	3	0.1%
	Quinine	1	0.0%
	Verapamil	3	0.1%
Muscle Relaxant			1.6%
	Carisoprodol	10	0.3%
	Cyclobenzaprine	51	1.3%
	Metaxalone	1	0.0%
	Methocarbamol	1	0.0%
Narcotic			40.3%
	6-Acetylmorphine (Heroin Metabolite)	243	6.4%
	Acetyl Fentanyl	31	0.8%
	Buprenorphine	9	0.2%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Bupivacaine	1	0.0%
	Butyryl Fentanyl	4	0.1%
	Codeine	147	3.8%
	Fentanyl	208	5.4%
	Hydrocodone	63	1.6%
	Hydromorphone	39	1.0%
	Methadone	68	1.8%
	Mitragynine	1	0.0%
	Morphine	406	10.6%
	Norbuprenorphine	8	0.2%
	Oxycodone	186	4.9%
	Oxymorphone	77	2.0%
	Tramadol	50	1.3%
	U-47700	1	0.0%
Other			3.2%
	1,1-Difluoroethane	1	0.0%
	25C-NBOMe / 25H-NBOMe	2	0.1%
	3-Methoxphcyclidine	1	0.0%
	ADB-Fubinaca	1	0.0%
	alpha-Pyrrolidinopentiophenone	2	0.1%
	Bromethalin	1	0.0%
	Canrenone	1	0.0%
	Carboxyhemoglobin	4	0.1%
	Cyanide	1	0.0%
	Dextromethorphan	37	1.0%
	Dicyclomine	3	0.1%
	Difluoroethane	8	0.2%
	Ephedrine/Pseudoephedrine	4	0.1%
	Ethylone	3	0.1%
	Ethylphenidate	1	0.0%
	Levamisole/Tetramisole	26	0.7%
	Lidocaine	18	0.5%
	MAB-CHMINACA	1	0.0%
	Naloxone	1	0.0%
	Nordoxepin	1	0.0%
	Prochlorperazine	1	0.0%
	Propranolol	2	0.1%
	Salicylic Acid	1	0.0%
Sedative/Hypnotic			4.4%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	7-Aminoflunitrazepam	1	0.0%
	Butalbital	9	0.2%
	Promethazine	47	1.2%
	Temazepam	63	1.6%
	Zaleplon	1	0.0%
	Zolpidem	41	1.1%
	Zopiclone	5	0.1%
Stimulant			6.8%
	Amphetamine	46	1.2%
	Caffeine	1	0.0%
	Cocaethylene	47	1.2%
	Cocaine	121	3.2%
	MDMA/MDA/M DFA (Mixed Compounds)	9	0.2%
	Methamphetamine	29	0.8%
	Methyphenidate	1	0.0%
	Phencyclidine	4	0.1%
	Phentermine	1	0.0%
TOTAL DRUG/POISON/ACTIVE METABOLITES DETECTED		3826	100.0%

Figure 5.11 Number of Fatal Drug/Poison Overdoses by Class of Drug/Poison/Metabolite Detected that Caused or Contributed to Death, 2015

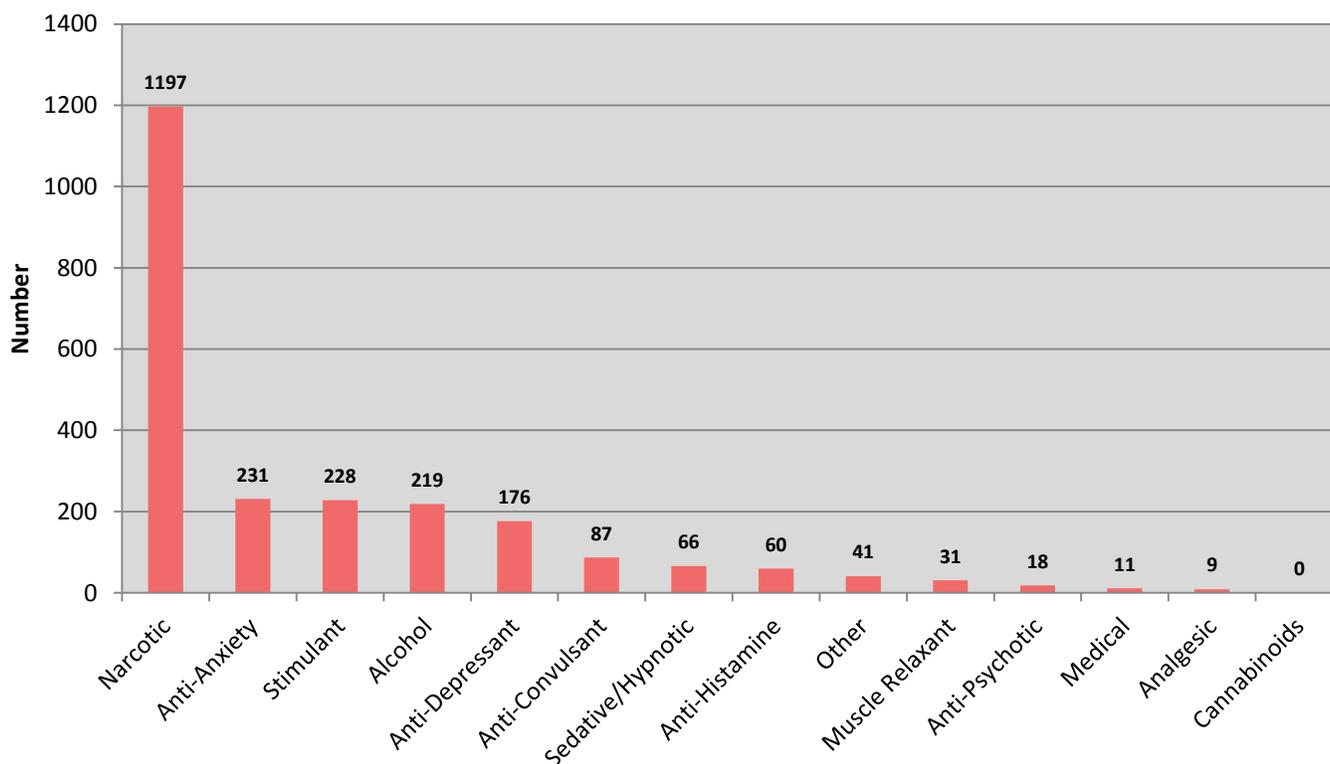


Table 5.7 Number of Fatal Drug/Poison Deaths by Drug/Poison/Metabolites Detected that Caused or Contributed to Death, 2015

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Alcohol			9.2%
	Acetone	3	0.1%
	Ethanol	214	9.0%
	Isopropanol	1	0.0%
	Methanol	1	0.0%
Analgesic			0.4%
	Acetaminophen	3	0.1%
	Ketamine	2	0.1%
	Naproxen	1	0.0%
	Pseudoephedrine	1	0.0%
	Tapentadol	2	0.1%
Anti-Anxiety			9.7%
	Alprazolam	127	5.3%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Buspirone	3	0.1%
	Chlordiazepoxide	2	0.1%
	Diazepam	43	1.8%
	Etizolam	2	0.1%
	Flurazepam	0	0.0%
	Lorazepam	13	0.5%
	Meprobamate	3	0.1%
	Nordiazepam (Diazepam Metabolite)	27	1.1%
	Oxazepam	11	0.5%
Anti-Convulsant			3.7%
	Carbamazepine	2	0.1%
	Clonazepam	25	1.1%
	Gabapentin	43	1.8%
	Lamotrigine	5	0.2%
	Levetiracetam	0	0.0%
	Midazolam	0	0.0%
	Oxcarbazepine	1	0.0%
	Pentobarbital	2	0.1%
	Phenobarbital	2	0.1%
	Phenytoin	0	0.0%
	Topiramate	7	0.3%
	Valproic Acid	0	0.0%
Anti-Depressant			7.4%
	Amitriptyline	23	1.0%
	Bupropion	18	0.8%
	Citalopram	30	1.3%
	Desipramine	0	0.0%
	Doxepin	5	0.2%
	Duloxetine	1	0.0%
	Fluoxetine	21	0.9%
	Fluvoxamine	2	0.1%
	Imipramine	0	0.0%
	Mirtazapine	9	0.4%
	Nortriptyline	20	0.8%
	Paroxetine	10	0.4%
	Sertraline	9	0.4%
	Trazodone	19	0.8%
	Venlafaxine	9	0.4%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Anti-Histamine			2.5%
	Brompheniramine	1	0.0%
	Chlorpheniramine	4	0.2%
	Diphenhydramine	48	2.0%
	Doxylamine	5	0.2%
	Meclizine	2	0.1%
	Orphenadrine	0	0.0%
Anti-Psychotic			0.8%
	Chlorpromazine	1	0.0%
	Clozapine	1	0.0%
	Hydroxizine	3	0.1%
	Olanzapine	4	0.2%
	Quetiapine	9	0.4%
Cannabinoids			0.0%
	Tetrahydrocannabinol Carboxylic Acid (THC)	0	0.0%
Medical			0.5%
	Amlodipine	1	0.0%
	Benztrapine	1	0.0%
	Diltiazem	0	0.0%
	Flecainide	1	0.0%
	Glimepiride	1	0.0%
	Loperamide	3	0.1%
	Metformin	1	0.0%
	Metoclopramide	0	0.0%
	Metoprolol	2	0.1%
	Ondansetron	0	0.0%
	Quinine	0	0.0%
	Verapamil	1	0.0%
Muscle Relaxant			1.3%
	Carisoprodol	3	0.1%
	Cyclobenzaprine	26	1.1%
	Metaxalone	1	0.0%
	Methocarbamol	1	0.0%
Narcotic			50.4%
	6-Acetylmorphine (Heroin Metabolite)	176	7.4%
	Acetyl Fentanyl	30	1.3%
	Buprenorphine	5	0.2%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Bupivacaine	0	0.0%
	Butyryl Fentanyl	3	0.1%
	Codeine	28	1.2%
	Fentanyl	198	8.3%
	Hydrocodone	48	2.0%
	Hydromorphone	30	1.3%
	Methadone	64	2.7%
	Mitragynine	0	0.0%
	Morphine	373	15.7%
	Norbuprenorphine	5	0.2%
	Oxycodone	149	6.3%
	Oxymorphone	50	2.1%
	Tramadol	37	1.6%
	U-47700	1	0.0%
Other			1.7%
	1,1-Difluoroethane	0	0.0%
	25C-NBOMe / 25H-NBOMe	2	0.1%
	3-Methoxyphencyclidine	1	0.0%
	ADB-Fubinaca	1	0.0%
	alpha-Pyrrolidinopentiophenone	2	0.1%
	Bromethalin	1	0.0%
	Canrenone	1	0.0%
	Carboxyhemoglobin	0	0.0%
	Cyanide	1	0.0%
	Dextromethorphan	16	0.7%
	Dicyclomine	0	0.0%
	Difluoroethane	8	0.3%
	Ephedrine/Pseudoephedrine	1	0.0%
	Ethylone	1	0.0%
	Ethylphenidate	1	0.0%
	Levamisole/Tetramisole	1	0.0%
	Lidocaine	1	0.0%
	MAB-CHMINACA	0	0.0%
	Naloxone	0	0.0%
	Nordoxepin	1	0.0%
	Prochlorperazine	0	0.0%
	Propranolol	1	0.0%
	Salicylic Acid	1	0.0%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Sedative/Hypnotic			2.8%
	7-Aminoflunitrazepam	0	0.0%
	Butalbital	5	0.2%
	Promethazine	20	0.8%
	Temazepam	15	0.6%
	Zaleplon	0	0.0%
	Zolpidem	21	0.9%
	Zopiclone	5	0.2%
Stimulant			9.6%
	Amphetamine	35	1.5%
	Caffeine	0	0.0%
	Cocaethylene	45	1.9%
	Cocaine	112	4.7%
	MDMA/MDA/MDFA (Mixed Compounds)	5	0.2%
	Methamphetamine	27	1.1%
	Methyphenidate	0	0.0%
	Phencyclidine	4	0.2%
	Phentermine	0	0.0%
TOTAL DRUG/POISON/ACTIVE METABOLITES DETECTED		2374	100.0%

Table 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Residence, 2015

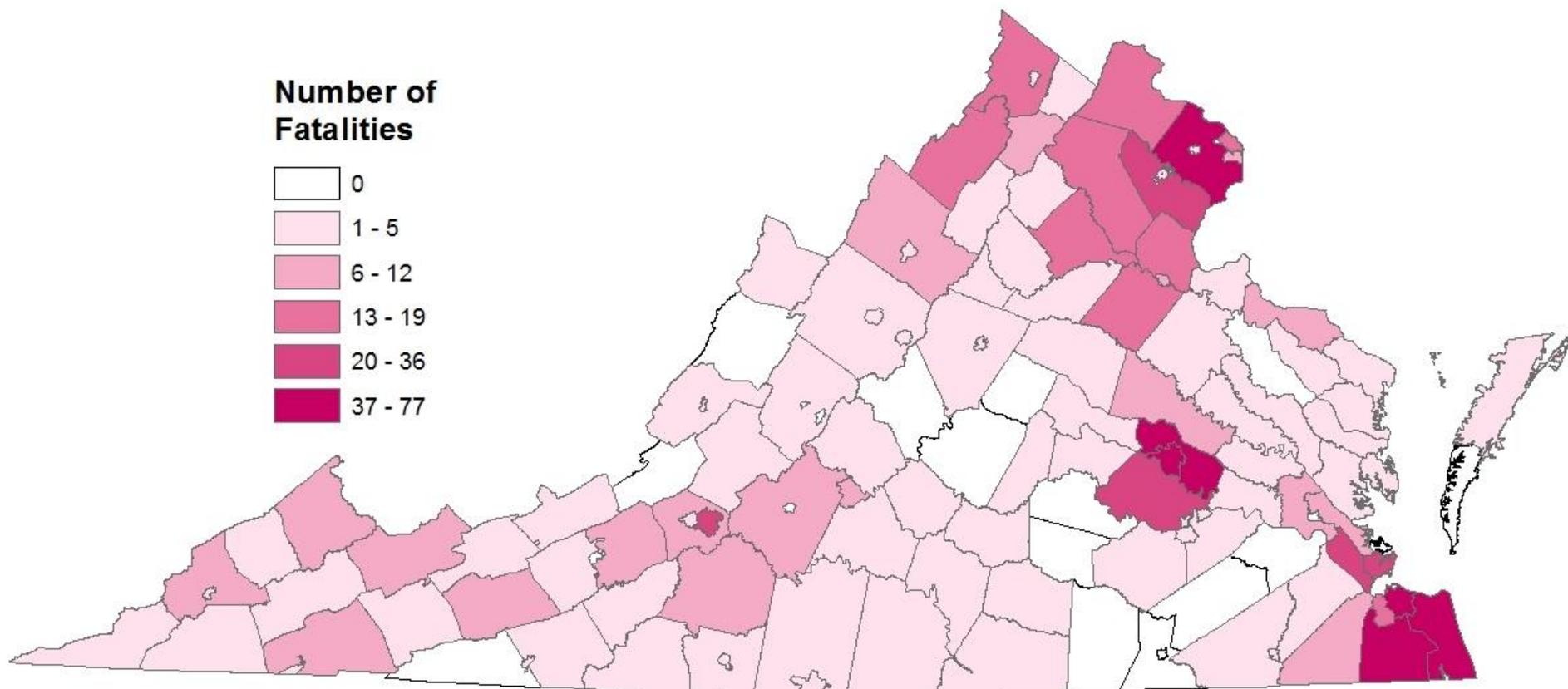
Locality of Residence	Deaths	Rate	Locality of Residence	Deaths	Rate
Accomack County	3	9.1	Fairfax City	4	16.7
Albemarle County	5	4.7	Fairfax County	77	6.7
Alexandria City	11	7.2	Falls Church City	0	0.0
Alleghany County	2	12.8	Fauquier County	16	23.3
Amelia County	0	0.0	Floyd County	1	6.4
Amherst County	1	3.1	Fluvanna County	0	0.0
Appomattox County	2	13.0	Franklin City	1	11.8
Arlington County	15	6.5	Franklin County	6	10.7
Augusta County	3	4.0	Frederick County	19	22.8
Bath County	0	0.0	Fredericksburg City	7	24.9
Bedford County	8	10.3	Galax City	2	28.9
Bland County	2	30.5	Giles County	4	23.9
Botetourt County	4	12.0	Gloucester County	5	13.5
Bristol City	1	5.8	Goochland County	2	9.0
Brunswick County	0	0.0	Grayson County	0	0.0
Buchanan County	10	43.9	Greene County	2	10.4
Buckingham County	0	0.0	Greensville County	0	0.0
Buena Vista City	0	0.0	Halifax County	3	8.5
Campbell County	4	7.3	Hampton City	24	17.6
Caroline County	4	13.3	Hanover County	11	10.7
Carroll County	3	10.1	Harrisonburg City	2	3.8
Charles City County	1	14.2	Henrico County	44	13.5
Charlotte County	1	8.2	Henry County	5	9.6
Charlottesville City	4	8.6	Highland County	1	45.2
Chesapeake City	42	17.8	Hopewell City	2	8.9
Chesterfield County	36	10.7	Isle of Wight County	4	11.0
Clarke County	2	13.9	James City County	8	10.9
Colonial Heights City	2	11.2	King and Queen County	1	14.0
Covington City	1	17.7	King George County	5	19.6
Craig County	0	0.0	King William County	3	18.4
Culpeper County	14	28.3	Lancaster County	1	9.1
Cumberland County	2	20.6	Lee County	2	8.1
Danville City	4	9.5	Lexington City	0	0.0
Dickenson County	5	33.1	Loudoun County	16	4.3
Dinwiddie County	3	10.8	Louisa County	5	14.5
Emporia City	0	0.0	Lunenburg County	1	8.1
Essex County	0	0.0	Lynchburg City	6	7.5

Locality of Residence	Deaths	Rate
Madison County	2	15.2
Manassas City	3	7.2
Manassas Park City	0	0.0
Martinsville City	3	22.0
Mathews County	3	33.9
Mecklenburg County	4	12.9
Middlesex County	1	9.4
Montgomery County	7	7.2
Nelson County	0	0.0
New Kent County	3	14.7
Newport News City	23	12.6
Norfolk City	46	18.7
Northampton County	0	0.0
Northumberland County	1	8.2
Norton City	1	25.4
Nottoway County	0	0.0
Orange County	4	11.3
Page County	3	12.6
Patrick County	5	27.7
Petersburg City	5	15.4
Pittsylvania County	5	8.0
Poquoson City	0	0.0
Portsmouth City	18	18.7
Powhatan County	2	7.1
Prince Edward County	3	13.1
Prince George County	2	5.3
Prince William County	32	7.1
Pulaski County	5	14.6
Radford City	0	0.0
Rappahannock County	2	27.1
Richmond City	50	22.7
Richmond County	2	22.5
Roanoke City	25	25.0
Roanoke County	7	7.4
Rockbridge County	4	17.9
Rockingham County	7	8.9
Russell County	5	17.9
Salem City	3	11.8
Scott County	1	4.5

Locality of Residence	Deaths	Rate
Shenandoah County	13	30.1
Smyth County	5	15.9
Southampton County	1	5.5
Spotsylvania County	19	14.6
Stafford County	16	11.3
Staunton City	4	16.4
Suffolk City	9	10.2
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	12	28.0
Virginia Beach City	61	13.5
Warren County	11	28.1
Washington County	8	14.7
Waynesboro City	5	23.3
Westmoreland County	6	34.0
Williamsburg City	0	0.0
Winchester City	5	18.3
Wise County	11	27.7
Wythe County	7	24.0
York County	8	11.8
<i>Subtotal (in-state)</i>	973	11.6
Out of State	50	ND
Unknown	5	ND
<i>Subtotal (out-of-state)</i>	55	ND
TOTAL	1028	12.3

Note: No denominator is represented by ND

Map 5.1 Number of Fatal Drug/Poison Overdoses by Locality of Residence, 2015



Map 5.2 Rates of Fatal Drug/Poison Overdoses by Locality of Residence, 2015

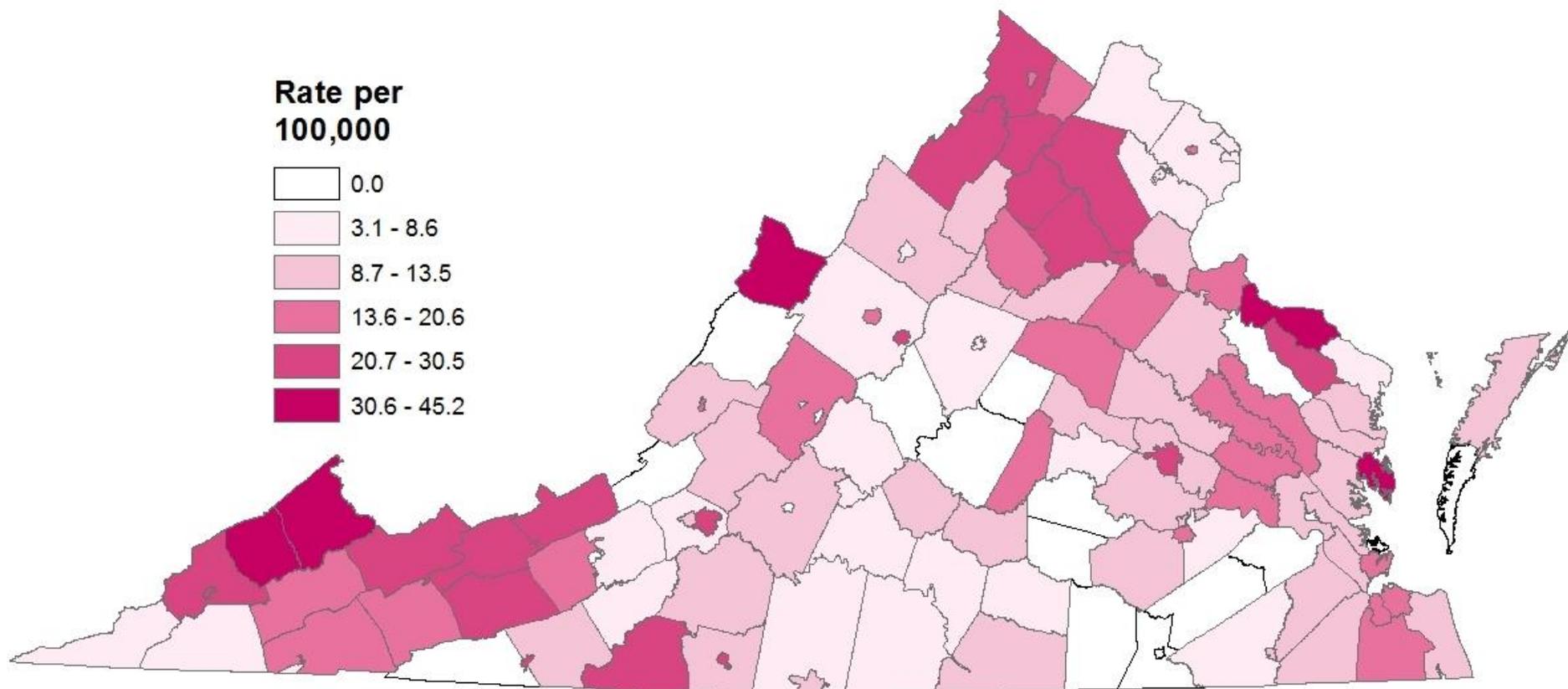


Table 5.9 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Injury, 2015

Locality of Injury	Deaths	Rate
Accomack County	3	9.1
Albemarle County	3	2.8
Alexandria City	10	6.5
Alleghany County	2	12.8
Amelia County	0	0.0
Amherst County	2	6.3
Appomattox County	2	13.0
Arlington County	15	6.5
Augusta County	3	4.0
Bath County	0	0.0
Bedford County	5	6.4
Bland County	1	15.2
Botetourt County	4	12.0
Bristol City	2	11.7
Brunswick County	0	0.0
Buchanan County	9	39.5
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	5	9.1
Caroline County	2	6.7
Carroll County	2	6.7
Charles City County	1	14.2
Charlotte County	0	0.0
Charlottesville City	7	15.0
Chesapeake City	43	18.3
Chesterfield County	37	11.0
Clarke County	2	13.9
Colonial Heights City	2	11.2
Covington City	1	17.7
Craig County	0	0.0
Culpeper County	11	22.3
Cumberland County	2	20.6
Danville City	2	4.8
Dickenson County	7	46.3
Dinwiddie County	2	7.2
Emporia City	0	0.0
Essex County	0	0.0

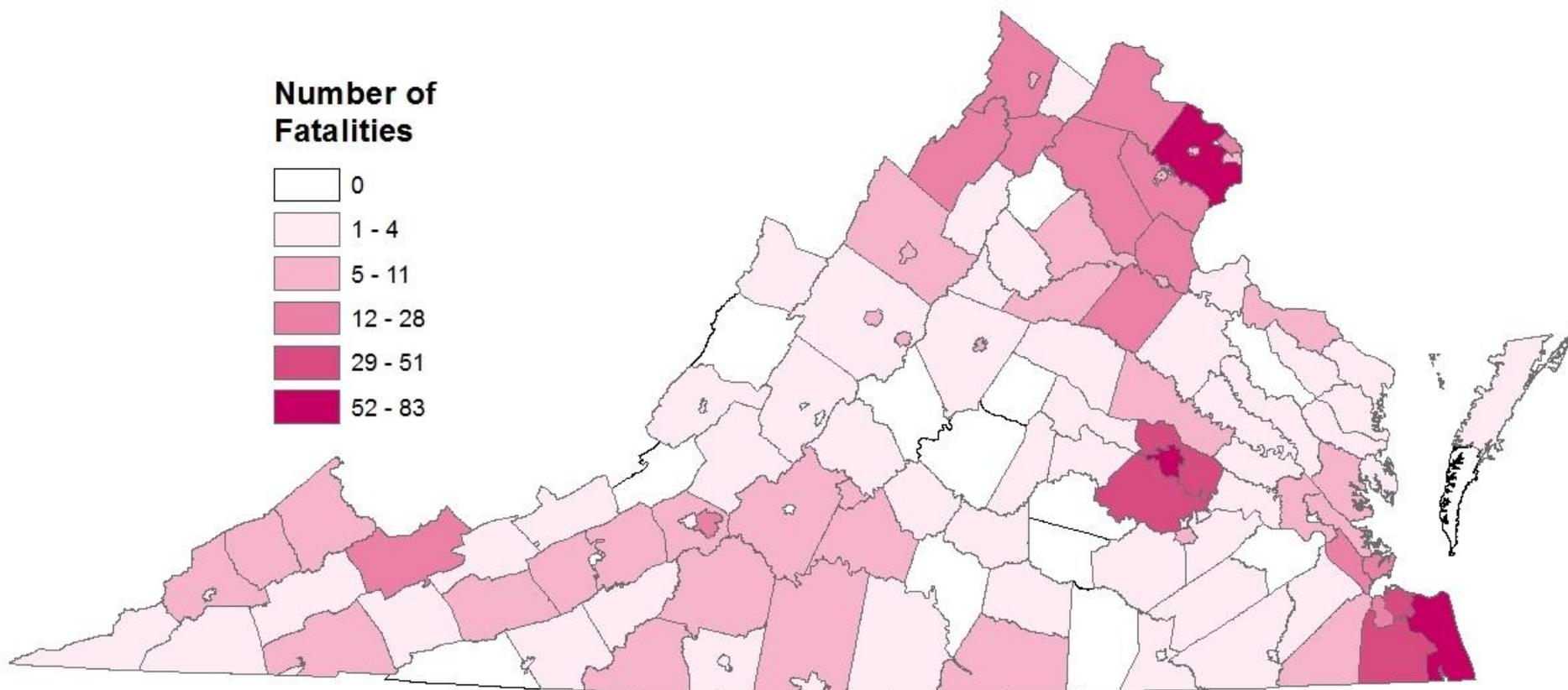
Locality of Injury	Deaths	Rate
Fairfax City	6	25.0
Fairfax County	83	7.3
Falls Church City	0	0.0
Fauquier County	16	23.3
Floyd County	1	6.4
Fluvanna County	0	0.0
Franklin City	1	11.8
Franklin County	5	8.9
Frederick County	13	15.6
Fredericksburg City	8	28.5
Galax City	2	28.9
Giles County	3	18.0
Gloucester County	6	16.2
Goochland County	2	9.0
Grayson County	0	0.0
Greene County	2	10.4
Greensville County	1	8.4
Halifax County	3	8.5
Hampton City	18	13.2
Hanover County	9	8.7
Harrisonburg City	5	9.5
Henrico County	42	12.9
Henry County	3	5.8
Highland County	1	45.2
Hopewell City	2	8.9
Isle of Wight County	3	8.3
James City County	6	8.2
King and Queen County	1	14.0
King George County	3	11.8
King William County	3	18.4
Lancaster County	1	9.1
Lee County	3	12.1
Lexington City	0	0.0
Loudoun County	18	4.8
Louisa County	3	8.7
Lunenburg County	1	8.1
Lynchburg City	5	6.3

Locality of Injury	Deaths	Rate
Madison County	2	15.2
Manassas City	6	14.4
Manassas Park City	1	6.4
Martinsville City	4	29.3
Mathews County	1	11.3
Mecklenburg County	6	19.3
Middlesex County	2	18.9
Montgomery County	7	7.2
Nelson County	0	0.0
New Kent County	2	9.8
Newport News City	24	13.2
Norfolk City	51	20.7
Northampton County	0	0.0
Northumberland County	1	8.2
Norton City	1	25.4
Nottoway County	0	0.0
Orange County	6	17.0
Page County	2	8.4
Patrick County	7	38.8
Petersburg City	6	18.5
Pittsylvania County	7	11.3
Poquoson City	2	16.6
Portsmouth City	23	23.9
Powhatan County	2	7.1
Prince Edward County	3	13.1
Prince George County	2	5.3
Prince William County	28	6.2
Pulaski County	6	17.5
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	65	29.5
Richmond County	1	11.2
Roanoke City	28	28.0
Roanoke County	10	10.6
Rockbridge County	4	17.9
Rockingham County	7	8.9
Russell County	4	14.3
Salem City	3	11.8
Scott County	3	13.6

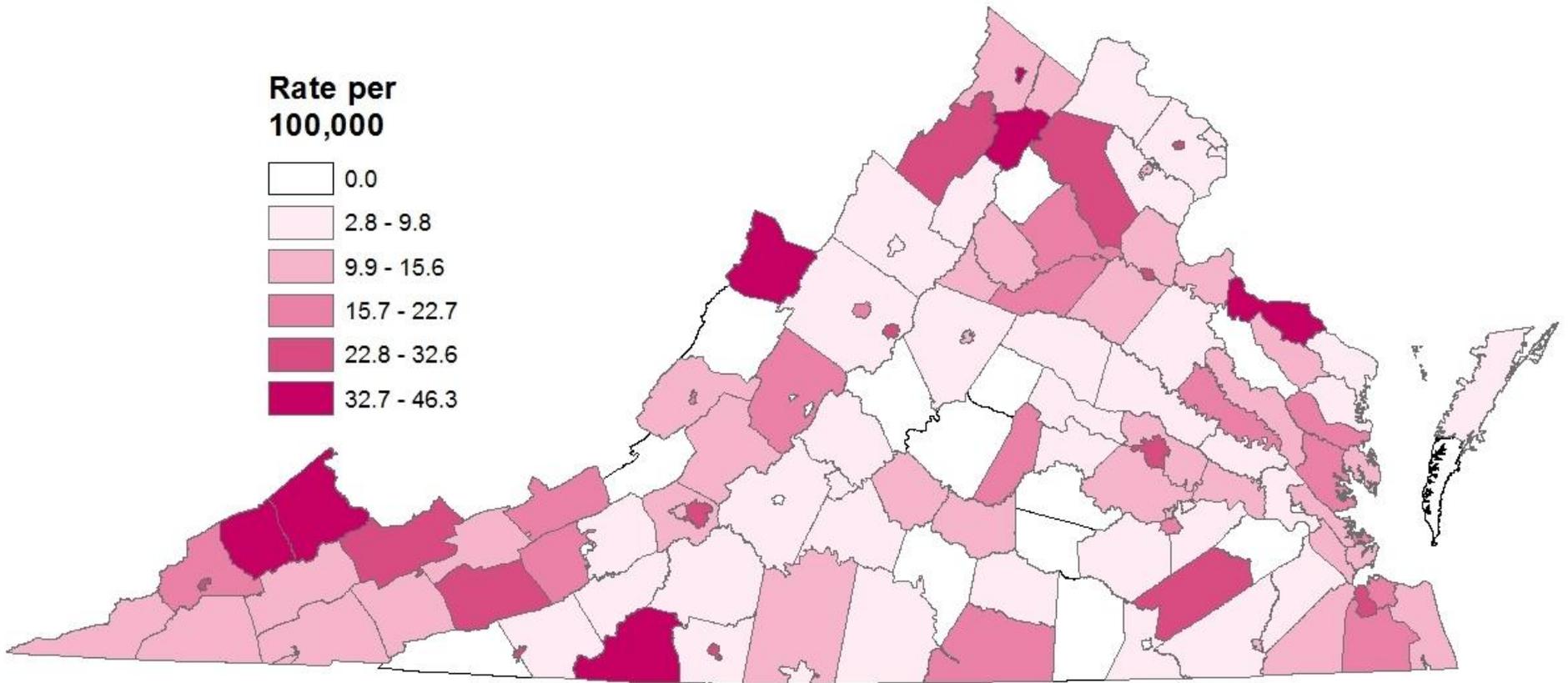
Locality of Injury	Deaths	Rate
Shenandoah County	13	30.1
Smyth County	4	12.7
Southampton County	1	5.5
Spotsylvania County	19	14.6
Stafford County	21	14.8
Staunton City	5	20.5
Suffolk City	10	11.3
Surry County	0	0.0
Sussex County	3	25.6
Tazewell County	14	32.6
Virginia Beach City	58	12.8
Warren County	14	35.8
Washington County	8	14.7
Waynesboro City	5	23.3
Westmoreland County	6	34.0
Williamsburg City	0	0.0
Winchester City	11	40.3
Wise County	9	22.7
Wythe County	7	24.0
York County	9	13.3
<i>Subtotal (in-state)</i>	1010	12.0
Out of State	12	ND
Unknown	6	ND
<i>Subtotal (out-of-state)</i>	18	ND
TOTAL	1028	12.3

Note: No denominator is represented by ND

Map 5.3 Number of Fatal Drug/Poison Overdoses by Locality of Injury, 2015



Map 5.4 Rates of Fatal Drug/Poison Overdoses by Locality of Injury, 2015



PRESCRIPTION OPIOIDS EXCLUDING FENTANYL (N=398)

Prior to 2015, the largest number of fatal drug overdoses was attributed to prescription opioids. Although there was a 20.6% decrease in the number of prescription opioid (excluding fentanyl) deaths in 2015 compared to 2014, prescription opioids (excluding fentanyl) still represented 38.7% of all fatal drug overdoses in 2015.

- Oxycodone continued to be the most common prescription opioid causing or contributing to death
- Whites and females aged 35-44 years had the highest rates of fatal prescription opioid (excluding fentanyl) overdose in 2015 (6.4 deaths and 10.4 deaths per 100,00 persons, respectively)

Figure 5.12 Number of All Fatal Drug Overdoses Compared to All Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Year of Death, 2007-2015

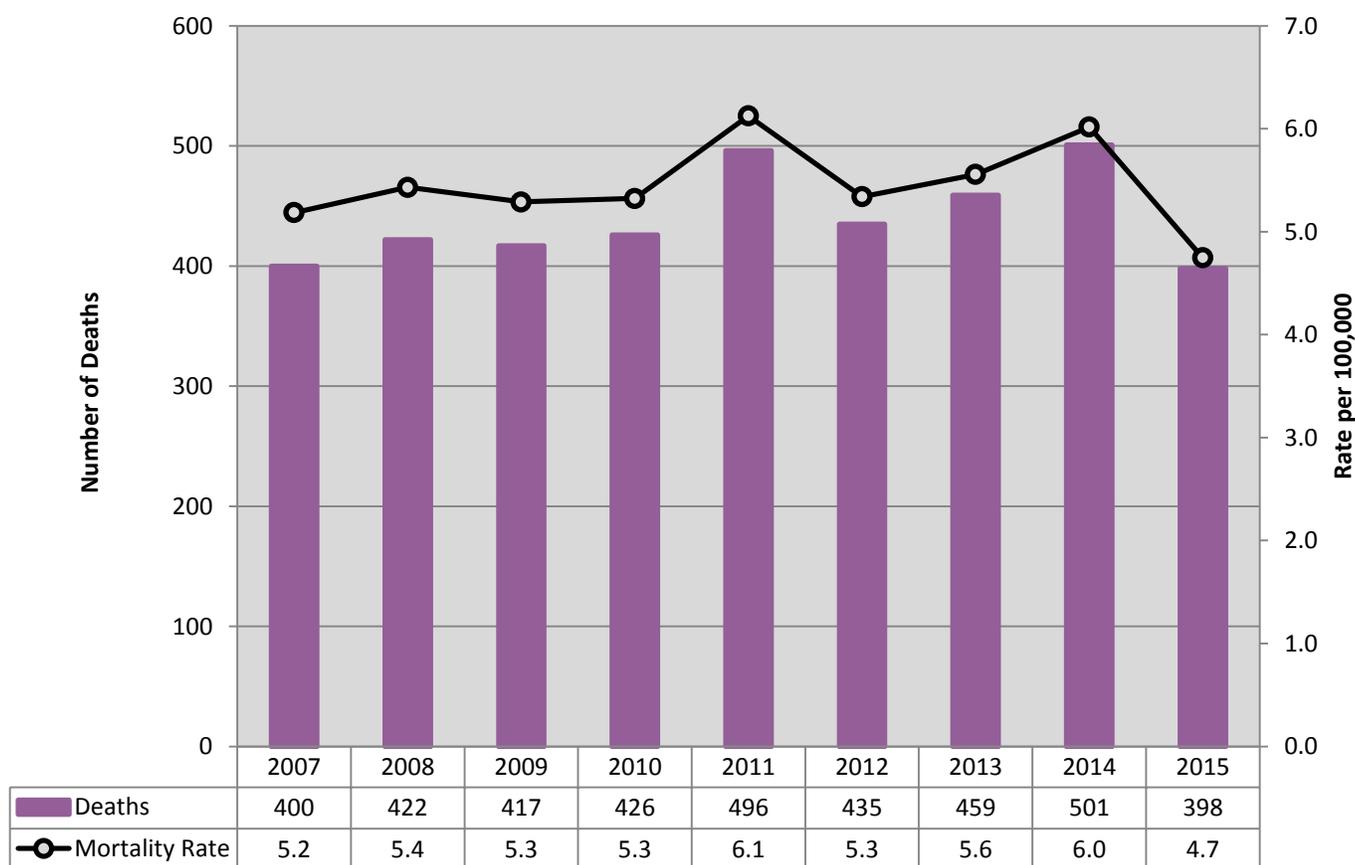


Figure 5.13 Number of Prescription Opioids (Excluding Fentanyl) Causing or Contributing to Death in Fatal Drug/Poison Overdoses, 2015

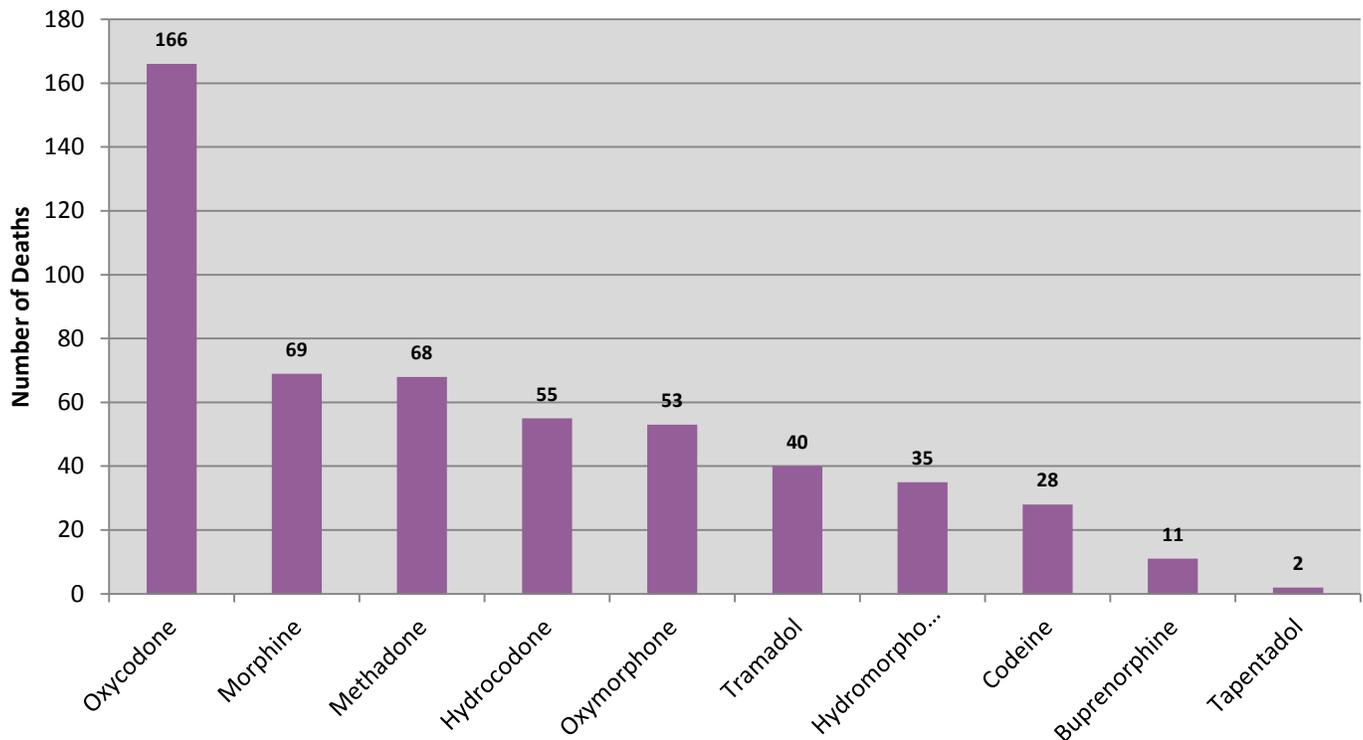


Figure 5.14 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Manner of Death, 2015

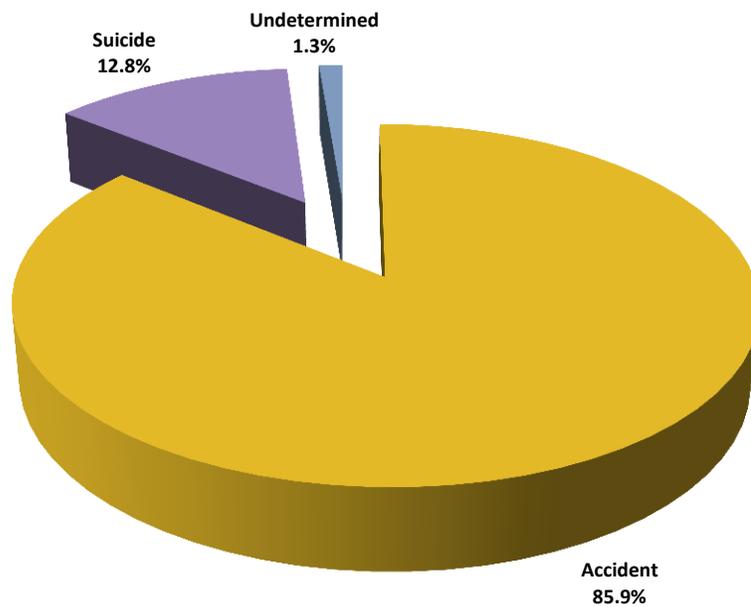


Table 5.10 Number of Prescription Opioids (Excluding Fentanyl) Detected in Fatal Drug Overdoses by OCME District, 2015

Prescription Opioid	Central	Northern	Tidewater	Western	TOTAL
Oxycodone	34	45	35	52	166
Morphine	9	27	24	9	69
Methadone	14	22	8	24	68
Hydrocodone	7	12	16	20	55
Oxymorphone	12	14	8	19	53
Tramadol	8	10	8	14	40
Hydromorphone	6	17	9	3	35
Codeine	4	6	16	2	28
Buprenorphine	0	2	4	5	11
TOTAL	94	155	128	148	525

Figure 5.15 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Age Group and Gender, 2015

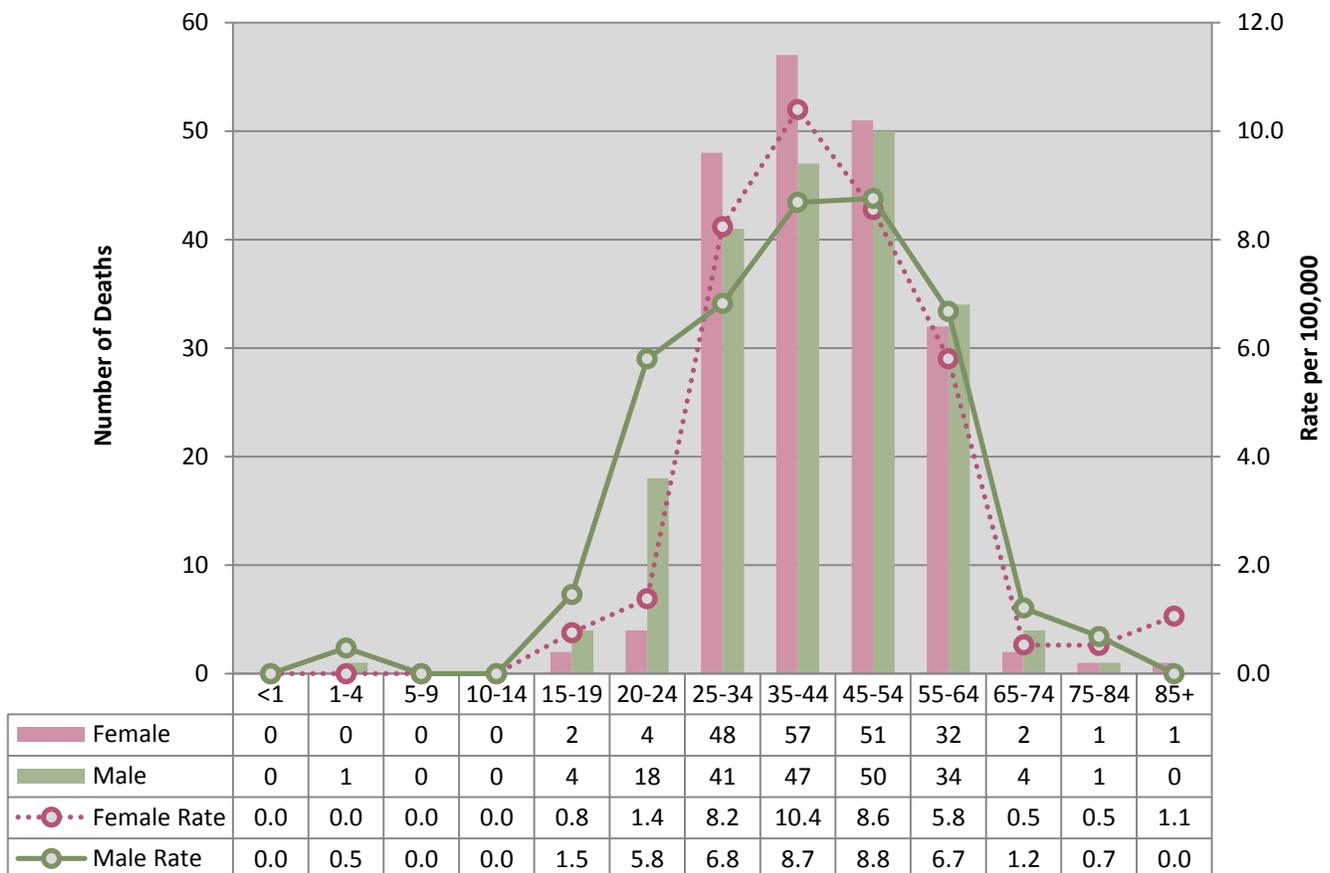


Figure 5.16 Percentage of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity, 2015

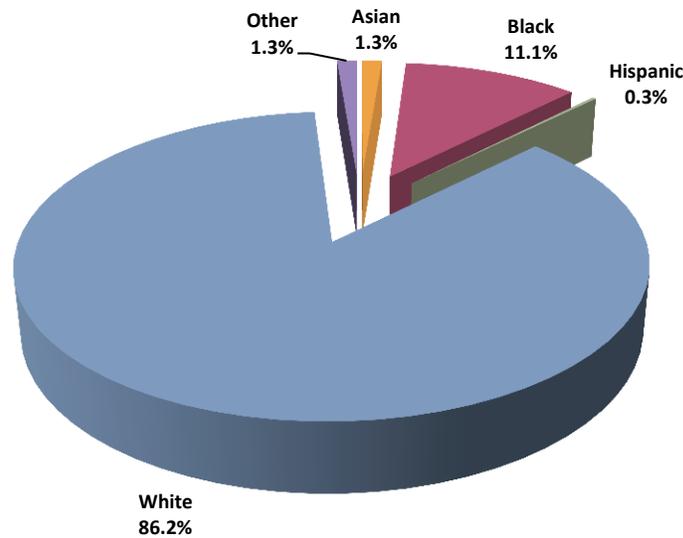
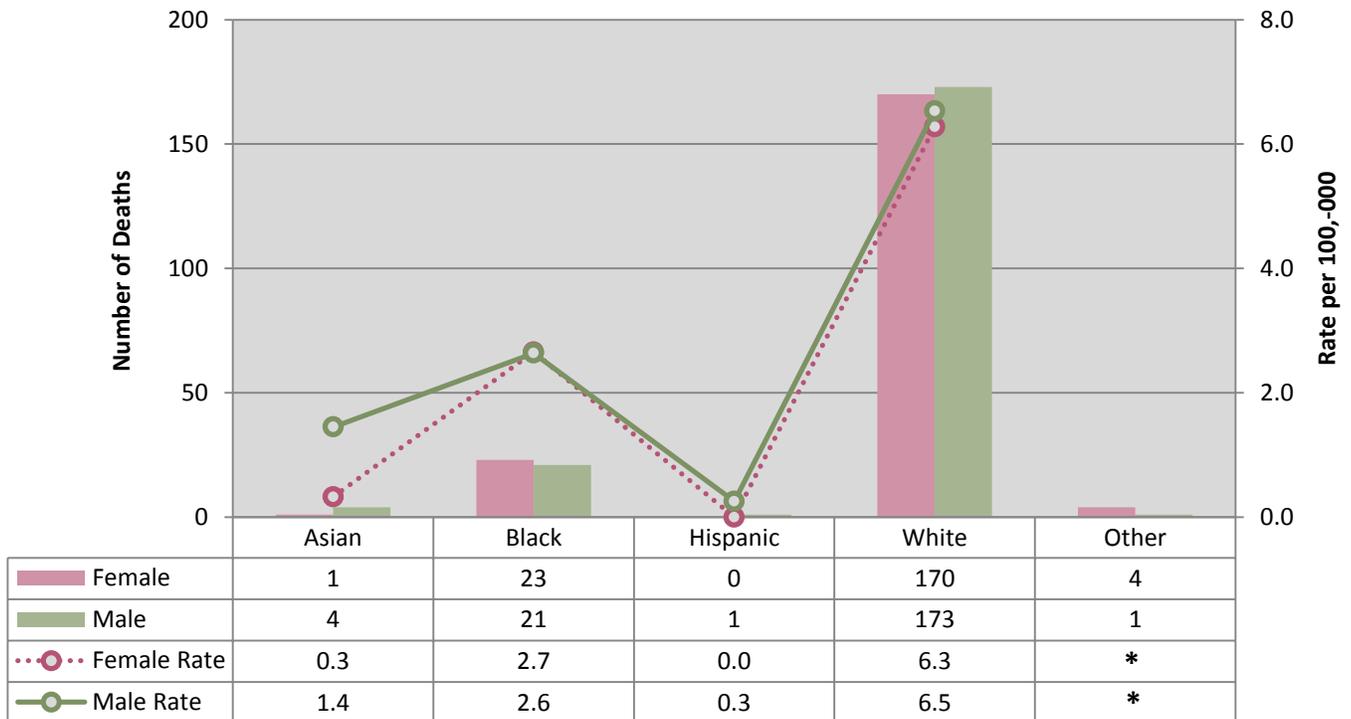


Figure 5.17 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Race/Ethnicity and Gender, 2015



*No rate can be calculated

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

Table 5.11 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2015

Locality of Residence	Deaths	Rate
Accomack County	1	3.0
Albemarle County	2	1.9
Alexandria City	5	3.3
Alleghany County	1	6.4
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.5
Arlington County	10	4.4
Augusta County	1	1.3
Bath County	0	0.0
Bedford County	4	5.1
Bland County	2	30.5
Botetourt County	3	9.0
Bristol City	1	5.8
Brunswick County	0	0.0
Buchanan County	9	39.5
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	3	5.4
Caroline County	2	6.7
Carroll County	2	6.7
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	1	2.1
Chesapeake City	17	7.2
Chesterfield County	10	3.0
Clarke County	0	0.0
Colonial Heights City	0	0.0
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	6	12.1
Cumberland County	0	0.0
Danville City	0	0.0
Dickenson County	5	33.1
Dinwiddie County	2	7.2

Locality of Residence	Deaths	Rate
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	1	4.2
Fairfax County	29	2.5
Falls Church City	0	0.0
Fauquier County	5	7.3
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	1	11.8
Franklin County	2	3.6
Frederick County	6	7.2
Fredericksburg City	1	3.6
Galax City	1	14.5
Giles County	3	18.0
Gloucester County	0	0.0
Goochland County	1	4.5
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	2	5.7
Hampton City	12	8.8
Hanover County	3	2.9
Harrisonburg City	2	3.8
Henrico County	12	3.7
Henry County	4	7.7
Highland County	0	0.0
Hopewell City	1	4.5
Isle of Wight County	1	2.8
James City County	6	8.2
King and Queen County	0	0.0
King George County	2	7.8
King William County	2	12.3
Lancaster County	0	0.0
Lee County	2	8.1
Lexington City	0	0.0

Locality of Residence	Deaths	Rate
Loudoun County	5	1.3
Louisa County	1	2.9
Lunenburg County	0	0.0
Lynchburg City	2	2.5
Madison County	2	15.2
Manassas City	2	4.8
Manassas Park City	0	0.0
Martinsville City	1	7.3
Mathews County	0	0.0
Mecklenburg County	0	0.0
Middlesex County	0	0.0
Montgomery County	5	5.1
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	7	3.8
Norfolk City	21	8.5
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	1	25.4
Nottoway County	0	0.0
Orange County	3	8.5
Page County	1	4.2
Patrick County	3	16.6
Petersburg City	0	0.0
Pittsylvania County	2	3.2
Poquoson City	0	0.0
Portsmouth City	7	7.3
Powhatan County	0	0.0
Prince Edward County	1	4.4
Prince George County	2	5.3
Prince William County	15	3.3
Pulaski County	2	5.8
Radford City	0	0.0
Rappahannock County	1	13.6
Richmond City	9	4.1

Locality of Residence	Deaths	Rate
Richmond County	0	0.0
Roanoke City	8	8.0
Roanoke County	1	1.1
Rockbridge County	1	4.5
Rockingham County	3	3.8
Russell County	4	14.3
Salem City	1	3.9
Scott County	0	0.0
Shenandoah County	7	16.2
Smyth County	2	6.4
Southampton County	0	0.0
Spotsylvania County	7	5.4
Stafford County	3	2.1
Staunton City	1	4.1
Suffolk City	4	4.5
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	6	14.0
Virginia Beach City	23	5.1
Warren County	6	15.4
Washington County	6	11.0
Waynesboro City	3	14.0
Westmoreland County	1	5.7
Williamsburg City	0	0.0
Winchester City	1	3.7
Wise County	4	10.1
Wythe County	5	17.2
York County	2	2.9
<i>Subtotal (in-state)</i>	379	4.5
Out of State	18	ND
Unknown	1	ND
<i>Subtotal (out-of-state)</i>	19	ND
TOTAL	398	4.7

Note: No denominator is represented by ND

Map 5.6 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Residence, 2015

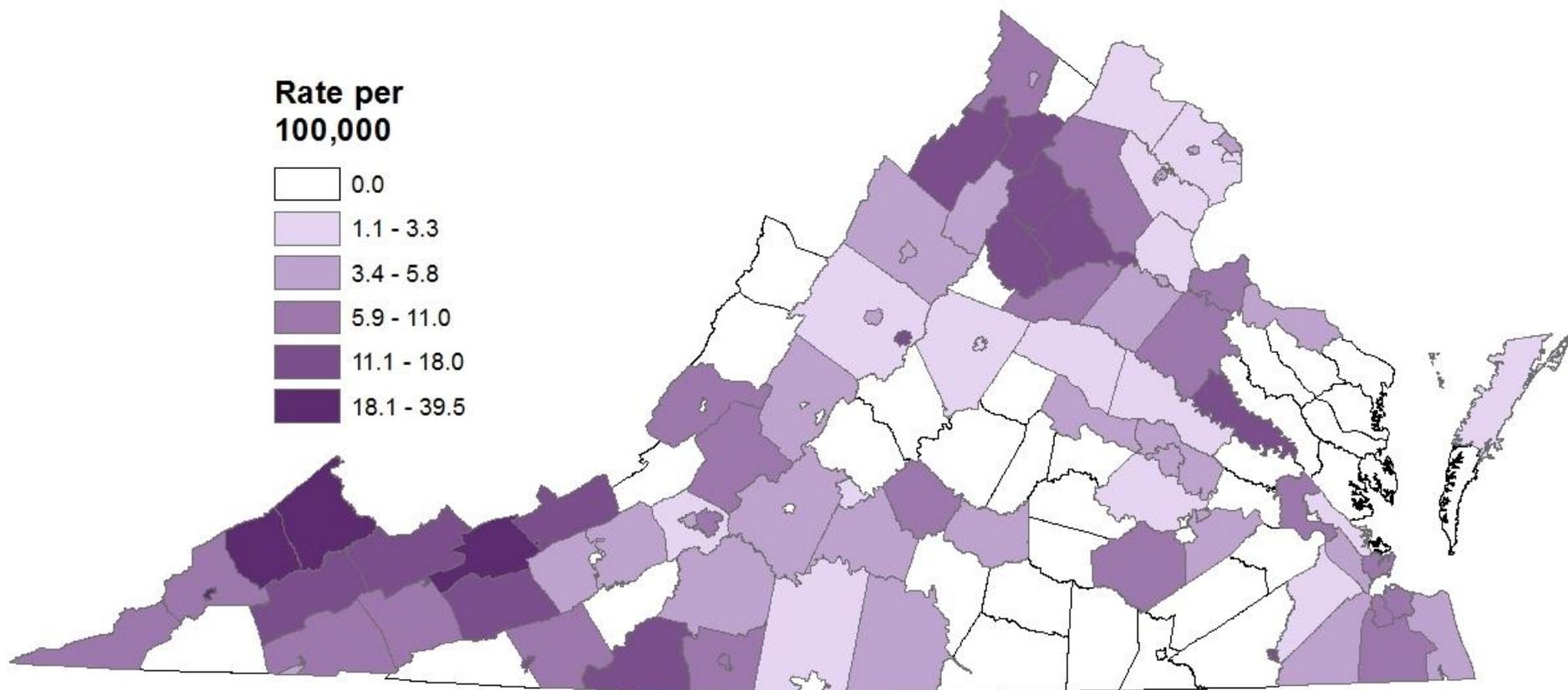


Table 5.12 Number and Rate of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2015

Locality of Injury	Deaths	Rate
Accomack County	1	3.0
Albemarle County	2	1.9
Alexandria City	5	3.3
Alleghany County	1	6.4
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.5
Arlington County	9	3.9
Augusta County	1	1.3
Bath County	0	0.0
Bedford County	4	5.1
Bland County	1	15.2
Botetourt County	2	6.0
Bristol City	1	5.8
Brunswick County	0	0.0
Buchanan County	8	35.1
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	3	5.4
Caroline County	2	6.7
Carroll County	1	3.4
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	1	2.1
Chesapeake City	17	7.2
Chesterfield County	8	2.4
Clarke County	0	0.0
Colonial Heights City	1	5.6
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	6	12.1
Cumberland County	0	0.0
Danville City	0	0.0
Dickenson County	7	46.3
Dinwiddie County	1	3.6
Emporia City	0	0.0

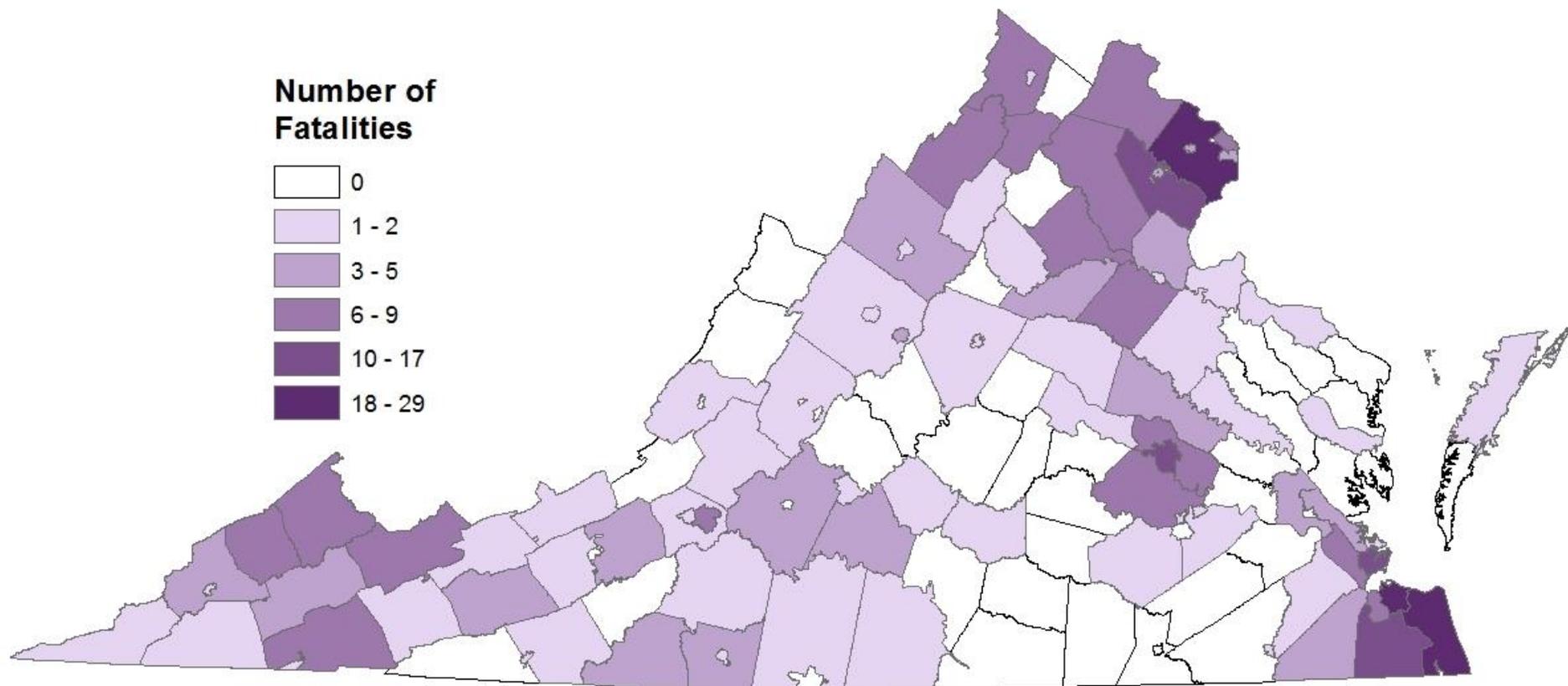
Locality of Injury	Deaths	Rate
Essex County	0	0.0
Fairfax City	3	12.5
Fairfax County	29	2.5
Falls Church City	0	0.0
Fauquier County	6	8.7
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	1	11.8
Franklin County	2	3.6
Frederick County	6	7.2
Fredericksburg City	1	3.6
Galax City	1	14.5
Giles County	2	12.0
Gloucester County	0	0.0
Goochland County	1	4.5
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	2	5.7
Hampton City	11	8.1
Hanover County	4	3.9
Harrisonburg City	2	3.8
Henrico County	9	2.8
Henry County	3	5.8
Highland County	0	0.0
Hopewell City	2	8.9
Isle of Wight County	1	2.8
James City County	5	6.8
King and Queen County	0	0.0
King George County	2	7.8
King William County	2	12.3
Lancaster County	0	0.0
Lee County	2	8.1
Lexington City	0	0.0
Loudoun County	9	2.4
Louisa County	1	2.9

Locality of Injury	Deaths	Rate
Lunenburg County	0	0.0
Lynchburg City	2	2.5
Madison County	2	15.2
Manassas City	3	7.2
Manassas Park City	1	6.4
Martinsville City	2	14.7
Mathews County	0	0.0
Mecklenburg County	0	0.0
Middlesex County	1	9.4
Montgomery County	5	5.1
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	6	3.3
Norfolk City	20	8.1
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	1	25.4
Nottoway County	0	0.0
Orange County	4	11.3
Page County	1	4.2
Patrick County	4	22.2
Petersburg City	0	0.0
Pittsylvania County	2	3.2
Poquoson City	1	8.3
Portsmouth City	9	9.4
Powhatan County	0	0.0
Prince Edward County	1	4.4
Prince George County	2	5.3
Prince William County	13	2.9
Pulaski County	2	5.8
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	13	5.9
Richmond County	0	0.0
Roanoke City	8	8.0
Roanoke County	2	2.1
Rockbridge County	1	4.5
Rockingham County	3	3.8
Russell County	4	14.3

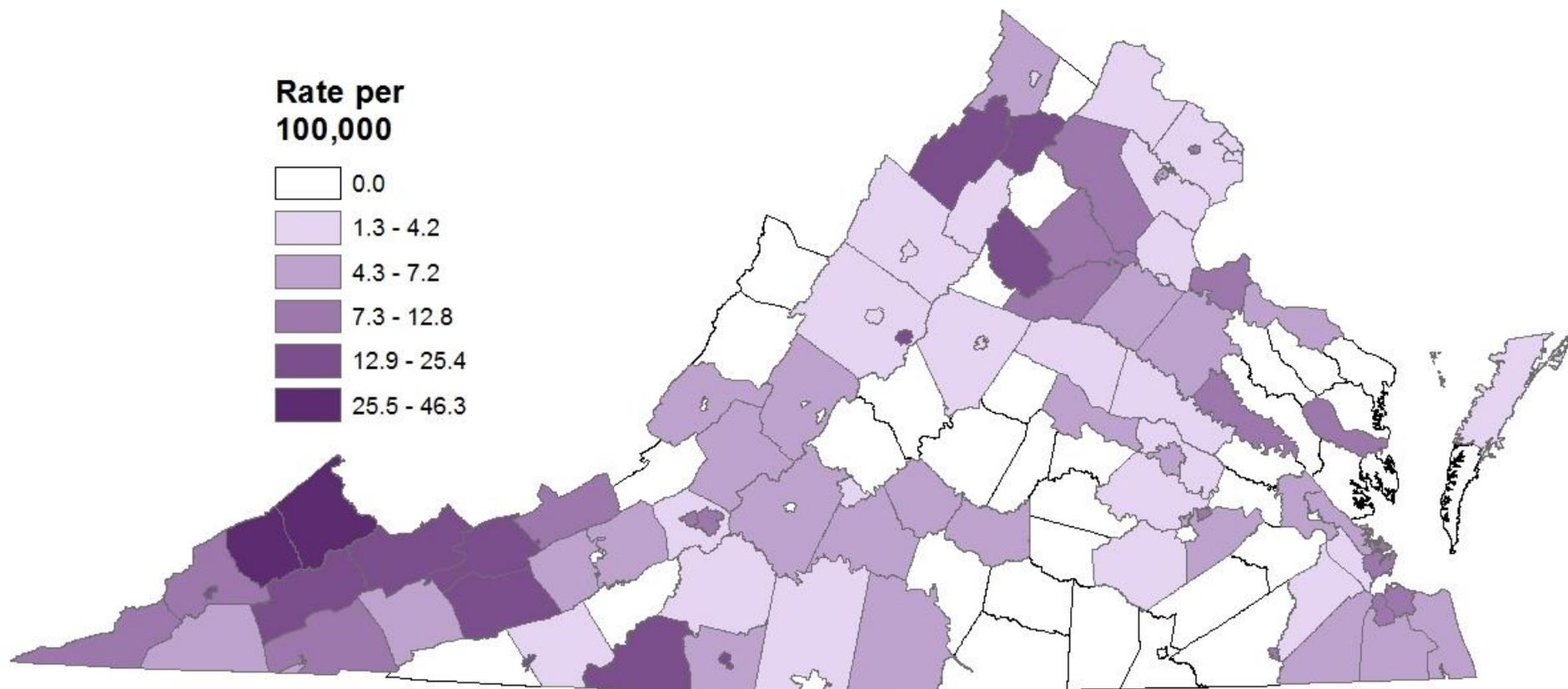
Locality of Injury	Deaths	Rate
Salem City	2	7.9
Scott County	1	4.5
Shenandoah County	8	18.5
Smyth County	2	6.4
Southampton County	0	0.0
Spotsylvania County	7	5.4
Stafford County	3	2.1
Staunton City	1	4.1
Suffolk City	4	4.5
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	7	16.3
Virginia Beach City	23	5.1
Warren County	7	17.9
Washington County	7	12.8
Waynesboro City	3	14.0
Westmoreland County	1	5.7
Williamsburg City	0	0.0
Winchester City	1	3.7
Wise County	4	10.1
Wythe County	5	17.2
York County	3	4.4
<i>Subtotal (in-state)</i>	392	4.7
Out of State	3	ND
Unknown	3	ND
<i>Subtotal (out-of-state)</i>	6	ND
TOTAL	398	4.7

Note: No denominator is represented by ND

Map 5.7 Number of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2015



Map 5.8 Rates of Fatal Prescription Opioid (Excluding Fentanyl) Overdoses by Locality of Injury, 2015



FENTANYL AND/OR HEROIN DEATHS (N=471)

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 is often mixed in with heroin or sold disguised as heroin, often unbeknownst to the user. Illicitly produced fentanyl is indistinguishable from pharmaceutically fentanyl in toxicology and therefore, fentanyl and/or heroin fatalities are analyzed together.

- Fatal fentanyl and/or heroin overdoses in 2015 increased by 33.4% when compared to 2014
- Nearly 98% percent of fatal fentanyl and/or heroin overdoses were accidents
- White males had the highest mortality rate (10.9 deaths per 100,000 persons)
- Males 25-34 years of age had the highest rate of death (20.8 deaths per 100,000 persons)
- Fentanyl and/or heroin was involved in 45.8% of all drug/poison cases in Virginia in 2015
- The Central OCME region managed over 1/3 of all fentanyl and/or heroin overdoses in 2015

Figure 5.18 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Year of Death, 2007-2015

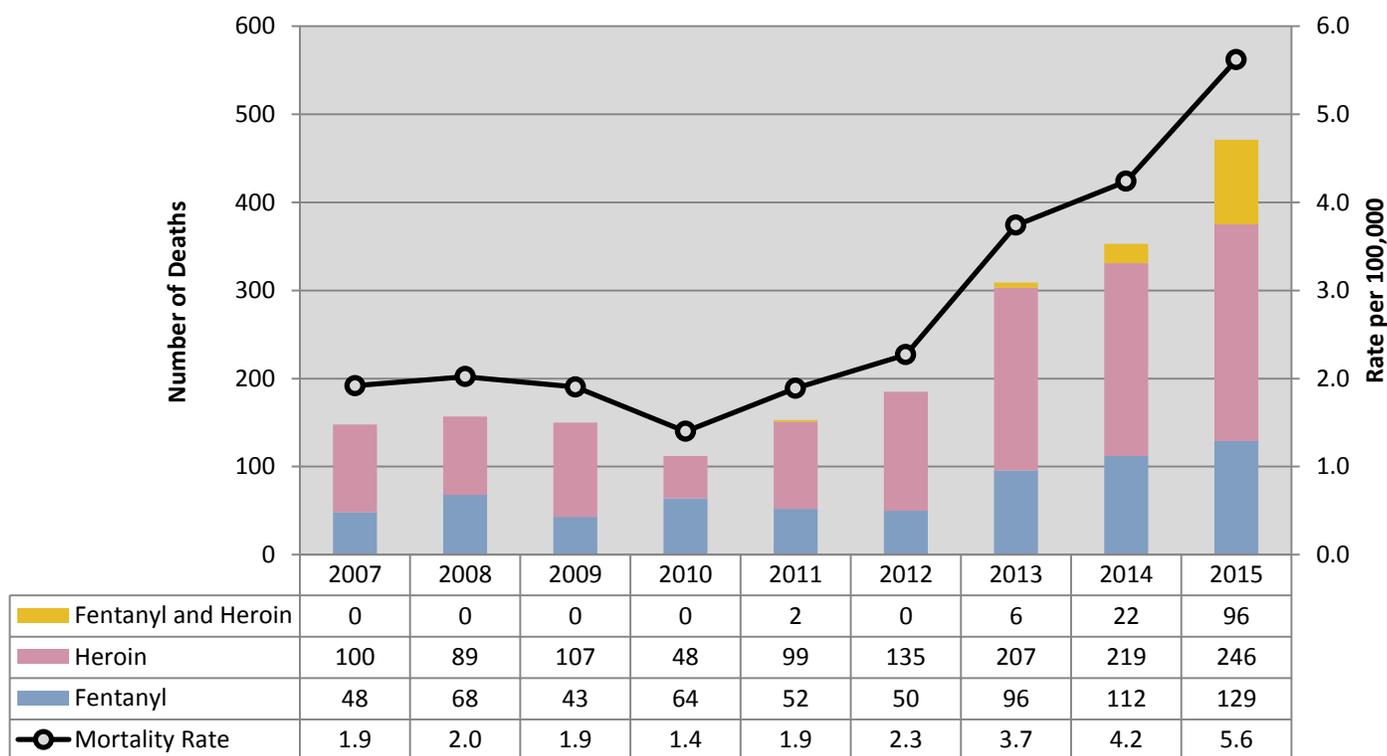


Table 5.13 Number of Fatal Fentanyl and/or Heroin Overdoses by OCME District, 2015

OCME District	Fentanyl	Heroin	Fentanyl and Heroin	Total
Central	29	97	38	164
Northern	27	72	20	119
Tidewater	52	60	33	145
Western	21	17	5	43
Total	129	246	96	471

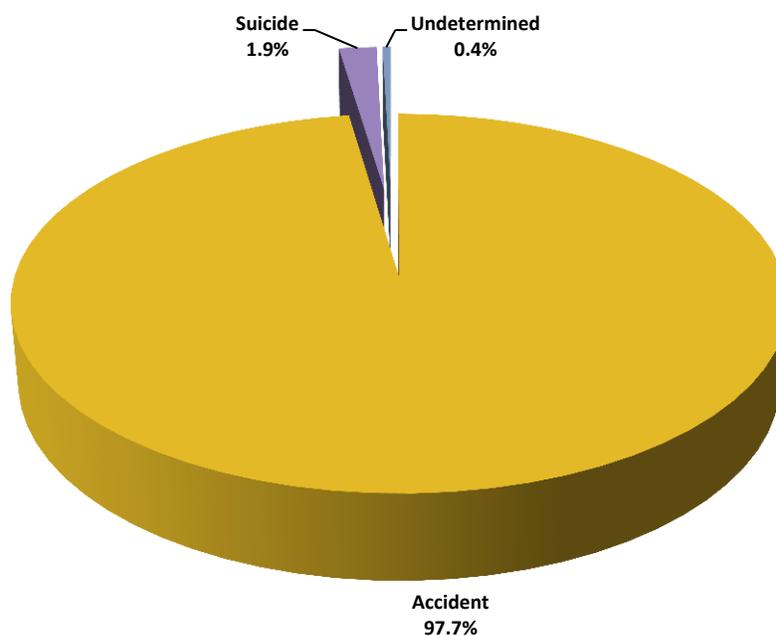
Figure 5.19 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Manner of Death, 2015

Figure 5.20 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Age Group and Gender, 2015

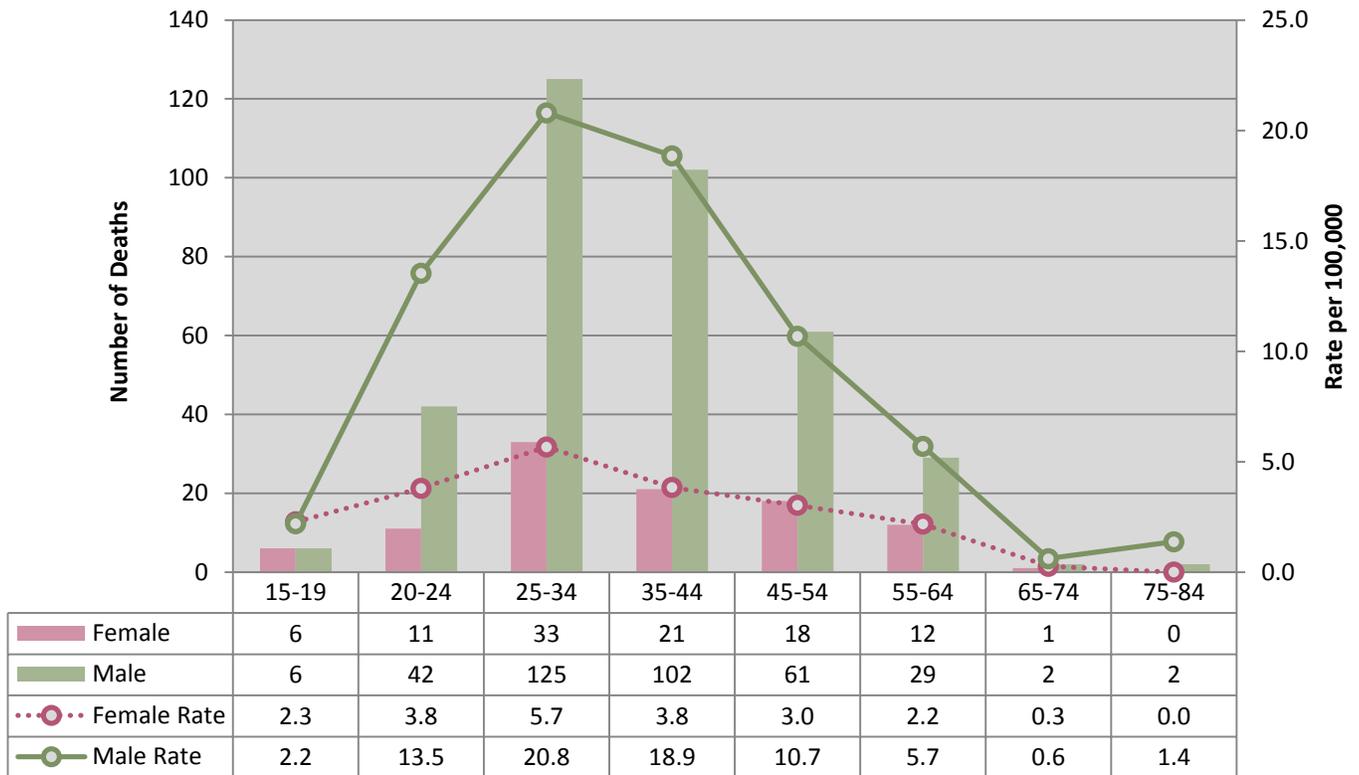


Figure 5.21 Percentage of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity, 2015

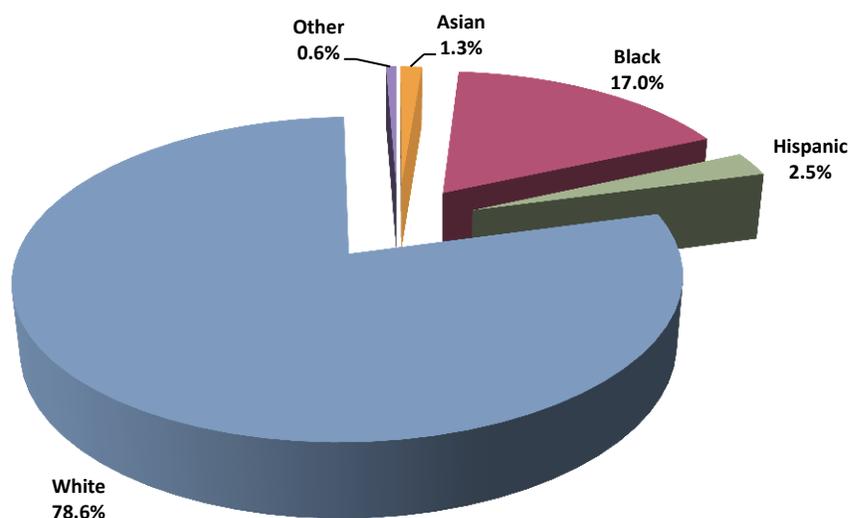
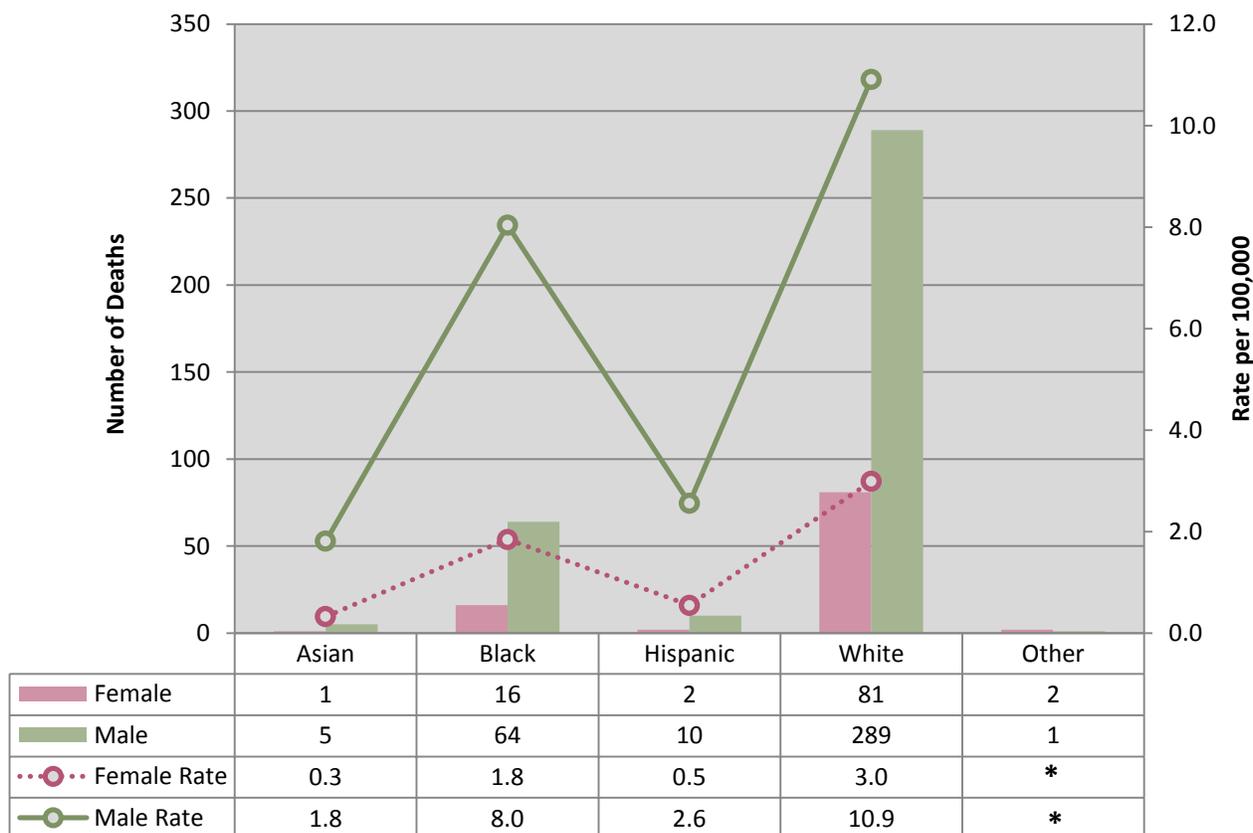


Figure 5.22 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Race/Ethnicity and Gender, 2015



*No rate can be calculated

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

Table 5.14 Number and Percentage of Fatal Fentanyl and/or Heroin Overdoses by Whether Alcohol Caused Death, 2015

Whether Alcohol Played a Role in Death	Deaths	Percentage
Yes	92	19.5%
Contributed	20	4.2%
No	359	76.2%
TOTAL	471	100.0%

Table 5.15 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2015

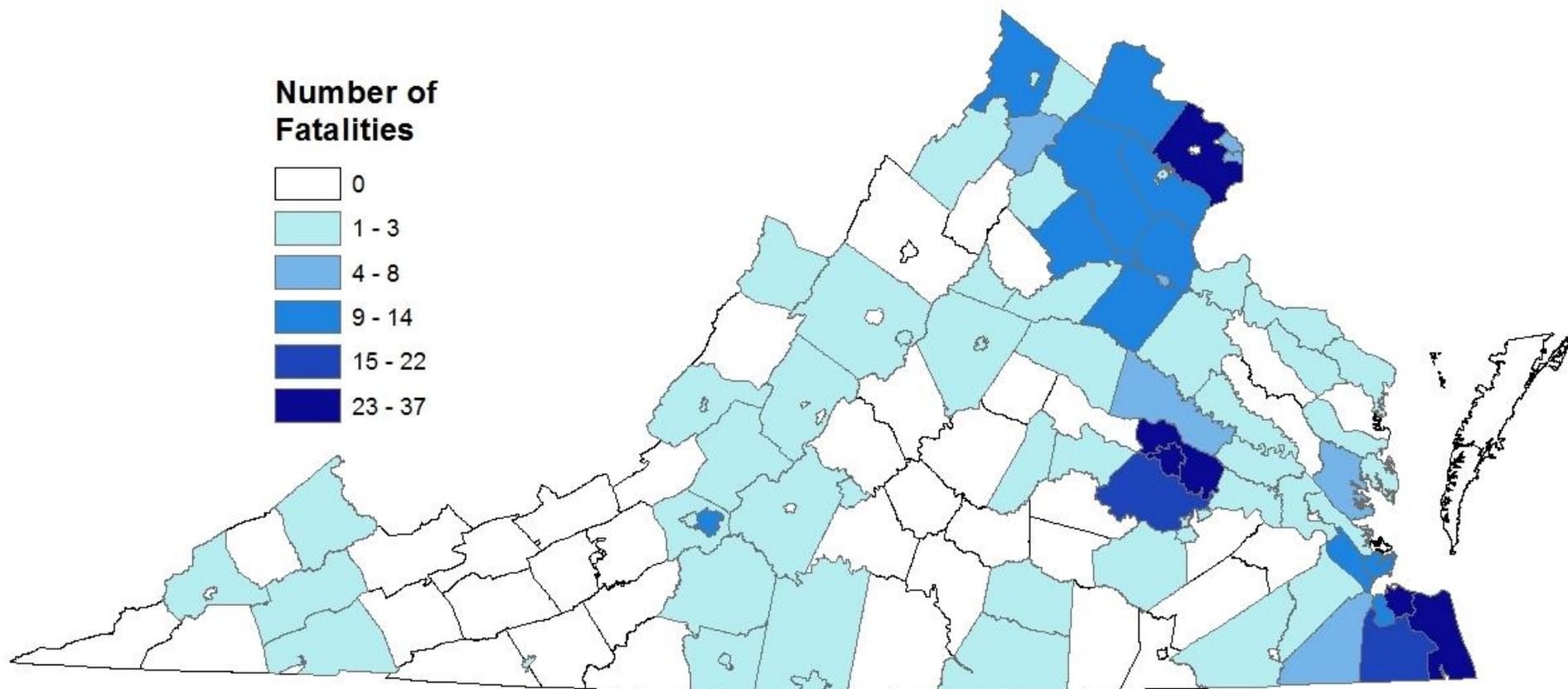
Locality of Residence	Deaths	Rate	Locality of Residence	Deaths	Rate
Accomack County	0	0.0	Essex County	0	0.0
Albemarle County	3	2.8	Fairfax City	0	0.0
Alexandria City	5	3.3	Fairfax County	33	2.9
Alleghany County	1	6.4	Falls Church City	0	0.0
Amelia County	0	0.0	Fauquier County	10	14.5
Amherst County	0	0.0	Floyd County	0	0.0
Appomattox County	0	0.0	Fluvanna County	0	0.0
Arlington County	5	2.2	Franklin City	0	0.0
Augusta County	1	1.3	Franklin County	2	3.6
Bath County	0	0.0	Frederick County	11	13.2
Bedford County	3	3.9	Fredericksburg City	5	17.8
Bland County	0	0.0	Galax City	1	14.5
Botetourt County	2	6.0	Giles County	0	0.0
Bristol City	0	0.0	Gloucester County	4	10.8
Brunswick County	0	0.0	Goochland County	0	0.0
Buchanan County	1	4.4	Grayson County	0	0.0
Buckingham County	0	0.0	Greene County	1	5.2
Buena Vista City	0	0.0	Greensville County	0	0.0
Campbell County	0	0.0	Halifax County	0	0.0
Caroline County	2	6.7	Hampton City	12	8.8
Carroll County	0	0.0	Hanover County	8	7.7
Charles City County	1	14.2	Harrisonburg City	0	0.0
Charlotte County	0	0.0	Henrico County	29	8.9
Charlottesville City	1	2.1	Henry County	1	1.9
Chesapeake City	22	9.3	Highland County	1	45.2
Chesterfield County	19	5.7	Hopewell City	1	4.5
Clarke County	1	7.0	Isle of Wight County	3	8.3
Colonial Heights City	1	5.6	James City County	1	1.4
Covington City	1	17.7	King and Queen County	0	0.0
Craig County	0	0.0	King George County	3	11.8
Culpeper County	10	20.2	King William County	1	6.1
Cumberland County	1	10.3	Lancaster County	0	0.0
Danville City	2	4.8	Lee County	0	0.0
Dickenson County	0	0.0	Lexington City	0	0.0
Dinwiddie County	1	3.6	Loudoun County	10	2.7
Emporia City	0	0.0	Louisa County	2	5.8

Locality of Residence	Deaths	Rate
Lunenburg County	1	8.1
Lynchburg City	1	1.3
Madison County	0	0.0
Manassas City	1	2.4
Manassas Park City	0	0.0
Martinsville City	2	14.7
Mathews County	2	22.6
Mecklenburg County	1	3.2
Middlesex County	1	9.4
Montgomery County	0	0.0
Nelson County	0	0.0
New Kent County	2	9.8
Newport News City	14	7.7
Norfolk City	28	11.4
Northampton County	0	0.0
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	3	8.5
Page County	0	0.0
Patrick County	0	0.0
Petersburg City	2	6.2
Pittsylvania County	1	1.6
Poquoson City	0	0.0
Portsmouth City	12	12.5
Powhatan County	1	3.6
Prince Edward County	0	0.0
Prince George County	0	0.0
Prince William County	14	3.1
Pulaski County	0	0.0
Radford City	0	0.0
Rappahannock County	1	13.6
Richmond City	35	15.9
Richmond County	2	22.5

Locality of Residence	Deaths	Rate
Roanoke City	11	11.0
Roanoke County	3	3.2
Rockbridge County	2	8.9
Rockingham County	0	0.0
Russell County	1	3.6
Salem City	1	3.9
Scott County	0	0.0
Shenandoah County	3	6.9
Smyth County	0	0.0
Southampton County	1	5.5
Spotsylvania County	12	9.2
Stafford County	11	7.7
Staunton City	0	0.0
Suffolk City	5	5.7
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	0	0.0
Virginia Beach City	37	8.2
Warren County	6	15.4
Washington County	2	3.7
Waynesboro City	1	4.7
Westmoreland County	3	17.0
Williamsburg City	0	0.0
Winchester City	1	3.7
Wise County	1	2.5
Wythe County	0	0.0
York County	2	2.9
<i>Subtotal (in-state)</i>	450	5.4
Out of State	19	ND
Unknown	2	ND
<i>Subtotal (out-of-state)</i>	21	ND
TOTAL	471	5.6

Note: No denominator is represented by ND.

Map 5.9 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Residence, 2015



Map 5.10 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Residence, 2015

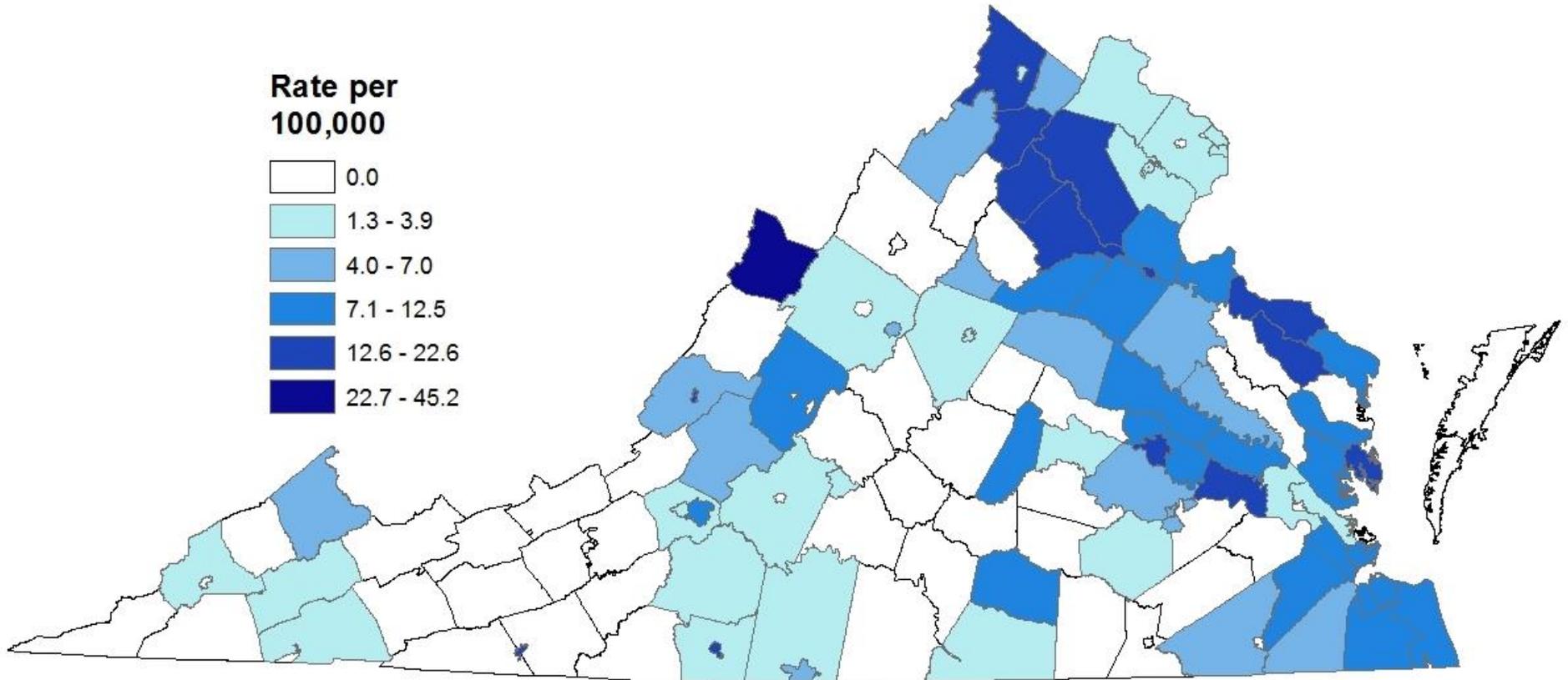


Table 5.16 Number and Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2015

Locality of Injury	Deaths	Rate
Accomack County	0	0.0
Albemarle County	1	0.9
Alexandria City	3	2.0
Alleghany County	1	6.4
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	4	1.7
Augusta County	1	1.3
Bath County	0	0.0
Bedford County	1	1.3
Bland County	0	0.0
Botetourt County	1	3.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	1	4.4
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	1	1.8
Caroline County	0	0.0
Carroll County	0	0.0
Charles City County	1	14.2
Charlotte County	0	0.0
Charlottesville City	2	4.3
Chesapeake City	25	10.6
Chesterfield County	23	6.9
Clarke County	1	7.0
Colonial Heights City	0	0.0
Covington City	1	17.7
Craig County	0	0.0
Culpeper County	7	14.2
Cumberland County	1	10.3
Danville City	2	4.8
Dickenson County	0	0.0
Dinwiddie County	1	3.6
Emporia City	0	0.0

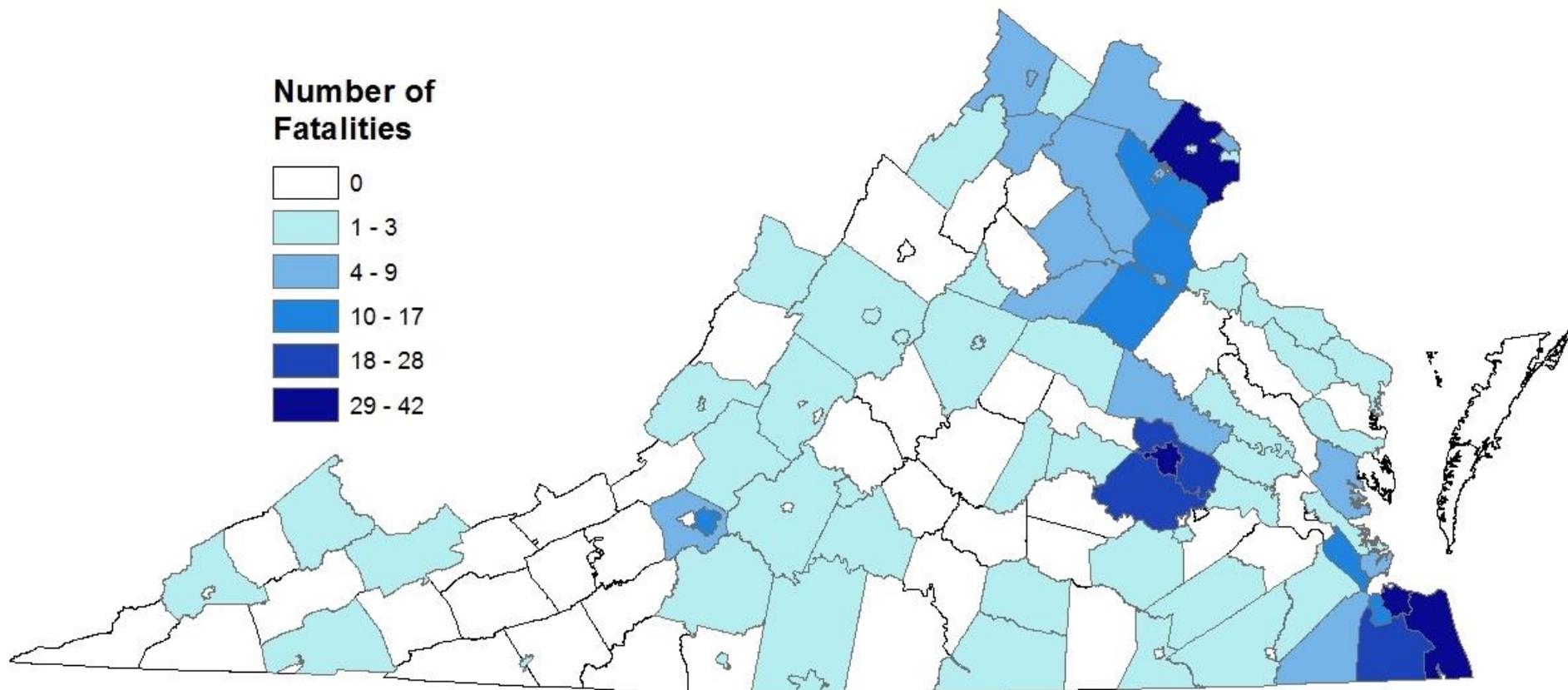
Locality of Injury	Deaths	Rate
Essex County	0	0.0
Fairfax City	2	8.3
Fairfax County	38	3.3
Falls Church City	0	0.0
Fauquier County	9	13.1
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	1	1.8
Frederick County	8	9.6
Fredericksburg City	6	21.3
Galax City	1	14.5
Giles County	0	0.0
Gloucester County	5	13.5
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	1	5.2
Greensville County	1	8.4
Halifax County	0	0.0
Hampton City	8	5.9
Hanover County	5	4.8
Harrisonburg City	0	0.0
Henrico County	28	8.6
Henry County	0	0.0
Highland County	1	45.2
Hopewell City	0	0.0
Isle of Wight County	2	5.5
James City County	0	0.0
King and Queen County	0	0.0
King George County	1	3.9
King William County	1	6.1
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	9	2.4
Louisa County	1	2.9

Locality of Injury	Deaths	Rate
Lunenburg County	1	8.1
Lynchburg City	1	1.3
Madison County	0	0.0
Manassas City	4	9.6
Manassas Park City	0	0.0
Martinsville City	2	14.7
Mathews County	0	0.0
Mecklenburg County	2	6.4
Middlesex County	1	9.4
Montgomery County	0	0.0
Nelson County	0	0.0
New Kent County	1	4.9
Newport News City	17	9.3
Norfolk City	33	13.4
Northampton County	0	0.0
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	4	11.3
Page County	0	0.0
Patrick County	0	0.0
Petersburg City	3	9.2
Pittsylvania County	1	1.6
Poquoson City	2	16.6
Portsmouth City	13	13.5
Powhatan County	1	3.6
Prince Edward County	0	0.0
Prince George County	0	0.0
Prince William County	13	2.9
Pulaski County	0	0.0
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	42	19.1
Richmond County	1	11.2

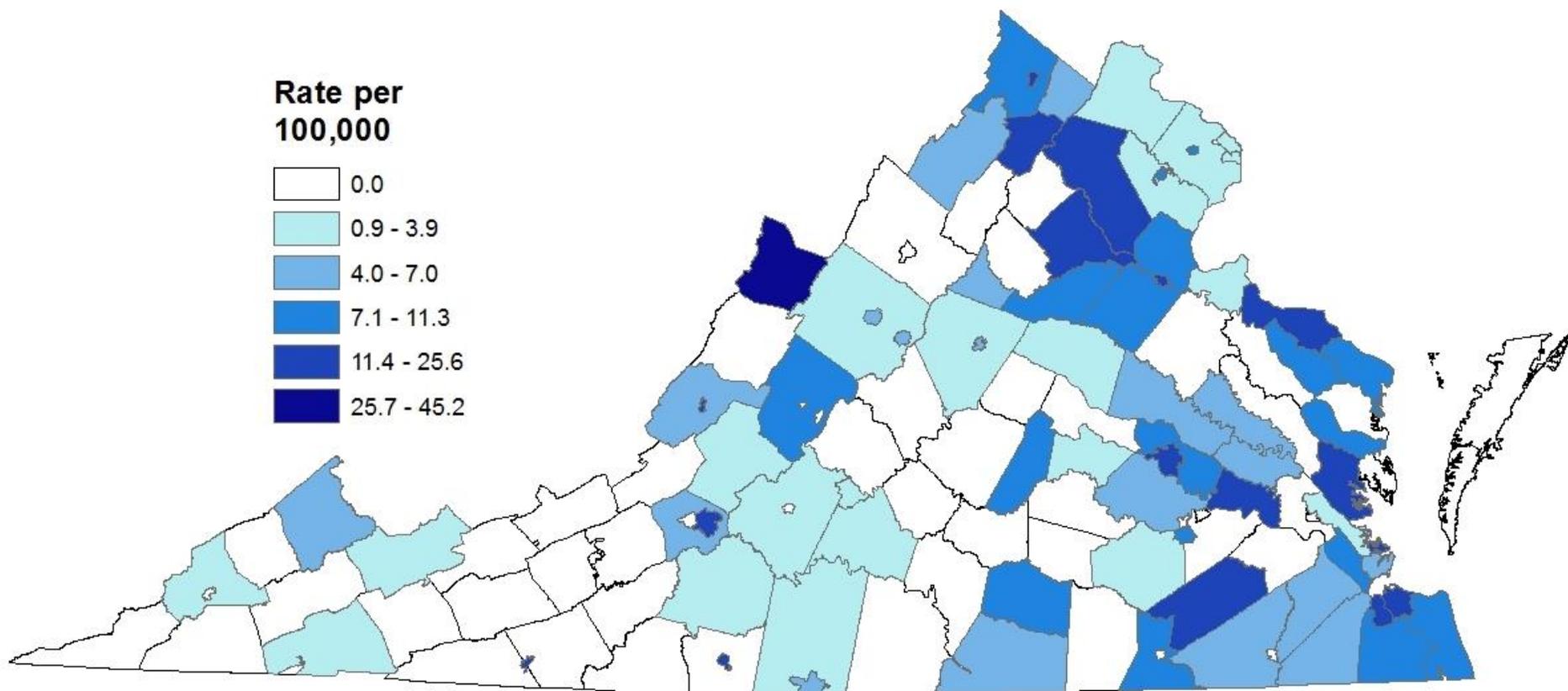
Locality of Injury	Deaths	Rate
Roanoke City	14	14.0
Roanoke County	5	5.3
Rockbridge County	2	8.9
Rockingham County	0	0.0
Russell County	0	0.0
Salem City	0	0.0
Scott County	0	0.0
Shenandoah County	3	6.9
Smyth County	0	0.0
Southampton County	1	5.5
Spotsylvania County	12	9.2
Stafford County	14	9.9
Staunton City	1	4.1
Suffolk City	6	6.8
Surry County	0	0.0
Sussex County	3	25.6
Tazewell County	1	2.3
Virginia Beach City	34	7.5
Warren County	8	20.5
Washington County	1	1.8
Waynesboro City	1	4.7
Westmoreland County	3	17.0
Williamsburg City	0	0.0
Winchester City	5	18.3
Wise County	1	2.5
Wythe County	0	0.0
York County	2	2.9
<i>Subtotal (in-state)</i>	466	5.6
Out of State	3	ND
Unknown	2	ND
<i>Subtotal (out-of-state)</i>	5	ND
TOTAL	471	5.6

Note: No denominator is represented by ND.

Map 5.11 Number of Fatal Fentanyl and/or Heroin Overdoses by Locality of Injury, 2015



Map 5.12 Rates of Fatal Fentanyl and/or Heroin Overdose by Locality of Injury, 2015



ALL OPIOID DEATHS (N=811)

All fatal opioid overdoses include fatalities which included at least fentanyl, heroin, and/or one or more prescription opioids. Fatal opioid overdoses increased in 2015 when compared to 2014 (4.6%) and represented 78.9% of all fatal drug overdose cases in 2015.

- For the first time on record, fentanyl and/or heroin deaths surpassed prescription opioid deaths in 2015
- White males had the highest mortality rate due to opioids (16.5 deaths per 100,000 persons)
- Males aged 35-44 years and males 25-34 years had the highest mortality rate compared to other groups (26.8 and 26.3 deaths per 100,000 persons, respectively)
- Over 92% of all fatal opioid overdoses in 2015 were accidents
- Out of all opioids (heroin, fentanyl, and prescription opioids) in 2015, heroin was responsible for the largest number of deaths

Figure 5.23 Number and Rate of All Fatal Opioid Overdoses Year of Death, 2007-2015

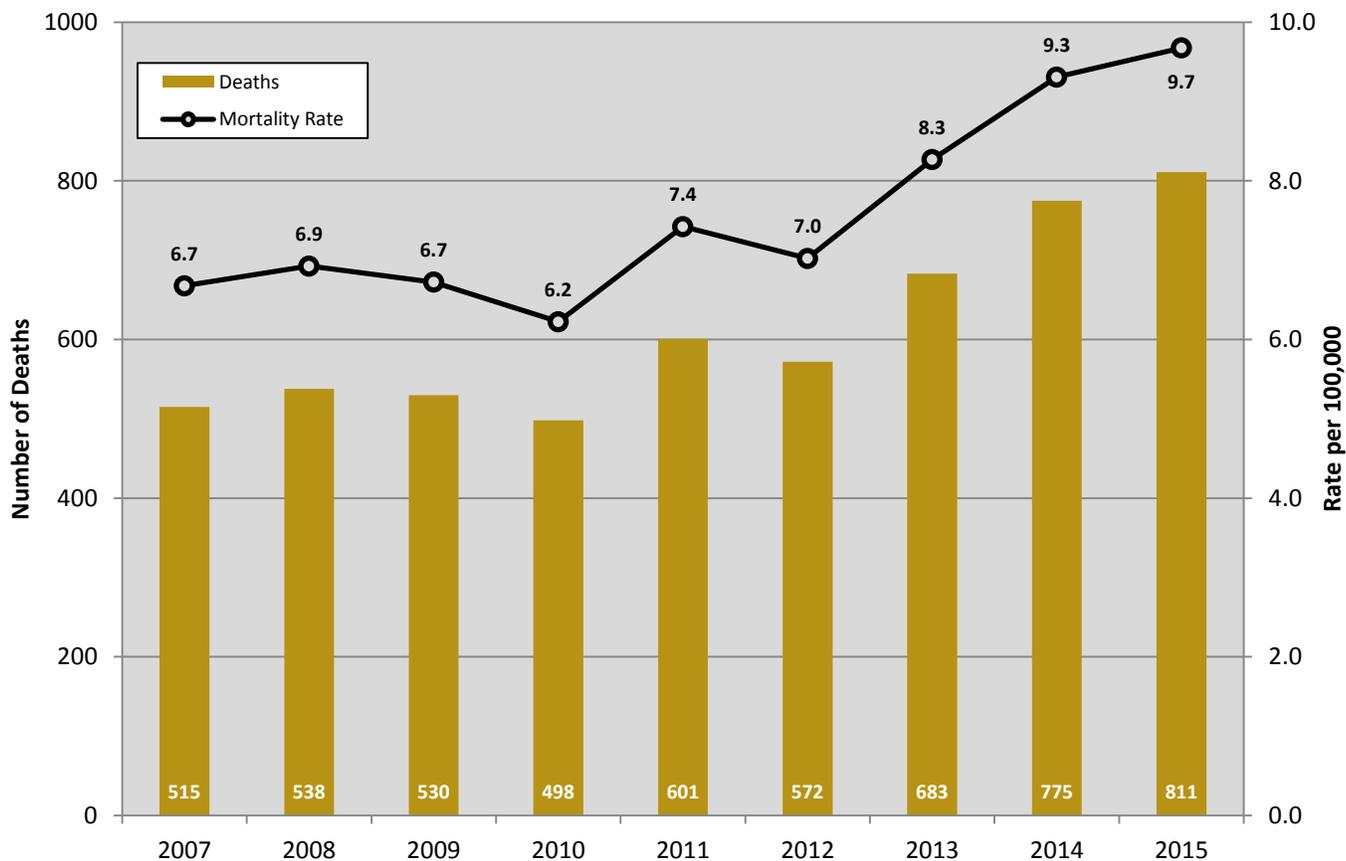


Table 5.17 Number of All Fatal Opioid Overdoses by Combination and OCME District, 2015

Drug Combination	Central	Northern	Tidewater	Western	Total
One or more prescription opioids (excluding fentanyl)	69	87	62	105	323
Fentanyl and/or heroin	157	92	109	38	396
Fentanyl and/or heroin and one more prescription opioids (excluding fentanyl)	7	27	36	5	75
Opioids unspecified	7	3	4	3	17
Total	240	209	211	151	811

Figure 5.24 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2015

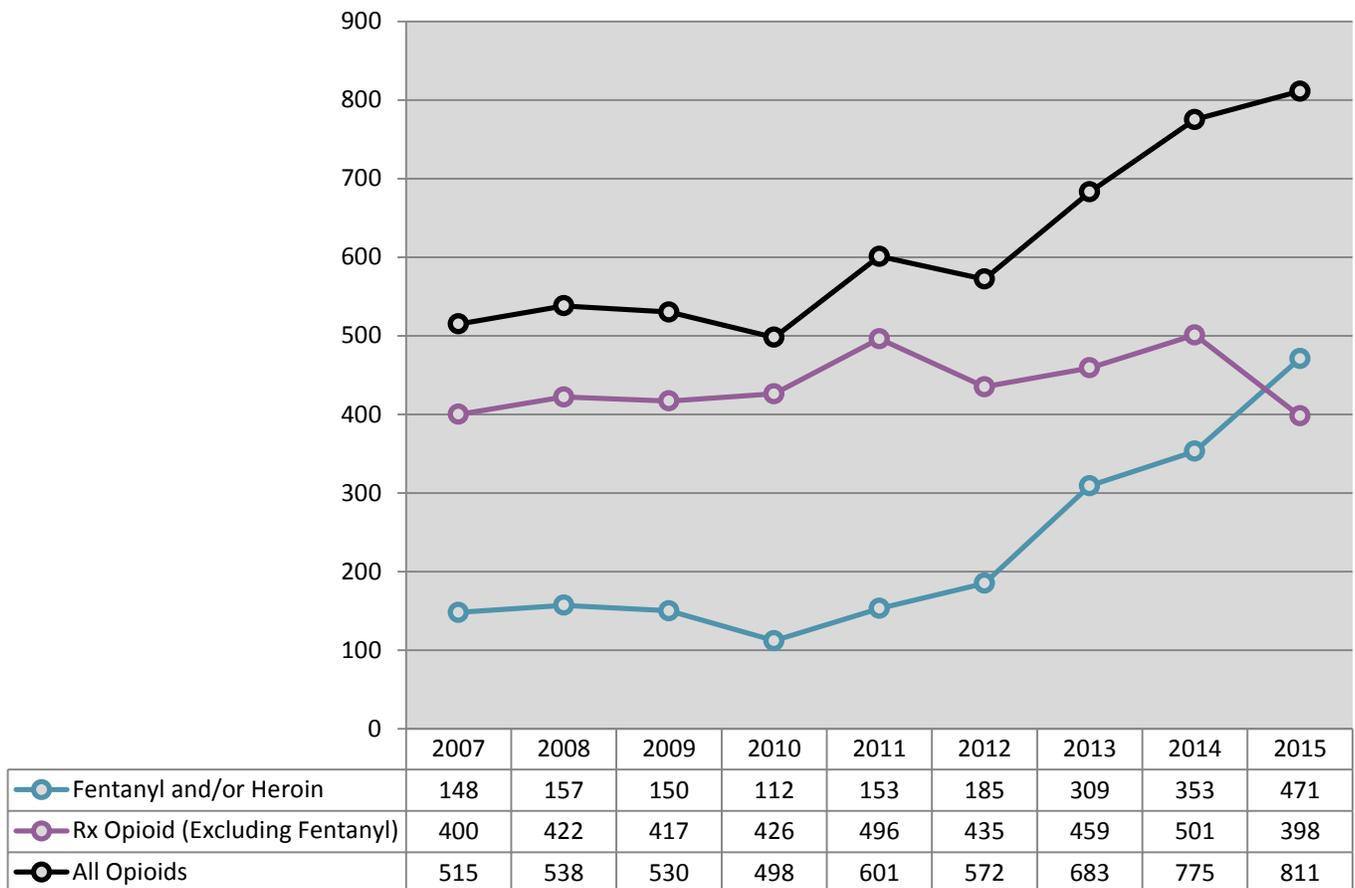


Figure 5.25 Percentage of All Fatal Opioid Overdoses by Manner of Death, 2015

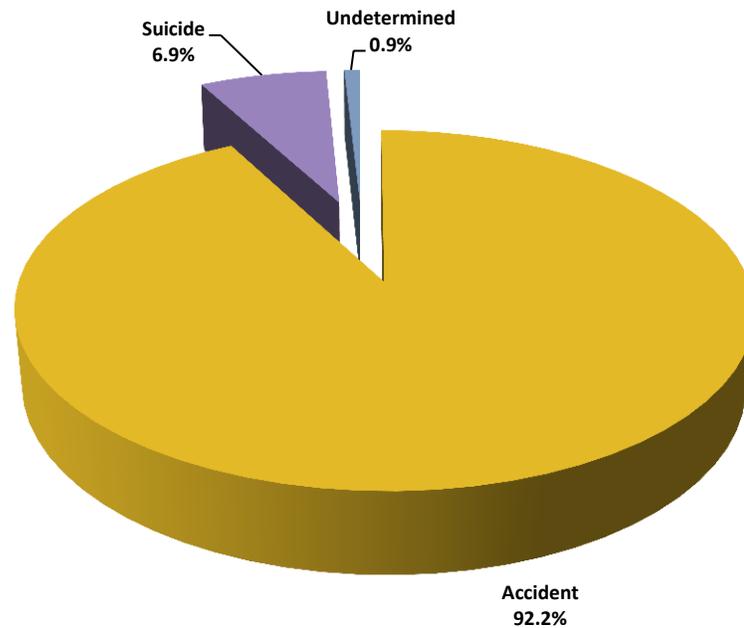


Figure 5.26 Number and Rate of All Fatal Opioid Overdoses by Age Group and Gender, 2015

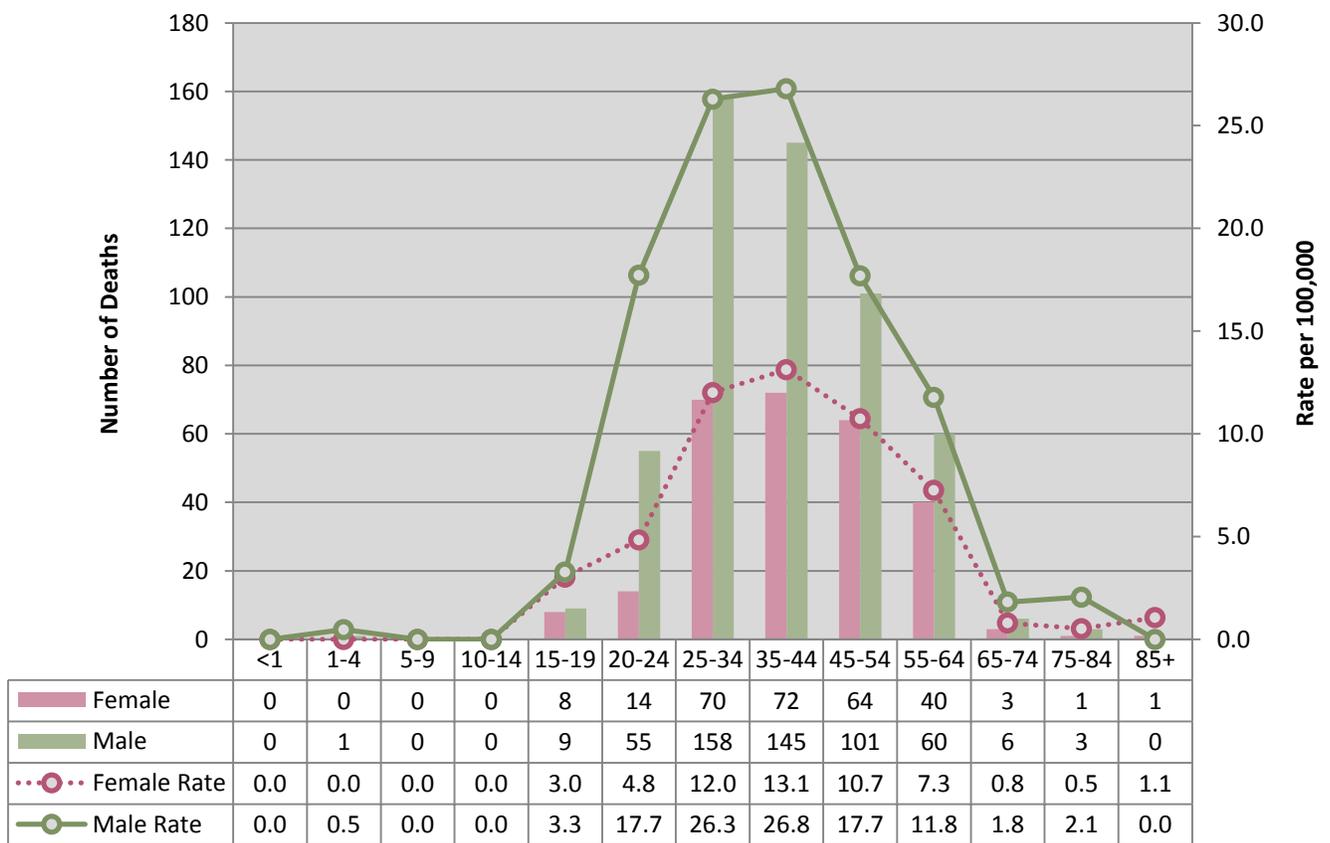


Figure 5.27 Percentage of All Fatal Opioid Overdoses by Race/Ethnicity, 2015

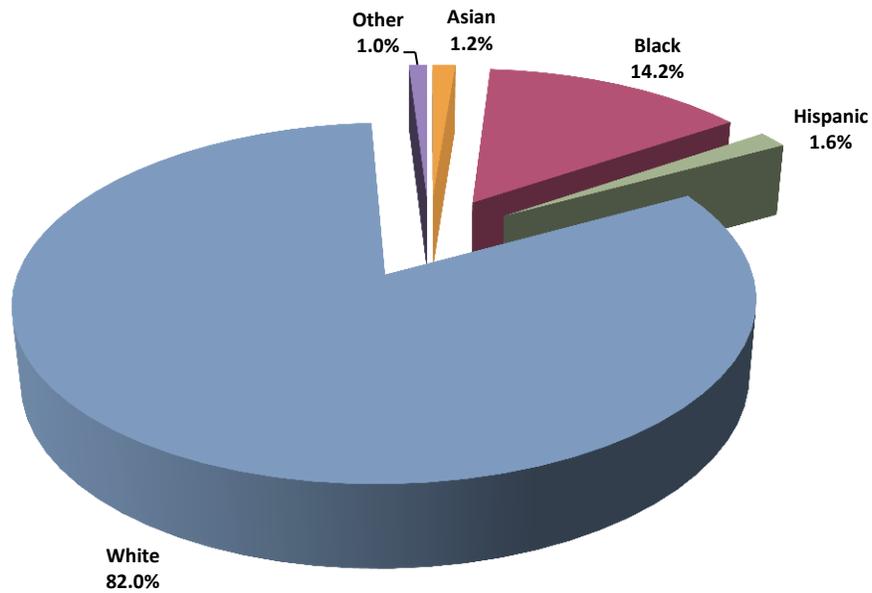
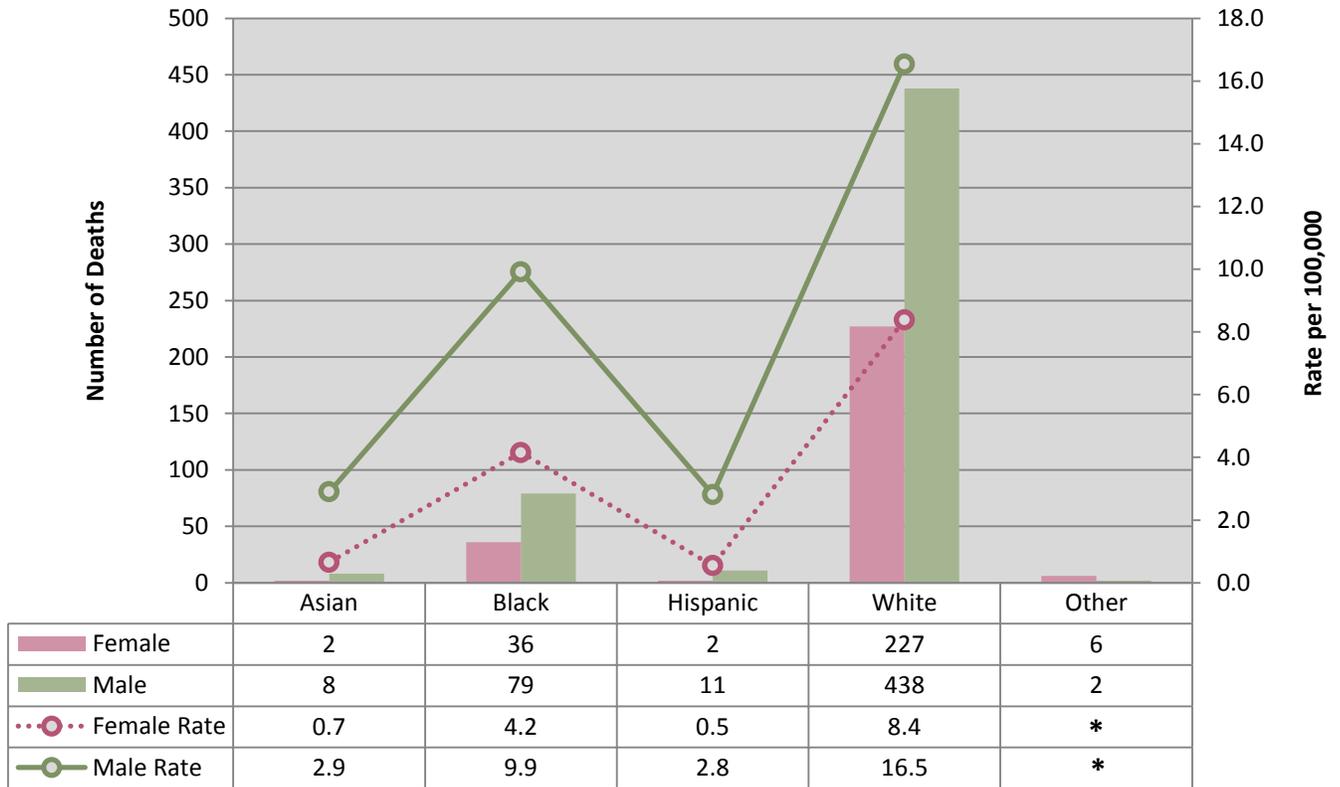
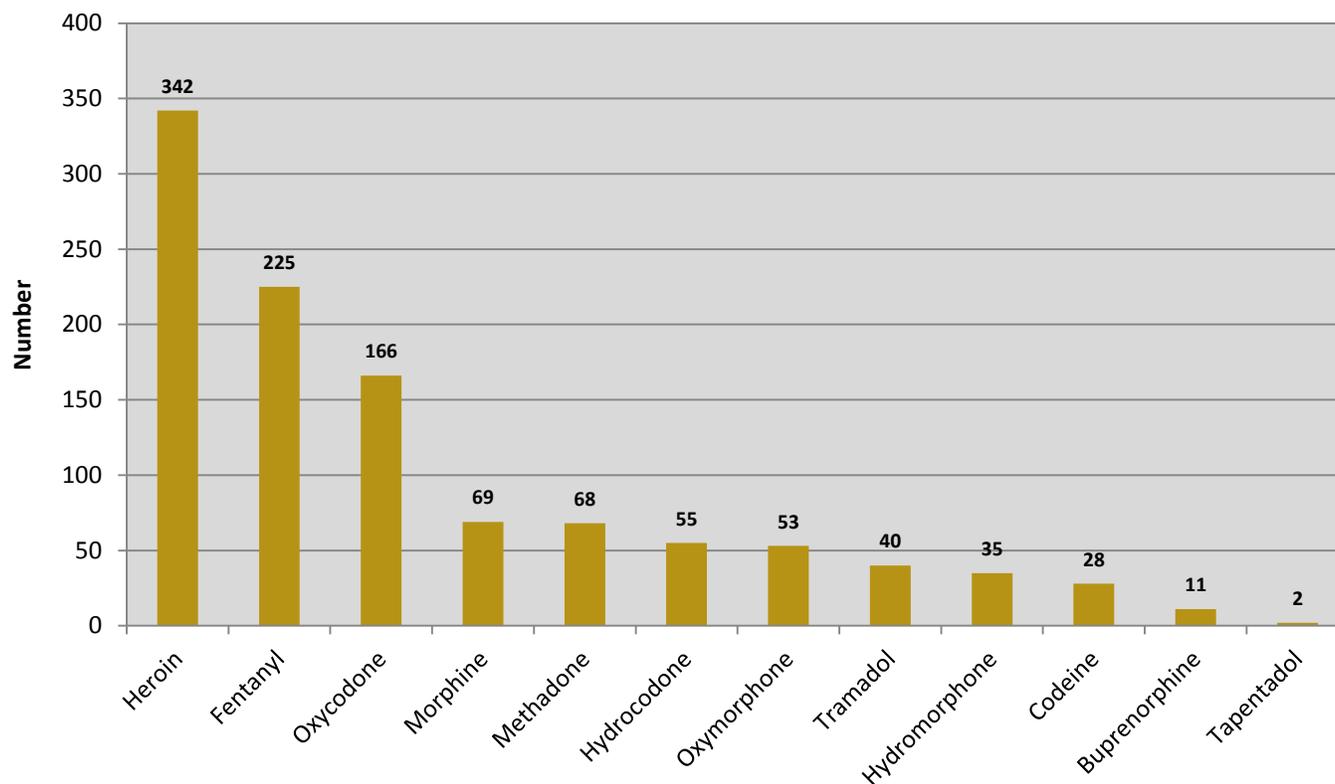


Figure 5.28 Number and Rate of All Fatal Opioid Overdoses by Race/Ethnicity and Gender, 2015



*No rate can be calculated

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

Figure 5.29 Number of Opioids Causing or Contributing to Fatal Opioid Overdoses, 2015**Table 5.18 Number and Percentage of All Fatal Opioid Overdoses by Whether Alcohol Caused Death, 2015**

Whether Alcohol Played a Role in Death	Deaths	Percentage
Yes	133	16.4%
Contributed	32	3.9%
No	646	79.7%
TOTAL	811	100.0%

Table 5.19 Number of All Fatal Opioid Overdoses by Locality of Residence, 2015

Locality of Residence	Deaths	Rate
Accomack County	1	3.0
Albemarle County	5	4.7
Alexandria City	9	5.9
Alleghany County	2	12.8
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.5
Arlington County	14	6.1
Augusta County	2	2.7
Bath County	0	0.0
Bedford County	6	7.7
Bland County	2	30.5
Botetourt County	4	12.0
Bristol City	1	5.8
Brunswick County	0	0.0
Buchanan County	10	43.9
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	3	5.4
Caroline County	4	13.3
Carroll County	2	6.7
Charles City County	1	14.2
Charlotte County	0	0.0
Charlottesville City	2	4.3
Chesapeake City	35	14.9
Chesterfield County	29	8.6
Clarke County	1	7.0
Colonial Heights City	1	5.6
Covington City	1	17.7
Craig County	0	0.0
Culpeper County	14	28.3
Cumberland County	1	10.3
Danville City	2	4.8
Dickenson County	5	33.1
Dinwiddie County	3	10.8
Emporia City	0	0.0
Essex County	0	0.0

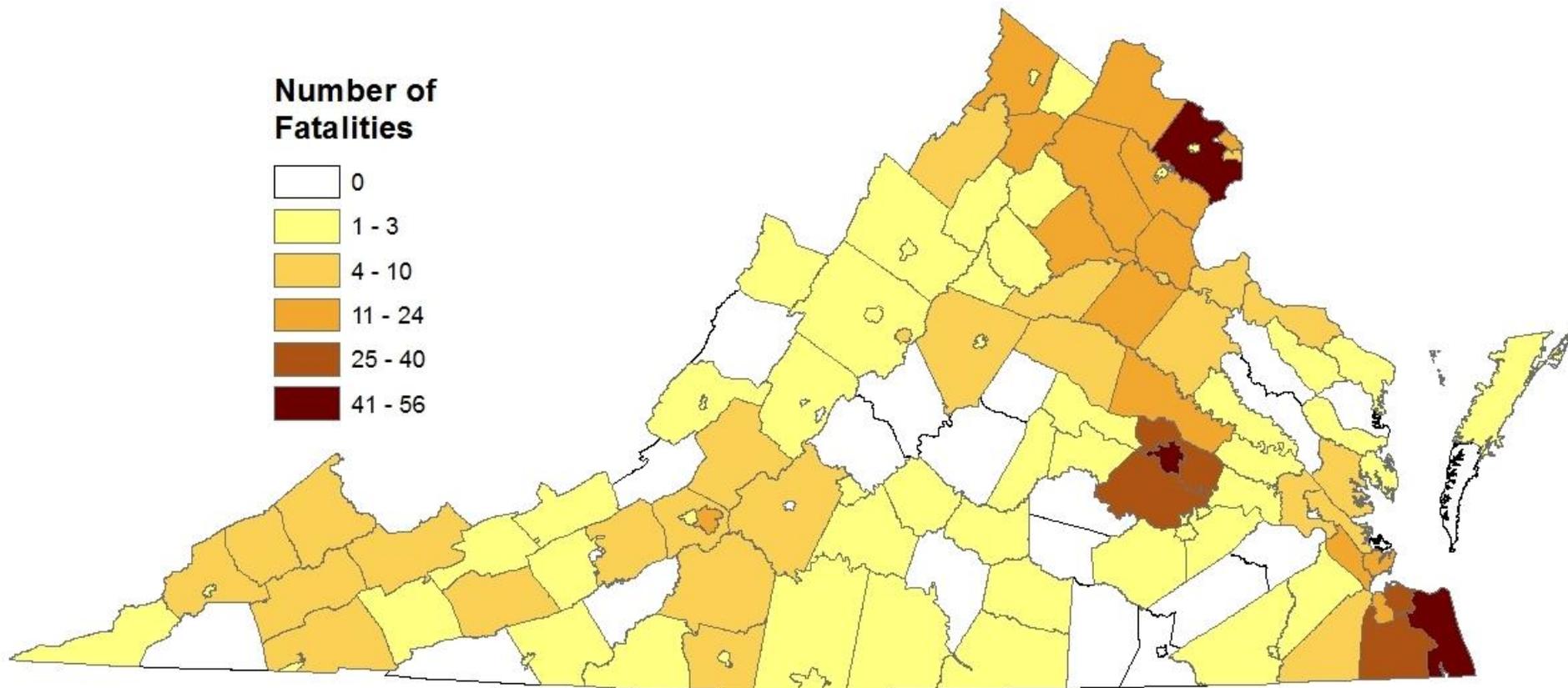
Locality of Residence	Deaths	Rate
Fairfax City	1	4.2
Fairfax County	56	4.9
Falls Church City	0	0.0
Fauquier County	14	20.4
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	1	11.8
Franklin County	4	7.1
Frederick County	15	18.0
Fredericksburg City	6	21.3
Galax City	1	14.5
Giles County	3	18.0
Gloucester County	4	10.8
Goochland County	1	4.5
Grayson County	0	0.0
Greene County	1	5.2
Greensville County	0	0.0
Halifax County	2	5.7
Hampton City	21	15.4
Hanover County	11	10.7
Harrisonburg City	2	3.8
Henrico County	39	12.0
Henry County	5	9.6
Highland County	1	45.2
Hopewell City	2	8.9
Isle of Wight County	3	8.3
James City County	7	9.6
King and Queen County	0	0.0
King George County	5	19.6
King William County	3	18.4
Lancaster County	0	0.0
Lee County	2	8.1
Lexington City	0	0.0
Loudoun County	13	3.5
Louisa County	4	11.6
Lunenburg County	1	8.1
Lynchburg City	2	2.5

Locality of Residence	Deaths	Rate
Madison County	2	15.2
Manassas City	3	7.2
Manassas Park City	0	0.0
Martinsville City	3	22.0
Mathews County	2	22.6
Mecklenburg County	1	3.2
Middlesex County	1	9.4
Montgomery County	5	5.1
Nelson County	0	0.0
New Kent County	2	9.8
Newport News City	18	9.9
Norfolk City	40	16.2
Northampton County	0	0.0
Northumberland County	1	8.2
Norton City	1	25.4
Nottoway County	0	0.0
Orange County	4	11.3
Page County	1	4.2
Patrick County	3	16.6
Petersburg City	2	6.2
Pittsylvania County	3	4.8
Poquoson City	0	0.0
Portsmouth City	16	16.6
Powhatan County	1	3.6
Prince Edward County	1	4.4
Prince George County	2	5.3
Prince William County	24	5.3
Pulaski County	2	5.8
Radford City	0	0.0
Rappahannock County	2	27.1
Richmond City	45	20.4
Richmond County	2	22.5
Roanoke City	21	21.0

Locality of Residence	Deaths	Rate
Roanoke County	4	4.2
Rockbridge County	3	13.4
Rockingham County	3	3.8
Russell County	5	17.9
Salem City	2	7.9
Scott County	0	0.0
Shenandoah County	10	23.2
Smyth County	2	6.4
Southampton County	1	5.5
Spotsylvania County	18	13.8
Stafford County	14	9.9
Staunton City	1	4.1
Suffolk City	6	6.8
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	6	14.0
Virginia Beach City	53	11.7
Warren County	11	28.1
Washington County	8	14.7
Waynesboro City	4	18.6
Westmoreland County	4	22.7
Williamsburg City	0	0.0
Winchester City	2	7.3
Wise County	5	12.6
Wythe County	5	17.2
York County	5	7.4
<i>Subtotal (in-state)</i>	771	9.2
Out of State	37	ND
Unknown	3	ND
<i>Subtotal (out-of-state)</i>	40	ND
TOTAL	811	9.7

Note: No denominator is represented by ND.

Map 5.13 Number of All Fatal Opioid Overdoses by Locality of Residence, 2015



Map 5.14 Rates of All Fatal Opioid Overdoses by Locality of Residence, 2015

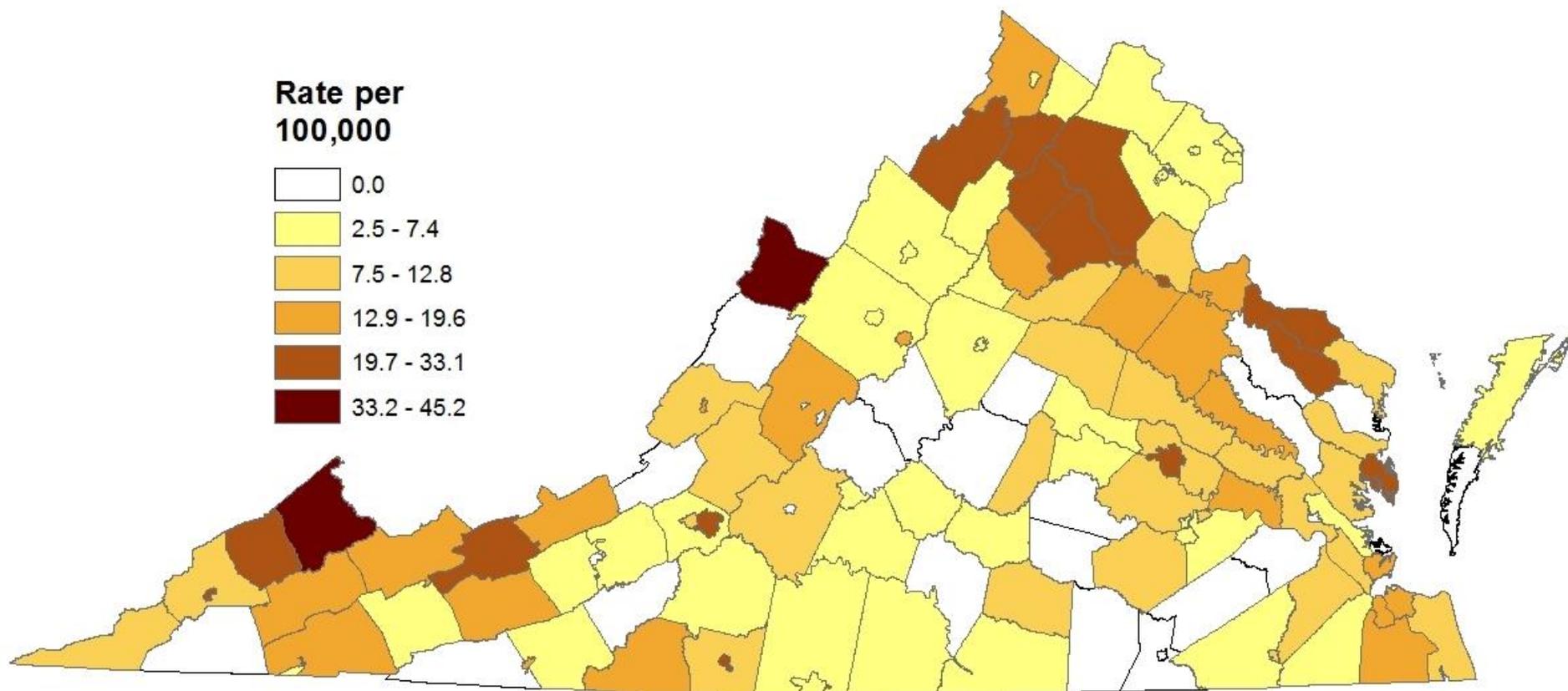


Table 5.20 Number and Rate of All Fatal Opioid Overdoses by Locality of Injury, 2015

Locality of Injury	Deaths	Rate
Accomack County	1	3.0
Albemarle County	3	2.8
Alexandria City	7	4.6
Alleghany County	2	12.8
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.5
Arlington County	13	5.7
Augusta County	2	2.7
Bath County	0	0.0
Bedford County	4	5.1
Bland County	1	15.2
Botetourt County	3	9.0
Bristol City	1	5.8
Brunswick County	0	0.0
Buchanan County	9	39.5
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	4	7.3
Caroline County	2	6.7
Carroll County	1	3.4
Charles City County	1	14.2
Charlotte County	0	0.0
Charlottesville City	3	6.4
Chesapeake City	37	15.7
Chesterfield County	31	9.2
Clarke County	1	7.0
Colonial Heights City	1	5.6
Covington City	1	17.7
Craig County	0	0.0
Culpeper County	11	22.3
Cumberland County	1	10.3
Danville City	2	4.8
Dickenson County	7	46.3
Dinwiddie County	2	7.2
Emporia City	0	0.0
Essex County	0	0.0

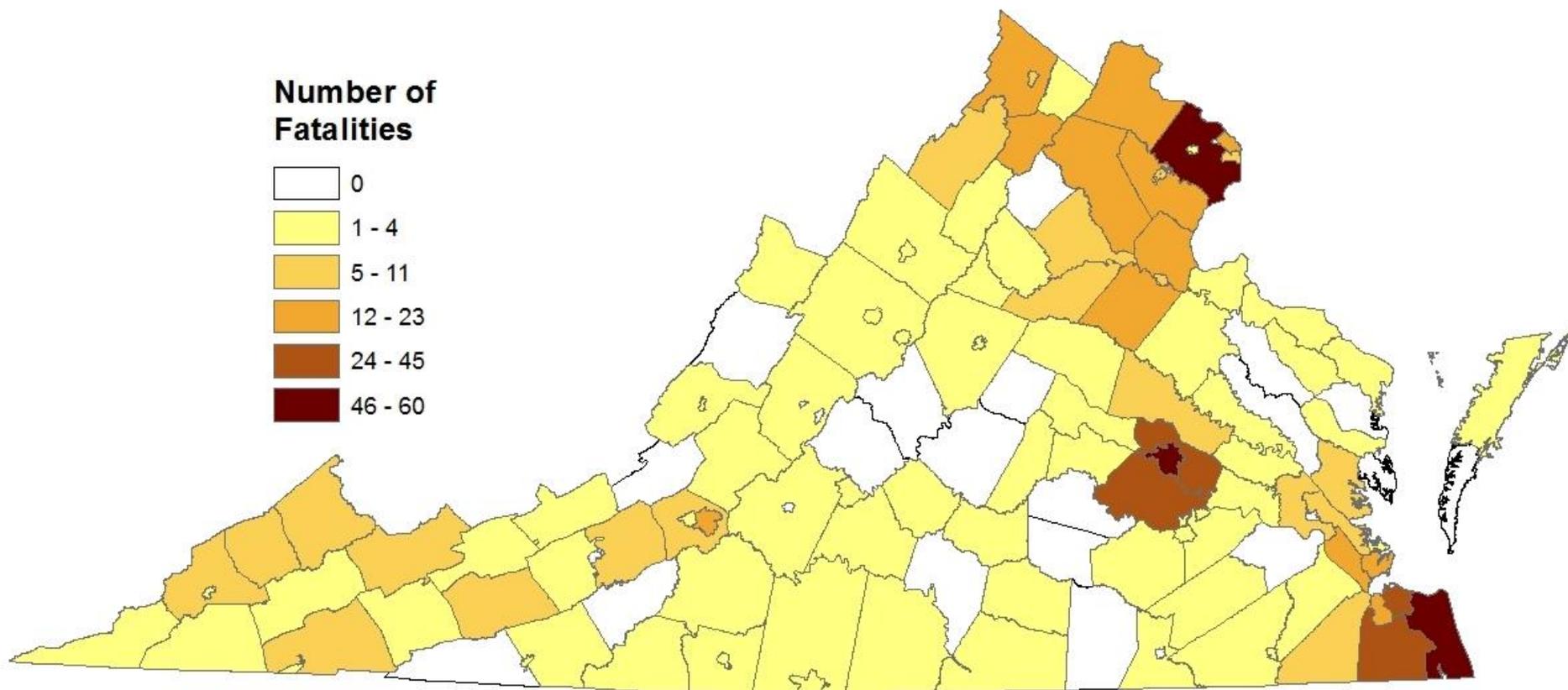
Locality of Injury	Deaths	Rate
Fairfax City	4	16.7
Fairfax County	60	5.3
Falls Church City	0	0.0
Fauquier County	14	20.4
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	1	11.8
Franklin County	3	5.3
Frederick County	12	14.4
Fredericksburg City	7	24.9
Galax City	1	14.5
Giles County	2	12.0
Gloucester County	5	13.5
Goochland County	1	4.5
Grayson County	0	0.0
Greene County	1	5.2
Greensville County	1	8.4
Halifax County	2	5.7
Hampton City	17	12.5
Hanover County	9	8.7
Harrisonburg City	2	3.8
Henrico County	37	11.4
Henry County	3	5.8
Highland County	1	45.2
Hopewell City	2	8.9
Isle of Wight County	2	5.5
James City County	5	6.8
King and Queen County	0	0.0
King George County	3	11.8
King William County	3	18.4
Lancaster County	0	0.0
Lee County	2	8.1
Lexington City	0	0.0
Loudoun County	16	4.3
Louisa County	2	5.8
Lunenburg County	1	8.1
Lynchburg City	2	2.5

Locality of Injury	Deaths	Rate
Madison County	2	15.2
Manassas City	6	14.4
Manassas Park City	1	6.4
Martinsville City	4	29.3
Mathews County	0	0.0
Mecklenburg County	2	6.4
Middlesex County	2	18.9
Montgomery County	5	5.1
Nelson County	0	0.0
New Kent County	1	4.9
Newport News City	19	10.4
Norfolk City	45	18.3
Northampton County	0	0.0
Northumberland County	1	8.2
Norton City	1	25.4
Nottoway County	0	0.0
Orange County	6	17.0
Page County	1	4.2
Patrick County	4	22.2
Petersburg City	3	9.2
Pittsylvania County	3	4.8
Poquoson City	2	16.6
Portsmouth City	18	18.7
Powhatan County	1	3.6
Prince Edward County	1	4.4
Prince George County	2	5.3
Prince William County	22	4.9
Pulaski County	2	5.8
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	56	25.4
Richmond County	1	11.2
Roanoke City	23	23.0

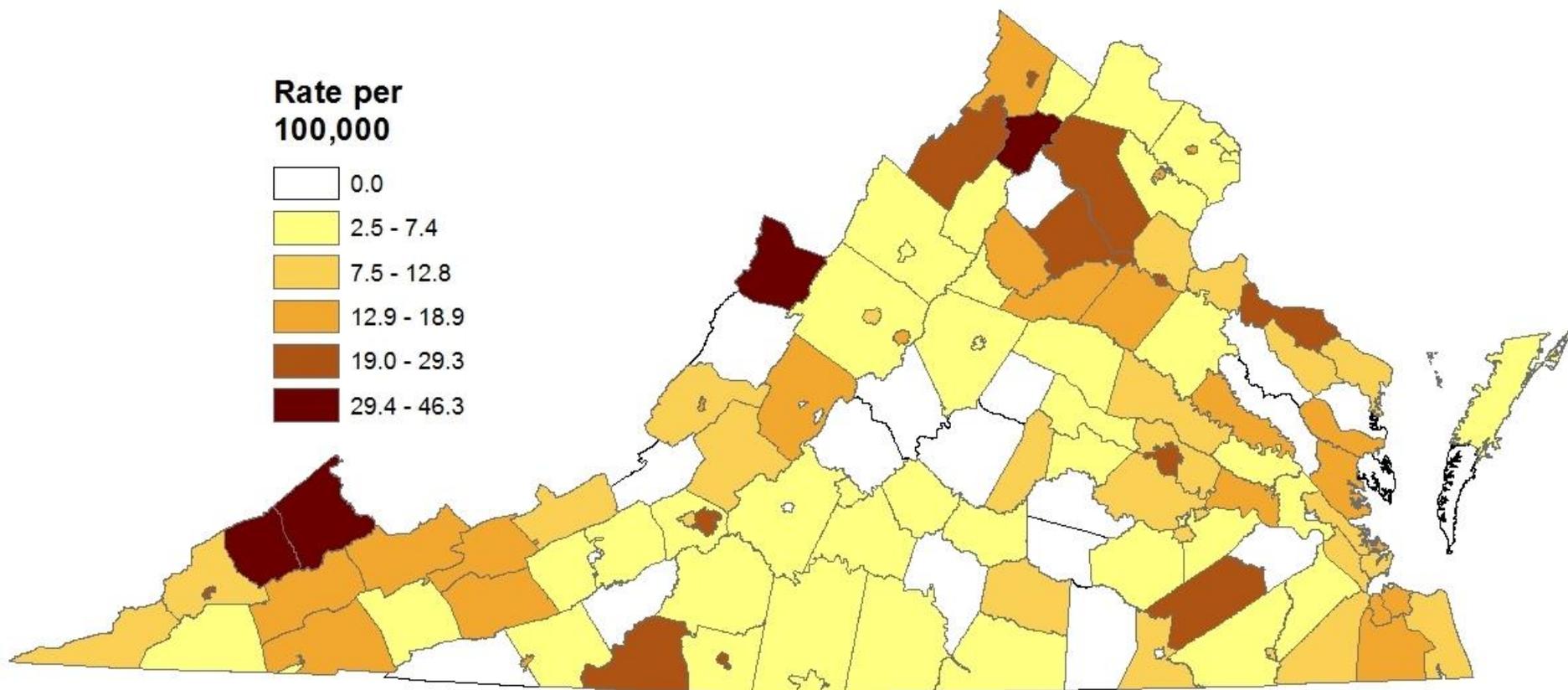
Locality of Injury	Deaths	Rate
Roanoke County	7	7.4
Rockbridge County	3	13.4
Rockingham County	3	3.8
Russell County	4	14.3
Salem City	2	7.9
Scott County	1	4.5
Shenandoah County	11	25.5
Smyth County	2	6.4
Southampton County	1	5.5
Spotsylvania County	18	13.8
Stafford County	17	12.0
Staunton City	2	8.2
Suffolk City	8	9.1
Surry County	0	0.0
Sussex County	3	25.6
Tazewell County	8	18.6
Virginia Beach City	51	11.3
Warren County	14	35.8
Washington County	8	14.7
Waynesboro City	4	18.6
Westmoreland County	4	22.7
Williamsburg City	0	0.0
Winchester City	6	22.0
Wise County	5	12.6
Wythe County	5	17.2
York County	6	8.8
<i>Subtotal (in-state)</i>	800	9.5
Out of State	6	ND
Unknown	5	ND
<i>Subtotal (out-of-state)</i>	11	ND
TOTAL	811	9.7

Note: No denominator is represented by ND.

Map 5.15 Number of All Fatal Opioid Overdoses by Locality of Injury, 2015



Map 5.16 Rates of All Fatal Opioid Overdoses by Locality of Injury, 2015



SECTION 6: GUN RELATED DEATHS (N=940)

Gun related fatalities continue to be one of the top three methods of unnatural death in Virginia since 2007. Generally, gun related homicides have slowly begun to decline, while suicides by gun have slowly begun to increase.

- The majority (66.8%) of gun related deaths were due to suicide
- The Northern OCME region had the lowest number and the lowest rate of gun related death of all manners (5.6 deaths per 100,000 persons), compared to all other OCME district offices
- Males (83.5%), 25-34 year olds (19.8%), and whites (68.2%) had the largest number of gun related deaths; however black males and males aged 20-24 years had the highest rate of gun-related death (29.1 deaths and 32.9 deaths per 100,000 persons, respectively)

Figure 6.1 Number and Rate of Gun Related Deaths by Year of Death, 2007-2015

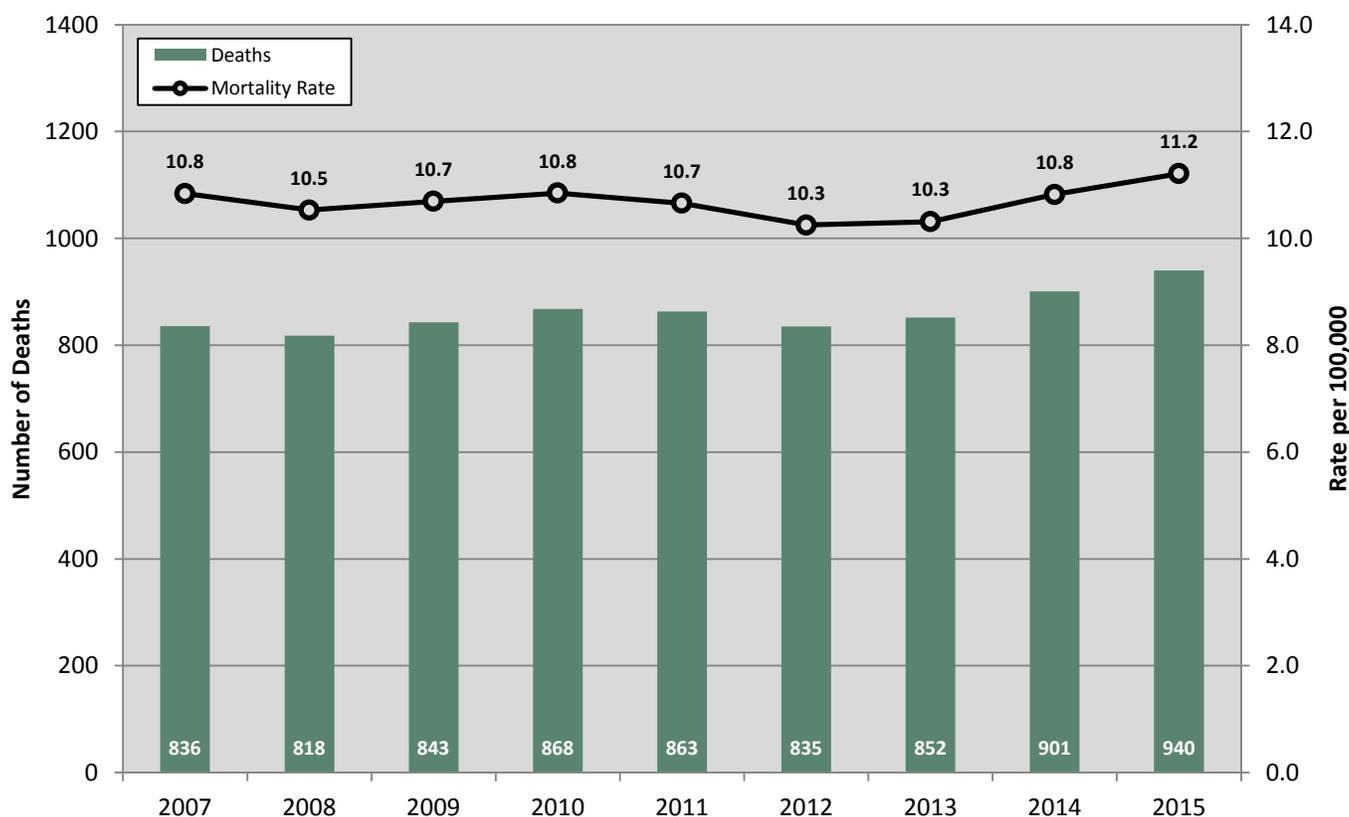


Figure 6.2 Number of Gun Related Deaths by Year and Manner of Death, 2007-2015

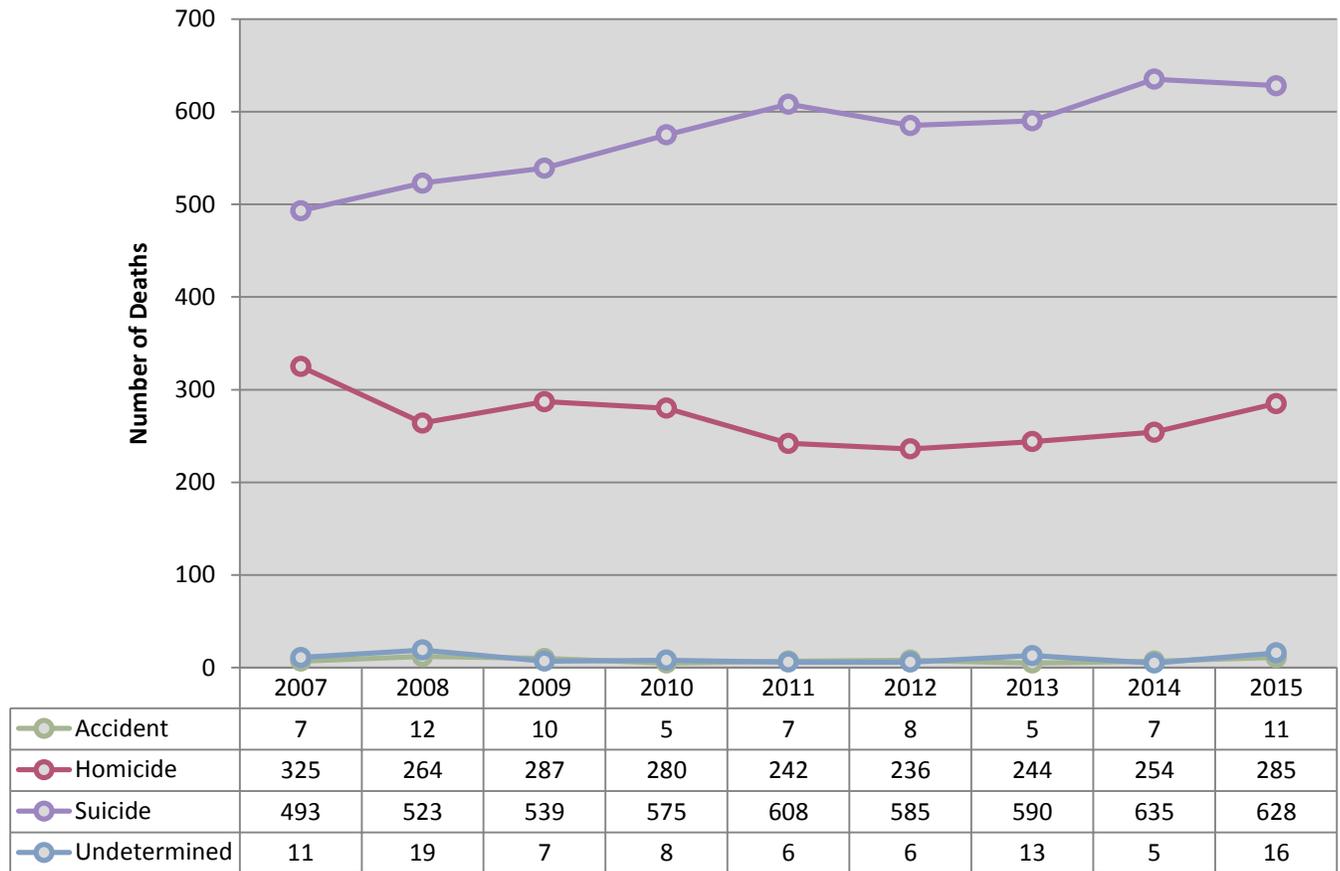


Figure 6.3 Percentage of Gun Related Deaths by Manner of Death, 2015

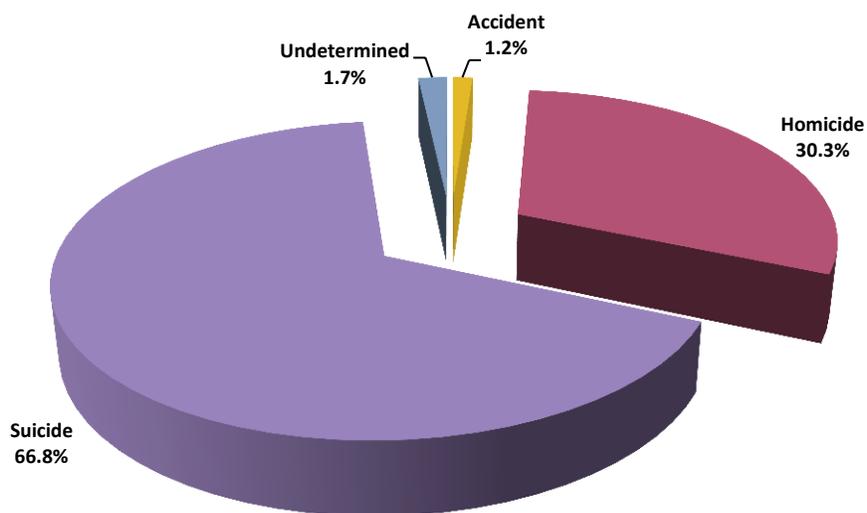


Table 6.1 Number and Rate of Gun Related Deaths by OCME District and Manner of Death, 2015

Manner of Death	Central		Northern		Tidewater		Western		TOTAL	
	n	rate	n	rate	n	rate	n	rate	n	rate
Accident	5	0.2	0	0.0	2	0.1	4	0.2	11	0.1
Homicide	99	4.4	21	0.7	125	7.7	40	2.4	285	3.4
Suicide	200	8.9	132	4.6	110	6.8	186	11.3	628	7.5
Undetermined	1	0.0	6	0.2	4	0.2	5	0.3	16	0.2
TOTAL	305	13.5	159	5.6	241	14.8	235	14.2	940	11.2

Table 6.2 Number of Gun Related Deaths by Gun Type and Manner of Death, 2015

Manner of Death	Handgun	Multiple*	Rifle	Shotgun	Unknown	Total
Accident	8	0	2	1	0	11
Homicide	242	2	9	7	25	285
Suicide	504	0	52	71	1	628
Undetermined	15	0	1	0	0	16
Total	769	2	64	79	26	940

* '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, 2015

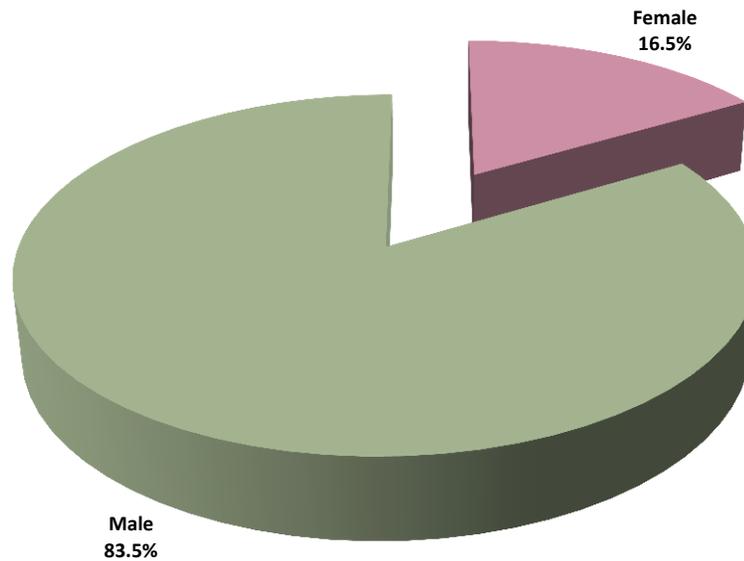


Figure 6.5 Number and Rate of Gun Related Deaths by Age Group and Gender, 2015

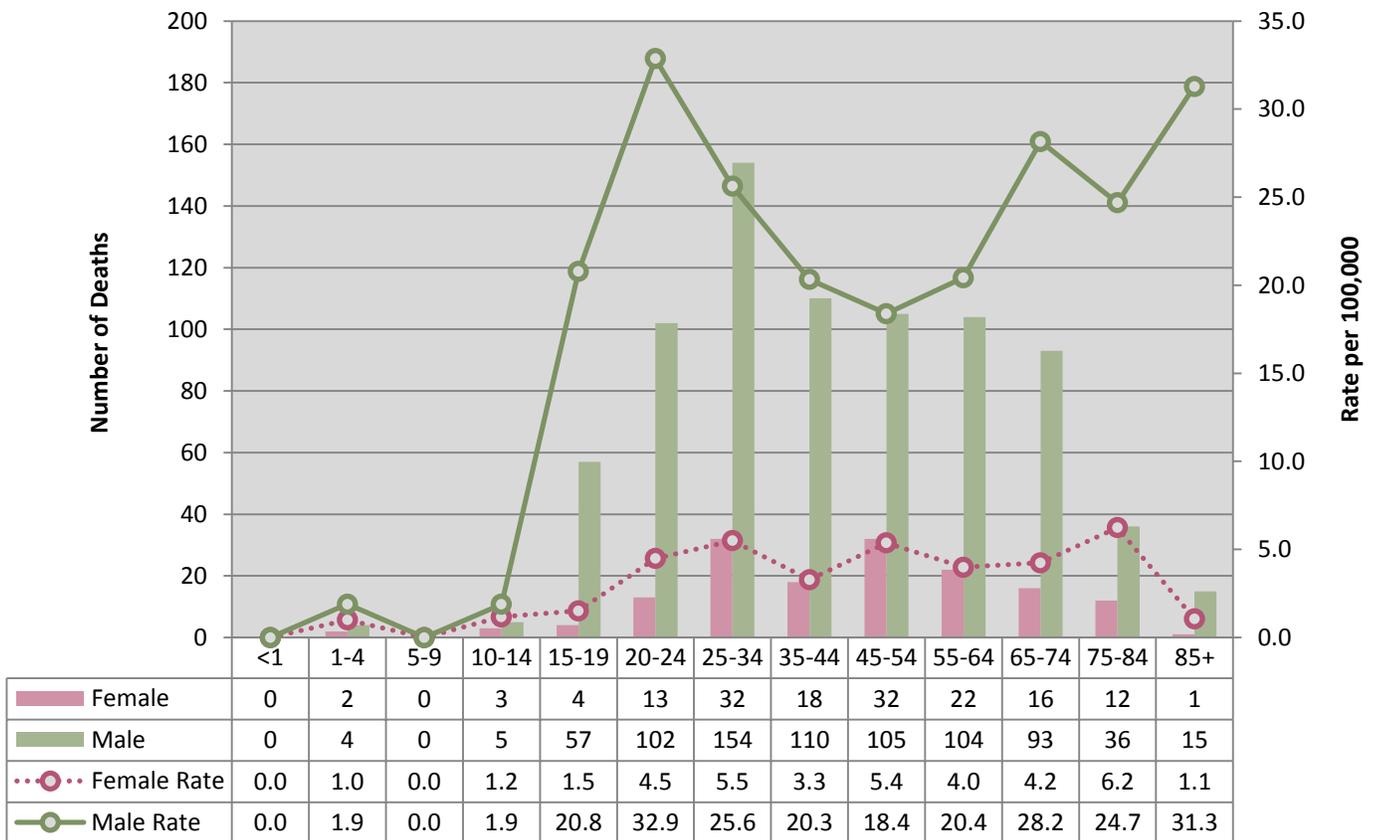


Figure 6.6 Percentage of Gun Related Deaths by Race/Ethnicity, 2015

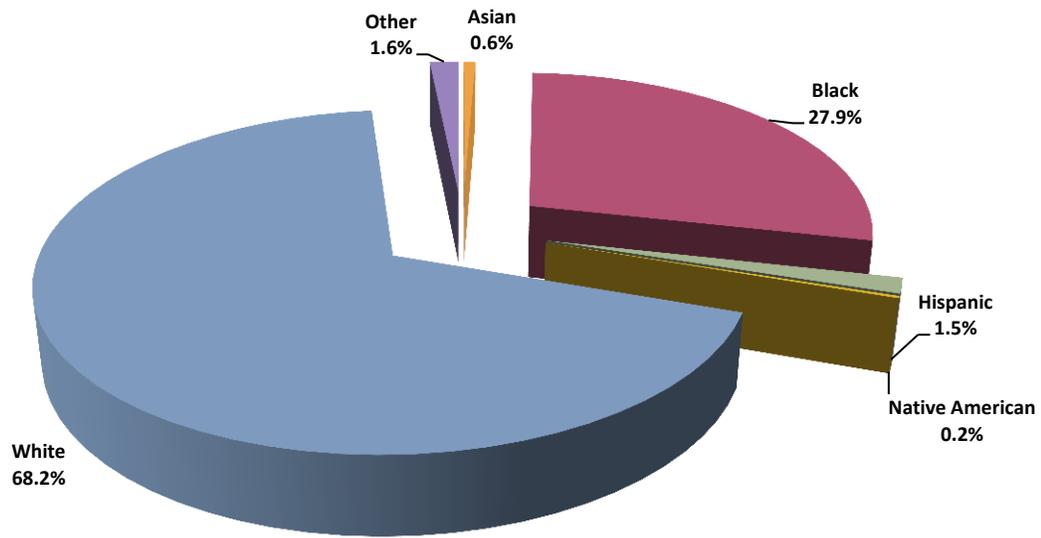
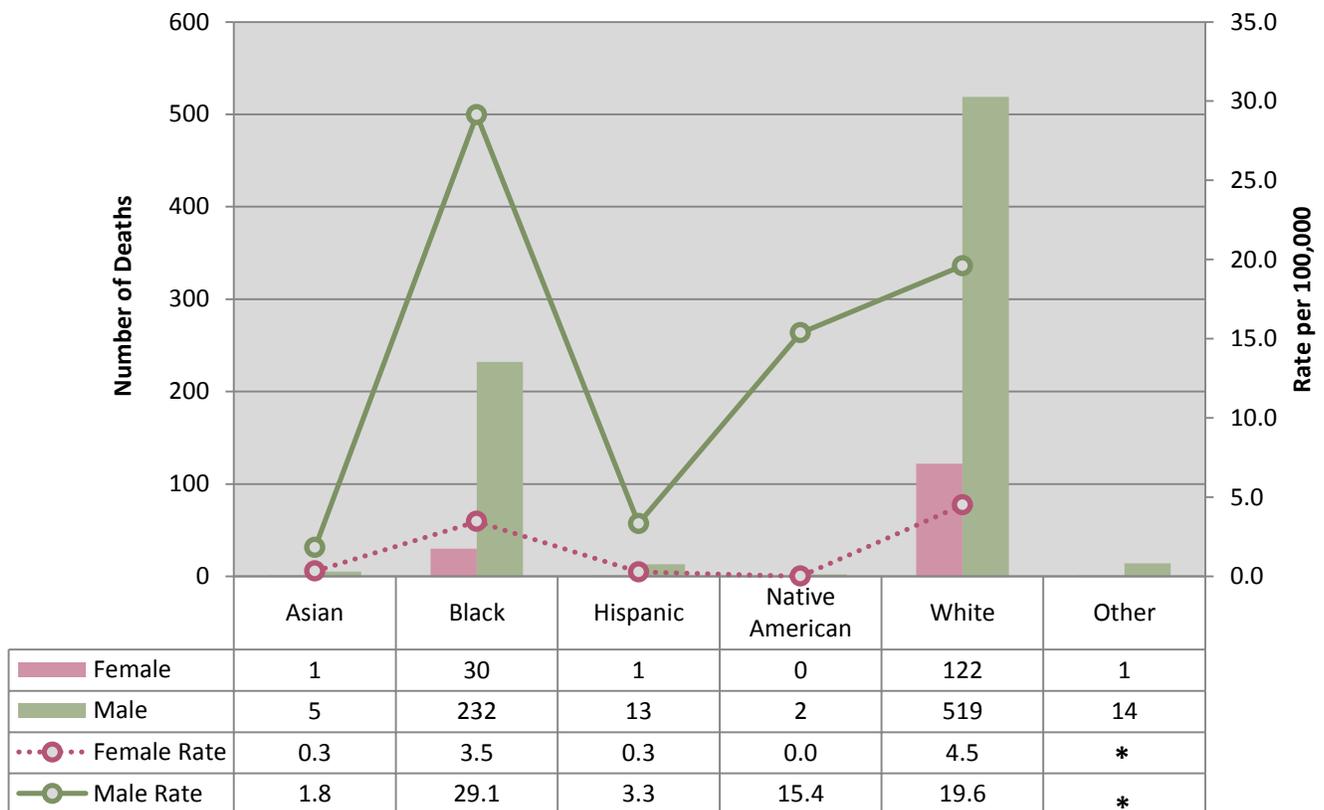


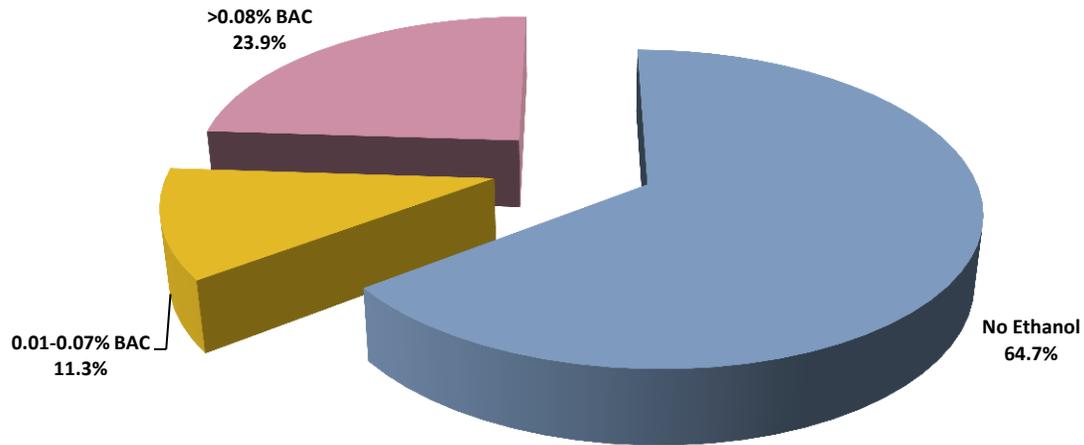
Figure 6.7 Number and Rate of Gun Related Deaths by Race/Ethnicity and Gender, 2015



*No rate can be calculated

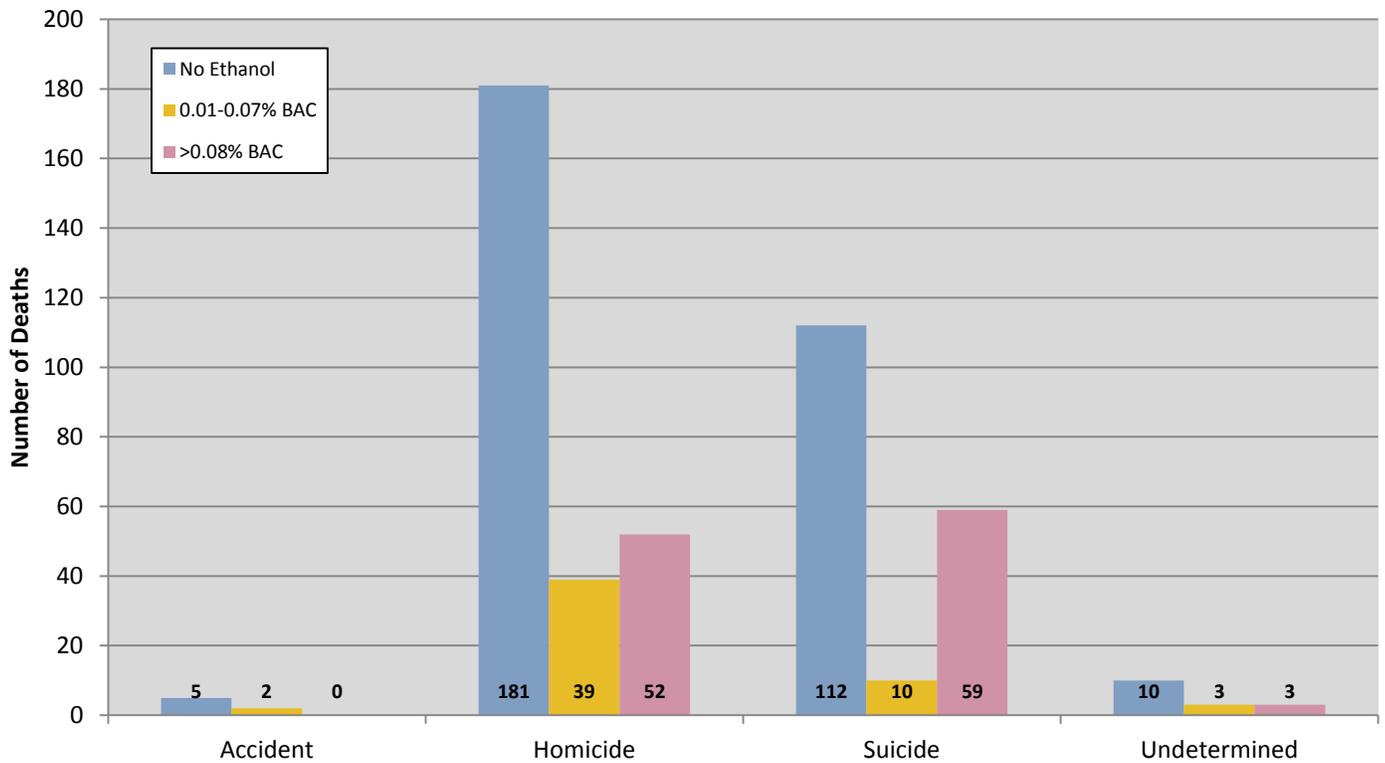
** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Figure 6.8 Percentage of Gun Related Deaths by Ethanol Level (N=476), 2015



Note: Of the 940 gun related fatalities, 49.4% (n=464) did not receive alcohol testing.

Figure 6.9 Number of Gun Related Deaths by Alcohol Level and Manner of Death (N=476), 2015



Note: Of the 940 gun related fatalities, 49.4% (n=464) did not receive alcohol testing.

Figure 6.10 Number of Gun Related Deaths by Month of Death, 2015

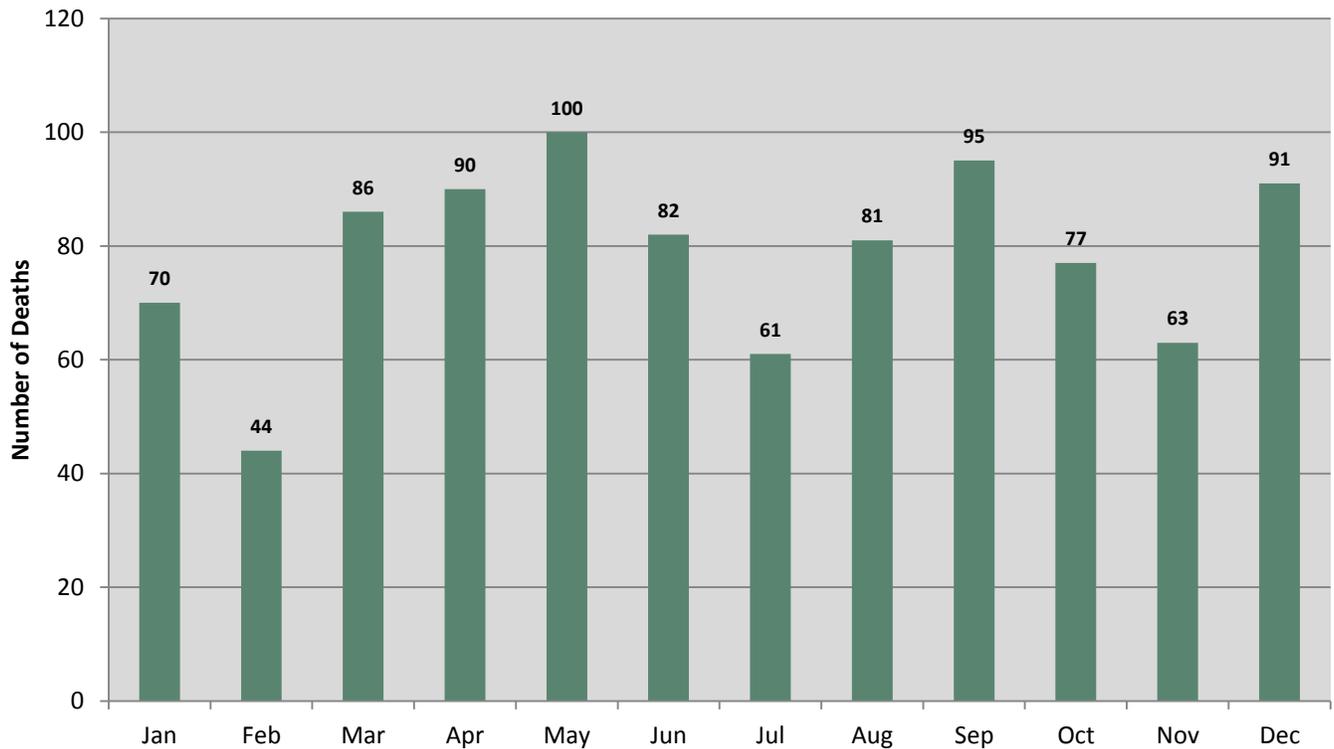


Figure 6.11 Number of Gun Related Deaths by Day of Week, 2015

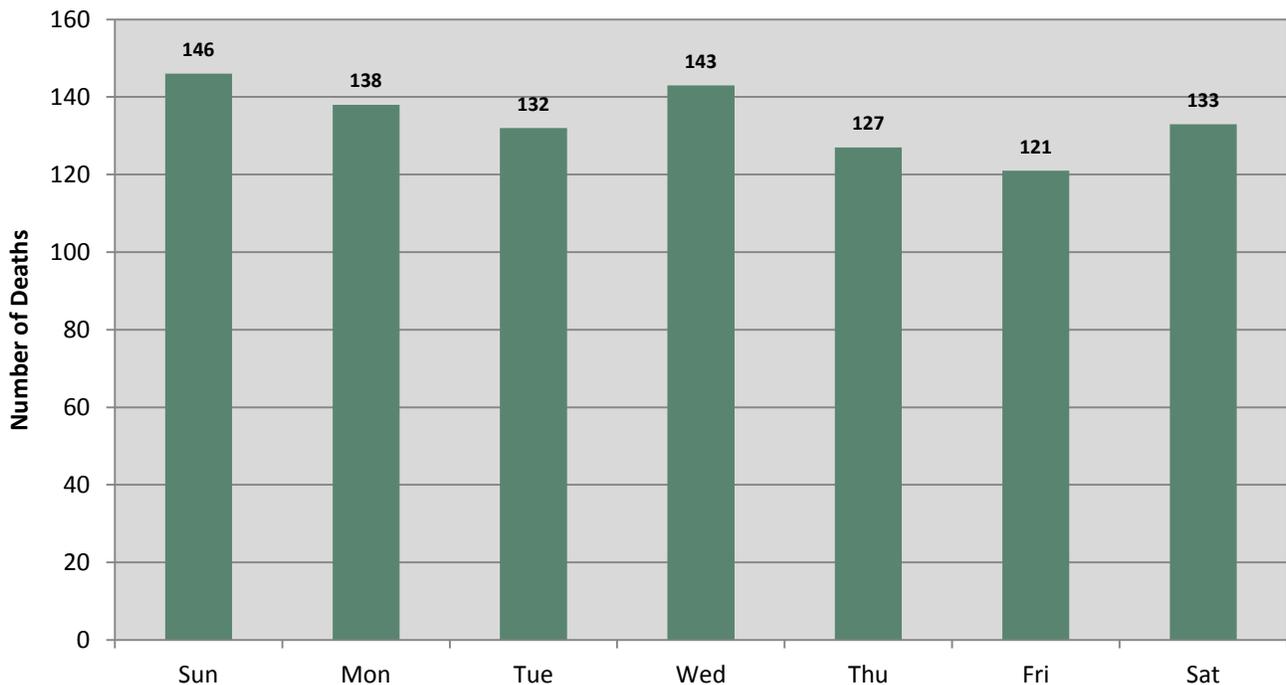


Table 6.3 Number and Rate of Gun Related Deaths by Locality of Residence, 2015

Locality of Residence	Deaths	Rate
Accomack County	7	21.2
Albemarle County	10	9.5
Alexandria City	3	2.0
Alleghany County	2	12.8
Amelia County	6	46.5
Amherst County	1	3.1
Appomattox County	7	45.4
Arlington County	7	3.1
Augusta County	14	18.8
Bath County	1	22.4
Bedford County	16	20.6
Bland County	1	15.2
Botetourt County	7	21.0
Bristol City	0	0.0
Brunswick County	2	12.0
Buchanan County	4	17.6
Buckingham County	2	11.7
Buena Vista City	1	15.1
Campbell County	9	16.3
Caroline County	5	16.7
Carroll County	5	16.8
Charles City County	2	28.4
Charlotte County	3	24.6
Charlottesville City	4	8.6
Chesapeake City	37	15.7
Chesterfield County	32	9.5
Clarke County	2	13.9
Colonial Heights City	4	22.4
Covington City	0	0.0
Craig County	1	19.2
Culpeper County	7	14.2
Cumberland County	0	0.0
Danville City	6	14.3
Dickenson County	1	6.6
Dinwiddie County	10	35.9
Emporia City	0	0.0
Essex County	0	0.0

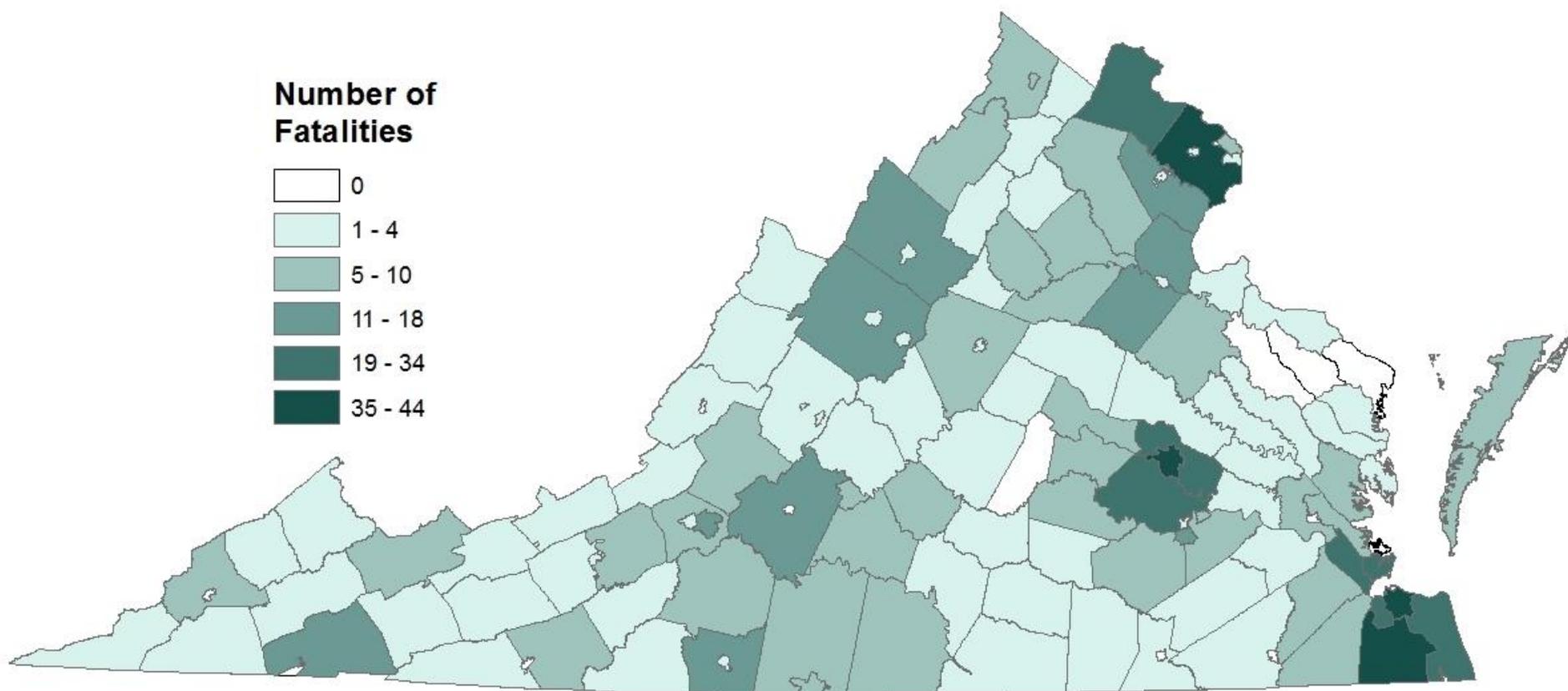
Locality of Residence	Deaths	Rate
Fairfax City	1	4.2
Fairfax County	39	3.4
Falls Church City	0	0.0
Fauquier County	5	7.3
Floyd County	3	19.2
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	10	17.8
Frederick County	9	10.8
Fredericksburg City	3	10.7
Galax City	0	0.0
Giles County	2	12.0
Gloucester County	8	21.5
Goochland County	5	22.5
Grayson County	2	12.5
Greene County	1	5.2
Greensville County	1	8.4
Halifax County	6	17.1
Hampton City	28	20.5
Hanover County	4	3.9
Harrisonburg City	1	1.9
Henrico County	31	9.5
Henry County	11	21.2
Highland County	1	45.2
Hopewell City	5	22.3
Isle of Wight County	5	13.8
James City County	9	12.3
King and Queen County	1	14.0
King George County	2	7.8
King William County	4	24.6
Lancaster County	2	18.2
Lee County	4	16.2
Lexington City	1	13.8
Loudoun County	23	6.1
Louisa County	4	11.6
Lunenburg County	3	24.4
Lynchburg City	6	7.5

Locality of Residence	Deaths	Rate
Madison County	6	45.7
Manassas City	4	9.6
Manassas Park City	1	6.4
Martinsville City	2	14.7
Mathews County	2	22.6
Mecklenburg County	3	9.7
Middlesex County	3	28.3
Montgomery County	7	7.2
Nelson County	1	6.8
New Kent County	4	19.6
Newport News City	28	15.4
Norfolk City	44	17.9
Northampton County	5	41.1
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	3	19.1
Orange County	7	19.8
Page County	4	16.9
Patrick County	4	22.2
Petersburg City	14	43.1
Pittsylvania County	9	14.5
Poquoson City	0	0.0
Portsmouth City	27	28.1
Powhatan County	5	17.8
Prince Edward County	3	13.1
Prince George County	5	13.2
Prince William County	18	4.0
Pulaski County	2	5.8
Radford City	1	5.7
Rappahannock County	2	27.1
Richmond City	42	19.1
Richmond County	0	0.0
Roanoke City	17	17.0
Roanoke County	9	9.5
Rockbridge County	3	13.4
Rockingham County	13	16.5
Russell County	3	10.8
Salem City	3	11.8
Scott County	3	13.6

Locality of Residence	Deaths	Rate
Shenandoah County	6	13.9
Smyth County	4	12.7
Southampton County	2	11.0
Spotsylvania County	14	10.7
Stafford County	16	11.3
Staunton City	2	8.2
Suffolk City	8	9.1
Surry County	1	14.9
Sussex County	1	8.5
Tazewell County	6	14.0
Virginia Beach City	34	7.5
Warren County	3	7.7
Washington County	11	20.1
Waynesboro City	2	9.3
Westmoreland County	1	5.7
Williamsburg City	0	0.0
Winchester City	5	18.3
Wise County	8	20.1
Wythe County	4	13.7
York County	7	10.3
<i>Subtotal (in-state)</i>	902	10.8
Out of State	35	ND
Unknown	3	ND
<i>Subtotal (out-of-state)</i>	38	ND
TOTAL	940	11.2

Note: No denominator is represented by ND

Map 6.1 Number of Gun Related Deaths by Locality of Residence, 2015



Map 6.2 Rates of Gun Related Death by Locality of Residence, 2015

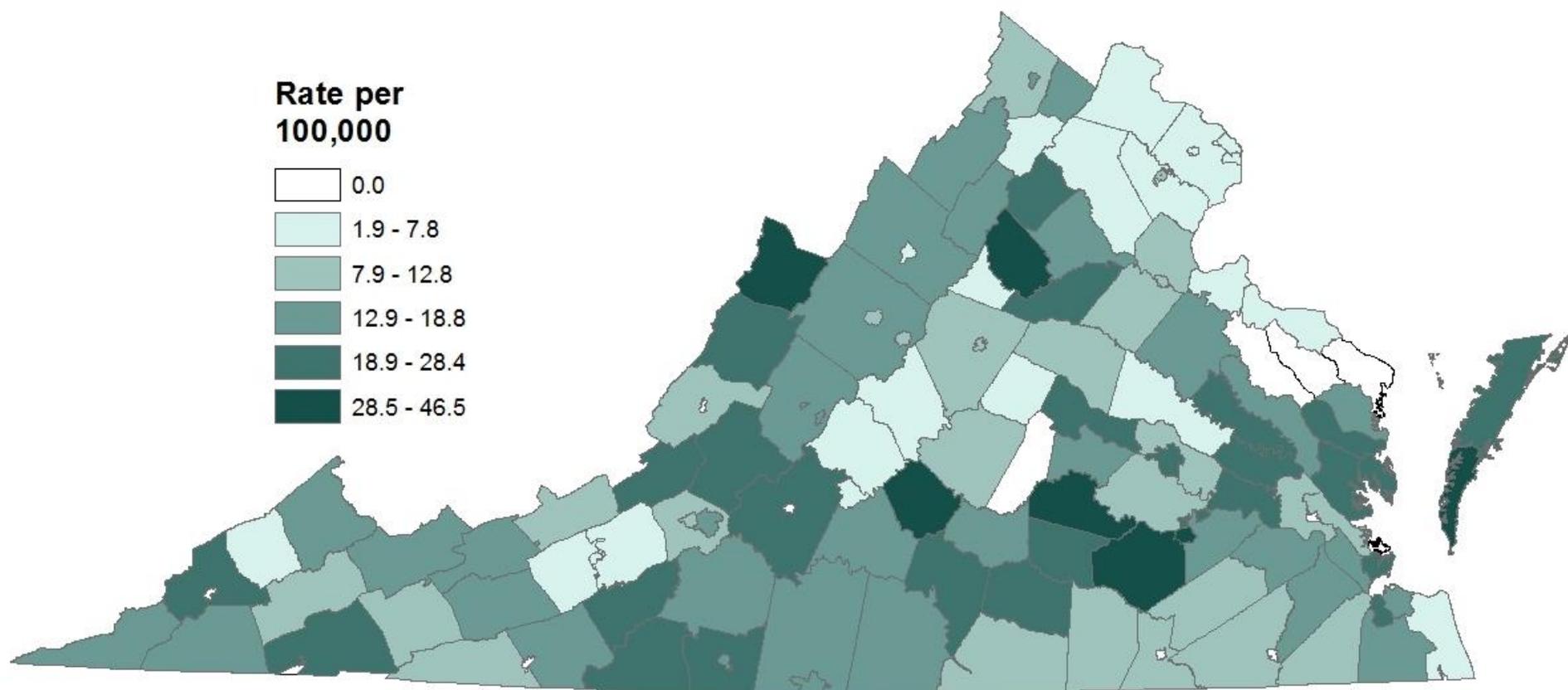


Table 6.4 Number and Rate of Gun Related Deaths by Locality of Injury, 2015

Locality of Injury	Deaths	Rate
Accomack County	7	21.2
Albemarle County	9	8.5
Alexandria City	4	2.6
Alleghany County	2	12.8
Amelia County	6	46.5
Amherst County	1	3.1
Appomattox County	7	45.4
Arlington County	7	3.1
Augusta County	15	20.2
Bath County	2	44.7
Bedford County	14	18.0
Bland County	3	45.7
Botetourt County	7	21.0
Bristol City	0	0.0
Brunswick County	2	12.0
Buchanan County	4	17.6
Buckingham County	2	11.7
Buena Vista City	1	15.1
Campbell County	9	16.3
Caroline County	7	23.3
Carroll County	5	16.8
Charles City County	2	28.4
Charlotte County	3	24.6
Charlottesville City	5	10.7
Chesapeake City	28	11.9
Chesterfield County	26	7.7
Clarke County	3	20.9
Colonial Heights City	4	22.4
Covington City	0	0.0
Craig County	1	19.2
Culpeper County	8	16.2
Cumberland County	0	0.0
Danville City	7	16.6
Dickenson County	2	13.2
Dinwiddie County	7	25.1
Emporia City	1	18.2
Essex County	0	0.0

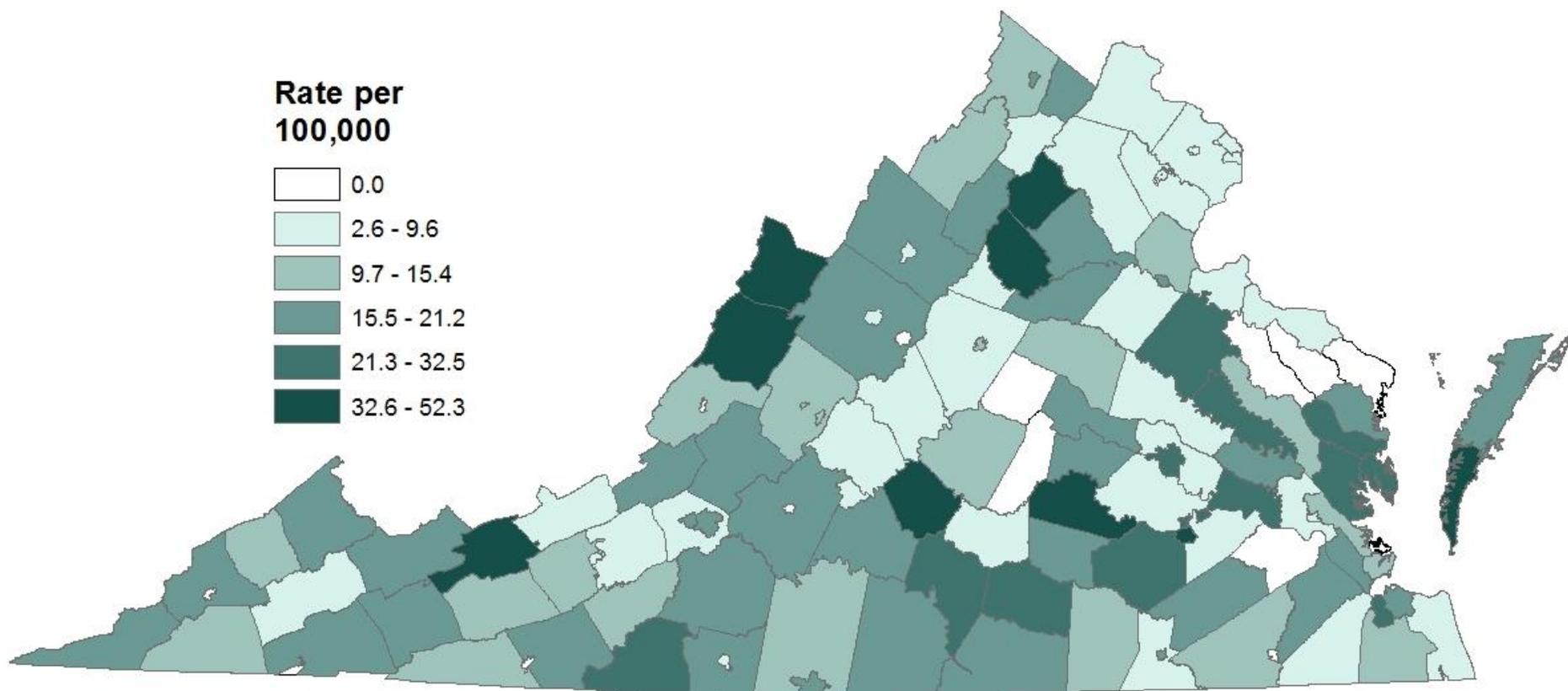
Locality of Injury	Deaths	Rate
Fairfax City	1	4.2
Fairfax County	39	3.4
Falls Church City	0	0.0
Fauquier County	6	8.7
Floyd County	2	12.8
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	11	19.6
Frederick County	9	10.8
Fredericksburg City	5	17.8
Galax City	0	0.0
Giles County	1	6.0
Gloucester County	9	24.2
Goochland County	4	18.0
Grayson County	2	12.5
Greene County	1	5.2
Greensville County	1	8.4
Halifax County	6	17.1
Hampton City	21	15.4
Hanover County	7	6.8
Harrisonburg City	3	5.7
Henrico County	31	9.5
Henry County	10	19.3
Highland County	1	45.2
Hopewell City	5	22.3
Isle of Wight County	6	16.5
James City County	5	6.8
King and Queen County	1	14.0
King George County	1	3.9
King William County	4	24.6
Lancaster County	2	18.2
Lee County	5	20.2
Lexington City	1	13.8
Loudoun County	24	6.4
Louisa County	4	11.6
Lunenburg County	4	32.5
Lynchburg City	7	8.8

Locality of Injury	Deaths	Rate
Madison County	6	45.7
Manassas City	4	9.6
Manassas Park City	0	0.0
Martinsville City	1	7.3
Mathews County	2	22.6
Mecklenburg County	5	16.1
Middlesex County	3	28.3
Montgomery County	7	7.2
Nelson County	1	6.8
New Kent County	4	19.6
Newport News City	38	20.8
Norfolk City	44	17.9
Northampton County	5	41.1
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	3	19.1
Orange County	7	19.8
Page County	5	21.1
Patrick County	5	27.7
Petersburg City	17	52.3
Pittsylvania County	9	14.5
Poquoson City	0	0.0
Portsmouth City	29	30.1
Powhatan County	5	17.8
Prince Edward County	2	8.7
Prince George County	3	7.9
Prince William County	17	3.8
Pulaski County	5	14.6
Radford City	1	5.7
Rappahannock County	3	40.7
Richmond City	51	23.2
Richmond County	0	0.0
Roanoke City	18	18.0
Roanoke County	8	8.5
Rockbridge County	3	13.4
Rockingham County	14	17.8
Russell County	2	7.2
Salem City	4	15.7
Scott County	3	13.6

Locality of Injury	Deaths	Rate
Shenandoah County	6	13.9
Smyth County	5	15.9
Southampton County	2	11.0
Spotsylvania County	11	8.4
Stafford County	18	12.7
Staunton City	2	8.2
Suffolk City	7	7.9
Surry County	0	0.0
Sussex County	2	17.1
Tazewell County	7	16.3
Virginia Beach City	40	8.8
Warren County	3	7.7
Washington County	10	18.3
Waynesboro City	0	0.0
Westmoreland County	1	5.7
Williamsburg City	1	6.6
Winchester City	5	18.3
Wise County	7	17.6
Wythe County	3	10.3
York County	8	11.8
<i>Subtotal (in-state)</i>	922	11.0
Out of State	15	ND
Unknown	3	ND
<i>Subtotal (out-of-state)</i>	18	ND
TOTAL	940	11.2

Note: No denominator is represented by ND

Map 6.4 Number of Gun Related Deaths by Locality of Injury, 2015



SECTION 7: IN-CUSTODY (PRISONER) DEATHS (N=155)

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 155 in-custody deaths in 2015.

- The majority (73.5%) of in-custody deaths were natural deaths
- The vast majority of deaths were male (95.5%) and black (49.7%)

Figure 7.1 Percentage of In-Custody Deaths by Manner of Death, 2015

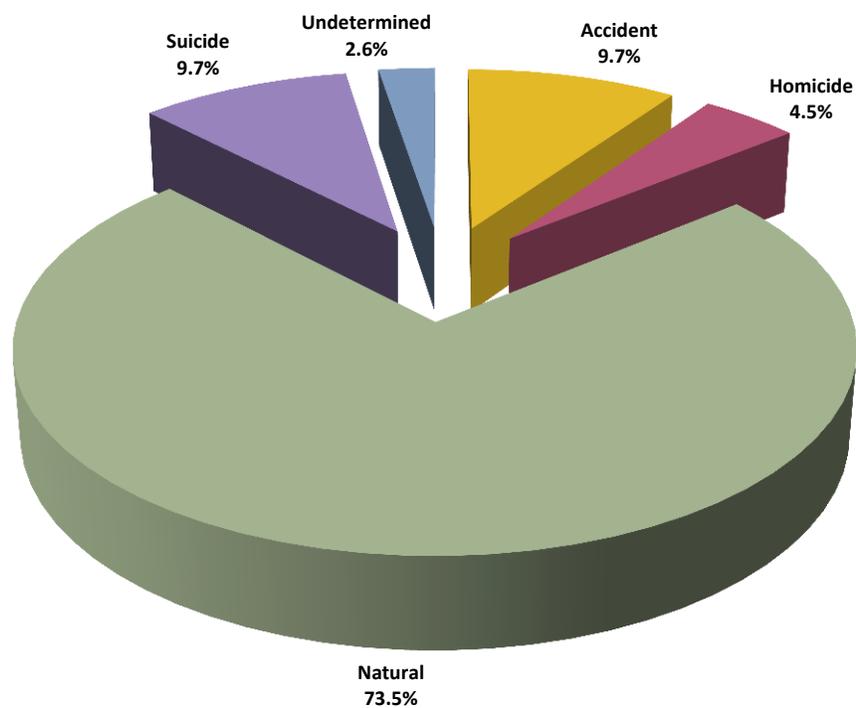


Figure 7.2 Percentage of In-Custody Deaths by Race/Ethnicity, 2015

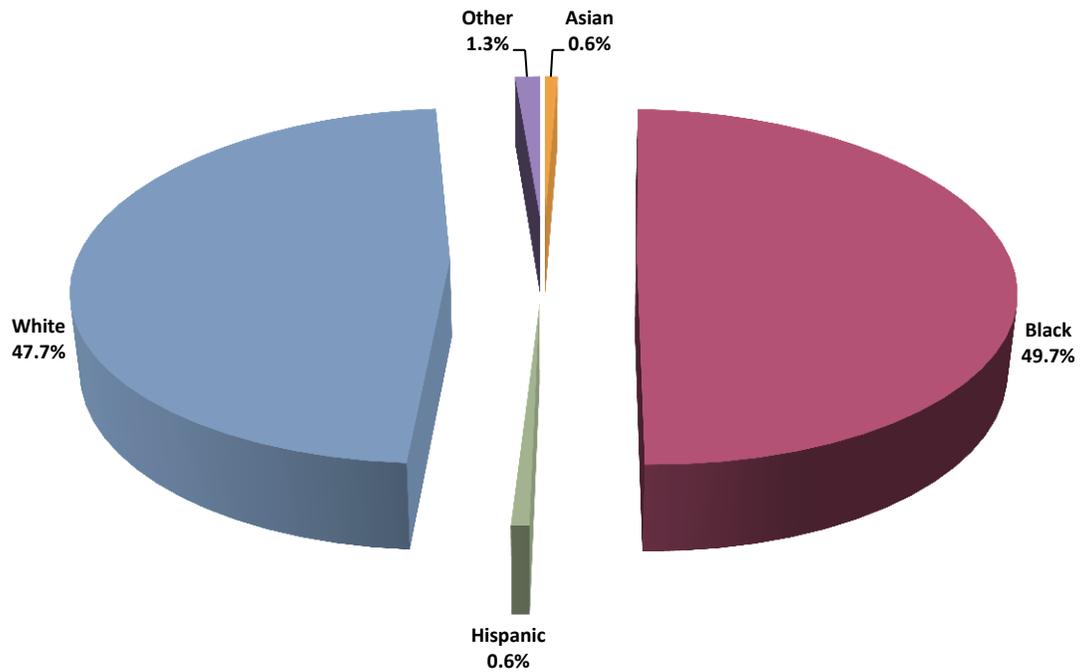


Figure 7.3 Number of In-Custody Deaths by Age Group and Gender, 2015

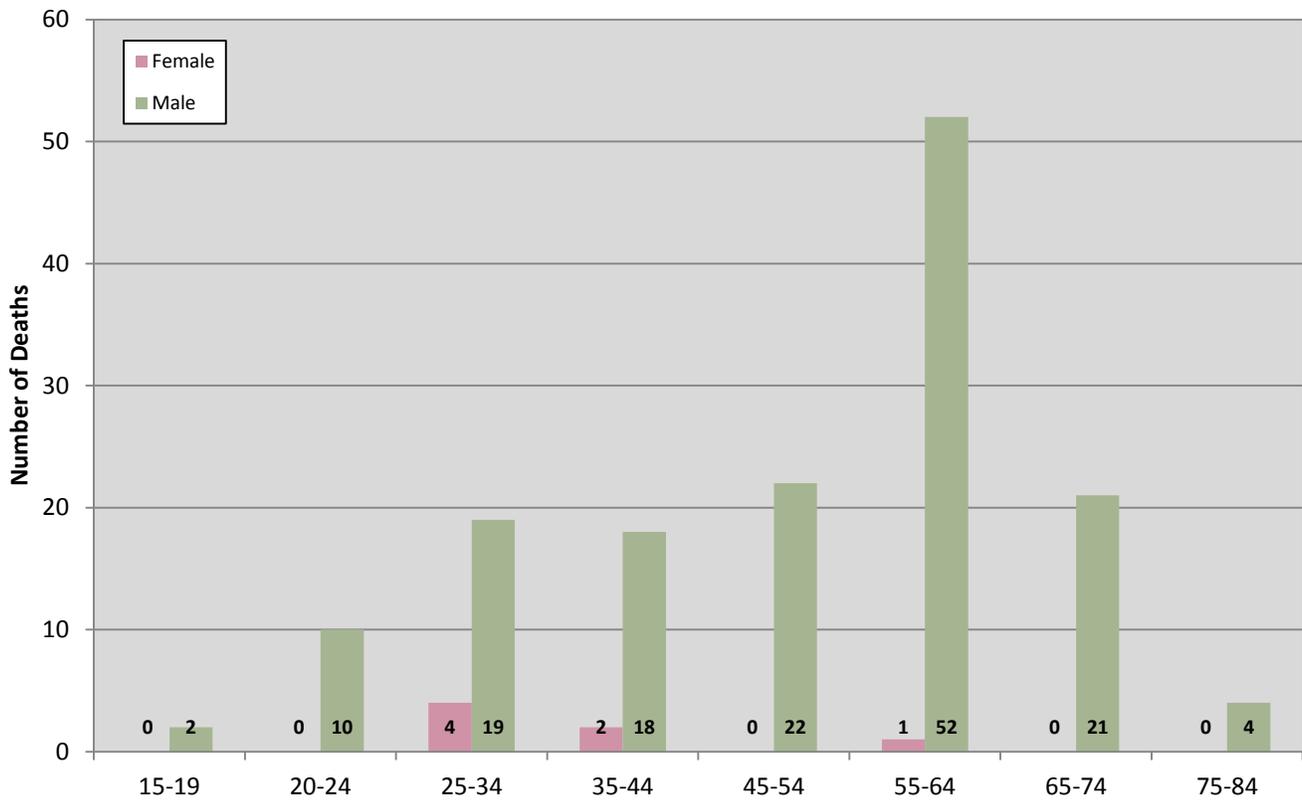


Figure 7.4 Number of In-Custody Deaths by Manner and Race/Ethnicity, 2015

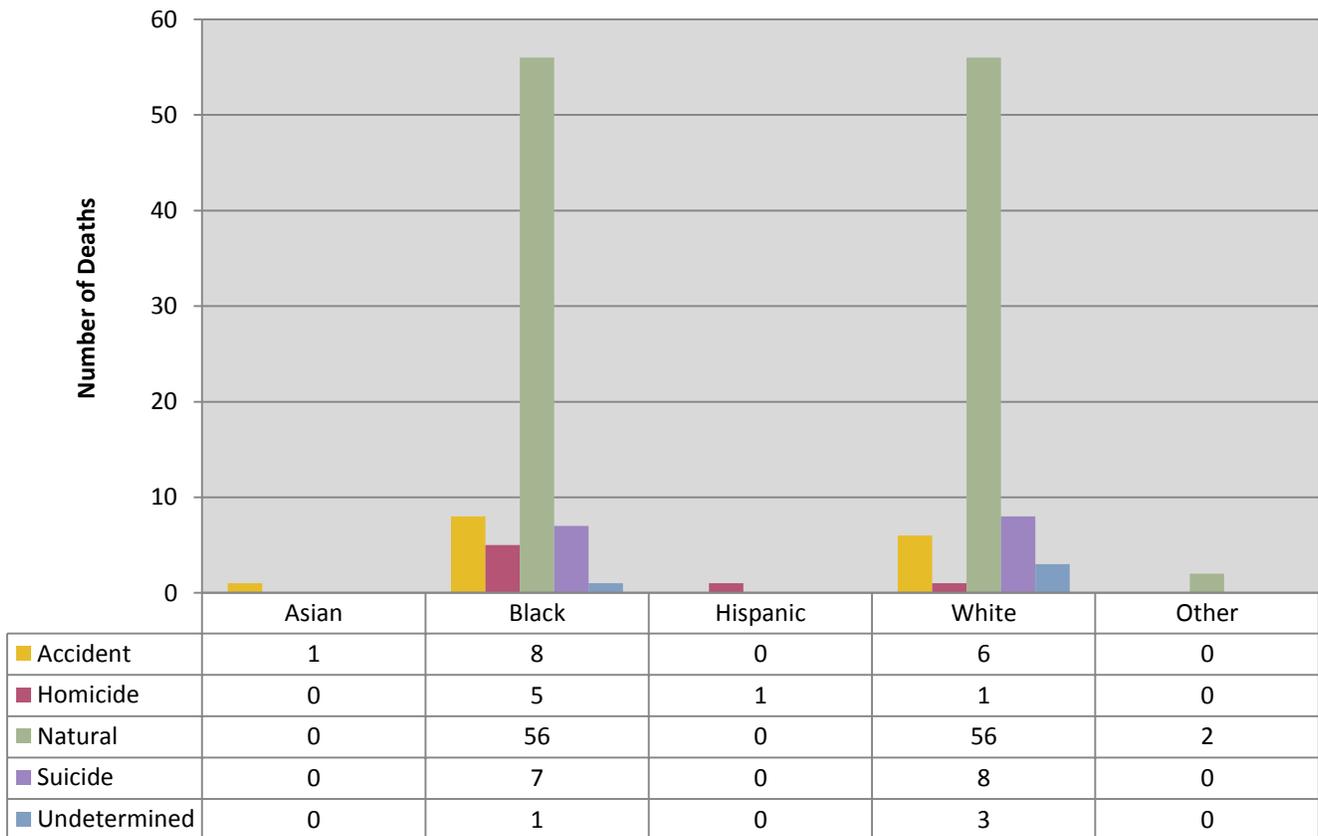


Table 7.1 Number of In-Custody Deaths by Cause and Method of Death, 2015

NATURAL DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	2	6
Atherosclerosis and hypertension	14	15
Cardiac arrhythmia (not specified)	2	2
Cardiomyopathy (not specified)	1	1
Hypertension	2	6
Valvular	1	1
Vascular dissection/rupture	2	2
Other cardiac disease/disorder	2	4
Central Nervous System Diseases/Disorders		
Vascular disease	0	4
Other CNS disease/disorder	0	2
Gastrointestinal Diseases/Disorders		
Cirrhosis	4	10
GI Malignancy	7	15
Hepatitis	2	5
Other GI disease/disorder	3	6
Genitourinal Diseases/Disorders		
Renal disease	3	4
Other genitourinal disease/disorder	3	3
Pulmonary Disease/Disorders		
COPD	1	1
Emboli	2	2
Pneumonia	1	2
Other pulmonary disease/disorder	8	14
Systemic Diseases/Disorders		
AIDS/HIV	0	1
Blood disorders	1	2
Chronic alcoholism	1	1
Chronic drug abuse	1	1
Diabetes	1	1
Sepsis	1	3
Other systemic disease/disorder		
Other Natural Death/Disorder		
Other malignancy	1	2
<i>Natural Death Subtotal</i>	66	116
UNDETERMINED DEATHS		
Undetermined After Autopsy and/or Investigation		
Other undetermined	3	3
<i>Undetermined Death Subtotal</i>	3	3

UNNATURAL DEATHS		
Asphyxia		
Hanged	15	15
Drug Use		
Illegal (Street) drug poisoning	6	6
Mixed drug poisoning	2	2
Prescription drug poisoning	3	3
Judicial Execution		
Lethal Injection	1	1
Traumatic Injury		
Blunt force trauma	1	2
Gunshot wound	6	6
Sharp force injury	1	1
<i>Unnatural Death Subtotal</i>	35	36
TOTAL OCME DEATHS	104	155

SECTION 8: STATE MENTAL HEALTH DEATHS (N=72)

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 72 state mental health resident deaths in 2015.

- The majority of state mental health deaths were natural (94.4%), white (66.7%) and male (63.9%)

Figure 8.1 Percentage of State Mental Health Deaths by Manner, 2015

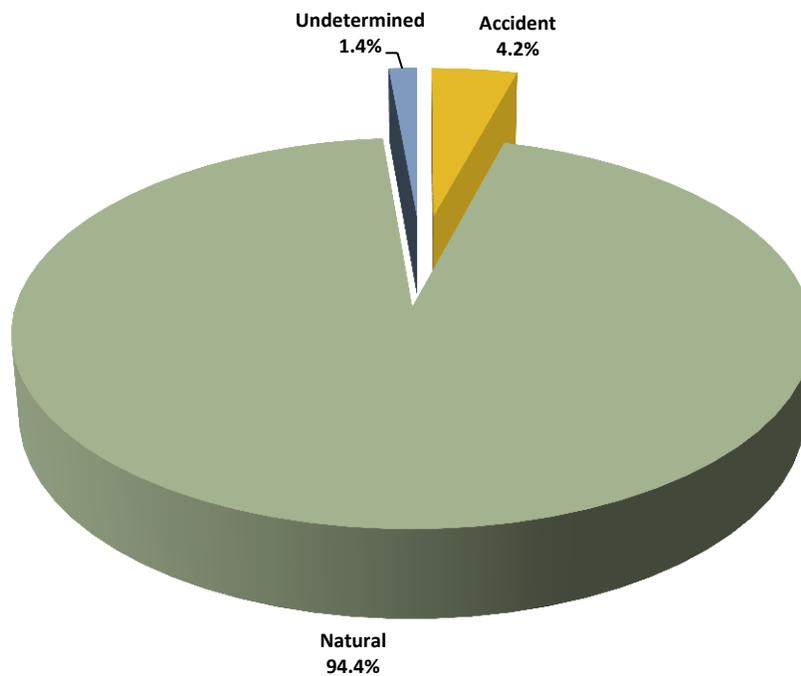


Figure 8.2 Percentage of State Mental Health Deaths by Race/Ethnicity, 2015

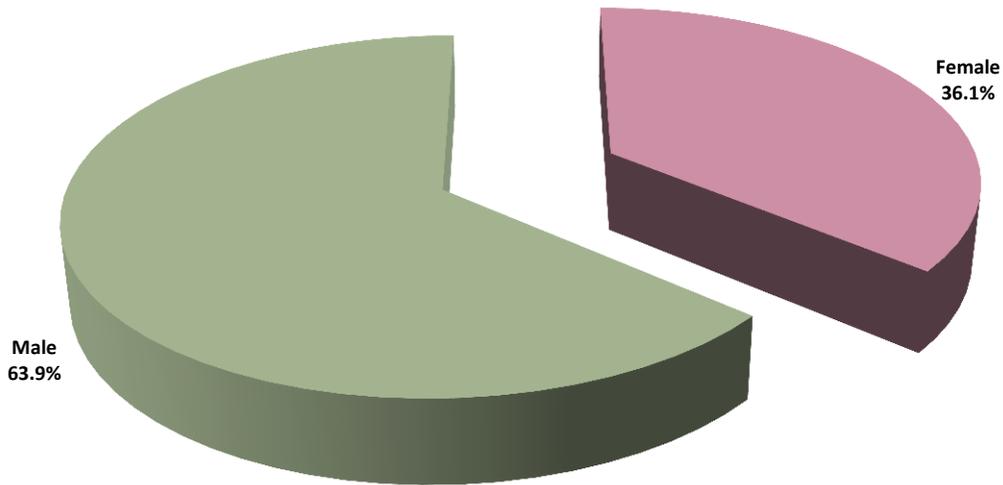


Figure 8.3 Number of State Mental Health Deaths by Age Group and Gender, 2015

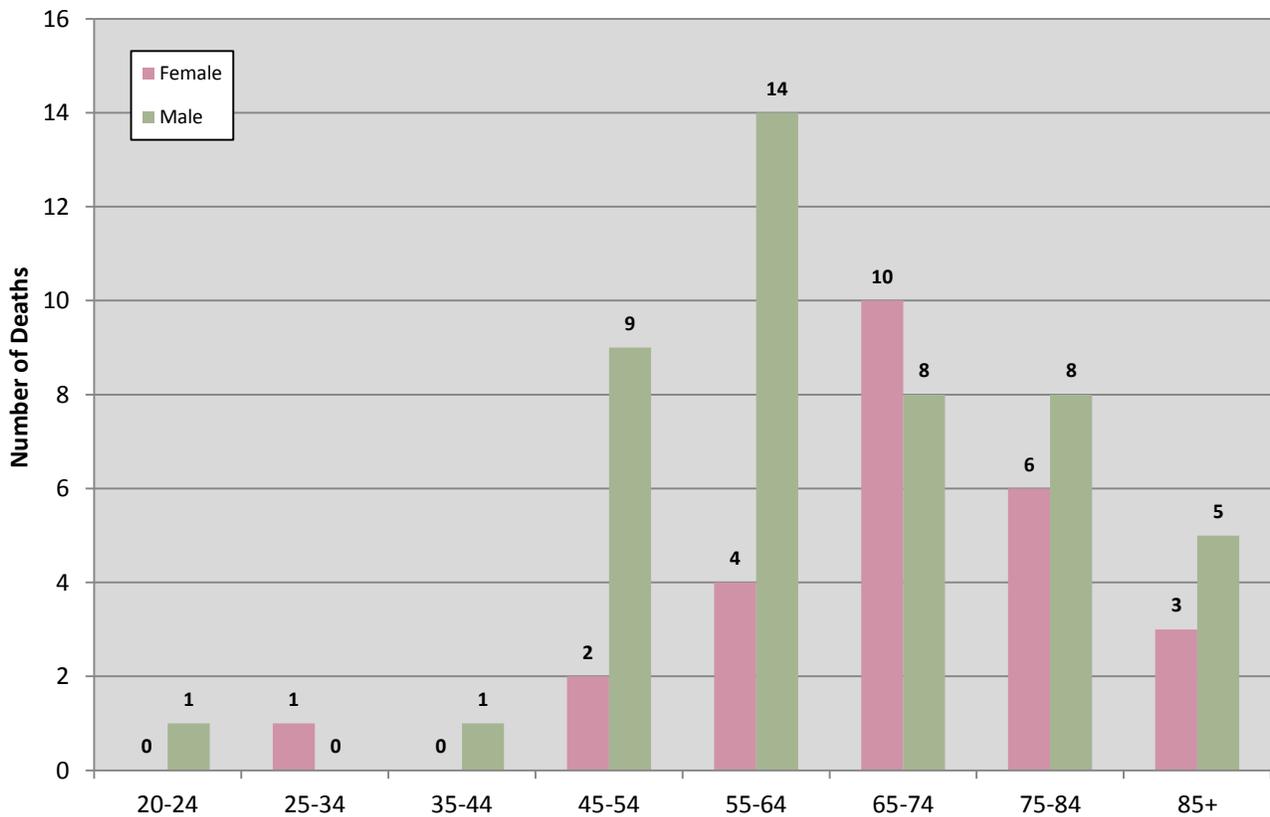


Figure 8.4 Percentage of State Mental Health Deaths Race/Ethnicity, 2015

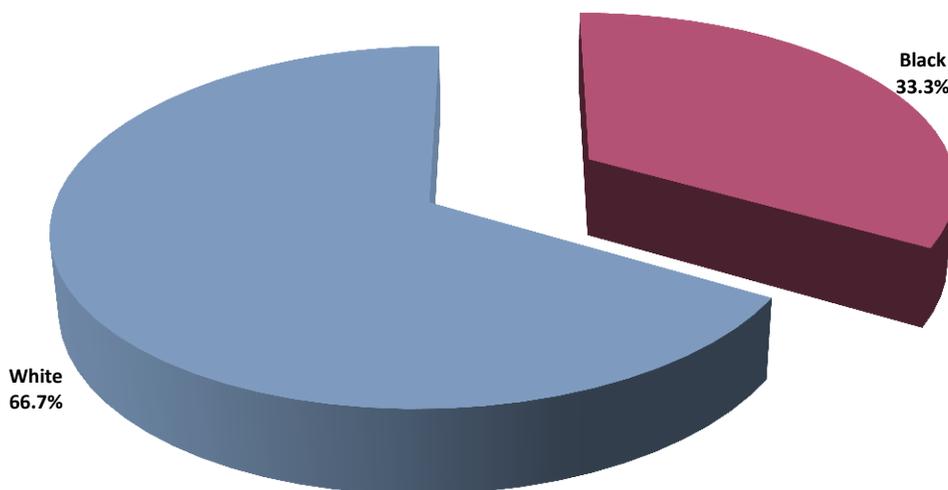


Table 8.1 Number of State Mental Health Deaths by Cause and Method of Death, 2015

Natural Deaths	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Acute coronary insufficiency	0	1
Atherosclerosis	1	1
Atherosclerosis and hypertension	5	7
Cardiomyopathy not otherwise specified	1	1
Hypertension	2	2
Valvular	1	1
Vascular dissection/rupture	2	2
Other cardiac disease/disorder	1	1
Central Nervous System Diseases/Disorders		
Degenerative disease	1	2
Seizure disorder	3	3
Vascular disease	2	2
Gastrointestinal Diseases/Disorders		
Cirrhosis	2	2
GI hemorrhage	0	2
GI malignancy	2	2

Other GI disease/disorder	0	1
Genitourinal Diseases/Disorders		
Genitourinal malignancy	2	2
Renal disease	1	1
Other genitourinal disease/disorder	0	3
Pulmonary Disease/Disorders		
COPD	0	1
Emboli	1	2
Pneumonia	9	23
Pulmonary malignancy	1	2
Systemic Disease/Disorders		
Diabetes	1	1
Metastatic malignancy of unknown primary	0	1
Other infectious disease	1	1
Sepsis	0	1
<i>Natural Death Subtotal</i>	39	68
Unnatural Deaths	Autopsied	Total Cases
Asphyxia		
Choked on foreign object	1	1
Blunt Force Injuries		
Blunt force trauma	2	2
Drug Use		
Prescription drug poisoning	1	1
<i>Unnatural Death Subtotal</i>	4	4
TOTAL OCME DEATHS	43	72

SECTION 9: RETROSPECTIVE CASES (N=149)

Recovered unreported cases are those cases that the OCME investigates 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 VDH's Division of Vital Records, funeral homes, or local medical examiners.

These 149 retrospective deaths may have been deaths that occurred in other years, but the OCME investigation began in 2015.

- The majority of the OCME's retrospective deaths are accidents (82.6%).
- Most common unreported type of death is due to a jump/fall (64.4%) among elder persons

Figure 9.1 Percentage of Retrospective Deaths by Manner of Death, 2015

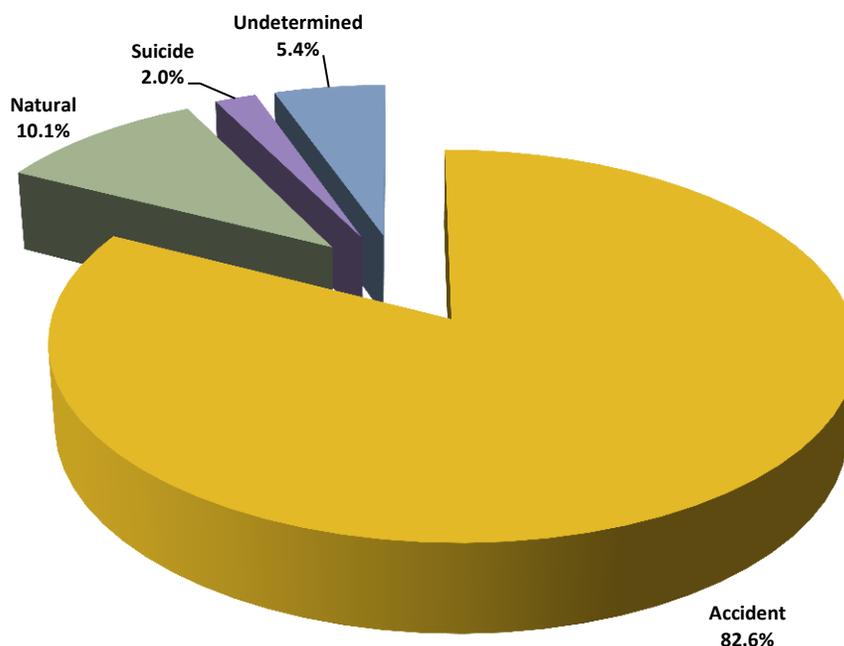


Table 9.1 Number and Percentage of Retrospective Deaths by OCME District, 2015

OCME District	Number	Percent
Central	29	19.5%
Northern	50	33.6%
Tidewater	15	10.1%
Western	55	36.9%
Total	149	100.1%

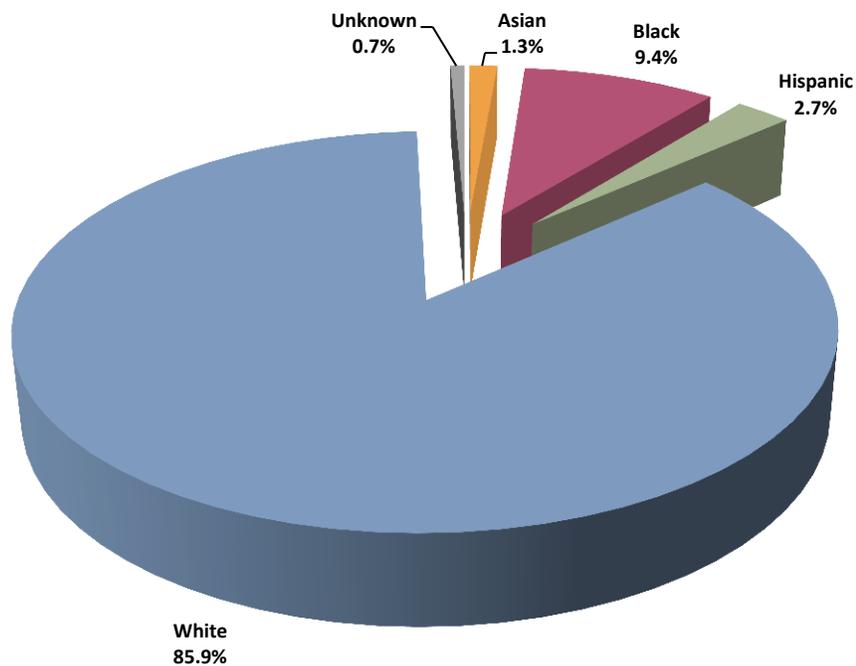
Figure 9.2 Percentage of Retrospective Deaths by Race/Ethnicity, 2015

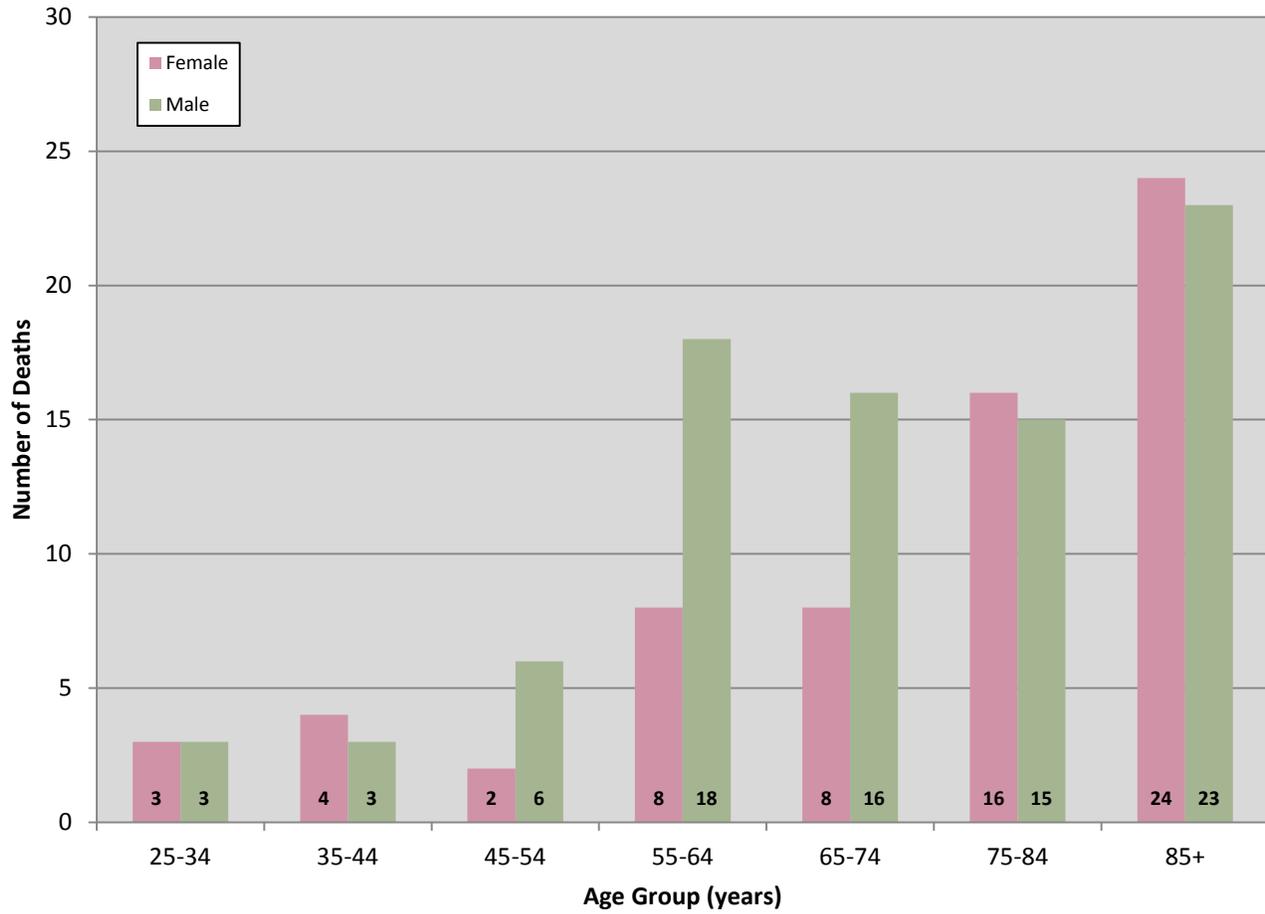
Figure 9.3 Number of Retrospective Deaths by Age Group and Gender, 2015

Table 9.2 Number of Retrospective Deaths by Cause and Method of Death, 2015

Natural Deaths	Total Cases
Cardiovascular Diseases/Disorders	
Acute coronary insufficiency	1
Atherosclerosis	3
Atherosclerosis and hypertension	1
Cardiomyopathy not otherwise specified	1
Hypertension	3
Central Nervous System Diseases/Disorders	
Degenerative disease	1
Other CNS disease/disorder	1
Gastrointestinal Diseases/Disorders	
Cirrhosis	1
Genitourinal Diseases/Disorders	
Other genitourinal disease/disorder	1
Pulmonary Diseases/Disorders	
COPD	1
Pneumonia	1
Other pulmonary disease/disorder	1
Systemic Diseases/Disorders	
Chronic alcoholism	2
Sepsis	1
<i>Natural Death Subtotal</i>	19
Undetermined Deaths	Total Cases
Undetermined Deaths After Autopsy and/or Investigation	
Other Undetermined	3
<i>Undetermined Death Subtotal</i>	3
Unnatural Deaths	Total Cases
Asphyxia	
Choked (aspiration food or foreign object)	5
Drowned	1
Hanged	1
Suffocated by plastic bag	1
Fall/Jump	
Fell or jumped from height	96
Motor Vehicle	
All terrain vehicle	1
Car	3
Motorcycle	2
Pickup truck	1
Unknown	1
Substance Abuse	

Illegal (Street) drug poisoning	1
Mixed category drug poisoning	2
Prescription drug poisoning	6
Traumatic Injury	
Gunshot wound	3
Sharp force injury	1
Other/Undetermined	2
<i>Unnatural Death Subtotal</i>	127
TOTAL OCME DEATHS	149

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.

County/City 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.

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

Drug Caused Death – A death caused by a drug or combination of drugs.

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% W/V 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 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.

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 – 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

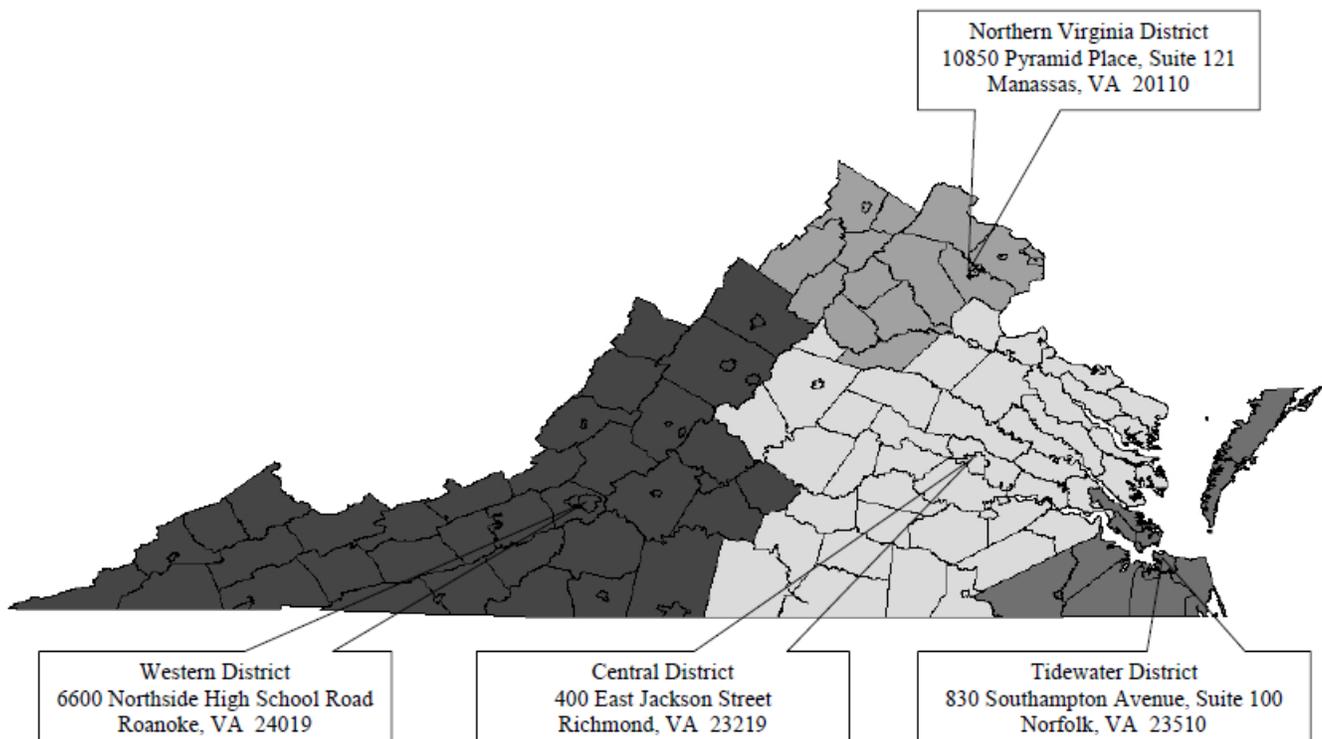
MEDICAL EXAMINER DISTRICTS

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

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

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

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



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Or by contacting:

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